

# 液压软管

HYDRAULIC HOSE



2003年成立以来,利通科技专注**流体板块**(液压软管、石油钻采软管、橡塑复合工业软管、超高压树脂软管、流体连接件、软硬管总成等)、**超高压装备及服务板块**(超高压HPP食品灭菌装备及应用服务、市政工程装备、市政管网服务等)、**高分子材料板块**(材料共混、材料改性、特种橡胶及橡塑制品等),是一家致力于为用户提供流体输送高效解决方案、核电管路高效解决方案、页岩油气钻采管路高效输送解决方案、超高压水射流输送解决方案、氢气加注管路系统解决方案、市政智慧管网解决方案、超高压食品灭菌解决方案、高分子材料共混物高性能解决方案的国家级高新技术企业。

多年来,利通科技各项经营指标稳居国内同行业前列,一路成长为拥有“国家级专精特新‘小巨人’企业”、国家级“绿色工厂”、“河南省制造业单项冠军企业”、“河南省优秀民营企业”、“中国胶管十强企业”等几十项荣誉称号的知名企业,2021年11月15日,利通科技(股票代码:832225)成为北京证券交易所第一批上市公司。

利通科技紧紧围绕超高压流体创新应用产业链,延链、补链、强链,聚力高质量发展、加快动能转换。流体板块主营产品包含“低弯曲、高压、长寿命、多功能”的橡胶软管及软管组合件;耐磨耗、耐腐蚀、耐老化、大口径的橡塑复合软管;超高压、等通径的石油钻采压裂软管;高效、安全的超高压树脂软管;零泄漏、易装配的流体连接件与软硬管总成;超高压装备及服务板块包含绿色安全的超高压食品灭菌装备及灭菌应用服务;依托于超高压水切割技术的市政管网疏通装备及安全、高效的市政管网疏通、打堵、破拆工程服务;高分子材料板块包含多品类、高性能的混炼胶、尼龙循环再利用的改性材料、橡塑共混改性材料、特种混炼胶及橡塑制品。产品广泛应用于工程机械、农用机械、石油钻采、建筑、工业清洗、钢铁、化工、能源、核电、矿山开发、轨道交通、船舶制造、医药、绿色食品、市政工程等领域。

公司拥有CNAS认证的国家级实验室,建有“一院四所”的超高压流体创新研究院,分设漯河流体研究所、漯河超高压装备应用研究所、郑州超高压装备研究所、青岛高分子材料研究所,并与中原食品实验室合作、组建公共研发平台,育大做强超高压流体产业。公司先后通过质量管理体系(符合GB/T 19001-2016/ISO 9001:2015)、武器装备质量管理体系(符合GJB 9001C-2017)、石油天然气行业制造类组织的质量管理体系(符合API Q1)、汽车质量管理体系(符合IATF 16949:2016)、环境管理体系(符合GB/T 24001-2016/ISO14001:2015)、职业健康安全管理体系(符合GB/T 45001-2020/ISO 45001:2018)等;产品认证通过安标(MA·KA)、MSHA、美国石油协会API产品认证(7K、16C、17K)、美国船级社ABS型式认可、挪威船级社DNV型式认可、劳氏防火认证等。

自成立以来,利通科技始终坚持“**认认真真做事,老老实实做人**”的核心价值观,坚定不移地推进“**独创引领,利他聚能**”的发展战略,以建设四个利通(绿色、创新、数字、幸福利通)为己任,以新技术、新装备、新材料创新引领行业高质量发展,成为高质量的价值创造者 有温度的幸福缔造者,让流体技术幸福亿万大众!



Established in 2003, Letone Technology has been focusing on the **fluid sector** (hydraulic hoses, oil drilling hoses, rubber and plastic composite industrial hoses, ultra-high pressure thermoplastic hoses, fittings, hose assemblies, etc.), the **ultra-high pressure equipment and services sector** (ultra-high pressure HPP food sterilization equipment and application services, municipal engineering equipment, municipal pipeline services, etc.), and the **polymer materials sector** (material blending, material modification, special rubber and plastic products, etc.). As a national high-tech enterprise, Letone Technology has been dedicated to offer efficient fluid transfer solutions, nuclear power pipeline solutions, shale oil and gas frac solutions, ultra-high pressure water jetting solutions, hydrogen fueling system solutions, smart pipeline network solutions, ultra-high pressure food sterilization solutions and high-performance polymer material blends solutions to the clients..

Letone Technology has consistently ranked among the top in the domestic industry in various operational indicators, and has grown into a well-known enterprise with dozens of prestigious titles such as "National Level Specialized, Refined, Distinctive, and New 'Little Giant' Enterprise", "National Green Enterprise", "Excellent Private Enterprise in Henan Province", and "Top Ten Rubber Hose Enterprises in China". On 15 Nov. 2021, Letone Technology (Stock Code: 832225) became the first batch of listed companies on the Beijing Stock Exchange, entering a new stage of development.

Letone Technology focuses closely on the innovative application industry chain of ultra-high pressure fluid, extending, supplementing, and strengthening the chain, pooling efforts for high-quality development and accelerating the transformation of kinetic energy. The fluid sector mainly includes "tight bend radius, high pressure, long service life, multipurpose" rubber hoses and hose assemblies; "wear-resistant, corrosion-resistant, anti-aging, large bore" rubber-plastic composite hoses; ultra-high pressure, full-flow petroleum drilling and frac hoses; efficient and safe ultra-high pressure thermoplastic hoses; "zero leakage and easy assembly" fluid connectors and hose assemblies; the ultra-high pressure equipment and services segment includes green and safe ultra-high pressure food sterilization equipment and sterilization application services; municipal pipeline dredging equipment and safe, efficient municipal pipeline dredging, blockage removal, and demolition engineering services based on ultra-high pressure water cutting technology; the polymer materials segment includes multi-category, high-performance mixed rubber, modified materials for nylon recycling, rubber-plastic blends, special mixed rubber, and rubber-plastic products. LETONE products are widely used in engineering machinery, agricultural machinery, oil drilling, construction, industrial cleaning, steel, chemical industry, energy, nuclear power, mining development, rail transportation, shipbuilding, medicine, green food, municipal engineering, and other fields.

Letone Technology owns a national-level laboratory certified by CNAS and has established the "One Academy, Four Branches" ultra-high pressure fluid innovation Academy, consisting of the Luohe Fluid Research Institute, the Luohe Ultra-High Pressure Equipment Application Research Institute, the Zhengzhou Ultra-High Pressure Equipment Research Institute, and the Qingdao Polymer Materials Research Institute. It has collaborated with the Central Plains Food Laboratory to build a public research and development platform, nurturing and strengthening the ultra-high pressure fluid industry. Letone Technology has passed quality management systems such as GB/T 19001-2016/ISO 9001:2015, GJB 9001C-2017, API Q1, IATF 16949:2016, etc. Letone Technology also holds the environment management system international certification issued by IMS (comply with ISO14001:2015 standard), occupational health and safety management system (compliant with GB/T 45001-2020/ISO 45001:2018), etc. Letone Technology has obtained the Safety Certificate of Approval for Mining Products (MA·KA), Certificate of MSHA, API Type Approval (7K, 16C, 17K), ABS Type Approval, DNV Type Approval, GOST Certificate, Lloyd's Fire Test Certificate, etc.

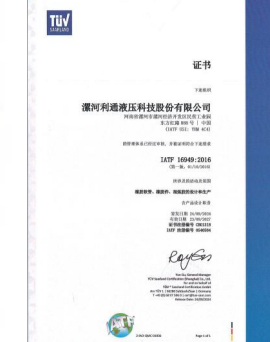
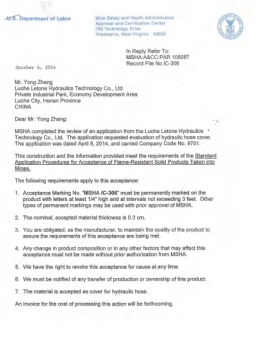
Since its establishment, Letone Technology has always adhered to the core values of "doing things seriously and being honest and trustworthy", and has steadfastly followed the development strategy of "Original Leading. Altruistic Synergy". It takes on the responsibility of building four LETONEs (green, innovative, digital, and happy LETONE), leading the industry's high-quality development with new technologies, new equipment, and new materials innovations, and becoming a high-quality value creator and a warm happiness builder. LETONE aims to bring happiness to billions of people through fluid technology!

通 科技  
NE TECHNOLOGY



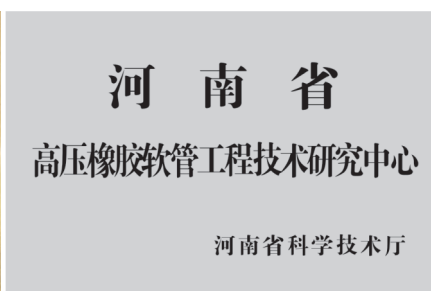
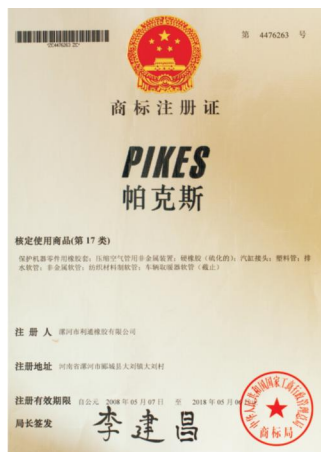
# QUALIFICATION & CERTIFICATE

## 企业资质



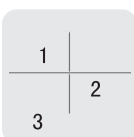
# COMPANY HONOR

## 企业荣誉





- \* 1、液压软管生产车间  
Hydraulic Hose Workshop
- \* 2、Mayer高速钢丝编织生产线  
Mayer High Speed Wire Braid Production Line
- \* 3、OMA高速钢丝编织生产线  
OMA High Speed Wire Braid Production Line



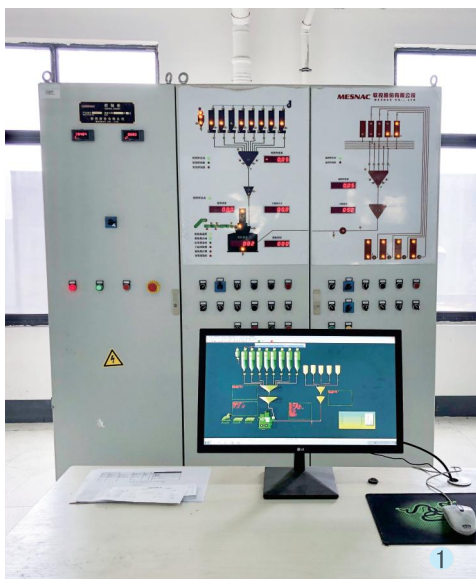
✱ 1、Mayer合股机生产线  
Mayer Wire Winding Production Line

✱ 2、OMA合股机生产线  
OMA Wire Winding Production Line

✱ 3、80米超长硫化罐  
80-meter Vulcanizing Tank



60米超长钢丝缠绕胶管生产线  
60-meter Wire Spiral Hose Production Line



- \* 1、全自动混炼胶生产控制室  
Control Room of The Automatic Rubber Compound Production Line
- \* 2、全自动混炼胶生产线  
The Automatic Rubber Compound Production Line
- \* 3、18+1全自动小料配合系统  
18+1 Automatic Supplementary Material Distribution System



|   |   |
|---|---|
| 1 | 2 |
| 3 | 4 |
|   | 5 |



- \* 1、高铁门尼粘度仪、硫化仪  
Gotech Viscometer And Rheometer
- \* 2、意大利比尔玛曲绕式脉冲试验台  
Bimal Dynamic Impulse Test Stand From Italy
- \* 3、意大利比尔玛脉冲试验台  
Bimal Impulse Test Stand From Italy
- \* 4、化学分析室  
Chemical Analysis Laboratory
- \* 5、臭氧试验机、低温脆性仪  
Ozone Test Machine、Low Temperature Brittlemet Test Machine





**耐火试验**  
Fire Test



**超高压液压软管爆破试验台**  
Super High Pressure Hydraulic Hose Burst Test Stand



**CNC数控车间**  
CNC Machining Workshop



**卧式精密加工中心**  
Horizontal CNC Machining Center



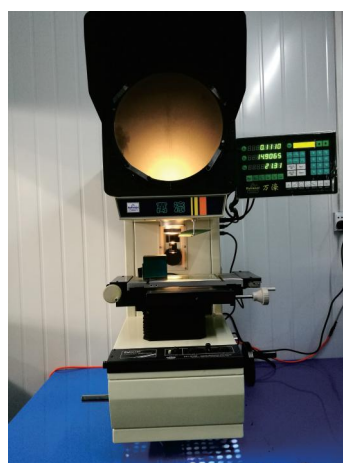
**数控高速圆锯机**  
CNC High Speed Circular Saw



软管总成车间  
Hose Assembly Workshop



碳硫分析仪  
Carbon & Sulfur Analyzer



高精密投影仪  
High Precision Projector



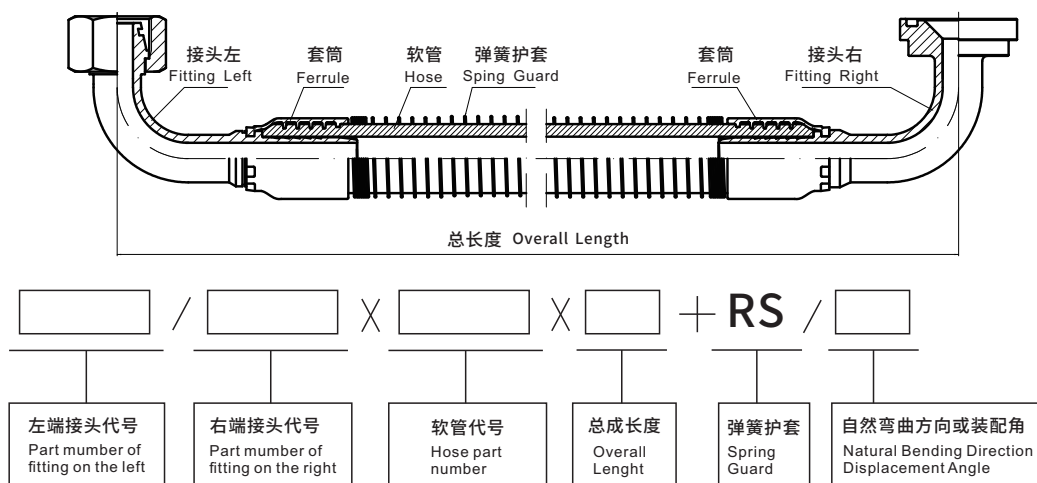
洛氏 & 布氏硬度仪  
Rockwell & Brinell Hardness Tester



盐雾试验机  
Salt Spray Tester

## 软管总成订货方法

How to Order Assembly



订货示例1：20491-30-12T/87391-12-12X2T12X1200+RS/SSX

当无装配角、自然弯曲方向或弹簧护套时，则代号中这些内容可省去不写。

订货示例2：当接头1与接头2 相同时，只标一个接头的代号，如：20491-30-12TX2T12X1200V90。

Order Example 1020491-30-12T/87391-12-12X2T12X1200+RS/SSX

If there is no displacement angle, natural bending direction, or spring guard, please omit the codes of them.

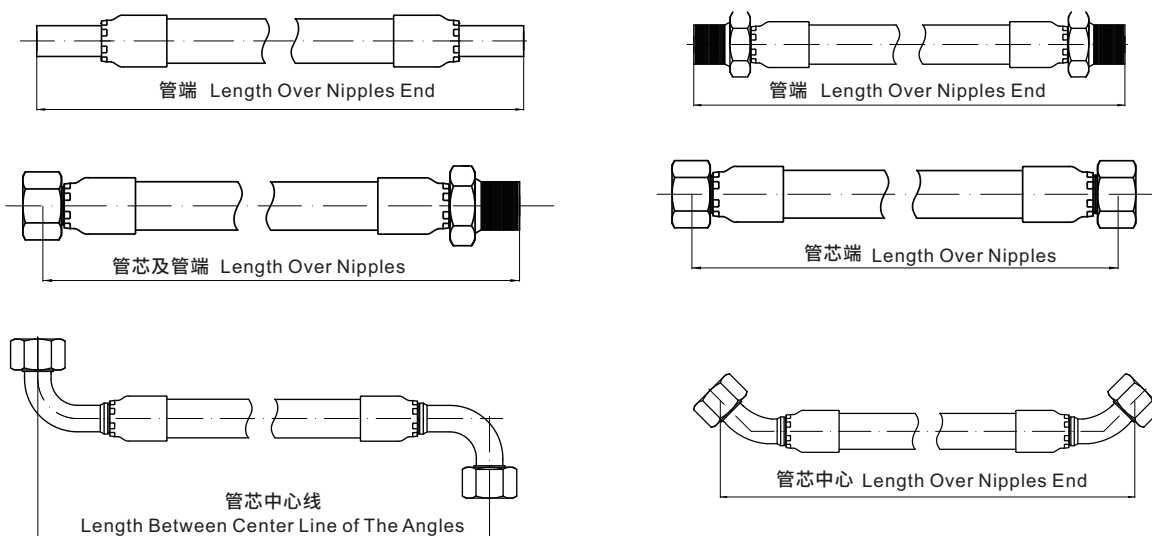
Order Example 2: If the fittings at both ends are the same, only describe the code for once, e.g. 20491-30-12TX2T12X1200V90.

## 软管总成长度表示方法

How to Measure Assembly

软管总成长度L 以从接头芯端面或弯接头芯中心为基准进行测量。

The length of hose assembly "L" is measured bases on the flat end of the fitting core or the center of the elbow fitting core.

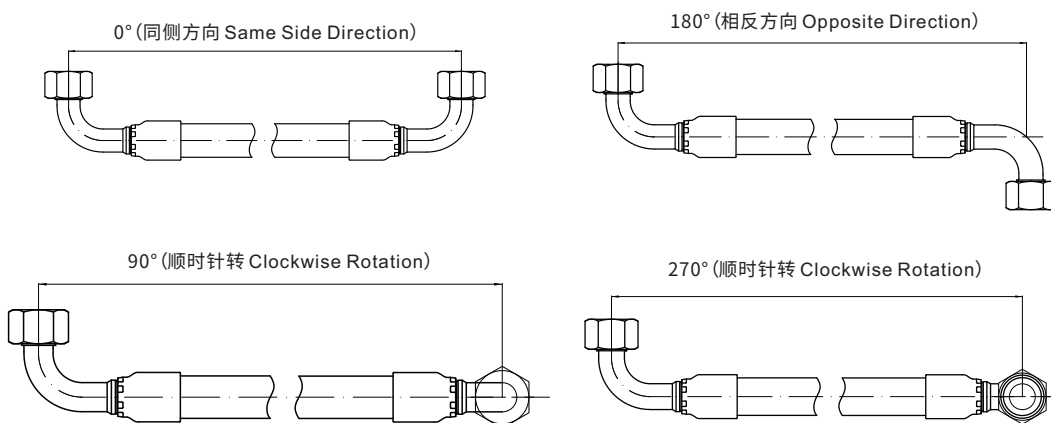


## 软管总成装配角测量

How to Measure Displacement Angle

置胶管总成在同一直线上, 其中一个接头为垂直方向; 按顺时针方向测量另一个接头与垂直方向接头之间的夹角, 此夹角即为装配角。

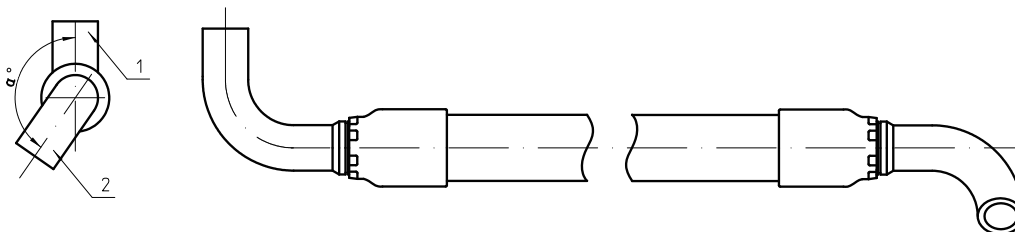
Putting the hose assembly as a straight line, and one of the fitting ends is vertical; to measure the angle between another fitting end and the vertical fitting end in clockwise direction, and this angle is the displacement angle.



装配角允许误差 $\pm 3^\circ$  The permitted tolerance of the displacement angle is  $\pm 3^\circ$ .

当总成的两端接头均为弯接头时, 装配时两弯接头间有一角度关系。测量时, 把软管总成拉直, 并沿直线方向看, 把弯接头1置垂直向上方向, 按顺时针测量弯接头2与垂直放置的弯接头1之间的夹角, 即为软管总成的装配角, 用V表示。如图所示, 例如, 当装配角 $\alpha$ 为225°时, 标记为V225。

When two elbow fittings are used, the displacement angle needs to be specified. Straight the assembly, point the end of coupling 1 to a vertical position as shown in the diagram and measure the angle in a clockwise direction from the center line of coupling 1 to coupling 2, the measured angle is called the displacement angle, described as V. e.g., the angle  $\alpha$  is 225 degrees, the displacement angle is written as V225.

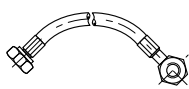
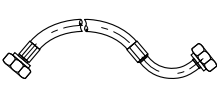
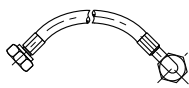
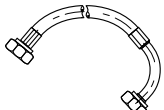


## 软管总成自然弯曲方向规定

The Provisions of The Hose Assembly Natural Bending Direction

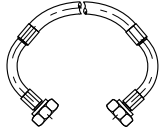
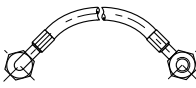
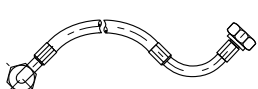
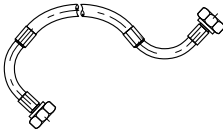
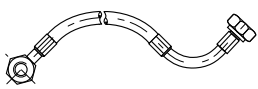
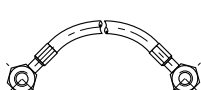
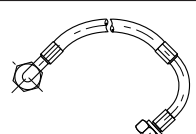
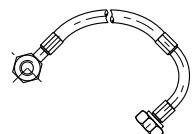
由于软管包装时成捆盘扎,因此在总成加工时难以拉直。当软管总成有一端接头为弯接头时,弯接头的方向与软管自然弯曲的方向之间便形成了不同的关系。把软管自然放置的平面作为水平面,当软管总成的一端接头为弯曲接头,另一端接头为直接头时有如下四种情况:  
Normally, hoses are packaged in bundles, which are difficult to straighten during assembly processing. When a hose assembly has an elbow fitting at one end, different relationships are formed between the direction of the elbow fitting and the direction in which the hose bends naturally.

Taking the plane where the hose is placed naturally as the horizontal plane, when one end of the hose assembly is elbow fitting and another end is straight, there are four situations as follows:

| 图示说明 Situation                                                                    | 表示 Describe                          | 代号 Code | 图示说明 Situation                                                                     | 表示 Describe                           | 代号 Code |
|-----------------------------------------------------------------------------------|--------------------------------------|---------|------------------------------------------------------------------------------------|---------------------------------------|---------|
|  | 单头平面垂直向外<br>One End Vertical Outward | DCW     |  | 单头水平向上<br>One End Horizontal Upward   | DSS     |
|  | 单头平面垂直向内<br>One End Vertical Inward  | DCN     |  | 单头水平向下<br>One End Horizontal Downward | DSX     |

软管总成的两端接头均为弯曲接头时有如下十种情况:

The following ten situations occur when both ends of the hose assembly are elbow fittings:

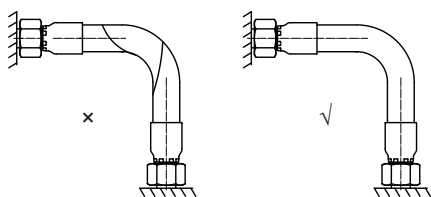
| 图示说明 Situation                                                                      | 表示 Describe                                                                                                   | 代号 Code | 图示说明 Situation                                                                       | 表示 Describe                                                                                                   | 代号 Code |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|
|  | 双头水平向下<br>Two Ends Horizontal Downward                                                                        | SSX     |  | 双头异向平面垂直<br>接头1向内, 接头2向外<br>Two Ends in The Different Direction That Fitting 1 Inward While Fitting 2 Outward | SYC2    |
|  | 双头水平向上<br>Two Ends Horizontal Upward                                                                          | SSS     |  | 接头1平面垂直向内<br>接头2水平向上<br>Fitting 1 Vertical Inward While Fitting 2 Horizontal Upward                           | YNES    |
|  | 接头1向下, 接头2向上<br>Fitting 1 Downward and Fitting 2 Upward                                                       | SSY     |  | 接头1平面垂直向外<br>接头2水平向上<br>Fitting 1 Vertical Outward While Fitting 2 Horizontal Upward                          | YWES    |
|  | 双头同向平面垂直向外<br>Two Ends in The Same Direction and Vertical Outward                                             | STC     |  | 接头1平面垂直向内<br>接头2水平向下<br>Fitting 1 Vertical Inward While Fitting 2 Horizontal Downward                         | YNEX    |
|  | 双头异向平面垂直<br>接头1向外, 接头2向内<br>Two Ends in The Different Direction That Fitting 1 Outward While Fitting 2 Inward | SYC1    |  | 接头1平面垂直向外<br>接头2水平向下<br>Fitting 1 Vertical Outward While Fitting 2 Horizontal Downward                        | YWEX    |

## 软管总成安装指南 & 技术要求

### Assembly Installation & Technical Requirements

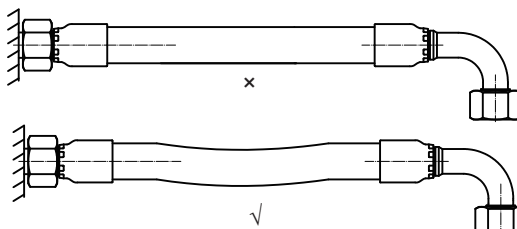
正确地安装软管总成至为重要，总成过长不但影响外观，也会增加成本。如软管总成过短，当其受压而伸展或收缩时，没有足够的伸缩余地则会导致总成被破坏。以下各图显示了安装软管总成时应注意的事项，依此安装可达到最佳的工作效果并延长软管总成的寿命。

Installing the hose assembly in the correct way is very important, it will affect the assembly's appearance and cost a lot while it is too long, but if the assembly is too short, it cannot flex while under pressure. Both too long and too short can break down the assembly. So, pay more attention to the following guides before you install the assembly:



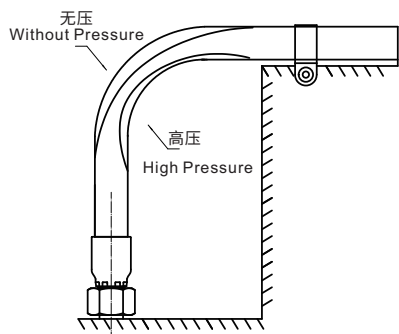
安装软管总成时，切勿让其扭歪，否则当受压力时会破坏胶管或令联接处松脱。

The assembly should not be twisted, it is weakened when installed in twisted position. Also pressure in twisted assembly tends to loosen fitting connections.



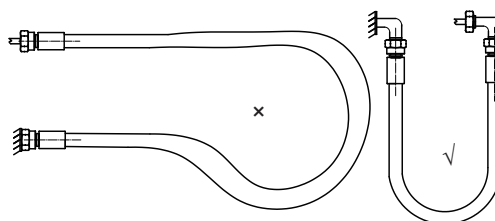
软管总成两端装配后不应把软管拉直，应有些松弛。因在压力作用下，软管长度会有变化，变化幅度从-4%~+2%。

Since hose may change in length from +2% to -4% under high pressure, so provide sufficient slack for expansion and contraction.



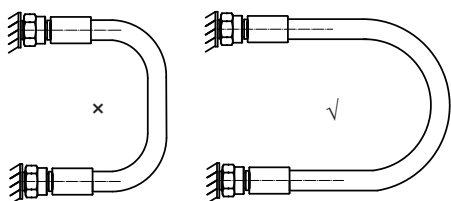
当软管受压时，其长度会改变，因此切勿在弯曲位置上加任何夹子，使其能自由移动。

Don't use any clamps at the inflexion so it can move freely.



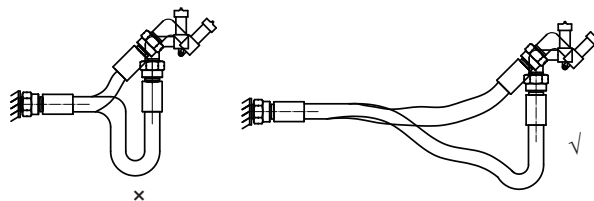
当弯曲半径太小时，宜采用直角接头以免软管出现急弯。

Choose right angle fittings to avoid too small bending radius and excess force.



为避免软管总成被破坏及流量受限制，软管弯曲半径应尽可能加大。

Hose bending radius should be as big as possible when it is in motion.



安装于移动物体间的软管总成应预留足够的长度，并避免和其他物体摩擦。

The length of the hose assembly installed between moving objects should be long enough and avoiding friction with other objects.

## 技术要求

### Safety Guide For Hose Assemblies

影响软管总成使用情况的因素很多, 只有按照工况正确选用软管及接头才能保证使用软管的可靠性和经济性。这些因素有:

#### 1、软管尺寸

软管内径应适当。管径过小会加大管路内介质的流速, 造成系统发热, 降低工作效率, 而且会产生过大的压力降, 影响整个系统的性能。当软管采用管夹固定或穿过钢板时, 需要特别注意软管外径。

#### 2、工作压力

说明书中有关软管的动态工作压力是指软管在连续工作时允许的最高压力。按照有关国际标准规定的液压软管的安全系数, 我们推荐的工作压力通常为软管最小爆破压力值的四分之一。

#### 3、冲击压力和疲劳寿命

软管的选择是根据液压系统设计的最高压力值来确定的。由于液压系统的压力值通常是动态的, 有时会出现冲击压力, 冲击压力峰值会大大高于系统的最高压力值。但系统上一般都有溢流阀, 故冲击压力不会严重影响软管的疲劳寿命。对于冲击压力特别频繁的液压系统, 建议选用特别耐脉动冲击的软管产品。

#### 4、温度范围

用户应该在软管设计的温度范围内使用软管, 如果工作环境温度超过这一范围, 将会影响到软管的寿命, 其承压能力也会大大降低。工作环境温度长期过高或过低的系统, 建议采用软管护套。

#### 5、化学相容性

若使用特殊的液压介质, 用户应确保所选用软管总成的软管内、外层、接头以及O型密封圈与介质相容。

#### 6、弯曲半径

安装软管总成时应注意到软管的最小弯曲半径, 弯曲半径过小将降低软管的承压能力并影响其使用寿命。

#### 7、磨擦

软管在使用时如果经常与硬物接触或磨擦, 建议在软管外部加弹簧护套。

有关利通科技液压软管及软管总成的其他问题, 欢迎联系我们沟通交流。

**Many factors can affect the usage condition of the hose assembly. Using the hose assembly and hose fittings correctly can ensure its reliability and economic efficiency. These factors are as follows:**

#### 1. Hose Dimension

The selection of hose inside diameter must be correctly made. If the hose inside diameter is too small, it will speed up the medium in the pipeline, heat the system, lower the efficiency, and produce excessive pressure drop which will affect the whole system's capability. If it fix with a hose clamp or cross the steel board, the outside diameter of the hose should be paid more attention.

#### 2. Working Pressure

The dynamic working pressure in this catalog refers to the allowable maximum pressure in the condition of continuously working. According to the safety modulus of hydraulic hose ruled by international standards, we recommend that the working pressure is one-quarter of the minimum blast pressures.

#### 3. Impact Pressure & Fatigue Lifespan

After determining the maximum system pressure for a hydraulic system, hose selection can be made. For the hydraulic system's pressure always be dynamic, there often appears an impact pressure, the maximum impact pressure is much higher than the maximum system pressure. Luckily, there is an overflow valve in every hydraulic system, so high impact pressure cannot affect the fatigue lifespan seriously. As for a hydraulic system whose impact pressure appears very frequently, we advise you choose the special hydraulic hose which can endure the high impact pressure.

#### 4. Temperature Range

The user must ensure that the temperature is in an allowable range of the hose. if exceeding this range, the lifespan of the hose will be shortened and the capacity to endure pressure will go down. If the working condition temperature keeps too high or too low for a long time, we advise you use the hose spring guard.

#### 5. Chemical Compatibility

If using a special hydraulic medium, the user should ensure the material of the hose inner side and cover, the hose fittings, and O-ring can compatible with the special hydraulic medium.

#### 6. Bending Radius

Pay more attention to its minimum bending radius when installing the hose assembly, if the bending radius is smaller than the provided standard, the capacity of enduring pressure will get down and the lifespan of the hose will be shortened.

#### 7. Friction

We advised you use a spring guard if the hose is always in the condition of touching and making friction with the hard object. Any technical question about Letone hydraulic hose assembly, please feel free to contact us!

## 软管代号及技术参数

Hose Part No. and Specification

| 软管类型<br>Hose Type                                 | 软管标准<br>Hose Standard       | 软管简号<br>Hose Part No. | 通径 I.D                         | 5    | 6    | 8    | 10   | 13   | 16   | 19   | 22   | 25   | 32   | 38   | 51   |
|---------------------------------------------------|-----------------------------|-----------------------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 钢丝<br>编织<br>软管<br>Steel<br>Wire<br>Braid<br>Hose  | SAE 100R1AT                 | 1T                    | 标号 DASH                        | -03  | -04  | -05  | -06  | -08  | -10  | -12  | -14  | -16  | -20  | -24  | -32  |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  | 89   | 102  | 114  | 127  | 178  | 203  | 241  |      | 305  | 419  | 508  | 635  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure | 20.7 | 19.0 | 17.2 | 15.5 | 13.8 | 10.3 | 8.6  |      | 6.9  | 11.2 | 3.4  | 2.6  |
|                                                   | SAE 100R2AT                 | 2T                    | 最小弯曲半径<br>Min. Bending Radius  | 89   | 102  | 114  | 127  | 178  | 203  | 241  |      | 305  | 420  | 508  | 635  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure | 34.5 | 34.5 | 29.3 | 27.6 | 24.1 | 19.0 | 15.5 |      | 13.8 | 6.3  | 8.6  | 7.8  |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  | 90   | 100  | 115  | 130  | 180  | 200  | 240  |      | 300  | 420  | 500  | 630  |
|                                                   | DIN 20022 1SN<br>EN 853 1SN | 1SN                   | 工作压力 (Mpa)<br>Working Pressure | 25.0 | 22.5 | 21.5 | 18.0 | 16.0 | 13.0 | 10.5 |      | 8.8  | 12.5 | 5.0  | 4.0  |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  | 90   | 100  | 115  | 130  | 180  | 200  | 240  |      | 300  | 420  | 500  | 630  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure | 41.5 | 40.0 | 35.0 | 33.0 | 27.5 | 25   | 21.5 |      | 7.0  | 4.4  | 9.0  | 8.0  |
|                                                   | GB 3683 1型                  | 1W                    | 最小弯曲半径<br>Min. Bending Radius  | 90   | 100  | 115  | 130  | 180  | 205  | 240  | 280  | 300  | 420  | 500  | 630  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure | 21.0 | 20.0 | 17.5 | 16.0 | 14.0 | 20.0 | 9.0  | 8.0  | 7.0  | 11.0 | 3.5  | 2.6  |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  | 90   | 100  | 115  | 130  | 180  | 203  | 240  | 280  | 300  | 419  | 500  | 630  |
| 钢丝<br>缠绕<br>软管<br>Steel<br>Wire<br>Spiral<br>Hose | SAE 100 R12                 | R12                   | 工作压力 (Mpa)<br>Working Pressure | 35.0 | 35.0 | 32.0 | 28.0 | 25.0 | 27.6 | 16.0 | 14.0 | 14.0 | 20.7 | 9.0  | 8.0  |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  |      |      |      | 127  | 178  | 250  | 241  |      | 305  | 460  | 508  | 635  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure |      |      |      | 27.6 | 27.6 | 40.0 | 27.6 |      | 27.6 | 21.0 | 17.2 | 17.2 |
|                                                   | DIN 20023-4SP               | 4SP                   | 最小弯曲半径<br>Min. Bending Radius  |      | 150  |      | 180  | 230  | 250  | 300  |      | 340  | 460  | 560  | 660  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure |      | 50.0 |      | 46.0 | 42.5 | 40.0 | 38.0 |      | 32.0 | 21.0 | 18.5 | 17.5 |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  |      |      |      |      |      | 250  | 280  |      | 340  | 460  | 560  | 700  |
|                                                   | DIN 20023-4SH               | 4SH                   | 工作压力 (Mpa)<br>Working Pressure |      |      |      |      |      | 45.0 | 42.0 |      | 38.5 | 35.0 | 30.0 | 25.0 |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  | 100  | 125  | 140  | 150  | 205  | 235  | 280  |      | 360  | 460  | 560  | 710  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure | 69.0 | 60.5 | 56.0 | 51.5 | 43.0 | 38.0 | 34.5 |      | 27.5 | 20.5 | 17.0 | 17.0 |
|                                                   | GB10544 3型                  | 4SC                   | 最小弯曲半径<br>Min. Bending Radius  |      |      |      |      | 200  |      | 280  |      | 340  | 460  | 560  | 700  |
|                                                   |                             |                       | 工作压力 (Mpa)<br>Working Pressure |      |      |      |      | 55.0 |      | 42.0 |      | 38.0 | 32.5 | 29.0 | 25.0 |
|                                                   |                             |                       | 最小弯曲半径<br>Min. Bending Radius  |      |      |      |      |      |      |      |      |      |      |      |      |

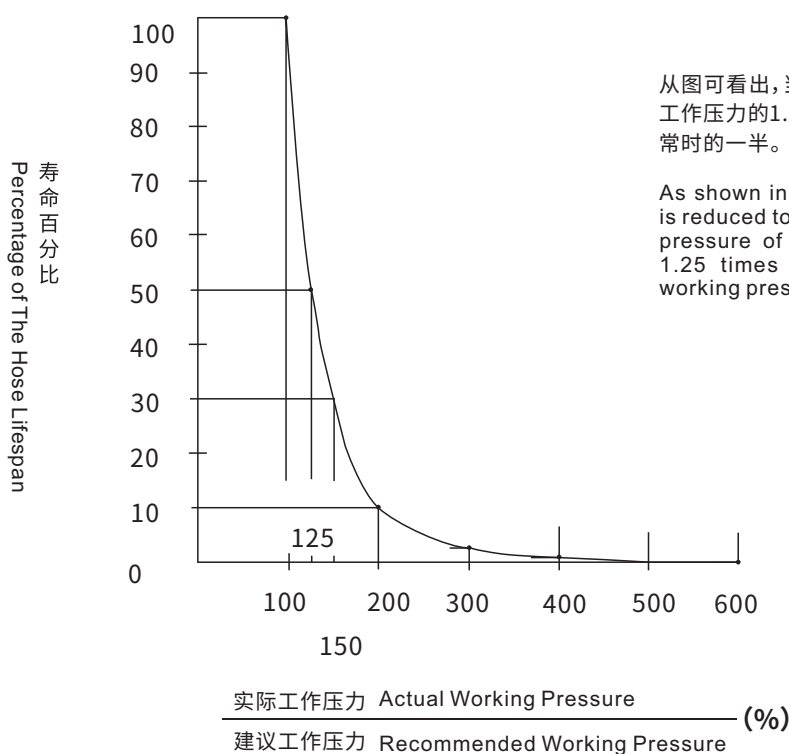
## 软管、接头芯与套筒配用表

Matching Chart for Hoses, fittings, and Ferrules

| 软管简号<br>Hose Part No. | 通径 I.D                     | 5         | 6         | 8         | 10        | 13        | 16        | 19        | 22       | 25        | 32       | 38       | 51       |
|-----------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|
| 1T                    | 标号 DASH<br>配用套筒<br>Ferrule | -03       | -04       | -05       | -06       | -08       | -10       | -12       | -14      | -16       | -20      | -24      | -32      |
| 1SN                   | 配用接头芯<br>Fitting           | 00110-03A | 00110-04A | 00110-05A | 00110-06A | 00110-08A | 00110-10A | 00110-12A |          | 00110-16A | 00110-20 | 00110-24 | 00110-32 |
| XXXX1-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 2T                    | 配用套筒<br>Ferrule            | 03310-03A | 03310-04A | 03310-05A | 03310-06A | 03310-08A | 03310-10A | 03310-12A |          | 03310-16A | 03310-20 | 03310-24 | 03310-32 |
| 2SN                   | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX1-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 1W                    | 配用套筒<br>Ferrule            | 00100-03  | 00100-04  | 00100-05  | 00100-06  | 00100-08  | 00100-10  | 00100-12  | 00100-14 | 00100-16  | 00100-20 | 00100-24 | 00100-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX1-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 2W                    | 配用套筒<br>Ferrule            | 00100-03  | 00200-04  | 00200-05  | 00200-06  | 00200-08  | 00200-10  | 00200-12  | 00200-14 | 00200-16  | 00200-20 | 00200-24 | 00200-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX1-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| R12                   | 配用套筒<br>Ferrule            |           | 00400-04  |           | 00400-06  | 00400-08  | 00400-10  | 00400-12  |          | 00400-16  | 00400-20 | 00400-24 | 00400-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX2-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 4SP                   | 配用套筒<br>Ferrule            |           | 00400-04  |           | 00400-06  | 00400-08  | 00400-10  | 00400-12  |          | 00400-16  | 00400-20 | 00400-24 | 00400-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX2-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 4SH                   | 配用套筒<br>Ferrule            |           |           |           |           |           | 00400-10  | 00400-12  |          | 00400-16  | 00400-20 | 00400-24 | 00400-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX2-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 4SC                   | 配用套筒<br>Ferrule            |           | 001401-04 |           | 01401-06  | 01401-08  |           | 01401-12  |          | 01401-16  | 00400-20 | 00401-24 | 00401-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX2-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |
| 4SE                   | 配用套筒<br>Ferrule            |           |           |           |           | 01400-08  |           | 01400-12  |          | 01400-16  | 01400-20 | 01400-24 | 01400-32 |
|                       | 配用接头芯<br>Fitting           |           |           |           |           |           |           |           |          |           |          |          |          |
| XXXX2-                |                            |           |           |           |           |           |           |           |          |           |          |          |          |

## 软管实际工作压力与寿命关系图

The Relationship Between Hose Working Pressure and Lifespan



## 软管总成的贮存要求

Storage Requirements

- 只要有可能, 贮存温度应当在0~35°C之间, 贮存期间产品的温度最高不得超过50°C;
- 贮存区不得停放能产生臭氧的装置。如汞蒸气灯、高电压电气装置、电动机或其他能产生电火花或放电的装置;
- 不能与腐蚀性产品放在一起或暴露在这些产品的挥发气体中;
- 应远离热源和能产生电场和磁场的设备;
- 应避免阳光或强烈人造光源直射;
- 应避免与尖锐的物体或地面接触;
- 应平放, 堆叠不能很高;
- 应保证不受啮齿类动物的侵害;
- 贮存时遵守先进先出的原则;
- The recommended storage temperature range is 0~35°C, exceeding +50°C is not allowed;
- Storage areas should not have equipment that might emit ozone, such as mercury vapor lamps, high voltage electronic devices, electric generators, or other devices that may produce electric sparks;
- Corrosive materials, flammable, and gas volatile products cannot be stored in the nearby area;
- Stay away from the source of strong heat and strong electromagnetic field;
- Avoid direct sunlight or strong artificial light source;
- Protect all rubber surfaces from damage due to sharp objects or abrasion;
- Cannot be piled up too high;
- Guarantee against rodent attack;
- Follow the rules of "first in, first out".

# 钢丝缠绕液压软管

WIRE SPIRAL HYDRAULIC HOSE

|                |                                                      |   |
|----------------|------------------------------------------------------|---|
| <b>LT581</b>   | SAE 100R12 钢丝缠绕液压软管                                  | 1 |
|                | SAE 100R12 WIRE SPIRAL HYDRAULIC HOSE                |   |
| <b>LT582</b>   | SAE 100R13 钢丝缠绕液压软管                                  | 2 |
|                | SAE 100R13 WIRE SPIRAL HYDRAULIC HOSE                |   |
| <b>LT583</b>   | EN856-4SP 钢丝缠绕液压软管                                   | 3 |
|                | EN856-4SP WIRE SPIRAL HYDRAULIC HOSE                 |   |
| <b>LT585</b>   | MT/T98 矿用钢丝缠绕液压软管                                    | 4 |
|                | MT/T98 WIRE SPIRAL HYDRAULIC HOSE FOR MINING         |   |
| <b>LT588</b>   | EN856-4SH 钢丝缠绕液压软管                                   | 5 |
|                | EN856-4SH WIRE SPIRAL HYDRAULIC HOSE                 |   |
| <b>LT589</b>   | SAE 100R15 钢丝缠绕液压软管                                  | 6 |
|                | SAE 100R15 WIRE SPIRAL HYDRAULIC HOSE                |   |
| <b>LT599</b>   | ISO18752-CC 大力神钢丝缠绕液压软管                              | 7 |
|                | ISO18752-CC ARTERY* WIRE SPIRAL HYDRAULIC HOSE       |   |
| <b>LTSA599</b> | ISO18752-DC 超级大力神钢丝缠绕液压软管                            | 8 |
|                | ISO18752-DC SUPER ARTERY* WIRE SPIRAL HYDRAULIC HOSE |   |

# 钢丝编织液压软管

WIRE BRAID HYDRAULIC HOSE

|                |                                                        |    |
|----------------|--------------------------------------------------------|----|
| <b>LT681</b>   | SAE 100RAT/EN853 钢丝编织液压软管                              | 9  |
|                | SAE 100RAT/EN853 WIRE BRAID HYDRAULIC HOSE             |    |
| <b>LT682</b>   | SAE 100RA/EN853ST 钢丝编织液压软管                             | 10 |
|                | SAE 100RA/EN853ST WIRE BRAID HYDRAULIC HOSE            |    |
| <b>LT683</b>   | EN857SC 钢丝编织液压软管                                       | 11 |
|                | EN857SC WIRE BRAID HYDRAULIC HOSE                      |    |
| <b>LT685</b>   | MT/T98 矿用钢丝编织液压软管                                      | 12 |
|                | MT/T98 WIRE BRAID HYDRAULIC HOSE FOR MINING            |    |
| <b>LT686</b>   | MT/T98 矿用大口径钢丝编织液压软管                                   | 13 |
|                | MT/T98 LARGE SIZE WIRE BRAID HYDRAULIC HOSE FOR MINING |    |
| <b>LT687</b>   | SAE 100R16 钢丝编织液压软管                                    | 14 |
|                | SAE 100R16 WIRE BRAID HYDRAULIC HOSE                   |    |
| <b>LT688</b>   | SAE 100R17 钢丝编织液压软管                                    | 15 |
|                | SAE 100R17 WIRE BRAID HYDRAULIC HOSE                   |    |
| <b>LT689</b>   | SAE 100R19 紧凑型钢丝编织液压软管                                 | 16 |
|                | SAE 100R19 COMPACT WIRE BRAID HYDRAULIC HOSE           |    |
| <b>LT699</b>   | ISO18752-AC/BC 大力神钢丝编织液压软管                             | 17 |
|                | ISO18752-AC/BC ARTERY* WIRE BRAID HYDRAULIC HOSE       |    |
| <b>LTSA699</b> | ISO18752-BC 超级大力神钢丝编织液压软管                              | 18 |
|                | ISO18752-BC SUPER ARTERY* WIRE BRAID HYDRAULIC HOSE    |    |

|                                                                                                      |    |
|------------------------------------------------------------------------------------------------------|----|
| <b>LT780</b> 国标回油管<br>OIL RETURN LINE                                                                | 19 |
| <b>LT781</b> SAE 100R3 纤维编织软管<br>SAE 100R3 FIBER BRAID HOSE                                          | 20 |
| <b>LT782</b> SAE 100R4 液压吸油回油软管<br>SAE 100R4 HYDRAULIC SUCTION AND RETURN LINE                       | 21 |
| <b>LT783</b> SAE 100R5 液压软管<br>SAE 100R5 HYDRAULIC HOSE                                              | 22 |
| <b>LT784</b> SAE 100R6 纤维编织软管<br>SAE 100R6 FIBER BRAID HOSE                                          | 23 |
| <b>LT785</b> GB1186 压缩空气软管<br>GB1186 COMPRESSED AIR HOSE                                             | 24 |
| <b>LT787</b> EN854 2TE & 3TE 回油软管<br>EN854 2TE & 3TE OIL RETURN LINE                                 | 25 |
| <b>LT788</b> 喷沙软管<br>SAND BLASTING HOSE                                                              | 26 |
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**LT581** SAE 100R12 | MSHA

## 钢丝缠绕液压软管

### WIRE SPIRAL HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐热油合成橡胶

**增强层:**四层缠绕的高强度钢丝

**外胶层:**黑色耐油、耐天候合成橡胶

**温度范围:**-40℃ 至 +121℃ (-40°F 至 +250°F)



**应用:**适用于工程机械、林业机械及农用机械等在苛刻工况下输送水基、石油基及可生物降解的液压油。

#### Hose Construction

**Inner Tube:**black hot oil resistant synthetic rubber

**Reinforcement:**four plies of spiraled high tensile steel wire

**Outer Layer:**black oil and weather resistant synthetic rubber

**Temperature Range:**-40℃ ~ +121℃ (-40°F ~ +250°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil under harsh working conditions.

| 规格   | 规格    | <br>软管内径<br>I.D | <br>增强层外径<br>W.D | <br>软管外径<br>O.D | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |     |     |      |
|------|-------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----|-----|------|
| SIZE | SIZE  | 最小<br>Min                                                                                          | 最大<br>Max                                                                                           | 最小<br>Min                                                                                          | 最大<br>Max                                                                                                    | 最小<br>Min                                                                                            | 最大<br>Max                                                                                                      |                                                                                                                |                                                                                                      |     |     |      |
| DASH | IN    | mm                                                                                                 | mm                                                                                                  | mm                                                                                                 | mm                                                                                                           | mm                                                                                                   | mm                                                                                                             | MPa                                                                                                            | MPa                                                                                                  | MPa | mm  | kg/m |
| -6   | 3/8   | 9.5                                                                                                | 10.5                                                                                                | 16.9                                                                                               | 18.1                                                                                                         | 19.0                                                                                                 | 21.0                                                                                                           | 28                                                                                                             | 56                                                                                                   | 112 | 125 | 0.71 |
| -8   | 1/2   | 12.5                                                                                               | 13.5                                                                                                | 20.1                                                                                               | 21.3                                                                                                         | 22.1                                                                                                 | 24.1                                                                                                           | 28                                                                                                             | 56                                                                                                   | 112 | 180 | 0.85 |
| -10  | 5/8   | 15.5                                                                                               | 16.7                                                                                                | 24.0                                                                                               | 25.2                                                                                                         | 26.5                                                                                                 | 28.5                                                                                                           | 28                                                                                                             | 56                                                                                                   | 112 | 200 | 1.06 |
| -12  | 3/4   | 18.6                                                                                               | 19.8                                                                                                | 26.9                                                                                               | 28.4                                                                                                         | 29.1                                                                                                 | 31.1                                                                                                           | 28                                                                                                             | 56                                                                                                   | 112 | 240 | 1.33 |
| -16  | 1     | 25.0                                                                                               | 26.4                                                                                                | 34.2                                                                                               | 35.8                                                                                                         | 36.3                                                                                                 | 38.7                                                                                                           | 28                                                                                                             | 56                                                                                                   | 112 | 300 | 1.83 |
| -20  | 1 1/4 | 31.4                                                                                               | 33.0                                                                                                | 42.9                                                                                               | 44.9                                                                                                         | 45.3                                                                                                 | 47.7                                                                                                           | 21                                                                                                             | 42                                                                                                   | 84  | 420 | 2.67 |
| -24  | 1 1/2 | 37.7                                                                                               | 39.3                                                                                                | 49.4                                                                                               | 51.4                                                                                                         | 52.3                                                                                                 | 54.7                                                                                                           | 17.5                                                                                                           | 35                                                                                                   | 70  | 500 | 3.12 |
| -32  | 2     | 50.8                                                                                               | 52.0                                                                                                | 62.5                                                                                               | 64.8                                                                                                         | 65.1                                                                                                 | 68.3                                                                                                           | 17.5                                                                                                           | 35                                                                                                   | 70  | 640 | 4.48 |

 **LT582** SAE 100R13 | MSHA

## 钢丝缠绕液压软管

### WIRE SPIRAL HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐热油合成橡胶

**增强层:**四层或六层缠绕的高强度钢丝

**外胶层:**黑色耐油、耐天候合成橡胶

**温度范围:**-40℃至+121℃ (-40°F至+250°F)

**应用:**适用于工程机械、林业机械及农用机械等在苛刻工况下输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black hot oil resistant synthetic rubber

**Reinforcement:**four or six plies of spiraled high tensile steel wire

**Outer Layer:**black oil and weather resistant synthetic rubber

**Temperature Range:**-40℃~+121℃ (-40°F~+250°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil under harsh working conditions.

| 规格   | 规格    | <br>软管内径<br>I.D |           | <br>增强层外径<br>W.D |           | <br>软管外径<br>O.D |           | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|      |       | 最小<br>Min                                                                                          | 最大<br>Max | 最小<br>Min                                                                                           | 最大<br>Max | 最小<br>Min                                                                                          | 最大<br>Max |                                                                                                              |                                                                                                      |                                                                                                                |                                                                                                                |                                                                                                      |
| SIZE | SIZE  | mm                                                                                                 | mm        | mm                                                                                                  | mm        | mm                                                                                                 | mm        | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| DASH | IN    |                                                                                                    |           |                                                                                                     |           |                                                                                                    |           |                                                                                                              |                                                                                                      |                                                                                                                |                                                                                                                |                                                                                                      |
| -12  | 3/4   | 18.6                                                                                               | 19.8      | 28.2                                                                                                | 29.4      | 31.2                                                                                               | 33.2      | 35                                                                                                           | 70                                                                                                   | 140                                                                                                            | 240                                                                                                            | 1.61                                                                                                 |
| -16  | 1     | 25.0                                                                                               | 26.4      | 34.8                                                                                                | 36.4      | 37.3                                                                                               | 39.7      | 35                                                                                                           | 70                                                                                                   | 140                                                                                                            | 300                                                                                                            | 2.06                                                                                                 |
| -20  | 1 1/4 | 31.4                                                                                               | 31.4      | 46.0                                                                                                | 48.0      | 48.8                                                                                               | 51.2      | 35                                                                                                           | 70                                                                                                   | 140                                                                                                            | 420                                                                                                            | 3.84                                                                                                 |
| -24  | 1 1/2 | 37.7                                                                                               | 37.7      | 53.0                                                                                                | 55.0      | 55.8                                                                                               | 58.2      | 35                                                                                                           | 70                                                                                                   | 140                                                                                                            | 500                                                                                                            | 4.60                                                                                                 |
| -32  | 2     | 50.4                                                                                               | 50.4      | 67.1                                                                                                | 69.1      | 69.5                                                                                               | 72.5      | 35                                                                                                           | 70                                                                                                   | 140                                                                                                            | 640                                                                                                            | 6.61                                                                                                 |


**LT583** EN 856-4SP | MSHA

## 钢丝缠绕液压软管

### WIRE SPIRAL HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**四层缠绕的高强度钢丝

**外胶层:**黑色耐油、耐天候合成橡胶

**温度范围:**-40℃至+100℃ (-40°F至+212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**four plies of spiraled high tensile steel wire

**Outer Layer:**black oil and weather resistant synthetic rubber

**Temperature Range:**-40℃~+100℃ (-40°F~+212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格   | 规格    | <br>软管内径<br>I.D | <br>增强层外径<br>W.D | <br>软管外径<br>O.D | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |     |     |      |
|------|-------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----|-----|------|
| SIZE | SIZE  | 最小<br>Min                                                                                          | 最大<br>Max                                                                                           | 最小<br>Min                                                                                          | 最大<br>Max                                                                                                    | 最小<br>Min                                                                                            | 最大<br>Max                                                                                                      | MPa                                                                                                            | MPa                                                                                                  | MPa | mm  | kg/m |
| DASH | IN    | mm                                                                                                 | mm                                                                                                  | mm                                                                                                 | mm                                                                                                           | mm                                                                                                   | mm                                                                                                             | MPa                                                                                                            | MPa                                                                                                  | MPa | mm  | kg/m |
| -4   | 1/4   | 6.2                                                                                                | 7.0                                                                                                 | 14.3                                                                                               | 15.5                                                                                                         | 16.6                                                                                                 | 18.6                                                                                                           | 45                                                                                                             | 90                                                                                                   | 180 | 150 | 0.60 |
| -6   | 3/8   | 9.5                                                                                                | 10.5                                                                                                | 16.9                                                                                               | 18.1                                                                                                         | 19.1                                                                                                 | 21.1                                                                                                           | 44.5                                                                                                           | 89                                                                                                   | 178 | 180 | 0.71 |
| -8   | 1/2   | 12.5                                                                                               | 13.5                                                                                                | 19.8                                                                                               | 21.0                                                                                                         | 21.8                                                                                                 | 23.8                                                                                                           | 41.5                                                                                                           | 83                                                                                                   | 166 | 230 | 0.82 |
| -10  | 5/8   | 15.5                                                                                               | 16.7                                                                                                | 23.0                                                                                               | 24.6                                                                                                         | 25.4                                                                                                 | 27.4                                                                                                           | 35                                                                                                             | 70                                                                                                   | 140 | 250 | 1.01 |
| -12  | 3/4   | 18.6                                                                                               | 19.8                                                                                                | 27.4                                                                                               | 29.0                                                                                                         | 30.0                                                                                                 | 32.0                                                                                                           | 35                                                                                                             | 70                                                                                                   | 140 | 300 | 1.43 |
| -16  | 1     | 25.0                                                                                               | 26.4                                                                                                | 34.5                                                                                               | 36.1                                                                                                         | 37.0                                                                                                 | 39.0                                                                                                           | 32                                                                                                             | 64                                                                                                   | 128 | 340 | 1.97 |
| -20  | 1 1/4 | 31.4                                                                                               | 33.0                                                                                                | 45.0                                                                                               | 46.4                                                                                                         | 47.4                                                                                                 | 49.8                                                                                                           | 21                                                                                                             | 42                                                                                                   | 84  | 460 | 2.96 |
| -24  | 1 1/2 | 37.7                                                                                               | 39.3                                                                                                | 50.9                                                                                               | 52.3                                                                                                         | 53.8                                                                                                 | 56.2                                                                                                           | 18.5                                                                                                           | 37                                                                                                   | 74  | 560 | 3.42 |
| -32  | 2     | 50.4                                                                                               | 52.0                                                                                                | 64.3                                                                                               | 66.3                                                                                                         | 66.9                                                                                                 | 69.3                                                                                                           | 16.5                                                                                                           | 33                                                                                                   | 66  | 660 | 4.77 |

 **LT585** MT/T98 | MSHA

## MT98 矿用钢丝缠绕液压软管

### WIRE SPIRAL HYDRAULIC HOSE FOR MINING

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**四层或六层缠绕的高强度钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于煤矿液压支架、综合采煤机组等煤矿机械输送矿物油、水基液压油或水等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**four or six plies of spiraled high tensile steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying medium like mineral oil, water-based hydraulic oil, or water in coal mining machinery such as coal mining hydraulic support and coal shearer.

| 规格      |  | 软管内径<br>I.D |           |  | 增强层外径<br>W.D |           |  | 软管外径<br>O.D |           |  | 最大<br>工作压力 |  | 试验压力 |  | 最小爆<br>破压力 |  | 最小弯<br>曲半径 |  | 参考重量 |
|---------|-------------------------------------------------------------------------------------|-------------|-----------|-------------------------------------------------------------------------------------|--------------|-----------|-------------------------------------------------------------------------------------|-------------|-----------|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|------|
| SIZE    | 最小<br>Min                                                                           | 最大<br>Max   | 最小<br>Min | 最大<br>Max                                                                           | 最小<br>Min    | 最大<br>Max | 最小<br>Min                                                                           | 最大<br>Max   | 最小<br>Min | 最大<br>Max                                                                           | Max.W.P    | P.P                                                                                  | P.P  | Min.B.P                                                                               | Min.B.P    | Min.B.R                                                                               | Min.B.R    | W.T                                                                                   | W.T  |
| IN      | mm                                                                                  | mm          | mm        | mm                                                                                  | mm           | mm        | mm                                                                                  | mm          | MPa       | MPa                                                                                 | MPa        | MPa                                                                                  | MPa  | MPa                                                                                   | mm         | mm                                                                                    | kg/m       | kg/m                                                                                  | kg/m |
| 3/8-4   | 9.5                                                                                 | 10.5        | 18.2      | 19.8                                                                                | 22.4         | 24.4      | 70                                                                                  | 105         | 210       | 180                                                                                 | 0.90       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1/2-4   | 12.5                                                                                | 13.5        | 21.4      | 23.0                                                                                | 25.2         | 27.2      | 57                                                                                  | 86          | 172       | 210                                                                                 | 1.05       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 5/8-4   | 15.7                                                                                | 16.6        | 25.2      | 26.8                                                                                | 29.0         | 31.0      | 53                                                                                  | 80          | 160       | 260                                                                                 | 1.40       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 3/4-4   | 18.7                                                                                | 19.8        | 29.2      | 30.4                                                                                | 33.0         | 35.0      | 46                                                                                  | 69          | 140       | 280                                                                                 | 1.75       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 7/8-4   | 21.7                                                                                | 22.8        | 31.7      | 32.9                                                                                | 36.0         | 38.0      | 41                                                                                  | 62          | 124       | 320                                                                                 | 1.93       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1-4     | 24.7                                                                                | 25.8        | 35.2      | 36.4                                                                                | 38.8         | 41.2      | 35                                                                                  | 53          | 112       | 360                                                                                 | 2.14       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1 1/4-4 | 31.6                                                                                | 32.6        | 43.2      | 44.6                                                                                | 46.8         | 49.2      | 32                                                                                  | 48          | 84        | 460                                                                                 | 2.82       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1 1/2-4 | 37.7                                                                                | 38.8        | 49.8      | 51.8                                                                                | 54.3         | 56.7      | 25                                                                                  | 38          | 75        | 560                                                                                 | 3.41       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1 3/4-4 | 44.7                                                                                | 45.8        | 56.8      | 58.8                                                                                | 61.5         | 64.5      | 21                                                                                  | 32          | 64        | 640                                                                                 | 4.03       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 2-4     | 50.5                                                                                | 52.0        | 62.8      | 64.8                                                                                | 65.0         | 67.4      | 21                                                                                  | 32          | 64        | 720                                                                                 | 4.43       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 3/8-6   | 9.5                                                                                 | 10.5        | 20.0      | 22.0                                                                                | 24.0         | 26.0      | 80                                                                                  | 120         | 240       | 180                                                                                 | 1.20       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1/2-6   | 12.5                                                                                | 13.5        | 23.4      | 24.6                                                                                | 26.5         | 28.5      | 72                                                                                  | 108         | 216       | 210                                                                                 | 1.40       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 5/8-6   | 15.7                                                                                | 16.6        | 28.0      | 30.0                                                                                | 31.5         | 34.5      | 70                                                                                  | 105         | 204       | 260                                                                                 | 2.10       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 3/4-6   | 18.7                                                                                | 19.8        | 32.0      | 34.0                                                                                | 35.5         | 37.5      | 60                                                                                  | 90          | 180       | 280                                                                                 | 2.47       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 7/8-6   | 21.7                                                                                | 22.8        | 35.0      | 37.0                                                                                | 39.5         | 42.5      | 53                                                                                  | 80          | 160       | 320                                                                                 | 2.80       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1-6     | 24.7                                                                                | 25.8        | 38.0      | 39.6                                                                                | 41.8         | 44.2      | 50                                                                                  | 75          | 152       | 360                                                                                 | 3.05       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1 1/4-6 | 31.6                                                                                | 32.6        | 46.0      | 48.0                                                                                | 49.5         | 52.5      | 41                                                                                  | 62          | 124       | 460                                                                                 | 3.95       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1 1/2-6 | 37.7                                                                                | 38.8        | 53.0      | 55.0                                                                                | 56.5         | 59.5      | 36                                                                                  | 54          | 108       | 560                                                                                 | 4.93       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 1 3/4-6 | 44.7                                                                                | 45.8        | 59.8      | 61.8                                                                                | 64.5         | 67.5      | 32                                                                                  | 48          | 96        | 640                                                                                 | 5.02       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |
| 2-6     | 50.5                                                                                | 52.0        | 66.2      | 68.2                                                                                | 70.5         | 73.5      | 32                                                                                  | 48          | 96        | 720                                                                                 | 6.73       |                                                                                      |      |                                                                                       |            |                                                                                       |            |                                                                                       |      |


**LT588** EN 856-4SH | MSHA | MA

## 钢丝缠绕液压软管

### WIRE SPIRAL HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**四层缠绕的高强度钢丝

**外胶层:**黑色耐油、耐天候合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**four plies of spiraled high tensile steel wire

**Outer Layer:**black oil and weather resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格   | 规格    | <br>软管内径<br>I.D |           | <br>增强层外径<br>W.D |           | <br>软管外径<br>O.D |           | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE  | 最小<br>Min                                                                                          | 最大<br>Max | 最小<br>Min                                                                                           | 最大<br>Max | 最小<br>Min                                                                                          | 最大<br>Max |                                                                                                              |                                                                                                      |                                                                                                                |                                                                                                                |                                                                                                      |
| DASH | IN    | mm                                                                                                 | mm        | mm                                                                                                  | mm        | mm                                                                                                 | mm        | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| -10  | 5/8   | 15.5                                                                                               | 16.7      | 23.9                                                                                                | 25.1      | 26.0                                                                                               | 28.0      | 45                                                                                                           | 90                                                                                                   | 180                                                                                                            | 250                                                                                                            | 1.15                                                                                                 |
| -12  | 3/4   | 18.6                                                                                               | 19.8      | 27.6                                                                                                | 29.2      | 30.0                                                                                               | 32.0      | 42                                                                                                           | 84                                                                                                   | 168                                                                                                            | 280                                                                                                            | 1.54                                                                                                 |
| -16  | 1     | 25.0                                                                                               | 26.4      | 34.4                                                                                                | 36.0      | 37.0                                                                                               | 39.0      | 38                                                                                                           | 76                                                                                                   | 152                                                                                                            | 340                                                                                                            | 2.02                                                                                                 |
| -20  | 1 1/4 | 31.4                                                                                               | 33.0      | 40.9                                                                                                | 42.9      | 43.8                                                                                               | 46.2      | 32.5                                                                                                         | 65                                                                                                   | 130                                                                                                            | 460                                                                                                            | 2.48                                                                                                 |
| -24  | 1 1/2 | 37.7                                                                                               | 39.3      | 48.1                                                                                                | 50.1      | 51.3                                                                                               | 53.7      | 29                                                                                                           | 58                                                                                                   | 116                                                                                                            | 560                                                                                                            | 3.18                                                                                                 |
| -32  | 2     | 50.4                                                                                               | 52.0      | 62.2                                                                                                | 64.2      | 65.3                                                                                               | 67.7      | 25                                                                                                           | 50                                                                                                   | 100                                                                                                            | 700                                                                                                            | 4.46                                                                                                 |

 **LT589** SAE R15

## 钢丝缠绕液压软管

### WIRE SPIRAL HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐热油合成橡胶

**增强层:**四层或六层缠绕的高强度钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃至+121℃ (-40°F至+250°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油, 具有良好的耐高压、耐脉冲及低弯曲性能。



#### Hose Construction

**Inner Tube:**black hot oil resistant synthetic rubber

**Reinforcement:**four or six plies of spiraled high tensile steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+121℃ (-40°F~+250°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil. Remarkable performance on high pressure, high impulse, and low bend applications.

| 规格   | 规格    | <br>软管内径<br>I.D |           | <br>增强层外径<br>W.D |           | <br>软管外径<br>O.D |           | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE  | 最小<br>Min                                                                                          | 最大<br>Max | 最小<br>Min                                                                                           | 最大<br>Max | 最小<br>Min                                                                                          | 最大<br>Max |                                                                                                              |                                                                                                     |                                                                                                                |                                                                                                            |                                                                                                      |
| DASH | IN    | mm                                                                                                 | mm        | mm                                                                                                  | mm        | mm                                                                                                 | mm        | MPa                                                                                                          | MPa                                                                                                 | MPa                                                                                                            | mm                                                                                                         | kg/m                                                                                                 |
| -6   | 3/8   | 9.5                                                                                                | 10.5      | 18.6                                                                                                | 19.8      | 21.0                                                                                               | 23.0      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 150                                                                                                        | 0.93                                                                                                 |
| -8   | 1/2   | 12.5                                                                                               | 13.5      | 21.6                                                                                                | 22.8      | 24.2                                                                                               | 26.2      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 200                                                                                                        | 1.10                                                                                                 |
| -12  | 3/4   | 18.6                                                                                               | 19.8      | 27.8                                                                                                | 29.0      | 30.0                                                                                               | 32.0      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 265                                                                                                        | 1.54                                                                                                 |
| -16  | 1     | 25.0                                                                                               | 26.4      | 34.6                                                                                                | 36.6      | 37.2                                                                                               | 39.6      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 330                                                                                                        | 2.17                                                                                                 |
| -20  | 1 1/4 | 31.4                                                                                               | 33.0      | 46.4                                                                                                | 48.4      | 48.7                                                                                               | 51.7      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 445                                                                                                        | 4.08                                                                                                 |
| -24  | 1 1/2 | 37.7                                                                                               | 39.3      | 52.0                                                                                                | 54.0      | 54.5                                                                                               | 57.5      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 530                                                                                                        | 4.67                                                                                                 |
| -32  | 2     | 50.4                                                                                               | 52.0      | 66.0                                                                                                | 68.0      | 68.5                                                                                               | 71.5      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 680                                                                                                        | 6.71                                                                                                 |


**LT599** ISO18752-CC

## 大力神钢丝缠绕液压软管

ARTERY® WIRE SPIRAL HYDRAULIC HOSE

### 软管结构

**内胶层:**丁腈合成橡胶

**增强层:**四层或六层缠绕的高强度钢丝,80万次脉冲循环条件下测试无泄漏。

**外胶层:**免剥耐磨、耐天候合成橡胶

**温度范围:**-40℃至+121℃(-40°F至+250°F);-55℃至+100℃(-67°F至+212°F)

**应用:**具有高压、耐脉冲等特点,适用于挖掘机等大型工程机械。



### Hose Construction

**Inner Tube:**NBR synthetic rubber

**Reinforcement:**four or six plies of spiraled high tensile steel wire,  
tested with 800,000 impulse cycles without leakage

**Outer Layer:**skiving-free, abrasion and weather resistant synthetic rubber

**Temperature Range:**-40℃~+121℃(-40°F~+250°F);-55℃~+100℃(-67°F~+212°F)

**Application:** Remarkable performance on high pressure and high impulse.  
Widely apply to excavator and other heavy duty construction machinery.

| 产品<br>型号<br>SIZE | 规格       | 规格   | <br>软管内径<br>I.D |           | <br>增强层外径<br>W.D |           | <br>软管外径<br>O.D |           | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | 最小脉冲<br>次数<br>Min.Impulse | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------------------|----------|------|----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                  | SIZE     | SIZE | 最小<br>Min                                                                                          | 最大<br>Max | 最小<br>Min                                                                                           | 最大<br>Max | 最小<br>Min                                                                                          | 最大<br>Max | MPa                                                                                                          | MPa                                                                                                 | MPa                                                                                                            | 万次 10K                    | mm                                                                                                             | kg/m                                                                                                 |
|                  | DASH     | IN   | mm                                                                                                 | mm        | mm                                                                                                  | mm        | mm                                                                                                 | mm        | MPa                                                                                                          | MPa                                                                                                 | MPa                                                                                                            | CYCLES                    | mm                                                                                                             | kg/m                                                                                                 |
| -4               | 1/4-4S   | 6.2  | 6.0                                                                                                | 6.8       | 15.0                                                                                                | 16.2      | 18.0                                                                                               | 20.0      | 69                                                                                                           | 138                                                                                                 | 276                                                                                                            | 50                        | 120                                                                                                            | 0.60                                                                                                 |
| -6               | 3/8-4S   | 10   | 9.5                                                                                                | 10.5      | 17.8                                                                                                | 19.0      | 20.5                                                                                               | 22.5      | 56                                                                                                           | 112                                                                                                 | 224                                                                                                            | 50                        | 150                                                                                                            | 0.71                                                                                                 |
| -8               | 1/2-4S   | 12.5 | 12.5                                                                                               | 13.5      | 19.8                                                                                                | 21.0      | 21.8                                                                                               | 23.8      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 190                                                                                                            | 0.82                                                                                                 |
| -10              | 5/8-4S   | 16   | 15.9                                                                                               | 16.6      | 23.9                                                                                                | 25.1      | 26.0                                                                                               | 28.0      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 200                                                                                                            | 1.15                                                                                                 |
| -12              | 3/4-4S   | 19   | 18.8                                                                                               | 19.6      | 27.9                                                                                                | 29.1      | 30.0                                                                                               | 32.0      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 224                                                                                                            | 1.56                                                                                                 |
| -16              | 1-4S     | 25   | 25.0                                                                                               | 25.8      | 34.4                                                                                                | 36.4      | 36.8                                                                                               | 39.2      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 272                                                                                                            | 2.13                                                                                                 |
| -20              | 1 1/4-4S | 31.5 | 31.6                                                                                               | 32.6      | 40.9                                                                                                | 42.9      | 43.3                                                                                               | 45.7      | 35                                                                                                           | 70                                                                                                  | 140                                                                                                            | 80                        | 370                                                                                                            | 2.56                                                                                                 |
| -24              | 1 1/2-4S | 38   | 37.8                                                                                               | 38.8      | 48.1                                                                                                | 50.1      | 51.3                                                                                               | 53.7      | 32                                                                                                           | 64                                                                                                  | 128                                                                                                            | 80                        | 540                                                                                                            | 3.18                                                                                                 |
| -32              | 2-4S     | 51   | 50.7                                                                                               | 52        | 62.6                                                                                                | 63.8      | 65.6                                                                                               | 67.4      | 25                                                                                                           | 50                                                                                                  | 100                                                                                                            | 80                        | 660                                                                                                            | 4.46                                                                                                 |
| -20              | 1 1/4-6S | 31.5 | 31.6                                                                                               | 32.6      | 46.0                                                                                                | 48.0      | 48.8                                                                                               | 51.2      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 420                                                                                                            | 4.07                                                                                                 |
| -24              | 1 1/2-6S | 38   | 37.7                                                                                               | 38.8      | 52.0                                                                                                | 54.0      | 54.8                                                                                               | 57.2      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 500                                                                                                            | 4.63                                                                                                 |
| -32              | 2-6S     | 51.5 | 51.6                                                                                               | 51.8      | 66.4                                                                                                | 67.6      | 69.1                                                                                               | 70.9      | 42                                                                                                           | 84                                                                                                  | 168                                                                                                            | 80                        | 650                                                                                                            | 6.32                                                                                                 |

 **LTSA599** ISO18752-DC

## 超级大力神钢丝缠绕软管

SUPER ARTERY® WIRE SPIRAL HYDRAULIC HOSE

### 软管结构

**内胶层:**氯丁/丁腈合成橡胶

**增强层:**多层缠绕的高强超柔钢丝, 四层缠绕脉冲 $\geq 100$ 万次

**外胶层:**免剥耐磨、耐天候合成橡胶

**温度范围:**-40°C 至 +121°C (-40°F 至 +250°F); -55°C 至 +100°C (-67°F 至 +212°F)

**应用:**具有低弯曲、高压、长寿命、高脉冲等特点, 配套使用利通科技专供一体式软管接头及HNBR密封件, 耐天候五年以上, 质保两年, 适用于挖掘机等大型工程机械或苛刻工况环境。

### Hose Construction

**Inner Tube:**CR/NBR synthetic rubber

**Reinforcement:**multi-spiraled high tensile super flexible steel wire,  
four plies  $\geq 1$ million impulse cycles

**Outer Layer:**skiving-free, abrasion and weather resistant synthetic rubber

**Temperature Range:**-40°C ~ +121°C (-40°F ~ +250°F); -55°C ~ +100°C (-67°F ~ +212°F)

**Application:** Remarkable performance on tight bend radius, high pressure, long service life, and high impulse, weather resistant for more than five years and warrantied for two years with Letone hose fittings and HNBR seals. Widely apply to excavator and other heavy duty construction machinery or harsh working environment.



| 产品类型<br>TYPE | 产品规格<br>SIZE(inch) | <br>软管内径<br>I.D.(mm) | <br>工作压力<br>W.P.(MPa) | <br>爆破压力<br>B.P.(MPa) | <br>最小弯曲半径<br>MIN.B.R.(mm) |
|--------------|--------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| SA599-4DC    | 3/8"               | 10.0                                                                                                    | 56                                                                                                       | 224                                                                                                        | 100                                                                                                             |
| SA599-4DC    | 1/2"               | 13.0                                                                                                    | 42                                                                                                       | 168                                                                                                        | 140                                                                                                             |
| SA599-4DC    | 5/8"               | 16.0                                                                                                    | 42                                                                                                       | 168                                                                                                        | 180                                                                                                             |
| SA599-4DC    | 3/4"               | 19.0                                                                                                    | 42                                                                                                       | 168                                                                                                        | 200                                                                                                             |
| SA599-4DC    | 1"                 | 25.4                                                                                                    | 42                                                                                                       | 168                                                                                                        | 250                                                                                                             |
| SA599-4DC    | 1 1/4"             | 32.0                                                                                                    | 35                                                                                                       | 140                                                                                                        | 400                                                                                                             |
| SA599-4DC    | 1 1/2"             | 38.0                                                                                                    | 32                                                                                                       | 128                                                                                                        | 480                                                                                                             |
| SA599-4DC    | 2"                 | 51.0                                                                                                    | 25                                                                                                       | 100                                                                                                        | 650                                                                                                             |
| SA599-6DC    | 1 1/4"             | 32.0                                                                                                    | 42                                                                                                       | 168                                                                                                        | 400                                                                                                             |
| SA599-6DC    | 1 1/2"             | 38.0                                                                                                    | 42                                                                                                       | 168                                                                                                        | 480                                                                                                             |
| SA599-6DC    | 2"                 | 51.0                                                                                                    | 42                                                                                                       | 168                                                                                                        | 630                                                                                                             |

## 钢丝编织液压软管

### WIRE BRAID HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃至+100℃ (-40°F至+212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+100℃ (-40°F~+212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格<br>SIZE | <br>软管内径<br>I.D |           | <br>增强层外径<br>W.D |           | <br>软管外径<br>O.D |           | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------------|----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|            | 最小<br>Min                                                                                          | 最大<br>Max | 最小<br>Min                                                                                           | 最大<br>Max | 最小<br>Min                                                                                          | 最大<br>Max | MPa                                                                                                          | MPa                                                                                                 | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| 3/16-1     | 4.6                                                                                                | 5.4       | 9.0                                                                                                 | 10.0      | 11.0                                                                                               | 12.2      | 25.0                                                                                                         | 50.0                                                                                                | 100.0                                                                                                          | 90                                                                                                             | 0.17                                                                                                 |
| 1/4-1      | 6.2                                                                                                | 7.0       | 10.6                                                                                                | 11.6      | 12.8                                                                                               | 14.0      | 22.5                                                                                                         | 45.0                                                                                                | 90.0                                                                                                           | 100                                                                                                            | 0.22                                                                                                 |
| 5/16-1     | 7.7                                                                                                | 8.5       | 12.5                                                                                                | 13.5      | 14.6                                                                                               | 15.8      | 21.5                                                                                                         | 43.0                                                                                                | 85.0                                                                                                           | 115                                                                                                            | 0.28                                                                                                 |
| 3/8-1      | 9.3                                                                                                | 10.3      | 14.5                                                                                                | 15.7      | 16.8                                                                                               | 18.0      | 18.0                                                                                                         | 36.0                                                                                                | 72.0                                                                                                           | 130                                                                                                            | 0.34                                                                                                 |
| 1/2-1      | 12.3                                                                                               | 13.5      | 17.5                                                                                                | 19.0      | 20.1                                                                                               | 21.3      | 16.0                                                                                                         | 32.0                                                                                                | 64.0                                                                                                           | 180                                                                                                            | 0.42                                                                                                 |
| 5/8-1      | 15.5                                                                                               | 16.7      | 20.6                                                                                                | 22.2      | 23.2                                                                                               | 24.8      | 13.0                                                                                                         | 26.0                                                                                                | 52.0                                                                                                           | 200                                                                                                            | 0.51                                                                                                 |
| 3/4-1      | 18.6                                                                                               | 19.8      | 24.3                                                                                                | 25.5      | 27.0                                                                                               | 29.0      | 10.5                                                                                                         | 21.0                                                                                                | 42.0                                                                                                           | 240                                                                                                            | 0.68                                                                                                 |
| 1-1        | 25.0                                                                                               | 26.4      | 31.9                                                                                                | 33.1      | 35.2                                                                                               | 36.8      | 8.8                                                                                                          | 17.5                                                                                                | 35.0                                                                                                           | 300                                                                                                            | 0.96                                                                                                 |
| 1 1/4-1    | 31.4                                                                                               | 33.0      | 39.2                                                                                                | 40.8      | 42.3                                                                                               | 44.7      | 6.3                                                                                                          | 13.0                                                                                                | 25.0                                                                                                           | 420                                                                                                            | 1.19                                                                                                 |
| 1 1/2-1    | 37.7                                                                                               | 39.3      | 44.9                                                                                                | 46.5      | 48.0                                                                                               | 50.4      | 5.0                                                                                                          | 10.0                                                                                                | 20.0                                                                                                           | 500                                                                                                            | 1.34                                                                                                 |
| 2-1        | 50.4                                                                                               | 52.0      | 58.7                                                                                                | 60.3      | 61.8                                                                                               | 64.2      | 4.0                                                                                                          | 8.0                                                                                                 | 16.0                                                                                                           | 630                                                                                                            | 1.89                                                                                                 |
| 3/16-2     | 4.6                                                                                                | 5.4       | 10.6                                                                                                | 11.6      | 12.7                                                                                               | 13.9      | 41.5                                                                                                         | 83.0                                                                                                | 166.0                                                                                                          | 90                                                                                                             | 0.27                                                                                                 |
| 1/4-2      | 6.1                                                                                                | 7.0       | 12.6                                                                                                | 13.6      | 14.4                                                                                               | 15.6      | 40.0                                                                                                         | 80.0                                                                                                | 160.0                                                                                                          | 100                                                                                                            | 0.35                                                                                                 |
| 5/16-2     | 7.7                                                                                                | 8.5       | 14.1                                                                                                | 15.1      | 15.7                                                                                               | 16.9      | 35.0                                                                                                         | 70.0                                                                                                | 140.0                                                                                                          | 115                                                                                                            | 0.40                                                                                                 |
| 3/8-2      | 9.3                                                                                                | 10.3      | 16.3                                                                                                | 17.5      | 18.1                                                                                               | 19.3      | 33.0                                                                                                         | 66.0                                                                                                | 132.0                                                                                                          | 130                                                                                                            | 0.51                                                                                                 |
| 1/2-2      | 12.3                                                                                               | 13.5      | 19.4                                                                                                | 20.6      | 21.6                                                                                               | 22.8      | 27.5                                                                                                         | 55.0                                                                                                | 110.0                                                                                                          | 180                                                                                                            | 0.63                                                                                                 |
| 5/8-2      | 15.5                                                                                               | 16.7      | 22.2                                                                                                | 23.8      | 24.6                                                                                               | 26.2      | 25.0                                                                                                         | 50.0                                                                                                | 100.0                                                                                                          | 200                                                                                                            | 0.74                                                                                                 |
| 3/4-2      | 18.6                                                                                               | 19.8      | 26.2                                                                                                | 27.8      | 28.8                                                                                               | 30.4      | 21.5                                                                                                         | 43.0                                                                                                | 86.0                                                                                                           | 240                                                                                                            | 0.92                                                                                                 |
| 1-2        | 25.0                                                                                               | 26.4      | 33.6                                                                                                | 34.8      | 36.3                                                                                               | 37.9      | 16.5                                                                                                         | 32.5                                                                                                | 66.0                                                                                                           | 300                                                                                                            | 1.33                                                                                                 |
| 1 1/4-2    | 31.4                                                                                               | 33.0      | 43.6                                                                                                | 45.0      | 46.3                                                                                               | 48.7      | 12.5                                                                                                         | 25.0                                                                                                | 50.0                                                                                                           | 420                                                                                                            | 1.97                                                                                                 |
| 1 1/2-2    | 37.7                                                                                               | 39.3      | 49.6                                                                                                | 51.4      | 52.8                                                                                               | 55.2      | 9.0                                                                                                          | 18.0                                                                                                | 36.0                                                                                                           | 500                                                                                                            | 2.33                                                                                                 |
| 2-2        | 50.4                                                                                               | 52.0      | 62.3                                                                                                | 64.7      | 65.6                                                                                               | 68.0      | 8.0                                                                                                          | 16.0                                                                                                | 32.0                                                                                                           | 630                                                                                                            | 2.88                                                                                                 |

 **LT682** SAE 100RAT | EN853 ST

## 钢丝编织液压软管

### WIRE BRAID HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40°C ~ +100°C (-40°F ~ +212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格      |  软管内径<br>I.D |           |  增强层外径<br>W.D |           |  软管外径<br>O.D |           |  最大<br>工作压力 |  试验压力 |  最小爆<br>破压力 |  最小弯<br>曲半径 |  参考重量 |
|---------|-------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|         | 最小<br>Min                                                                                       | 最大<br>Max | 最小<br>Min                                                                                        | 最大<br>Max | 最小<br>Min                                                                                       | 最大<br>Max | Max.W.P                                                                                        | P.P                                                                                        | Min.B.P                                                                                          | Min.B.R                                                                                          | W.T                                                                                        |
| SIZE    | mm                                                                                              | mm        | mm                                                                                               | mm        | mm                                                                                              | mm        | MPa                                                                                            | MPa                                                                                        | MPa                                                                                              | mm                                                                                               | kg/m                                                                                       |
| 3/16-1  | 4.6                                                                                             | 5.4       | 9.0                                                                                              | 10.0      | 11.5                                                                                            | 12.9      | 25.0                                                                                           | 50.5                                                                                       | 100.0                                                                                            | 90                                                                                               | 0.18                                                                                       |
| 1/4-1   | 6.2                                                                                             | 7.0       | 10.6                                                                                             | 11.6      | 14.6                                                                                            | 16.0      | 22.5                                                                                           | 45.0                                                                                       | 90.0                                                                                             | 100                                                                                              | 0.27                                                                                       |
| 5/16-1  | 7.7                                                                                             | 8.5       | 12.5                                                                                             | 13.5      | 16.2                                                                                            | 17.6      | 21.5                                                                                           | 43.0                                                                                       | 85.0                                                                                             | 115                                                                                              | 0.33                                                                                       |
| 3/8-1   | 9.3                                                                                             | 10.3      | 14.5                                                                                             | 15.7      | 18.5                                                                                            | 19.9      | 18.0                                                                                           | 36.0                                                                                       | 72.0                                                                                             | 130                                                                                              | 0.40                                                                                       |
| 1/2-1   | 12.3                                                                                            | 13.5      | 17.5                                                                                             | 19.0      | 21.8                                                                                            | 23.4      | 16.0                                                                                           | 32.0                                                                                       | 64.0                                                                                             | 180                                                                                              | 0.50                                                                                       |
| 5/8-1   | 15.5                                                                                            | 16.7      | 20.6                                                                                             | 22.2      | 24.7                                                                                            | 26.3      | 13.0                                                                                           | 26.0                                                                                       | 52.0                                                                                             | 200                                                                                              | 0.58                                                                                       |
| 3/4-1   | 18.6                                                                                            | 19.8      | 24.3                                                                                             | 25.5      | 28.7                                                                                            | 30.3      | 10.5                                                                                           | 21.0                                                                                       | 42.0                                                                                             | 240                                                                                              | 0.73                                                                                       |
| 1-1     | 25.0                                                                                            | 26.4      | 31.9                                                                                             | 33.1      | 36.3                                                                                            | 37.9      | 8.8                                                                                            | 17.5                                                                                       | 35.0                                                                                             | 300                                                                                              | 1.04                                                                                       |
| 1 1/4-1 | 31.4                                                                                            | 33.0      | 39.2                                                                                             | 40.8      | 43.3                                                                                            | 45.7      | 6.3                                                                                            | 15.0                                                                                       | 25.0                                                                                             | 420                                                                                              | 1.28                                                                                       |
| 1 1/2-1 | 37.7                                                                                            | 39.3      | 44.9                                                                                             | 46.5      | 49.8                                                                                            | 52.2      | 5.0                                                                                            | 10.0                                                                                       | 20.0                                                                                             | 500                                                                                              | 1.51                                                                                       |
| 2-1     | 50.4                                                                                            | 52.0      | 58.7                                                                                             | 60.3      | 64.3                                                                                            | 66.7      | 4.0                                                                                            | 8.0                                                                                        | 16.0                                                                                             | 630                                                                                              | 2.20                                                                                       |
| 3/16-2  | 4.6                                                                                             | 5.4       | 10.6                                                                                             | 11.6      | 14.6                                                                                            | 16.0      | 41.5                                                                                           | 83.0                                                                                       | 165.0                                                                                            | 90                                                                                               | 0.33                                                                                       |
| 1/4-2   | 6.1                                                                                             | 7.0       | 12.6                                                                                             | 13.6      | 16.3                                                                                            | 17.7      | 40.0                                                                                           | 80.0                                                                                       | 160.0                                                                                            | 100                                                                                              | 0.42                                                                                       |
| 5/16-2  | 7.7                                                                                             | 8.5       | 14.1                                                                                             | 15.1      | 18                                                                                              | 19.4      | 35.0                                                                                           | 70.0                                                                                       | 140.0                                                                                            | 115                                                                                              | 0.47                                                                                       |
| 3/8-2   | 9.3                                                                                             | 10.3      | 16.3                                                                                             | 17.5      | 20.3                                                                                            | 21.7      | 33.0                                                                                           | 66.0                                                                                       | 132.0                                                                                            | 130                                                                                              | 0.60                                                                                       |
| 1/2-2   | 12.3                                                                                            | 13.5      | 19.4                                                                                             | 20.6      | 23.4                                                                                            | 25.0      | 27.5                                                                                           | 55.0                                                                                       | 110.0                                                                                            | 180                                                                                              | 0.73                                                                                       |
| 5/8-2   | 15.5                                                                                            | 16.7      | 22.2                                                                                             | 23.8      | 26.6                                                                                            | 28.2      | 25.0                                                                                           | 50.0                                                                                       | 100.0                                                                                            | 200                                                                                              | 0.85                                                                                       |
| 3/4-2   | 18.6                                                                                            | 19.8      | 26.2                                                                                             | 27.8      | 30.6                                                                                            | 32.2      | 21.5                                                                                           | 43.0                                                                                       | 85.0                                                                                             | 240                                                                                              | 1.03                                                                                       |
| 1-2     | 25.0                                                                                            | 26.4      | 33.6                                                                                             | 34.8      | 37.7                                                                                            | 39.3      | 16.5                                                                                           | 32.5                                                                                       | 65.0                                                                                             | 300                                                                                              | 1.44                                                                                       |
| 1 1/4-2 | 31.4                                                                                            | 33.0      | 43.6                                                                                             | 45.0      | 48.0                                                                                            | 50.4      | 12.5                                                                                           | 25.0                                                                                       | 50.0                                                                                             | 420                                                                                              | 2.14                                                                                       |
| 1 1/2-2 | 37.7                                                                                            | 39.3      | 49.6                                                                                             | 51.4      | 54.4                                                                                            | 56.8      | 9.0                                                                                            | 18.0                                                                                       | 36.0                                                                                             | 500                                                                                              | 2.50                                                                                       |
| 2-2     | 50.4                                                                                            | 52.0      | 62.3                                                                                             | 64.7      | 67.0                                                                                            | 69.4      | 8.0                                                                                            | 16.0                                                                                       | 32.0                                                                                             | 630                                                                                              | 3.07                                                                                       |


**LT683** EN857 SC

## 钢丝编织液压软管

### WIRE BRAID HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃至+100℃ (-40°F至+212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+100℃ (-40°F~+212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格     | <br>软管内径<br>I.D |      | <br>增强层外径<br>W.D |      | <br>软管外径<br>O.D |      | <br>最大<br>工作压力<br>Max.W.P |      | <br>试验压力<br>P.P |       | <br>最小爆<br>破压力<br>Min.B.P |       | <br>最小弯<br>曲半径<br>Min.B.R |     | <br>参考重量<br>W.T |
|--------|----------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------|
|        | SIZE                                                                                               | 最小   | 最大                                                                                                  | 最小   | 最大                                                                                                 | 最小   | 最大                                                                                                           | MPa  | psi                                                                                                 | MPa   | psi                                                                                                            | MPa   | psi                                                                                                            | MPa |                                                                                                      |
| inch   | Min                                                                                                | Max  | Min                                                                                                 | Max  | Min                                                                                                | Max  | MPa                                                                                                          | psi  | MPa                                                                                                 | psi   | MPa                                                                                                            | psi   | MPa                                                                                                            | mm  | kg/m                                                                                                 |
| 1/4-1  | 6.1                                                                                                | 6.9  | 9.9                                                                                                 | 10.9 | 11.8                                                                                               | 13.2 | 22.5                                                                                                         | 3260 | 45                                                                                                  | 6265  | 90                                                                                                             | 13050 | 2.95                                                                                                           | 75  | 0.18                                                                                                 |
| 5/16-1 | 7.7                                                                                                | 8.5  | 11.2                                                                                                | 12.2 | 13.1                                                                                               | 14.5 | 21.5                                                                                                         | 3120 | 43                                                                                                  | 6235  | 86                                                                                                             | 12470 | 3.35                                                                                                           | 85  | 0.20                                                                                                 |
| 3/8-1  | 9.3                                                                                                | 10.1 | 13.3                                                                                                | 14.3 | 15.1                                                                                               | 16.5 | 18                                                                                                           | 2610 | 36                                                                                                  | 5220  | 72                                                                                                             | 10440 | 3.54                                                                                                           | 90  | 0.27                                                                                                 |
| 1/2-1  | 12.3                                                                                               | 13.5 | 16.4                                                                                                | 17.6 | 18.9                                                                                               | 20.3 | 16                                                                                                           | 2320 | 32                                                                                                  | 4640  | 64                                                                                                             | 9280  | 5.12                                                                                                           | 130 | 0.35                                                                                                 |
| 5/8-1  | 15.5                                                                                               | 16.7 | 19.8                                                                                                | 21.0 | 21.9                                                                                               | 23.3 | 13                                                                                                           | 1885 | 26                                                                                                  | 3770  | 52                                                                                                             | 7540  | 5.91                                                                                                           | 150 | 0.42                                                                                                 |
| 3/4-1  | 18.6                                                                                               | 19.8 | 23.1                                                                                                | 24.5 | 25.6                                                                                               | 27.2 | 10.5                                                                                                         | 1520 | 21                                                                                                  | 3045  | 42                                                                                                             | 6090  | 7.09                                                                                                           | 180 | 0.54                                                                                                 |
| 1-1    | 25.0                                                                                               | 26.4 | 30.5                                                                                                | 31.9 | 33.2                                                                                               | 34.8 | 8.8                                                                                                          | 1280 | 17.6                                                                                                | 2550  | 35.5                                                                                                           | 5100  | 9.06                                                                                                           | 230 | 0.78                                                                                                 |
| 1/4-2  | 6.1                                                                                                | 6.9  | 11.2                                                                                                | 12.2 | 12.9                                                                                               | 14.3 | 40                                                                                                           | 5800 | 80                                                                                                  | 11600 | 160                                                                                                            | 23200 | 2.96                                                                                                           | 75  | 0.28                                                                                                 |
| 5/16-2 | 7.7                                                                                                | 8.5  | 12.8                                                                                                | 13.8 | 14.5                                                                                               | 15.9 | 35                                                                                                           | 5075 | 70                                                                                                  | 10150 | 140                                                                                                            | 20300 | 3.35                                                                                                           | 85  | 0.32                                                                                                 |
| 3/8-2  | 9.3                                                                                                | 10.1 | 14.9                                                                                                | 15.9 | 16.8                                                                                               | 18.2 | 33                                                                                                           | 4785 | 66                                                                                                  | 9570  | 132                                                                                                            | 19140 | 3.54                                                                                                           | 90  | 0.43                                                                                                 |
| 1/2-2  | 12.3                                                                                               | 13.5 | 18.0                                                                                                | 19.2 | 20.0                                                                                               | 21.6 | 27.5                                                                                                         | 3990 | 55                                                                                                  | 7975  | 110                                                                                                            | 15950 | 5.12                                                                                                           | 130 | 0.52                                                                                                 |
| 5/8-2  | 15.5                                                                                               | 16.7 | 21.4                                                                                                | 22.6 | 23.2                                                                                               | 24.8 | 25                                                                                                           | 3625 | 50                                                                                                  | 7150  | 100                                                                                                            | 14500 | 6.69                                                                                                           | 170 | 0.66                                                                                                 |
| 3/4-2  | 18.6                                                                                               | 19.8 | 25.0                                                                                                | 26.4 | 27.4                                                                                               | 29.0 | 21.5                                                                                                         | 3120 | 43                                                                                                  | 6235  | 86                                                                                                             | 12470 | 7.87                                                                                                           | 200 | 0.83                                                                                                 |
| 1-2    | 25.0                                                                                               | 26.4 | 32.4                                                                                                | 33.8 | 34.5                                                                                               | 36.1 | 16.5                                                                                                         | 2390 | 33                                                                                                  | 4785  | 66                                                                                                             | 9570  | 9.84                                                                                                           | 250 | 1.17                                                                                                 |


**LT685 MT/T98**
**MT98 矿用钢丝编织液压软管**
**WIRE BRAID HYDRAULIC HOSE FOR MINING**
**软管结构**

**内胶层:**黑色耐油合成橡胶

**增强层:**一层、两层或三层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐候、耐磨合成橡胶

**温度范围:**-40℃至+100℃ (-40°F至+212°F)

**Hose Construction**

**Inner Layer:**black oil resistant synthetic rubber

**Reinforcement:**one, two, or three braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+100℃ (-40°F~+212°F)

**应用:**适用于煤矿液压支架、综合采煤机组等煤矿机械输送矿物油、水基液压油或水等介质。

**Application:** Suitable for conveying medium like mineral oil, water-based hydraulic oil, or water in coal mining machinery such as coal mining hydraulic support and coal shearer.



| 规格         |  软管内径<br>I.D |           |  增强层外径<br>W.D |           |  软管外径<br>O.D |           |  最大<br>工作压力<br>Max.W.P |  试验压力<br>P.P |  最小爆<br>破压力<br>Min.B.P |  最小弯<br>曲半径<br>Min.B.R |  参考重量<br>W.T |
|------------|-------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| SIZE<br>IN | 最小<br>Min                                                                                       | 最大<br>Max | 最小<br>Min                                                                                        | 最大<br>Max | 最小<br>Min                                                                                       | 最大<br>Max | MPa                                                                                                       | MPa                                                                                               | MPa                                                                                                         | mm                                                                                                          | kg/m                                                                                              |
| 1/4-1      | 6.1                                                                                             | 6.9       | 11.1                                                                                             | 12.1      | 14.2                                                                                            | 15.4      | 32                                                                                                        | 40                                                                                                | 80                                                                                                          | 100                                                                                                         | 0.26                                                                                              |
| 5/16-1     | 7.8                                                                                             | 8.5       | 13.0                                                                                             | 14.0      | 16.2                                                                                            | 17.4      | 28                                                                                                        | 35                                                                                                | 70                                                                                                          | 115                                                                                                         | 0.31                                                                                              |
| 3/8-1      | 9.8                                                                                             | 10.5      | 15.1                                                                                             | 16.1      | 18.1                                                                                            | 19.3      | 25.6                                                                                                      | 32                                                                                                | 64                                                                                                          | 130                                                                                                         | 0.37                                                                                              |
| 1/2-1      | 12.8                                                                                            | 13.5      | 18.9                                                                                             | 19.9      | 21.9                                                                                            | 23.1      | 22.4                                                                                                      | 33.6                                                                                              | 56                                                                                                          | 180                                                                                                         | 0.48                                                                                              |
| 5/8-1      | 15.8                                                                                            | 16.6      | 22.0                                                                                             | 23.0      | 24.7                                                                                            | 26.3      | 16.8                                                                                                      | 21                                                                                                | 42                                                                                                          | 205                                                                                                         | 0.57                                                                                              |
| 3/4-1      | 18.8                                                                                            | 19.8      | 25.0                                                                                             | 26.0      | 27.6                                                                                            | 29.2      | 14.4                                                                                                      | 18                                                                                                | 36                                                                                                          | 240                                                                                                         | 0.66                                                                                              |
| 7/8-1      | 21.8                                                                                            | 22.8      | 28.0                                                                                             | 29.0      | 30.6                                                                                            | 32.2      | 12.8                                                                                                      | 16                                                                                                | 32                                                                                                          | 280                                                                                                         | 0.73                                                                                              |
| 1-1        | 25.0                                                                                            | 26.0      | 31.3                                                                                             | 32.5      | 34.2                                                                                            | 35.8      | 11.2                                                                                                      | 14                                                                                                | 28                                                                                                          | 300                                                                                                         | 0.86                                                                                              |
| 1 1/4-1    | 31.6                                                                                            | 33.6      | 38.3                                                                                             | 39.9      | 41.8                                                                                            | 44.2      | 9.0                                                                                                       | 11.5                                                                                              | 22.5                                                                                                        | 420                                                                                                         | 1.15                                                                                              |
| 1 1/2-1    | 37.7                                                                                            | 39.8      | 44.8                                                                                             | 46.4      | 48.1                                                                                            | 50.3      | 7.0                                                                                                       | 9                                                                                                 | 17.5                                                                                                        | 500                                                                                                         | 1.29                                                                                              |
| 1 3/4-1    | 44.6                                                                                            | 45.6      | 51.8                                                                                             | 53.4      | 55.4                                                                                            | 57.6      | 5.0                                                                                                       | 8                                                                                                 | 12.5                                                                                                        | 550                                                                                                         | 1.55                                                                                              |
| 2-1        | 50.7                                                                                            | 52.0      | 57.8                                                                                             | 59.4      | 61.3                                                                                            | 63.7      | 3.0                                                                                                       | 6                                                                                                 | 7.5                                                                                                         | 630                                                                                                         | 1.77                                                                                              |
| 1/4-2      | 6.1                                                                                             | 6.9       | 12.9                                                                                             | 13.9      | 16.0                                                                                            | 17.2      | 60.0                                                                                                      | 75                                                                                                | 150                                                                                                         | 100                                                                                                         | 0.40                                                                                              |
| 5/16-2     | 7.8                                                                                             | 8.5       | 14.9                                                                                             | 15.9      | 18.0                                                                                            | 19.2      | 48.0                                                                                                      | 60                                                                                                | 120                                                                                                         | 115                                                                                                         | 0.47                                                                                              |
| 3/8-2      | 9.8                                                                                             | 10.5      | 16.6                                                                                             | 17.6      | 19.9                                                                                            | 21.1      | 40.0                                                                                                      | 50                                                                                                | 100                                                                                                         | 130                                                                                                         | 0.55                                                                                              |
| 1/2-2      | 12.8                                                                                            | 13.5      | 20.7                                                                                             | 21.7      | 23.7                                                                                            | 24.9      | 36.0                                                                                                      | 45                                                                                                | 90                                                                                                          | 180                                                                                                         | 0.71                                                                                              |
| 5/8-2      | 15.8                                                                                            | 16.6      | 23.4                                                                                             | 24.6      | 26.5                                                                                            | 28.1      | 32.0                                                                                                      | 40                                                                                                | 80                                                                                                          | 205                                                                                                         | 0.86                                                                                              |
| 3/4-2      | 18.8                                                                                            | 19.8      | 26.4                                                                                             | 27.6      | 29.4                                                                                            | 31        | 25.0                                                                                                      | 31.5                                                                                              | 62.5                                                                                                        | 240                                                                                                         | 0.95                                                                                              |
| 7/8-2      | 21.8                                                                                            | 22.8      | 29.5                                                                                             | 30.7      | 32.3                                                                                            | 34.1      | 22.0                                                                                                      | 27.5                                                                                              | 55                                                                                                          | 280                                                                                                         | 1.05                                                                                              |
| 1-2        | 25.0                                                                                            | 26.0      | 32.8                                                                                             | 34.0      | 36                                                                                              | 37.6      | 21.0                                                                                                      | 26.5                                                                                              | 52.5                                                                                                        | 300                                                                                                         | 1.25                                                                                              |
| 1 1/4-2    | 31.6                                                                                            | 33.6      | 39.8                                                                                             | 41.4      | 43.6                                                                                            | 45.8      | 17.0                                                                                                      | 21.5                                                                                              | 42.5                                                                                                        | 420                                                                                                         | 1.57                                                                                              |
| 1 1/2-2    | 37.7                                                                                            | 39.8      | 46.4                                                                                             | 48.0      | 49.8                                                                                            | 52.2      | 12.0                                                                                                      | 15                                                                                                | 30                                                                                                          | 500                                                                                                         | 1.88                                                                                              |
| 1 3/4-2    | 44.6                                                                                            | 45.6      | 53.4                                                                                             | 55.0      | 56.8                                                                                            | 59.2      | 9.0                                                                                                       | 13.5                                                                                              | 22.5                                                                                                        | 55                                                                                                          | 2.13                                                                                              |
| 2-2        | 50.7                                                                                            | 52.0      | 59.4                                                                                             | 61.0      | 62.8                                                                                            | 65.2      | 8.0                                                                                                       | 12                                                                                                | 20                                                                                                          | 630                                                                                                         | 2.45                                                                                              |
| 5/16-3     | 7.8                                                                                             | 8.5       | 16.5                                                                                             | 17.5      | 19.6                                                                                            | 20.8      | 50.0                                                                                                      | 75                                                                                                | 125                                                                                                         | 115                                                                                                         | 0.61                                                                                              |
| 3/8-3      | 9.8                                                                                             | 10.5      | 18.0                                                                                             | 19.2      | 21.5                                                                                            | 22.7      | 45.0                                                                                                      | 62.5                                                                                              | 112.5                                                                                                       | 130                                                                                                         | 0.69                                                                                              |
| 1/2-3      | 12.8                                                                                            | 13.5      | 22.1                                                                                             | 23.3      | 25.5                                                                                            | 26.7      | 40.0                                                                                                      | 56                                                                                                | 100                                                                                                         | 180                                                                                                         | 0.94                                                                                              |
| 5/8-3      | 15.8                                                                                            | 16.6      | 25.1                                                                                             | 26.3      | 28.3                                                                                            | 29.9      | 35.0                                                                                                      | 43.5                                                                                              | 87.5                                                                                                        | 205                                                                                                         | 1.16                                                                                              |
| 3/4-3      | 18.8                                                                                            | 19.8      | 28.1                                                                                             | 29.3      | 31.2                                                                                            | 32.8      | 28.0                                                                                                      | 35                                                                                                | 70.5                                                                                                        | 240                                                                                                         | 1.26                                                                                              |
| 7/8-3      | 21.8                                                                                            | 22.8      | 31.1                                                                                             | 32.3      | 34.2                                                                                            | 35.8      | 25.0                                                                                                      | 31.5                                                                                              | 62.5                                                                                                        | 280                                                                                                         | 1.43                                                                                              |
| 1-3        | 25.0                                                                                            | 26.0      | 34.6                                                                                             | 35.6      | 37.2                                                                                            | 38.8      | 24.0                                                                                                      | 30                                                                                                | 60.5                                                                                                        | 300                                                                                                         | 1.59                                                                                              |
| 1 1/4-3    | 31.6                                                                                            | 33.6      | 41.4                                                                                             | 43.0      | 45.4                                                                                            | 47.6      | 19.0                                                                                                      | 24                                                                                                | 47.5                                                                                                        | 420                                                                                                         | 2.05                                                                                              |
| 1 1/2-3    | 37.7                                                                                            | 39.8      | 48.0                                                                                             | 49        | 51.8                                                                                            | 54.2      | 15.0                                                                                                      | 19                                                                                                | 37.5                                                                                                        | 500                                                                                                         | 2.44                                                                                              |


**LT686 MT/T98**

## MT98 矿用大口径钢丝编织液压软管

### WIRE BRAID HYDRAULIC HOSE FOR MINING

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于煤矿液压支架、综合采煤机组等煤矿机械输送矿物油、水基液压油或水等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:**Suitable for conveying medium like mineral oil, water-based hydraulic oil, or water in coal mining machinery such as coal mining hydraulic support and coal shearer.

| 规格   | 规格      | <br>软管内径<br>I.D |       | <br>增强层外径<br>W.D |       | <br>软管外径<br>O.D |     | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|---------|----------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE    | 最小                                                                                                 | 最大    | 最小                                                                                                  | 最大    | 最小                                                                                                 | 最大  |                                                                                                              |                                                                                                      |                                                                                                                |                                                                                                                |                                                                                                      |
| DASH | IN      | Min                                                                                                | Max   | Min                                                                                                 | Max   | Min                                                                                                | Max | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| 64   | 2 1/2-1 | 63.5                                                                                               | 65.3  | 71                                                                                                  | 73    | 76                                                                                                 | 80  | 3.5                                                                                                          | 5.25                                                                                                 | 10.5                                                                                                           | 800                                                                                                            | 2.42                                                                                                 |
| 76   | 3-1     | 75.5                                                                                               | 77.5  | 83                                                                                                  | 85    | 88                                                                                                 | 92  | 3                                                                                                            | 4.5                                                                                                  | 9                                                                                                              | 920                                                                                                            | 2.86                                                                                                 |
| 85   | 3 3/8-1 | 84.5                                                                                               | 86.7  | 92                                                                                                  | 94    | 97                                                                                                 | 101 | 2.5                                                                                                          | 3.75                                                                                                 | 7.5                                                                                                            | 1000                                                                                                           | 3.10                                                                                                 |
| 89   | 3 1/2-1 | 88.4                                                                                               | 90    | 96.5                                                                                                | 98.5  | 102                                                                                                | 106 | 2.5                                                                                                          | 3.75                                                                                                 | 7.5                                                                                                            | 1100                                                                                                           | 3.34                                                                                                 |
| 102  | 4-1     | 101                                                                                                | 104.5 | 110                                                                                                 | 115   | 116                                                                                                | 121 | 2                                                                                                            | 3                                                                                                    | 6                                                                                                              | 1300                                                                                                           | 3.78                                                                                                 |
| 64   | 2 1/2-2 | 63.5                                                                                               | 65.3  | 73                                                                                                  | 75    | 78                                                                                                 | 80  | 7                                                                                                            | 10.5                                                                                                 | 21                                                                                                             | 800                                                                                                            | 3.30                                                                                                 |
| 76   | 3-2     | 75.5                                                                                               | 77.5  | 85                                                                                                  | 87    | 90                                                                                                 | 94  | 6                                                                                                            | 9                                                                                                    | 18                                                                                                             | 920                                                                                                            | 3.90                                                                                                 |
| 85   | 3 3/8-2 | 84.5                                                                                               | 86.7  | 94                                                                                                  | 96    | 99                                                                                                 | 103 | 5                                                                                                            | 7.5                                                                                                  | 15                                                                                                             | 1000                                                                                                           | 4.30                                                                                                 |
| 89   | 3 1/2-2 | 88.4                                                                                               | 90    | 98.5                                                                                                | 100.5 | 104                                                                                                | 108 | 5                                                                                                            | 7.5                                                                                                  | 15                                                                                                             | 1100                                                                                                           | 4.54                                                                                                 |
| 102  | 4-2     | 101                                                                                                | 104.5 | 112                                                                                                 | 116   | 118                                                                                                | 123 | 4                                                                                                            | 6                                                                                                    | 12                                                                                                             | 1300                                                                                                           | 5.50                                                                                                 |

 **LT687** SAE 100R16

## 钢丝编织液压软管

### WIRE BRAID HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐热油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃至+121℃ (-40°F至+250°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black hot oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+121℃ (-40°F~+250°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格   | 规格    | <br>软管内径<br>I.D. |      | <br>增强层外径<br>W.D. |      | <br>软管外径<br>O.D. |      | <br>最大<br>工作压力<br>Max. W.P. |      | <br>试验压力<br>P.P. |       | <br>最小爆<br>破压力<br>Min. B.P. |       | <br>参考重量<br>W.T. |
|------|-------|-----------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------|
| SIZE | SIZE  | 最小                                                                                                  | 最大   | 最小                                                                                                   | 最大   | 最小                                                                                                  | 最大   | MPa                                                                                                            | psi  | MPa                                                                                                   | psi   | MPa                                                                                                              | psi   |                                                                                                       |
| DASH | IN    | Min                                                                                                 | Max  | Min                                                                                                  | Max  | Min                                                                                                 | Max  |                                                                                                                |      |                                                                                                       |       |                                                                                                                  |       | kg/m                                                                                                  |
| -4   | 1/4   | 6.2                                                                                                 | 7.0  | 10.7                                                                                                 | 11.7 | 12.6                                                                                                | 13.8 | 35                                                                                                             | 5075 | 70                                                                                                    | 10150 | 140                                                                                                              | 20300 | 0.3                                                                                                   |
| -5   | 5/16  | 7.7                                                                                                 | 8.5  | 12.1                                                                                                 | 13.3 | 14.4                                                                                                | 15.6 | 29.7                                                                                                           | 4305 | 59.5                                                                                                  | 8625  | 119                                                                                                              | 17255 | 0.34                                                                                                  |
| -6   | 3/8   | 9.3                                                                                                 | 10.1 | 14.5                                                                                                 | 15.5 | 16.4                                                                                                | 17.6 | 28                                                                                                             | 4060 | 56                                                                                                    | 8120  | 112                                                                                                              | 16240 | 0.42                                                                                                  |
| -8   | 1/2   | 12.3                                                                                                | 13.5 | 17.9                                                                                                 | 18.9 | 19.9                                                                                                | 21.1 | 24.5                                                                                                           | 3550 | 49                                                                                                    | 7105  | 98                                                                                                               | 14210 | 0.54                                                                                                  |
| -10  | 5/8   | 15.5                                                                                                | 16.7 | 21.4                                                                                                 | 22.6 | 23.2                                                                                                | 24.8 | 21                                                                                                             | 3040 | 42                                                                                                    | 6680  | 84                                                                                                               | 12180 | 0.68                                                                                                  |
| -12  | 3/4   | 18.6                                                                                                | 19.8 | 25.1                                                                                                 | 26.3 | 27.2                                                                                                | 28.8 | 21                                                                                                             | 3040 | 42                                                                                                    | 6080  | 84                                                                                                               | 12180 | 0.80                                                                                                  |
| -16  | 1     | 25.0                                                                                                | 26.4 | 32.3                                                                                                 | 33.9 | 34.1                                                                                                | 36.5 | 14                                                                                                             | 2030 | 28                                                                                                    | 4060  | 56                                                                                                               | 8120  | 1.15                                                                                                  |
| -20  | 1 1/4 | 31.4                                                                                                | 33.0 | 40.3                                                                                                 | 41.9 | 42.8                                                                                                | 45.2 | 11.3                                                                                                           | 1635 | 22.7                                                                                                  | 3290  | 45.5                                                                                                             | 6595  | 1.83                                                                                                  |


**LT688** SAE 100R17

## 钢丝编织液压软管

### WIRE BRAID HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃至+100℃ (-40°F至+212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。

#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+100℃ (-40°F~+212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.



| 规格   | 规格   | <br>软管内径<br>I.D |      | <br>增强层外径<br>W.D |      | <br>软管外径<br>O.D |      | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|------|----------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|      |      | 最小                                                                                                 | 最大   | 最小                                                                                                  | 最大   | 最小                                                                                                 | 最大   | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| SIZE | SIZE | Min                                                                                                | Max  | Min                                                                                                 | Max  | Min                                                                                                | Max  | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| DASH | IN   | Min                                                                                                | Max  | Min                                                                                                 | Max  | Min                                                                                                | Max  | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| -4   | 1/4  | 6.2                                                                                                | 7.0  | 10.3                                                                                                | 11.3 | 12.2                                                                                               | 13.4 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 50                                                                                                             | 0.19                                                                                                 |
| -5   | 5/16 | 7.7                                                                                                | 8.5  | 11.8                                                                                                | 12.8 | 13.7                                                                                               | 14.9 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 55                                                                                                             | 0.22                                                                                                 |
| -6   | 3/8  | 9.3                                                                                                | 10.1 | 13.6                                                                                                | 14.6 | 15.5                                                                                               | 16.7 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 65                                                                                                             | 0.28                                                                                                 |
| -8   | 1/2  | 12.3                                                                                               | 13.5 | 16.8                                                                                                | 17.8 | 19.4                                                                                               | 20.6 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 90                                                                                                             | 0.38                                                                                                 |
| -10  | 5/8  | 15.5                                                                                               | 16.7 | 22.2                                                                                                | 23.2 | 23.9                                                                                               | 25.1 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 100                                                                                                            | 0.68                                                                                                 |
| -12  | 3/4  | 18.6                                                                                               | 19.8 | 25.1                                                                                                | 26.3 | 26.9                                                                                               | 28.5 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 120                                                                                                            | 0.83                                                                                                 |
| -16  | 1    | 25.5                                                                                               | 26.4 | 33.2                                                                                                | 34.4 | 35.7                                                                                               | 37.3 | 21                                                                                                           | 42                                                                                                   | 84                                                                                                             | 150                                                                                                            | 1.29                                                                                                 |

 **LT689** SAE 100R19

## 紧凑型钢丝编织液压软管

### COMPACT WIRE BRAID HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层编织的高强超柔钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送水基、石油基及可生物降解的液压油。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of high tensile super flexible steel wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying water-based, petroleum-based, and biodegradable hydraulic oil.

| 规格   | 规格   | <br>软管内径<br>I.D |      | <br>增强层外径<br>W.D |      | <br>软管外径<br>O.D | <br>外胶层厚度 |     | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆破<br>压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|------|----------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|      |      | SIZE                                                                                               | SIZE | 最小                                                                                                  | 最大   | 最小                                                                                                 | 最大                                                                                           | 最大  | 最小                                                                                                           | 最大                                                                                                   | MPa                                                                                                            | MPa                                                                                                            | MPa                                                                                                  |
| DASH | IN   | Min                                                                                                | Max  | Min                                                                                                 | Max  | Min                                                                                                | Min                                                                                          | Max | MPa                                                                                                          | MPa                                                                                                  | MPa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| -3   | 3/16 | 4.6                                                                                                | 5.4  | 10.3                                                                                                | 11.9 | 12.7                                                                                               | 0.8                                                                                          | 1.5 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 45                                                                                                             | 0.169                                                                                                |
| -4   | 1/4  | 6.2                                                                                                | 7.0  | 11.1                                                                                                | 12.1 | 14.4                                                                                               | 0.8                                                                                          | 1.5 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 50                                                                                                             | 0.210                                                                                                |
| -5   | 5/16 | 7.7                                                                                                | 8.5  | 12.7                                                                                                | 13.7 | 16.3                                                                                               | 0.8                                                                                          | 1.5 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 55                                                                                                             | 0.254                                                                                                |
| -6   | 3/8  | 9.3                                                                                                | 10.1 | 14.6                                                                                                | 15.6 | 18.0                                                                                               | 0.8                                                                                          | 1.5 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 65                                                                                                             | 0.466                                                                                                |
| -8   | 1/2  | 12.3                                                                                               | 13.5 | 18.0                                                                                                | 19.0 | 22.6                                                                                               | 0.8                                                                                          | 1.5 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 90                                                                                                             | 0.586                                                                                                |
| -10  | 5/8  | 15.5                                                                                               | 16.7 | 20.9                                                                                                | 21.9 | 27.5                                                                                               | 0.8                                                                                          | 1.5 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 100                                                                                                            | 0.749                                                                                                |
| -12  | 3/4  | 18.6                                                                                               | 19.8 | 24.9                                                                                                | 25.9 | 32.5                                                                                               | 0.8                                                                                          | 2.2 | 28                                                                                                           | 28                                                                                                   | 56                                                                                                             | 120                                                                                                            | 1.457                                                                                                |


**LT699** ISO18752-AC/BC

## 大力神钢丝编织液压软管

ARTERY® WIRE BRAID HYDRAULIC HOSE



### 软管结构

**内胶层:** 丁腈合成橡胶

**增强层:** 一层或两层编织的高强超柔钢丝，一层编织脉冲超30万次，  
两层编织脉冲超50万次

**外胶层:** 免剥耐油、耐磨、耐天候合成橡胶

**温度范围:** -40°C~+100°C (-40°F~+212°F); -55°C~+100°C (-67°F~+212°F)

**应用:** 具有高压、耐脉冲等特点，适用于挖掘机等大型工程机械。

### Hose Construction

**Inner Tube:** NBR synthetic rubber

**Reinforcement:** one or two braids of high tensile super flexible steel wire,  
one braid ≥300,000 impulse cycles,  
two braids ≥500,000 impulse cycles

**Outer Layer:** skiving-free, oil, abrasion, and weather resistant synthetic rubber

**Temperature Range:** -40°C ~ +100°C (-40°F ~ +212°F); -55°C ~ +100°C (-67°F ~ +212°F)

**Application:** Remarkable performance on high pressure and high impulse.  
Widely apply to excavator and other heavy duty construction machinery.

| 产品型号<br>SIZE | 规格      | <br>软管内径<br>I.D |      | <br>增强层外径<br>W.D |      | <br>软管外径<br>O.D |      | <br>最大<br>工作压力 | <br>试验压力 | <br>最小爆<br>破压力 | 最小脉冲<br>次数  | <br>最小弯<br>曲半径 | <br>参考重量 |
|--------------|---------|----------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|              |         | 最小                                                                                                 | 最大   | 最小                                                                                                  | 最大   | 最小                                                                                                 | 最大   | Max.W.P                                                                                           | P.P                                                                                          | Min.B.P                                                                                             | Min.Impulse | Min.B.R                                                                                             | W.T                                                                                           |
|              | SIZE    | mm                                                                                                 | mm   | mm                                                                                                  | mm   | mm                                                                                                 | mm   |                                                                                                   |                                                                                              |                                                                                                     | 万次 10K      |                                                                                                     |                                                                                               |
|              | IN      | mm                                                                                                 | mm   | mm                                                                                                  | mm   | mm                                                                                                 | mm   | MPa                                                                                               | MPa                                                                                          | MPa                                                                                                 | CYCLES      | mm                                                                                                  | kg/m                                                                                          |
| -4           | 1/4-1   | 5.8                                                                                                | 6.5  | 10.7                                                                                                | 11.7 | 12.9                                                                                               | 13.9 | 25                                                                                                | 50                                                                                           | 100                                                                                                 | 30          | 80                                                                                                  | 0.20                                                                                          |
| -5           | 5/16-1  | 7.7                                                                                                | 8.5  | 12.5                                                                                                | 13.5 | 14.7                                                                                               | 15.7 | 25                                                                                                | 50                                                                                           | 100                                                                                                 | 30          | 92                                                                                                  | 0.25                                                                                          |
| -6           | 3/8-1   | 9.8                                                                                                | 10.5 | 14.5                                                                                                | 15.5 | 16.9                                                                                               | 17.9 | 21                                                                                                | 42                                                                                           | 84                                                                                                  | 30          | 104                                                                                                 | 0.32                                                                                          |
| -8           | 1/2-1   | 12.8                                                                                               | 13.5 | 17.7                                                                                                | 18.7 | 20.2                                                                                               | 21.2 | 18                                                                                                | 36                                                                                           | 72                                                                                                  | 30          | 144                                                                                                 | 0.40                                                                                          |
| -10          | 5/8-1   | 15.8                                                                                               | 16.6 | 20.7                                                                                                | 21.7 | 23.5                                                                                               | 24.5 | 14                                                                                                | 28                                                                                           | 56                                                                                                  | 30          | 160                                                                                                 | 0.50                                                                                          |
| -12          | 3/4-1   | 18.8                                                                                               | 19.8 | 24.4                                                                                                | 25.4 | 27.0                                                                                               | 29.0 | 14                                                                                                | 28                                                                                           | 56                                                                                                  | 30          | 192                                                                                                 | 0.67                                                                                          |
| -16          | 1-1     | 24.8                                                                                               | 25.8 | 32                                                                                                  | 33   | 35.4                                                                                               | 36.6 | 9                                                                                                 | 18                                                                                           | 36                                                                                                  | 30          | 240                                                                                                 | 0.91                                                                                          |
| -20          | 1 1/4-1 | 31.4                                                                                               | 33   | 39.3                                                                                                | 40.7 | 42.7                                                                                               | 44.3 | 6.3                                                                                               | 13                                                                                           | 25                                                                                                  | 30          | 400                                                                                                 | 1.19                                                                                          |
| -24          | 1 1/2-1 | 37.7                                                                                               | 39.3 | 45                                                                                                  | 46.4 | 48.4                                                                                               | 50   | 5                                                                                                 | 10                                                                                           | 20                                                                                                  | 30          | 480                                                                                                 | 1.33                                                                                          |
| -32          | 2-1     | 50.4                                                                                               | 52   | 58.8                                                                                                | 60.2 | 62.2                                                                                               | 63.8 | 4                                                                                                 | 8                                                                                            | 16                                                                                                  | 30          | 560                                                                                                 | 1.87                                                                                          |
| -4           | 1/4-2   | 5.8                                                                                                | 6.5  | 12.6                                                                                                | 13.6 | 14.5                                                                                               | 15.5 | 42                                                                                                | 84                                                                                           | 168                                                                                                 | 50          | 80                                                                                                  | 0.35                                                                                          |
| -5           | 5/16-2  | 7.7                                                                                                | 8.5  | 14                                                                                                  | 15   | 15.8                                                                                               | 16.8 | 35                                                                                                | 84                                                                                           | 140                                                                                                 | 50          | 92                                                                                                  | 0.40                                                                                          |
| -6           | 3/8-2   | 9.8                                                                                                | 10.5 | 16.4                                                                                                | 17.4 | 18.2                                                                                               | 19.2 | 35                                                                                                | 70                                                                                           | 140                                                                                                 | 50          | 104                                                                                                 | 0.52                                                                                          |
| -8           | 1/2-2   | 12.8                                                                                               | 13.5 | 19.5                                                                                                | 20.5 | 21.7                                                                                               | 22.7 | 28                                                                                                | 56                                                                                           | 112                                                                                                 | 50          | 144                                                                                                 | 0.63                                                                                          |
| -10          | 5/8-2   | 15.8                                                                                               | 16.6 | 22.5                                                                                                | 23.5 | 24.9                                                                                               | 25.9 | 28                                                                                                | 56                                                                                           | 112                                                                                                 | 50          | 160                                                                                                 | 0.76                                                                                          |
| -12          | 3/4-2   | 18.8                                                                                               | 19.8 | 26.5                                                                                                | 27.5 | 29                                                                                                 | 30.2 | 25                                                                                                | 50                                                                                           | 100                                                                                                 | 50          | 192                                                                                                 | 0.94                                                                                          |
| -16          | 1-2     | 24.8                                                                                               | 25.8 | 33.5                                                                                                | 34.5 | 36.5                                                                                               | 37.7 | 21                                                                                                | 42                                                                                           | 84                                                                                                  | 50          | 240                                                                                                 | 1.37                                                                                          |
| -20          | 1 1/4-2 | 31.4                                                                                               | 33.0 | 43.5                                                                                                | 44.9 | 46.7                                                                                               | 48.3 | 14                                                                                                | 28                                                                                           | 56                                                                                                  | 50          | 400                                                                                                 | 2.00                                                                                          |
| -24          | 1 1/2-2 | 37.7                                                                                               | 39.3 | 49.8                                                                                                | 51.2 | 53.2                                                                                               | 54.8 | 9.0                                                                                               | 18                                                                                           | 36                                                                                                  | 50          | 480                                                                                                 | 2.30                                                                                          |
| -32          | 2-2     | 50.4                                                                                               | 52.0 | 62.5                                                                                                | 63.9 | 66                                                                                                 | 67.6 | 8.0                                                                                               | 16                                                                                           | 32                                                                                                  | 50          | 610                                                                                                 | 3.02                                                                                          |


**LTSA699**

Exceeds ISO18752-BC

## 超级大力神钢丝编织液压软管

SUPER ARTERY® WIRE BRAID HYDRAULIC HOSE

### 软管结构

**内胶层:** 氯丁/丁腈合成橡胶

**增强层:** 一层或两层编织的高强超柔钢丝，一层编织脉冲超30万次，  
两层编织脉冲超50万次

**外胶层:** 免剥耐油、耐磨、耐天候合成橡胶

**温度范围:** -40°C~+121°C (-40°F~+250°F); -55°C~+100°C (-67°F~+212°F)

**应用:** 具有低弯曲、高压、长寿命、高脉冲等特点，配套使用利通科技专供一体式软管接头及HNBR密封件，耐天候五年以上，质保两年，适用于挖掘机等大型工程机械或苛刻工况环境。



### Hose Construction

**Inner Layer:** CR/NBR synthetic rubber

**Reinforcement:** one or two braids of high tensile super flexible steel wire, one braid  $\geq 300,000$  impulse cycles, two braids  $\geq 500,000$  impulse cycles

**Outer Layer:** skiving-free, oil, abrasion, and weather resistant synthetic rubber

**Temperature Range:** -40°C~+121°C (-40°F~+250°F); -55°C~+100°C (-67°F~+212°F)

**Application:** Remarkable performance on tight bend radius, high pressure, long service life, and high impulse, weather resistant for more than five years and warranted for two years with Letone hose fittings and HNBR seals. Widely apply to excavator and other heavy duty construction machinery or harsh working environment.

| 产品类型<br>TYPE | 产品规格<br>SIZE(inch) | <br>软管内径<br>I.D.(mm) | <br>工作压力<br>W.P.(MPa) | <br>爆破压力<br>B.P.(MPa) | <br>最小弯曲半径<br>MIN.B.R.(mm) |
|--------------|--------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| SA699-1BC/CS | 1/4"               | 6.4                                                                                                     | 29.5                                                                                                     | 118                                                                                                        | 40                                                                                                              |
| SA699-1BC/CS | 5/16"              | 7.9                                                                                                     | 25                                                                                                       | 100                                                                                                        | 55                                                                                                              |
| SA699-1BC/CS | 3/8"               | 9.5                                                                                                     | 23                                                                                                       | 92                                                                                                         | 65                                                                                                              |
| SA699-1BC/CS | 1/2"               | 12.7                                                                                                    | 20                                                                                                       | 80                                                                                                         | 80                                                                                                              |
| SA699-1BC/CS | 5/8"               | 15.9                                                                                                    | 15                                                                                                       | 60                                                                                                         | 105                                                                                                             |
| SA699-1BC/CS | 3/4"               | 19                                                                                                      | 14                                                                                                       | 56                                                                                                         | 120                                                                                                             |
| SA699-1BC/CS | 1"                 | 25.4                                                                                                    | 11                                                                                                       | 44                                                                                                         | 160                                                                                                             |
| SA699-1BC/CS | 1 1/4"             | 31.8                                                                                                    | 10                                                                                                       | 40                                                                                                         | 300                                                                                                             |
| SA699-1BC/CS | 1 1/2"             | 38.1                                                                                                    | 5                                                                                                        | 20                                                                                                         | 480                                                                                                             |
| SA699-1BC/CS | 2"                 | 50.8                                                                                                    | 4                                                                                                        | 16                                                                                                         | 560                                                                                                             |
| SA699-2BC/CS | 1/4"               | 6.4                                                                                                     | 42                                                                                                       | 168                                                                                                        | 55                                                                                                              |
| SA699-2BC/CS | 5/16"              | 7.9                                                                                                     | 38                                                                                                       | 152                                                                                                        | 60                                                                                                              |
| SA699-2BC/CS | 3/8"               | 9.5                                                                                                     | 35                                                                                                       | 140                                                                                                        | 70                                                                                                              |
| SA699-2BC/CS | 1/2"               | 12.7                                                                                                    | 31                                                                                                       | 124                                                                                                        | 110                                                                                                             |
| SA699-2BC/CS | 5/8"               | 15.9                                                                                                    | 28                                                                                                       | 112                                                                                                        | 130                                                                                                             |
| SA699-2BC/CS | 3/4"               | 19                                                                                                      | 25                                                                                                       | 100                                                                                                        | 160                                                                                                             |
| SA699-2BC/CS | 1"                 | 25.4                                                                                                    | 21                                                                                                       | 84                                                                                                         | 210                                                                                                             |
| SA699-2BC/CS | 1 1/4"             | 31.8                                                                                                    | 16.5                                                                                                     | 66                                                                                                         | 250                                                                                                             |
| SA699-2BC/CS | 1 1/2"             | 38.1                                                                                                    | 13.5                                                                                                     | 54                                                                                                         | 300                                                                                                             |
| SA699-2BC/CS | 2"                 | 50.8                                                                                                    | 8                                                                                                        | 32                                                                                                         | 610                                                                                                             |


**LETONE**


**LT780**

## 国标回油软管

### OIL RETURN RUBBER HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层编织或缠绕纤维层

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送石油基液压油、润滑油、水和空气等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one braid or one spiral of textile

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying petroleum-based hydraulic oil, lubricating oil, water, and air.

| 规格   | 规格     | <br>软管内径<br>I.D | <br>软管外径<br>O.D | <br>最大工作压力<br>Max.W.P | <br>最小爆破压力<br>Min.B.P | <br>最小弯曲半径<br>Min.B.R | <br>参考重量<br>W.T |     |       |
|------|--------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----|-------|
| SIZE | SIZE   | 最小                                                                                                 | 最大                                                                                                 | 最小                                                                                                       | 最大                                                                                                        | MPa                                                                                                        | MPa                                                                                                  | mm  | kg/m  |
| DASH | IN     | Min                                                                                                | Max                                                                                                | Min                                                                                                      | Max                                                                                                       | MPa                                                                                                        | MPa                                                                                                  | mm  | kg/m  |
| -4   | 1/4"   | 6.3                                                                                                | 6.9                                                                                                | 12.4                                                                                                     | 13.6                                                                                                      | 2                                                                                                          | 8                                                                                                    | 65  | 0.138 |
| -5   | 5/16"  | 7.8                                                                                                | 8.5                                                                                                | 14.8                                                                                                     | 16.0                                                                                                      | 2                                                                                                          | 8                                                                                                    | 80  | 0.18  |
| -6   | 3/8"   | 9.5                                                                                                | 10.8                                                                                               | 16.4                                                                                                     | 17.6                                                                                                      | 2                                                                                                          | 8                                                                                                    | 80  | 0.189 |
| -8   | 1/2"   | 12.5                                                                                               | 13.8                                                                                               | 21.7                                                                                                     | 23.3                                                                                                      | 2                                                                                                          | 8                                                                                                    | 100 | 0.339 |
| -10  | 5/8"   | 15.8                                                                                               | 16.6                                                                                               | 25.7                                                                                                     | 27.3                                                                                                      | 2                                                                                                          | 8                                                                                                    | 125 | 0.443 |
| -12  | 3/4"   | 18.8                                                                                               | 19.8                                                                                               | 28.9                                                                                                     | 30.5                                                                                                      | 2                                                                                                          | 8                                                                                                    | 150 | 0.528 |
| -14  | 7/8"   | 21.8                                                                                               | 22.8                                                                                               | 31.2                                                                                                     | 32.8                                                                                                      | 2                                                                                                          | 8                                                                                                    | 170 | 0.535 |
| -16  | 1"     | 25.2                                                                                               | 26.2                                                                                               | 34.4                                                                                                     | 36.0                                                                                                      | 2                                                                                                          | 8                                                                                                    | 200 | 0.59  |
| -20  | 1-1/4" | 31.8                                                                                               | 32.8                                                                                               | 43.8                                                                                                     | 46.2                                                                                                      | 2                                                                                                          | 8                                                                                                    | 250 | 0.954 |
| -24  | 1-1/2" | 37.8                                                                                               | 38.8                                                                                               | 50.8                                                                                                     | 53.2                                                                                                      | 2                                                                                                          | 8                                                                                                    | 300 | 1.189 |
| -32  | 2"     | 50.8                                                                                               | 52.2                                                                                               | 64.3                                                                                                     | 66.7                                                                                                      | 2                                                                                                          | 8                                                                                                    | 360 | 1.612 |
| -40  | 2-1/2" | 63.8                                                                                               | 65.5                                                                                               | 78.8                                                                                                     | 81.2                                                                                                      | 2                                                                                                          | 6                                                                                                    | 430 | 2.272 |
| -48  | 3"     | 75.8                                                                                               | 77.5                                                                                               | 90.8                                                                                                     | 93.2                                                                                                      | 2                                                                                                          | 6                                                                                                    | 500 | 2.693 |

 **LT781** SAE 100R3

## 纤维编织软管

### FIBER BRAID HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**两层纤维编织

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送石油基液压油、润滑油、水和空气等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**two braids of textile

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying medium like petroleum based hydraulic oil, lubrication oil, water, and air.

| 规格   | 规格    | <br>软管内径<br>I.D |      | <br>软管外径<br>O.D |      | <br>最大工作压力<br>Max.W.P | <br>最小爆破压力<br>Min.B.P | <br>最小弯曲半径<br>Min.B.R | <br>参考重量<br>W.T |       |
|------|-------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------|
| SIZE | SIZE  | 最小                                                                                                 | 最大   | 最小                                                                                                 | 最大   | MPa                                                                                                      | MPa                                                                                                       | mm                                                                                                         | kg/m                                                                                                 | lb/ft |
| DASH | IN    | Min                                                                                                | Max  | Min                                                                                                | Max  | MPa                                                                                                      | MPa                                                                                                       | mm                                                                                                         | kg/m                                                                                                 | lb/ft |
| -3   | 3/16  | 4.6                                                                                                | 5.5  | 11.9                                                                                               | 13.6 | 10.5                                                                                                     | 42                                                                                                        | 75                                                                                                         | 0.15                                                                                                 | 0.14  |
| -4   | 1/4   | 6.1                                                                                                | 7.0  | 13.4                                                                                               | 15.1 | 8.7                                                                                                      | 34.8                                                                                                      | 75                                                                                                         | 0.16                                                                                                 | 0.16  |
| -5   | 5/16  | 7.4                                                                                                | 8.5  | 16.7                                                                                               | 18.3 | 8.4                                                                                                      | 33.6                                                                                                      | 100                                                                                                        | 0.25                                                                                                 | 0.21  |
| -6   | 3/8   | 9.3                                                                                                | 10.1 | 18.3                                                                                               | 19.8 | 7.8                                                                                                      | 31.2                                                                                                      | 100                                                                                                        | 0.31                                                                                                 | 0.26  |
| -8   | 1/2   | 12.3                                                                                               | 13.5 | 22.8                                                                                               | 24.6 | 7                                                                                                        | 28                                                                                                        | 125                                                                                                        | 0.40                                                                                                 | 0.38  |
| -10  | 5/8   | 15.5                                                                                               | 16.7 | 26.2                                                                                               | 27.8 | 6.1                                                                                                      | 24.4                                                                                                      | 140                                                                                                        | 0.51                                                                                                 | 0.42  |
| -12  | 3/4   | 18.5                                                                                               | 19.8 | 30.7                                                                                               | 32.5 | 5.2                                                                                                      | 20.8                                                                                                      | 150                                                                                                        | 0.61                                                                                                 | 0.58  |
| -16  | 1     | 25.1                                                                                               | 26.2 | 36.8                                                                                               | 39.2 | 3.9                                                                                                      | 15.6                                                                                                      | 205                                                                                                        | 0.91                                                                                                 | 0.74  |
| -20  | 1 1/4 | 31.4                                                                                               | 32.9 | 42.8                                                                                               | 45.2 | 2.6                                                                                                      | 10.4                                                                                                      | 250                                                                                                        | 1.10                                                                                                 | 0.77  |


**LT782** SAE 100R4

## 液压吸油回油软管

### HYDRAULIC SUCTION AND RETURN LINE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层纤维编织和一层螺旋钢丝

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送石油基液压油、润滑油、水和空气等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of textile and a helical spiral-wire

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying medium like petroleum based hydraulic oil, lubrication oil, water, and air.

| 规格   | 规格    | <br>软管内径<br>I.D |       | <br>软管外径<br>O.D | <br>最大工作压力<br>Max.W.P |     | <br>试验压力<br>P.P |     | <br>最小爆破压力<br>Min.B.P |      | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------|
|      |       | 最小                                                                                                 | 最大    | 最大                                                                                                 |                                                                                                          |     |                                                                                                     |     |                                                                                                            |      |                                                                                                      |
| SIZE | SIZE  | 最小                                                                                                 | 最大    | 最大                                                                                                 |                                                                                                          |     |                                                                                                     |     |                                                                                                            |      |                                                                                                      |
| DASH | IN    | Min                                                                                                | Max   | Max                                                                                                | MPa                                                                                                      | psi | MPa                                                                                                 | psi | MPa                                                                                                        | psi  | kg/m                                                                                                 |
| -12  | 3/4   | 18.2                                                                                               | 19.8  | 34.0                                                                                               | 2.1                                                                                                      | 305 | 4.2                                                                                                 | 610 | 8.4                                                                                                        | 1210 | 0.68                                                                                                 |
| -16  | 1     | 24.6                                                                                               | 26.2  | 40.0                                                                                               | 1.7                                                                                                      | 250 | 3.5                                                                                                 | 510 | 7                                                                                                          | 1015 | 0.84                                                                                                 |
| -20  | 1 1/4 | 30.6                                                                                               | 33.0  | 48.0                                                                                               | 1.4                                                                                                      | 200 | 2.8                                                                                                 | 410 | 5.6                                                                                                        | 810  | 1.13                                                                                                 |
| -24  | 1 1/2 | 36.9                                                                                               | 39.3  | 54.0                                                                                               | 1.05                                                                                                     | 150 | 2.1                                                                                                 | 305 | 4.2                                                                                                        | 610  | 1.41                                                                                                 |
| -32  | 2     | 49.2                                                                                               | 52.4  | 68.0                                                                                               | 0.7                                                                                                      | 100 | 1.4                                                                                                 | 200 | 2.8                                                                                                        | 410  | 1.85                                                                                                 |
| -40  | 2 1/2 | 61.9                                                                                               | 65.1  | 81.0                                                                                               | 0.4                                                                                                      | 60  | 0.85                                                                                                | 120 | 1.7                                                                                                        | 250  | 2.28                                                                                                 |
| -48  | 3     | 74.6                                                                                               | 77.8  | 93.0                                                                                               | 0.4                                                                                                      | 60  | 0.8                                                                                                 | 120 | 1.6                                                                                                        | 230  | 2.64                                                                                                 |
| -56  | 3 1/2 | 87.3                                                                                               | 90.5  | 106.0                                                                                              | 0.3                                                                                                      | 40  | 0.6                                                                                                 | 90  | 1.25                                                                                                       | 180  | 3.02                                                                                                 |
| -64  | 4     | 100.0                                                                                              | 103.2 | 120.0                                                                                              | 0.25                                                                                                     | 40  | 0.6                                                                                                 | 70  | 1                                                                                                          | 145  | 3.21                                                                                                 |

 **LT783** SAE 100R5

## 液压软管

### HYDRAULIC HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层编织的高强度钢丝

**外胶层:**浸胶纤维编织层

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送石油基液压油、润滑油、水和空气等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one braid of high tensile steel wire

**Outer Layer:**textile braid impregnated with synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying medium like petroleum based hydraulic oil, lubrication oil, water, and air.

| 规格   | 规格    | <br>软管内径<br>I.D |      | <br>软管外径<br>O.D |      | <br>最大工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆破压力<br>Min.B.P | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE  | 最小                                                                                                 | 最大   | 最小                                                                                                 | 最大   |                                                                                                          |                                                                                                     |                                                                                                            |                                                                                                      |
| DASH | IN    | Min                                                                                                | Max  | Min                                                                                                | Max  | MPa                                                                                                      | MPa                                                                                                 | MPa                                                                                                        | kg/m                                                                                                 |
| -3   | 3/16  | 4.6                                                                                                | 5.5  | 12.5                                                                                               | 13.5 | 21                                                                                                       | 42                                                                                                  | 84                                                                                                         | 0.20                                                                                                 |
| -4   | 1/4   | 6.1                                                                                                | 7.2  | 14.1                                                                                               | 15.1 | 21                                                                                                       | 42                                                                                                  | 84                                                                                                         | 0.25                                                                                                 |
| -5   | 5/16  | 7.9                                                                                                | 8.7  | 16.2                                                                                               | 17.4 | 15.7                                                                                                     | 31.4                                                                                                | 62.8                                                                                                       | 0.31                                                                                                 |
| -6   | 3/8   | 10.3                                                                                               | 11.1 | 18.4                                                                                               | 19.6 | 14                                                                                                       | 28                                                                                                  | 56                                                                                                         | 0.36                                                                                                 |
| -8   | 1/2   | 12.7                                                                                               | 13.7 | 22.2                                                                                               | 23.8 | 12.2                                                                                                     | 24.4                                                                                                | 48.8                                                                                                       | 0.45                                                                                                 |
| -10  | 5/8   | 15.9                                                                                               | 17.0 | 26.2                                                                                               | 27.8 | 10.5                                                                                                     | 21                                                                                                  | 42                                                                                                         | 0.60                                                                                                 |
| -14  | 7/8   | 22.2                                                                                               | 23.3 | 30.0                                                                                               | 38.8 | 5.6                                                                                                      | 11.2                                                                                                | 22.4                                                                                                       | 0.70                                                                                                 |
| -18  | 1 1/8 | 28.6                                                                                               | 29.8 | 36.3                                                                                               | 38.7 | 4.3                                                                                                      | 8.6                                                                                                 | 17.2                                                                                                       | 0.85                                                                                                 |
| -22  | 1 3/8 | 34.9                                                                                               | 36.1 | 42.8                                                                                               | 45.2 | 3.5                                                                                                      | 7                                                                                                   | 14                                                                                                         | 1.00                                                                                                 |
| -28  | 1 3/4 | 46.0                                                                                               | 47.2 | 54.3                                                                                               | 56.7 | 2.4                                                                                                      | 4.8                                                                                                 | 9.6                                                                                                        | 1.40                                                                                                 |
| -38  | 2 3/8 | 60.3                                                                                               | 61.9 | 70.8                                                                                               | 73.2 | 2.4                                                                                                      | 4.8                                                                                                 | 9.6                                                                                                        | 2.16                                                                                                 |
| -48  | 3     | 76.2                                                                                               | 77.8 | 88.3                                                                                               | 90.7 | 1.4                                                                                                      | 2.8                                                                                                 | 5.6                                                                                                        | 2.84                                                                                                 |


**LT784** SAE 100R6

## 纤维编织软管

### FIBER BRAID HOSE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层纤维编织

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送石油基液压油、润滑油、水和空气等介质。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one braid of textile

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying medium like petroleum based hydraulic oil, lubrication oil, water, and air.

| 规格   | 规格   | <br>软管内径<br>I.D |      | <br>软管外径<br>O.D |      | <br>最大工作压力<br>Max.W.P |     | <br>最小爆破压力<br>Min.B.P |      | <br>最小弯曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE | 最小                                                                                                 | 最大   | 最小                                                                                                 | 最大   |                                                                                                          |     |                                                                                                            |      |                                                                                                            |                                                                                                      |
| DASH | IN   | Min                                                                                                | Max  | Min                                                                                                | Max  | MPa                                                                                                      | psi | MPa                                                                                                        | psi  | psi                                                                                                        | kg/m                                                                                                 |
| -3   | 3/16 | 4.6                                                                                                | 5.5  | 11.0                                                                                               | 12.2 | 3.4                                                                                                      | 500 | 13.6                                                                                                       | 2000 | 50                                                                                                         | 0.10                                                                                                 |
| -4   | 1/4  | 6.1                                                                                                | 6.9  | 12.4                                                                                               | 13.6 | 2.8                                                                                                      | 400 | 11.2                                                                                                       | 1600 | 65                                                                                                         | 0.13                                                                                                 |
| -5   | 5/16 | 7.4                                                                                                | 8.5  | 14.2                                                                                               | 15.4 | 2.8                                                                                                      | 400 | 11.2                                                                                                       | 1600 | 80                                                                                                         | 0.16                                                                                                 |
| -6   | 3/8  | 9.3                                                                                                | 10.1 | 15.7                                                                                               | 16.9 | 2.8                                                                                                      | 400 | 11.2                                                                                                       | 1600 | 80                                                                                                         | 0.18                                                                                                 |
| -8   | 1/2  | 12.3                                                                                               | 13.5 | 19.5                                                                                               | 21.1 | 2.8                                                                                                      | 400 | 11.2                                                                                                       | 1600 | 100                                                                                                        | 0.25                                                                                                 |
| -10  | 5/8  | 15.5                                                                                               | 16.7 | 22.7                                                                                               | 24.3 | 2.4                                                                                                      | 340 | 9.6                                                                                                        | 1360 | 125                                                                                                        | 0.29                                                                                                 |
| -12  | 3/4  | 18.2                                                                                               | 19.8 | 26.2                                                                                               | 27.8 | 2.1                                                                                                      | 340 | 8.4                                                                                                        | 1200 | 150                                                                                                        | 0.37                                                                                                 |

 **LT785** GB1186

## 压缩空气管

### COMPRESSED AIR HOSE

#### 软管结构

**内胶层:**黑色合成橡胶

**增强层:**一层或两层纤维编织

**外胶层:**耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +70℃ (-40°F 至 +158°F)

**应用:**适用于各种动力机械及风动工具在常温下输送压缩空气、水或惰性气体。



#### Hose Construction

**Inner Tube:**black synthetic rubber

**Reinforcement:**one or two braids of textile

**Outer Layer:**weather and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +70℃ (-40°F ~ +158°F)

**Application:** Suitable for all kinds of power machinery and pneumatic tools to convey compressed air water or noble gases under the normal temperature.

| 规格   | 规格    | <br>软管内径<br>I.D |      | <br>软管外径<br>O.D | <br>最大工作压力<br>Max.W.P | <br>最小爆破压力<br>Min.B.P | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE  | 最小                                                                                                 | 最大   | 最小                                                                                                 |                                                                                                          |                                                                                                            |                                                                                                      |
| DASH | IN    | Min                                                                                                | Max  | Min                                                                                                | MPa                                                                                                      | MPa                                                                                                        | kg/m                                                                                                 |
| -8   | 1/2   | 12.5                                                                                               | 14.0 | 23                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 0.34                                                                                                 |
| -10  | 5/8   | 15.5                                                                                               | 17.0 | 26                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 0.40                                                                                                 |
| -12  | 3/4   | 18.5                                                                                               | 20.0 | 29                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 0.45                                                                                                 |
| -16  | 1     | 24.5                                                                                               | 26.0 | 35                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 0.48                                                                                                 |
| -20  | 1 1/4 | 31.5                                                                                               | 33.0 | 45                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 0.95                                                                                                 |
| -24  | 1 1/2 | 37.5                                                                                               | 39.0 | 52                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 1.25                                                                                                 |
| -32  | 2     | 50.0                                                                                               | 52.5 | 66                                                                                                 | 1.0                                                                                                      | 4.0                                                                                                        | 1.60                                                                                                 |
| -8   | 1/2   | 12.5                                                                                               | 14.0 | 23                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 0.34                                                                                                 |
| -10  | 5/8   | 15.5                                                                                               | 17.0 | 26                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 0.41                                                                                                 |
| -12  | 3/4   | 18.5                                                                                               | 20.0 | 29                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 0.46                                                                                                 |
| -16  | 1     | 24.5                                                                                               | 26.0 | 35                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 0.50                                                                                                 |
| -20  | 1 1/4 | 31.5                                                                                               | 33.0 | 45                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 0.97                                                                                                 |
| -24  | 1 1/2 | 37.5                                                                                               | 39.0 | 52                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 1.27                                                                                                 |
| -32  | 2     | 50.0                                                                                               | 52.5 | 66                                                                                                 | 2.0                                                                                                      | 8.0                                                                                                        | 1.70                                                                                                 |


**LT787** EN854 2TE & 3TE

## 回油软管

### OIL RETURN LINE

#### 软管结构

**内胶层:**黑色耐油合成橡胶

**增强层:**一层或两层纤维编织

**外胶层:**黑色耐油、耐天候、耐磨合成橡胶

**温度范围:**-40℃ 至 +100℃ (-40°F 至 +212°F)

**应用:**适用于输送石油基液压油、原油、燃油、润滑油、乳化油、空气和水等。



#### Hose Construction

**Inner Tube:**black oil resistant synthetic rubber

**Reinforcement:**one or two braids of textile

**Outer Layer:**black oil, weather, and abrasion resistant synthetic rubber

**Temperature Range:**-40℃ ~ +100℃ (-40°F ~ +212°F)

**Application:** Suitable for conveying petroleum-based hydraulic oil, crude oil, fuel oil, lubricating oil, emulsified oil, air, and water.

| 规格   | 规格      | <br>软管内径<br>I.D |      | <br>软管外径<br>O.D |      | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|---------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SIZE | SIZE    | 最小                                                                                                 | 最大   | 最小                                                                                                 | 最大   | Min                                                                                                          | MPa                                                                                                 | Mpa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| DASH | IN      | Min                                                                                                | Max  | Min                                                                                                | Max  | Min                                                                                                          | MPa                                                                                                 | Mpa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| -4   | 1/4-1   | 6.1                                                                                                | 6.9  | 12.4                                                                                               | 13.6 | 7.5                                                                                                          | 15                                                                                                  | 30                                                                                                             | 40                                                                                                             | 0.14                                                                                                 |
| -5   | 5/16-1  | 7.4                                                                                                | 8.5  | 14.2                                                                                               | 15.4 | 6.8                                                                                                          | 13.6                                                                                                | 27.2                                                                                                           | 50                                                                                                             | 0.16                                                                                                 |
| -6   | 3/8-1   | 9.3                                                                                                | 10.1 | 16.0                                                                                               | 17.2 | 6.3                                                                                                          | 12.6                                                                                                | 25.2                                                                                                           | 60                                                                                                             | 0.18                                                                                                 |
| -8   | 1/2-1   | 12.3                                                                                               | 13.5 | 18.9                                                                                               | 20.5 | 5.8                                                                                                          | 11.6                                                                                                | 23.2                                                                                                           | 70                                                                                                             | 0.22                                                                                                 |
| -10  | 5/8-1   | 15.5                                                                                               | 16.7 | 23.0                                                                                               | 24.6 | 5.0                                                                                                          | 10                                                                                                  | 20                                                                                                             | 90                                                                                                             | 0.30                                                                                                 |
| -12  | 3/4-1   | 18.5                                                                                               | 19.8 | 26.4                                                                                               | 28.0 | 4.5                                                                                                          | 9                                                                                                   | 18                                                                                                             | 110                                                                                                            | 0.33                                                                                                 |
| 16   | 1-1     | 24.6                                                                                               | 26.2 | 33.3                                                                                               | 35.7 | 4.0                                                                                                          | 8                                                                                                   | 16                                                                                                             | 130                                                                                                            | 0.46                                                                                                 |
| -20  | 1 1/4-1 | 30.8                                                                                               | 32.8 | 40.8                                                                                               | 43.2 | 3.5                                                                                                          | 7                                                                                                   | 14                                                                                                             | 140                                                                                                            | 0.22                                                                                                 |
| -24  | 1/4-2   | 6.1                                                                                                | 6.9  | 13.9                                                                                               | 15.1 | 14.5                                                                                                         | 29                                                                                                  | 58.0                                                                                                           | 45                                                                                                             | 0.19                                                                                                 |
| -32  | 5/16-2  | 7.4                                                                                                | 8.5  | 16.2                                                                                               | 17.4 | 13.0                                                                                                         | 26                                                                                                  | 52.0                                                                                                           | 55                                                                                                             | 0.23                                                                                                 |
| -6   | 3/8-2   | 9.3                                                                                                | 10.1 | 17.9                                                                                               | 19.1 | 11.0                                                                                                         | 22                                                                                                  | 44.4                                                                                                           | 70                                                                                                             | 0.26                                                                                                 |
| -8   | 1/2-2   | 12.3                                                                                               | 13.5 | 21.0                                                                                               | 22.6 | 9.3                                                                                                          | 18.6                                                                                                | 37.2                                                                                                           | 85                                                                                                             | 0.30                                                                                                 |
| -10  | 5/8-2   | 15.5                                                                                               | 16.7 | 25.4                                                                                               | 27.0 | 8.0                                                                                                          | 16                                                                                                  | 32.0                                                                                                           | 105                                                                                                            | 0.41                                                                                                 |
| -12  | 3/4-2   | 18.2                                                                                               | 19.8 | 28.2                                                                                               | 29.8 | 7.0                                                                                                          | 14                                                                                                  | 28.0                                                                                                           | 130                                                                                                            | 0.47                                                                                                 |
| -16  | 1-2     | 24.6                                                                                               | 26.2 | 35.3                                                                                               | 37.7 | 5.5                                                                                                          | 11                                                                                                  | 22.0                                                                                                           | 150                                                                                                            | 0.69                                                                                                 |
| -20  | 1 1/4-2 | 30.8                                                                                               | 32.8 | 40.8                                                                                               | 43.2 | 4.5                                                                                                          | 9                                                                                                   | 18.0                                                                                                           | 190                                                                                                            | 0.73                                                                                                 |
| -24  | 1 1/2-2 | 37.1                                                                                               | 39.1 | 47.8                                                                                               | 50.2 | 4.0                                                                                                          | 8                                                                                                   | 16.0                                                                                                           | 240                                                                                                            | 0.87                                                                                                 |
| -32  | 2-2     | 50.0                                                                                               | 52.0 | 60.8                                                                                               | 64.0 | 3.0                                                                                                          | 6                                                                                                   | 13.2                                                                                                           | 300                                                                                                            | 1.16                                                                                                 |


**LT788**

## 喷沙软管

### SAND BLASTING HOSE

#### 软管结构

**内胶层:**黑色耐磨合成橡胶(可内衬UPE耐磨层)

**增强层:**编织纤维或钢丝

**外胶层:**黑色耐天候、耐磨合成橡胶

**温度范围:**-40℃至+70℃(-40°F至+158°F)

**应用:**适用于铁路、造船、建筑等行业对金属体表面进行风压喷沙除锈。



#### Hose Construction

**Inner Tube:**black abrasion resistant synthetic rubber ( UPE layer is available)

**Reinforcement:**braided fiber or steel wire

**Outer Layer:**black weather and abrasion resistant synthetic rubber

**Temperature Range:**-40℃~+70℃(-40°F~+158°F)

**Application:** Apply to industries like railway, shipbuilding, and construction to remove rust on the metal surface.

| 规格   | 规格    | <br>软管内径<br>I.D |      | <br>软管外径<br>O.D |       | <br>最大<br>工作压力<br>Max.W.P | <br>试验压力<br>P.P | <br>最小爆<br>破压力<br>Min.B.P | <br>最小弯<br>曲半径<br>Min.B.R | <br>参考重量<br>W.T |
|------|-------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|      |       | 最小                                                                                                 | 最大   | 最小                                                                                                 | 最大    | Min                                                                                                          | MPa                                                                                                | Mpa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| DASH | IN    | Min                                                                                                | Max  | Min                                                                                                | Max   | Min                                                                                                          | MPa                                                                                                | Mpa                                                                                                            | mm                                                                                                             | kg/m                                                                                                 |
| -10  | 5/8   | 15.5                                                                                               | 16.7 | 28.2                                                                                               | 29.8  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 105                                                                                                            | 0.98                                                                                                 |
| -12  | 3/4   | 18.8                                                                                               | 19.8 | 34.2                                                                                               | 35.8  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 130                                                                                                            | 1.14                                                                                                 |
| -16  | 1     | 24.8                                                                                               | 25.8 | 42.8                                                                                               | 45.2  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 150                                                                                                            | 1.50                                                                                                 |
| -20  | 1 1/4 | 31.6                                                                                               | 32.6 | 48.8                                                                                               | 51.5  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 190                                                                                                            | 1.80                                                                                                 |
| -24  | 1 1/2 | 37.7                                                                                               | 38.8 | 57.5                                                                                               | 60.5  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 240                                                                                                            | 2.10                                                                                                 |
| -28  | 1 3/4 | 44.6                                                                                               | 45.6 | 62.5                                                                                               | 65.5  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 260                                                                                                            | 2.30                                                                                                 |
| -32  | 2     | 50.7                                                                                               | 52   | 69.5                                                                                               | 72.5  | 1.0                                                                                                          | 2.0                                                                                                | 4.0                                                                                                            | 300                                                                                                            | 2.75                                                                                                 |
| -40  | 2 1/2 | 63.7                                                                                               | 65.3 | 83.5                                                                                               | 86.5  | 0.8                                                                                                          | 1.6                                                                                                | 3.2                                                                                                            | 800                                                                                                            | 3.50                                                                                                 |
| -48  | 3     | 75.5                                                                                               | 77.3 | 100.0                                                                                              | 104.0 | 0.8                                                                                                          | 1.6                                                                                                | 3.2                                                                                                            | 920                                                                                                            | 4.50                                                                                                 |
| -56  | 3 1/2 | 88.5                                                                                               | 90.5 | 113.0                                                                                              | 117.0 | 0.8                                                                                                          | 1.6                                                                                                | 3.2                                                                                                            | 1100                                                                                                           | 5.50                                                                                                 |
| -64  | 4     | 101.5                                                                                              | 104  | 126.0                                                                                              | 130.0 | 0.8                                                                                                          | 1.6                                                                                                | 3.2                                                                                                            | 1300                                                                                                           | 6.50                                                                                                 |


**LT790** SAE 100R7

## 纤维编织高压树脂软管

### FIBER BRAID HIGH PRESSURE THERMOPLASTIC HOSE

#### 软管结构

内层: 尼龙

增强层: 一层或两层合成纤维编织

外层: 聚氨酯

温度范围: -40°C~+100°C (-40°F~+212°F)

#### Hose Construction

Inner Tube: nylon

Reinforcement: one or two braids of synthetic fiber

Outer Layer: polyurethane

Temperature Range: -40°C~+100°C (-40°F~+212°F)

应用: 适用于输送石油基液压油、水基液压油, 可作为润滑管线、防喷器控制管线等, 广泛应用于液压升降机及农用和建筑机械。

**Application:** Suitable for transferring petroleum-based and water-based hydraulic oil, which could be used as lubrication lines and blowout preventer lines, etc, widely apply to hydraulic lifts, agricultural machines and construction machines.



可定制双联软管  
Twin hose is customizable

| 规格   | 规格     |  软管内径<br>I.D |  软管外径<br>O.D |  最大工作压力<br>Max.W.P |      |       |  最小爆破压力<br>Min.B.P |  最小弯曲半径<br>Min.B.R |
|------|--------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------|-------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| DASH | IN     | mm                                                                                              | mm                                                                                              | MPa                                                                                                   | psi  | MPa   | psi                                                                                                     | mm                                                                                                      |
| -3   | 3/16-1 | 4.8                                                                                             | 10.3                                                                                            | 21                                                                                                    | 3045 | 84    | 12180                                                                                                   | 35                                                                                                      |
| -4   | 1/4-1  | 6.3                                                                                             | 12.7                                                                                            | 22.5                                                                                                  | 3260 | 90    | 13050                                                                                                   | 50                                                                                                      |
| -5   | 5/16-1 | 7.9                                                                                             | 14.3                                                                                            | 19                                                                                                    | 2755 | 76    | 11020                                                                                                   | 50                                                                                                      |
| -6   | 3/8-1  | 9.5                                                                                             | 15.9                                                                                            | 17.5                                                                                                  | 2540 | 70    | 10160                                                                                                   | 80                                                                                                      |
| -8   | 1/2-1  | 12.7                                                                                            | 19.8                                                                                            | 14                                                                                                    | 2030 | 56    | 8120                                                                                                    | 100                                                                                                     |
| -3   | 3/16-2 | 4.8                                                                                             | 10.3                                                                                            | 25                                                                                                    | 3620 | 100   | 14480                                                                                                   | 55                                                                                                      |
| -4   | 1/4-2  | 6.3                                                                                             | 13.3                                                                                            | 27.4                                                                                                  | 3980 | 109.6 | 15920                                                                                                   | 75                                                                                                      |
| -5   | 5/16-2 | 7.9                                                                                             | 15                                                                                              | 26                                                                                                    | 3770 | 104   | 15080                                                                                                   | 85                                                                                                      |
| -6   | 3/8-2  | 9.5                                                                                             | 18                                                                                              | 25                                                                                                    | 3620 | 100   | 14480                                                                                                   | 100                                                                                                     |
| -8   | 1/2-2  | 12.7                                                                                            | 21.6                                                                                            | 21                                                                                                    | 3040 | 84    | 12160                                                                                                   | 140                                                                                                     |
| -10  | 5/8-2  | 15.9                                                                                            | 23.6                                                                                            | 16                                                                                                    | 2320 | 64    | 9280                                                                                                    | 165                                                                                                     |
| -12  | 3/4-2  | 19                                                                                              | 26.4                                                                                            | 14                                                                                                    | 2030 | 56    | 8120                                                                                                    | 195                                                                                                     |
| -16  | 1-2    | 25.4                                                                                            | 34                                                                                              | 10.5                                                                                                  | 1520 | 42    | 6080                                                                                                    | 256                                                                                                     |

 **LT791** SAE 100R7

## 钢丝编织高压树脂软管

### WR1E BRAID HIGH PRESSURE THERMOPLASTIC HOSE

#### 软管结构

内层: 尼龙

增强层: 一层或两层钢丝编织

外层: 聚氨酯

温度范围: -40°C~+100°C (-40°F~+212°F)

应用: 适用于输送石油基液压油、水基液压油, 可作为润滑管线、防喷器控制管线等, 广泛应用于液压升降机及农用和建筑机械。

#### Hose Construction

Inner Tube: nylon

Reinforcement: one or two braids of steel wire

Outer Layer: polyurethane

Temperature Range: -40°C~+100°C (-40°F~+212°F)

Application: Suitable for transferring petroleum-based and water-based hydraulic oil, which could be used as lubrication lines and blowout preventer lines, etc, widely apply to hydraulic lifts, agricultural machines and construction machines.



可定制双联软管  
Twin hose is customizable

| 规格   | 规格     |  软管内径<br>I.D |  软管外径<br>O.D |  最大工作压力<br>Max.W.P |      |  |  最小爆破压力<br>Min.B.P |       |  |  最小弯曲半径<br>Min.B.R |
|------|--------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------|--|---------------------------------------------------------------------------------------------------------|-------|--|---------------------------------------------------------------------------------------------------------|
| DASH | IN     | mm                                                                                              | mm                                                                                              | MPa                                                                                                   | psi  |  | MPa                                                                                                     | psi   |  | mm                                                                                                      |
| -3   | 3/16-1 | 4.8                                                                                             | 9.8                                                                                             | 35                                                                                                    | 5070 |  | 140                                                                                                     | 20280 |  | 30                                                                                                      |
| -4   | 1/4-1  | 6.3                                                                                             | 12.7                                                                                            | 27.5                                                                                                  | 3990 |  | 110                                                                                                     | 15960 |  | 40                                                                                                      |
| -5   | 5/16-1 | 7.9                                                                                             | 14.3                                                                                            | 25                                                                                                    | 3620 |  | 100                                                                                                     | 14480 |  | 55                                                                                                      |
| -6   | 3/8-1  | 9.5                                                                                             | 15.9                                                                                            | 22.5                                                                                                  | 3260 |  | 63.6                                                                                                    | 13040 |  | 65                                                                                                      |
| -8   | 1/2-1  | 12.7                                                                                            | 19.8                                                                                            | 17.5                                                                                                  | 2540 |  | 70                                                                                                      | 10160 |  | 85                                                                                                      |
| -10  | 5/8-1  | 15.9                                                                                            | 23.3                                                                                            | 14                                                                                                    | 2030 |  | 56                                                                                                      | 8120  |  | 115                                                                                                     |
| -12  | 3/4-1  | 19                                                                                              | 26.5                                                                                            | 12                                                                                                    | 1740 |  | 48                                                                                                      | 6960  |  | 140                                                                                                     |
| -16  | 1-1    | 25.4                                                                                            | 34                                                                                              | 10                                                                                                    | 1450 |  | 40                                                                                                      | 5800  |  | 180                                                                                                     |
| -4   | 1/4-2  | 6.3                                                                                             | 13.3                                                                                            | 35                                                                                                    | 5070 |  | 140                                                                                                     | 20280 |  | 40                                                                                                      |
| -5   | 5/16-2 | 7.9                                                                                             | 14.9                                                                                            | 32.5                                                                                                  | 4710 |  | 130                                                                                                     | 18840 |  | 50                                                                                                      |
| -6   | 3/8-2  | 9.5                                                                                             | 16.7                                                                                            | 29                                                                                                    | 4200 |  | 116                                                                                                     | 16800 |  | 70                                                                                                      |
| -8   | 1/2-2  | 12.7                                                                                            | 19.8                                                                                            | 26                                                                                                    | 3770 |  | 104                                                                                                     | 15080 |  | 80                                                                                                      |
| -10  | 5/8-2  | 15.9                                                                                            | 23.3                                                                                            | 20                                                                                                    | 2900 |  | 80                                                                                                      | 11600 |  | 130                                                                                                     |
| -12  | 3/4-2  | 19                                                                                              | 26                                                                                              | 17.5                                                                                                  | 2540 |  | 70                                                                                                      | 10160 |  | 160                                                                                                     |
| -16  | 1-2    | 25.4                                                                                            | 33                                                                                              | 12                                                                                                    | 1740 |  | 48                                                                                                      | 6960  |  | 220                                                                                                     |


**LT794 SAE 100R8**
**芳纶纤维编织高压树脂软管**
**ARAMID FIBER BRAID HIGH PRESSURE THERMOPLASTIC HOSE**
**软管结构**
**内层:** 尼龙

**增强层:** 一层或两层芳纶纤维编织

**外层:** 聚氨酯

**温度范围:** -40°C~+100°C (-40°F~+212°F)

**Hose Construction**
**Inner Tube:** nylon

**Reinforcement:** one or two braids of aramid fiber

**Outer Layer:** polyurethane

**Temperature Range:** -40°C~+100°C (-40°F~+212°F)

**应用:** 适用于输送石油基液压油、水基液压油, 可作为润滑管线、防喷器控制管线等, 广泛应用于液压升降机及农用和建筑机械。

**Application:** Suitable for transferring petroleum-based and water-based hydraulic oil, which could be used as lubrication lines and blowout preventer lines, etc, widely apply to hydraulic lifts, agricultural machines and construction machines.

| 规格   | 规格     |  软管内径<br>I.D |  软管外径<br>O.D |  最大工作压力<br>Max.W.P |      |  最小爆破压力<br>Min.B.P |       |  最小弯曲半径<br>Min.B.R |
|------|--------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------|
| DASH | IN     | mm                                                                                              | mm                                                                                              | MPa                                                                                                   | psi  | MPa                                                                                                     | psi   | mm                                                                                                      |
| -3   | 3/16-2 | 4.8                                                                                             | 10.3                                                                                            | 35                                                                                                    | 5070 | 140                                                                                                     | 20280 | 35                                                                                                      |
| -4   | 1/4-2  | 6.3                                                                                             | 12.3                                                                                            | 37.5                                                                                                  | 5440 | 150                                                                                                     | 21760 | 40                                                                                                      |
| -5   | 5/16-2 | 7.9                                                                                             | 14.3                                                                                            | 32.5                                                                                                  | 4710 | 130                                                                                                     | 18840 | 45                                                                                                      |
| -6   | 3/8-2  | 9.5                                                                                             | 16.7                                                                                            | 28                                                                                                    | 4060 | 112                                                                                                     | 16240 | 60                                                                                                      |
| -8   | 1/2-2  | 12.7                                                                                            | 22.5                                                                                            | 35                                                                                                    | 5070 | 140                                                                                                     | 20280 | 80                                                                                                      |
| -10  | 5/8-2  | 15.9                                                                                            | 24.5                                                                                            | 22.5                                                                                                  | 3260 | 90                                                                                                      | 13040 | 120                                                                                                     |
| -12  | 3/4-2  | 19                                                                                              | 28                                                                                              | 17.5                                                                                                  | 2540 | 70                                                                                                      | 10160 | 140                                                                                                     |
| -16  | 1-2    | 25.4                                                                                            | 34                                                                                              | 15                                                                                                    | 2170 | 60                                                                                                      | 8680  | 160                                                                                                     |


**LT799**

## 超高压树脂软管

### ULTRA-HIGH PRESSURE THERMOPLASTIC HOSE



#### 软管结构

内层: 尼龙

增强层: 4~8层钢丝缠绕

外层: 超耐磨聚氨酯

温度范围: -30℃~+80℃ (-22°F~+176°F)

#### Hose Construction

Inner Tube: nylon

Reinforcement: 4~8 plies of spiraled steel wire

Outer Layer: super abrasion resistant polyurethane

Temperature Range: -30℃~+80℃ (-22°F~+176°F)

应用: 适用于在高压下输送水和液压油等介质, 广泛应用于高压喷涂、高压清洗、喷砂、工程机械、农林机械、石油化工等行业。

**Application:** Suitable for transferring water, oil and other medium under high pressure, widely apply to the industries like high pressure spraying, high pressure cleaning, sandblasting, engineering machinery, agricultural machinery, forestry machinery, petrochemical, etc.

| 规格   | 规格     |  软管内径<br>I.D |  软管外径<br>O.D |  最大工作压力<br>Max.W.P |       |  |  最小爆破压力<br>Min.B.P |        |  |  最小弯曲半径<br>Min.B.R |
|------|--------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------|--|---------------------------------------------------------------------------------------------------------|--------|--|---------------------------------------------------------------------------------------------------------|
| DASH | IN     | mm                                                                                              | mm                                                                                              | bar                                                                                                   | psi   |  | bar                                                                                                     | psi    |  | mm                                                                                                      |
| -2   | 1/8-2  | 3.5                                                                                             | 7.2                                                                                             | 1040                                                                                                  | 15000 |  | 2600                                                                                                    | 37700  |  | 60                                                                                                      |
| -    | 5/32-2 | 4.1                                                                                             | 9.8                                                                                             | 1200                                                                                                  | 17400 |  | 3000                                                                                                    | 43500  |  | 65                                                                                                      |
| -3   | 3/16-2 | 5.2                                                                                             | 10.8                                                                                            | 1040                                                                                                  | 15000 |  | 2600                                                                                                    | 37700  |  | 70                                                                                                      |
| -4   | 1/4-2  | 6.4                                                                                             | 11.5                                                                                            | 1040                                                                                                  | 15000 |  | 2600                                                                                                    | 37700  |  | 85                                                                                                      |
| -5   | 5/16-2 | 7.9                                                                                             | 13.4                                                                                            | 1040                                                                                                  | 15000 |  | 2600                                                                                                    | 37700  |  | 100                                                                                                     |
| -6   | 3/8-2  | 9.9                                                                                             | 16.4                                                                                            | 690                                                                                                   | 10000 |  | 1725                                                                                                    | 25000  |  | 140                                                                                                     |
| -8   | 1/2-2  | 12.8                                                                                            | 20.4                                                                                            | 690                                                                                                   | 10000 |  | 1725                                                                                                    | 25000  |  | 200                                                                                                     |
| -    | 5/32-4 | 4                                                                                               | 12.0                                                                                            | 2200                                                                                                  | 31900 |  | 5500                                                                                                    | 79750  |  | 90                                                                                                      |
| -3   | 3/16-4 | 5.1                                                                                             | 12.8                                                                                            | 1800                                                                                                  | 26100 |  | 4500                                                                                                    | 65250  |  | 95                                                                                                      |
| -4   | 1/4-4  | 6.3                                                                                             | 14.3                                                                                            | 1640                                                                                                  | 23700 |  | 4100                                                                                                    | 59450  |  | 100                                                                                                     |
| -5   | 5/16-4 | 8.2                                                                                             | 16.6                                                                                            | 1500                                                                                                  | 21700 |  | 3750                                                                                                    | 54375  |  | 105                                                                                                     |
| -6   | 3/8-4  | 9.9                                                                                             | 18.8                                                                                            | 1400                                                                                                  | 20300 |  | 3500                                                                                                    | 50750  |  | 110                                                                                                     |
| -8   | 1/2-4  | 12.8                                                                                            | 22.5                                                                                            | 1400                                                                                                  | 20300 |  | 3500                                                                                                    | 50750  |  | 120                                                                                                     |
| -    | 5/32-6 | 4                                                                                               | 11.8                                                                                            | 2800                                                                                                  | 40600 |  | 7000                                                                                                    | 101500 |  | 140                                                                                                     |
| -3   | 3/16-6 | 5                                                                                               | 14.8                                                                                            | 2500                                                                                                  | 36200 |  | 6250                                                                                                    | 90625  |  | 200                                                                                                     |
| -4   | 1/4-6  | 6.3                                                                                             | 16.0                                                                                            | 2500                                                                                                  | 36200 |  | 6250                                                                                                    | 90625  |  | 210                                                                                                     |
| -5   | 5/16-6 | 7.9                                                                                             | 19.0                                                                                            | 2500                                                                                                  | 36200 |  | 6250                                                                                                    | 90625  |  | 220                                                                                                     |
| -6   | 3/8-6  | 9.9                                                                                             | 20.8                                                                                            | 2070                                                                                                  | 30000 |  | 5175                                                                                                    | 75000  |  | 250                                                                                                     |
| -8   | 1/2-6  | 12.8                                                                                            | 27.0                                                                                            | 1800                                                                                                  | 26100 |  | 4500                                                                                                    | 65250  |  | 290                                                                                                     |
| -12  | 3/4-6  | 18.8                                                                                            | 35.0                                                                                            | 1600                                                                                                  | 23200 |  | 4000                                                                                                    | 58000  |  | 350                                                                                                     |
| -3   | 3/16-8 | 4.7                                                                                             | 16.0                                                                                            | 4000                                                                                                  | 58000 |  | 10000                                                                                                   | 145000 |  | 200                                                                                                     |
| -4   | 1/4-8  | 6.3                                                                                             | 18.0                                                                                            | 3500                                                                                                  | 50750 |  | 8750                                                                                                    | 126875 |  | 230                                                                                                     |
| -5   | 5/16-8 | 7.6                                                                                             | 21.5                                                                                            | 3200                                                                                                  | 55100 |  | 8000                                                                                                    | 116000 |  | 280                                                                                                     |
| -8   | 1/2-8  | 12.8                                                                                            | 28.7                                                                                            | 3000                                                                                                  | 43600 |  | 7500                                                                                                    | 108750 |  | 350                                                                                                     |









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