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**和峻(广州)胶管有限公司**  
WOJUN (GUANGZHOU) RUBBER CO., LTD

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**和峻(广州)胶管有限公司**  
WOJUN (GUANGZHOU) RUBBER CO., LTD

## 公司简介

COMPANY PROFILE

和峻(广州)胶管有限公司,位于广州市花都区梯面镇,占地面积 10 万平方米,总投资近 2 亿元。

和峻公司是具有较大规模的专业橡胶软管生产企业。公司拥有“WOJUN”、“LIEBAO”等注册商标,公司生产橡胶软管历史近 30 年,主要生产编织液压软管、缠绕液压软管及各类软管组合件。软管的产品有:钢丝编织液压管、钢丝缠绕液压管、加油机管、氧气乙炔管、油气管等。管体颜色有黑色、蓝色、红色、黄色等,管体外观有光面及布纹。

和峻公司的产品广泛用于工程机械、冶金机械、煤炭机械、矿山机械等的液压及输送系统,遍及石油、化工、建筑、造船、汽车、航空等领域,产品出口量约占了 60%,销往世界各地。

和峻公司建立了健全的管理体系,通过了 GB/T 19001 质量管理体系、GB/T 24001 环境管理体系及 GB/T 28001 职业健康安全管理体系认证,管理体系有效运行。

公司从意大利、韩国等国家先后引进了各类先进、精密、高速生产及检测设备 20 多台套,包括钢丝缠绕机、钢丝编织机、在线监视和控制壁厚及外径的生产设备;脉冲试验台、爆破试验台等检测设备。

公司始终贯彻“客户至上,诚信经营,持续创新,追求卓越”的企业方针,努力创建世界一流软管品牌。

WOJUN (Guangzhou) Co., Ltd. is located at TiMan town, Huadu District in Guangzhou City. The company covers an area of one hundred thousand square meters. The total investment is nearly 200 million yuan.

WOJUN company which already has 30 years of experience in manufacturing hydraulic hose. It is a big professional hydraulic hose enterprise. Production capacity is about 8 million standard meters and total value 100 million yuan per year. WOJUN listed in QianHai Equity Trading Center at 2015. The stock code is 666982.

WOJUN company is a large-scale professional rubber hose production enterprises. The company has "WOJUN", "LIEBAO" registered trademark, the company produces rubber hose for nearly 30 years, mainly the production of braided hydraulic hose winding, hydraulic hose and hose assemblies. All kinds of hose products: steel wire braided hydraulic hose, hydraulic pipe winding steel wire, gas pipe, oxygen acetylene tube, oil and gas. The tube body colors are black, blue, red, yellow, tube body appearance is smooth and textured.

Jun and the company's products are widely used in engineering machinery, metallurgical machinery, coal machinery, mining machinery, hydraulic and transport system in the petroleum, chemical, construction, shipbuilding, automobile, aviation and other fields, product exports accounted for about 60%, sold all over the world.

WOJUN the company has established a sound management system, through the ISO 9001 quality management system, environment management system ISO 14001 and OHSAS 28001 occupation health and safety management system certification, the effective operation of the management system.

The company from Italy, South Korea and other countries have introduced all kinds of advanced, precision, high speed production and testing equipment more than and 20 sets, including wire winding machine, wire braiding machine, online monitoring and control of wall thickness and diameter of the production equipment; pulse test bench blasting test and other testing equipment.

Companies always carry out the "customer first, integrity management, continuous innovation, the pursuit of excellence" business policy, and strive to create a world-class brand.

### 管理体系 MANAGEMENT SYSTEM

#### 质量方针

精心制作, 保证产品品质  
诚实守信, 满足客户需求  
持续创新, 争当行业先进

#### 质量目标

产品合格率  $\geq 99\%$   
顾客满意度  $\geq 85\%$

#### 环境管理 方针

遵守法规, 预防污染  
节能降耗, 持续改进

#### 环境管理 目标

固体废物分类回收率 100%  
三废处理达标率 100%

#### 职业健康 安全方针

遵守法律法规, 持续提升改进  
减少职业伤害, 降低安全风险

#### 职业健康 安全目标

重大安全事故年发生率 0  
职业病发生人数 0



### 证书 CERTIFICATES



挤出  
EXTRUDING MACHINE



缠绕  
SPIRAL MACHINE



包布  
WRAPPING MACHINE



检验  
IMPULSE TESTING MACHINE



## 产品代号编码对照表

产品代号	产品名称	特征	页码
<b>钢丝缠绕软管系列 STEEL WIRE SPIRAL SERIES</b>			
<b>ES61</b>	4SP 四层钢丝缠绕中压液压软管 4SP STEEL WIRE SPIRAL MEDIUM PRESSURE HOSE	EN 856 4SP	09
<b>ES62</b>	4SH 四层钢丝缠绕高压液压软管 4SH STEEL WIRE SPIRAL EXTRA HIGH PRESSURE HOSE	EN 856 4SH	09
<b>RS12</b>	R12 四层钢丝缠绕液压软管 R12 STEEL WIRE SPIRAL MEDIUM PRESSURE HOSE	SAE 100R12	10
<b>RS13</b>	R13 多层钢丝缠绕高压液压软管 R13 HEAVY DUTY, HIGH IMPULSE, MULTIPLE SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE	SAE 100R13	10
<b>RS15</b>	R15 多层钢丝缠绕超高压液压软管 R15 HEAVY DUTY, HIGH IMPULSE, MULTIPLE SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE	SAE 100R15	11
<b>HS01</b>	钢丝缠绕液压软管 STEEL WIRE SPIRAL HYDRAULIC HOSE	Q/HJJG 02	12
<b>钢丝编织软管系列 STEEL WIRE BRAIDED SERIES</b>			
<b>EB71</b>	1SC 紧凑型一层钢丝编织液压软管 1SC COMPACT TYPE A SINGLE STEEL WIRE BRAIDED HYDRAULIC HOSE	EN 857 1SC	13
<b>EB72</b>	2SC 紧凑型二层钢丝编织液压软管 2SC COMPACT TYPE TWO STEEL WIRE BRAIDED HYDRAULIC HOSE	EN 857 2SC	13
<b>EB31</b>	一层钢丝编织液压软管 A SINGLE STEEL WIRE BRAIDED HYDRAULIC HOSE	EN 853 1SN/1ST、 SAE 100R1	14
<b>EB32</b>	二层钢丝编织液压软管 TWO STEEL WIRE BRAIDED HYDRAULIC HOSE	EN 853 2SN/2ST、 SAE 100R2	15
<b>RB16</b>	R16 紧凑型钢丝增强液压软管 R16 COMPACT TYPE STEEL WIRE BRAIDED HYDRAULIC HOSE	SAE 100R16	16
<b>RB17</b>	R17 紧凑型钢丝增强液压软管 R17 COMPACT TYPE 21MPa STEEL WIRE BRAIDED HYDRAULIC HOSE	SAE 100R17	16
<b>HB02</b>	钢丝编织液压软管 STEEL WIRE BRAIDED HYDRAULIC HOSE	Q/HJJG 01	17
<b>HB04</b>	钢丝编织蒸汽软管 STEEL WIRE BRAIDED STEAM HOSE	HG/T 3036	19
<b>HB05</b>	加油机软管 REFUEL HOSE	HG/T 3037	20
<b>HB13</b>	钢丝编织液动软管 STEEL WIRE BRAIDED HYDRAULIC BRAKING HOSE	DOT/3、DOT/4	20
<b>HB07</b>	钢丝编织热水软管 STEEL WIRE BRAIDED HOT WATER HOSE	热水输送用	21
<b>HB08</b>	钢丝编织空气软管 STEEL WIRE BRAIDED AIR HOSE	空气输送用	22
<b>HB09</b>	钢丝编织喷砂软管 STEEL WIRE BRAIDED SAND BLAST HOSE	HG/T 2192	22

注：有特殊特性的软管，在产品代号后面用代码识别，G 高温、L 低温、H 高压，示例：BF03G，代表高温油气软管。

产品代号	产品名称	特征	页码
<b>纤维增强软管系列 FIBRE SERIES</b>			
<b>EB41</b>	一层织物增强液压软管 FIBER REINFORCED, RUBBER COVERED HYDRAULIC HOSE	EN 854 1TE SAE 100R6	23
<b>EB42</b>	织物增强中压液压软管 DOUBLE FIBER BRAID, RUBBER COVERED HYDRAULIC HOSE	EN 854 2TE SAE 100R3	24
<b>EB43</b>	织物增强高压液压软管 DOUBLE FIBER BRAID, RUBBER COVERED HIGH PRESSURE HOSE	EN 854 3TE	25
<b>RB04</b>	夹钢丝液压吸引软管 WIRE INSERTED HYDRAULIC SUCTION HOSE	SAE 100R4	25
<b>RB05</b>	钢丝编织外覆织物液压软管 SINGLE WIRE BRAID, TEXTILE COVERED HYDRAULIC HOSE	SAE 100R5	26
<b>BF01</b>	纤维输油软管 FIBER REINFORCED, OIL DELIVERY HOSE	石油基介质 输水用	27
<b>BF04</b>	纤维空气软管 FIBER REINFORCED, AIR HOSE	GB/T 1186	27
<b>BF03</b>	油气软管 OIL AND GAS HOSE	高温油气用	29
<b>BF06</b>	乙炔软管 ACETYLENE DELIVERY HOSE	GB/T 2550	29
<b>BF05</b>	氧气软管 OXYGEN DELIVERY HOSE	GB/T 2550	30
<b>BF07</b>	二氧化碳软管 CARBON DIOXIDE DELIVERY HOSE	GB/T 2550	30
<b>矿用软管系列 MINE HOSE SERIES</b>			
<b>RB2</b>	二层钢丝编织液压支架软管 RB2 TWO STEEL WIRE BRAIDED HYDRAULIC SUPPORT HOSE	GB/T 3683 MT/T 98	31
<b>4SH</b>	四层钢丝缠绕高压液压支架软管 4SH FOUR STEEL WIRE WINDING HIGH PRESSURE HYDRAULIC SUPPORT HOSE	GB/T 10544 MT/T 98	31
<b>RB3</b>	三层钢丝编织液压支架软管 RB3 THREE LAYER STEEL WIRE BRAIDED HYDRAULIC SUPPORT HOSE	GB/T 3683 MT/T 98	32
<b>R13</b>	多层钢丝缠绕苛刻条件下高压液压软管 R13 HEAVY DUTY, HIGH IMPULSE, MULTIPLE SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE	GB/T 10544 MT/T 98	32
<b>4SP</b>	四层钢丝缠绕中压液压支架软管 4SP FOUR STEEL WIRE WINDING MEDIUM PRESSURE HYDRAULIC SUPPORT HOSE	GB/T 10544 MT/T 98	33
<b>超柔钢丝增强液压软管系列 SOFE TYPE SERIES</b>			
<b>SS01</b>	超柔钢丝编织液压软管 SOFT TYPE SINGLE WIRE BRAIDED HYDRAULIC HOSE	超柔钢丝 编织管	34
<b>SS04</b>	超柔钢丝缠绕液压软管 SOFT TYPE STEEL WIRE SPIRAL HYDRAULIC HOSE	超柔钢丝 缠绕管	34

## ES61 (EN 856 4SP)

### 4SP 四层钢丝缠绕中压液压软管

4SP STEEL WIRE SPIRAL MEDIUM PRESSURE HOSE



**结构** 软管由耐油合成橡胶内胶层, 四层交替方向的钢丝缠绕层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~+100°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, four spiral plies of steel wire wrapped in alternating directions, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch															
ES61-0604SP	-4	6.3	1/4	6.4	6.8	14.2	15.2	16.6	17.6	50.0	7250	100.0	14500	200.0	29000	5.91	150	0.60
ES61-1004SP	-6	10	3/8	9.5	9.9	17.0	18.0	19.4	20.4	46.0	6670	92.0	13340	184.0	26680	7.09	180	0.74
ES61-1304SP	-8	12.5	1/2	12.7	13.3	19.9	20.9	22.3	23.3	42.5	6163	85.0	12325	170.0	24650	9.06	230	0.88
ES61-1604SP	-10	16	5/8	15.8	16.4	23.5	24.5	25.9	26.9	40.0	5800	80.0	11600	160.0	23200	9.84	250	1.16
ES61-1904SP	-12	19	3/4	18.7	19.3	27.7	28.7	30.1	31.1	38.0	5510	76.0	11020	152.0	22040	11.81	300	1.42
ES61-2504SP	-16	25	1	25.1	25.7	34.8	35.8	37.2	38.2	32.0	4640	64.0	9280	128.0	18560	13.39	340	2.07
ES61-3204SP	-20	31.5	1-1/4	31.6	32.4	45.5	46.5	48.1	49.1	21.0	3045	42.0	6090	84.0	12180	18.11	460	3.00
ES61-3804SP	-24	38	1-1/2	37.7	38.5	51.9	52.9	54.5	55.5	18.5	2680	37.0	5365	74.0	10730	22.05	560	3.49
ES61-5104SP	-32	51	2	50.6	51.5	64.8	65.8	67.4	68.8	17.5	2538	35.0	5075	70.0	10150	25.98	660	3.96

## ES62 (EN 856 4SH)

### 4SH 四层钢丝缠绕高压液压软管

4SH STEEL WIRE SPIRAL EXTRA HIGH PRESSURE HOSE



**结构** 软管由耐油合成橡胶内胶层, 四层交替方向的钢丝缠绕层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~+100°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, four spiral plies of steel wire wrapped in alternating directions, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch															
ES62-1904SH	-12	19	3/4	18.7	19.3	27.9	28.9	30.3	31.3	42.0	6090	84.0	12180	168.0	24360	11.02	280	1.70
ES62-2504SH	-16	25	1	25.1	25.7	34.7	35.7	37.1	38.1	38.0	5510	76.0	11020	152.0	22040	13.39	340	2.50
ES62-3204SH	-20	31.5	1-1/4	31.6	32.4	41.4	42.4	44.0	45.0	32.5	4710	65.0	9425	130.0	18850	18.11	460	3.00
ES62-3804SH	-24	38	1-1/2	37.7	38.5	48.6	49.6	51.2	52.2	29.0	4205	58.0	8410	116.0	16820	22.05	560	3.60
ES62-5104SH	-32	51	2	50.6	51.4	62.7	63.7	65.3	66.7	25.0	3625	50.0	7250	100.0	14500	27.56	700	5.00

## RS12 (SAE 100R12)

### R12 四层钢丝缠绕液压软管

R12 HEAVY DUTY, HIGH IMPULSE, FOUR SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE



**结构** 软管由耐油合成橡胶内胶层, 四层交替方向的钢丝缠绕层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~+121°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, four spiral plies of steel wire wrapped in alternating directions, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +121°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch															
RS12-1004R12	-6	10	3/8	9.5	9.9	16.7	17.7	19.1	20.1	28.0	4060	56.0	8120	112.0	16240	4.92	125	0.70
RS12-1304R12	-8	12.5	1/2	12.7	13.3	20.2	21.2	22.6	23.6	28.0	4060	56.0	8120	112.0	16240	7.09	180	0.83
RS12-1604R12	-10	16	5/8	15.7	16.3	24.1	25.1	26.5	27.5	28.0	4060	56.0	8120	112.0	16240	7.87	200	1.12
RS12-1904R12	-12	19	3/4	18.7	19.3	27.2	28.2	29.6	30.6	28.0	4060	56.0	8120	112.0	16240	9.45	240	1.43
RS12-2504R12	-16	25	1	25.1	25.7	34.4	35.4	36.8	37.8	28.0	4060	56.0	8120	112.0	16240	11.81	300	2.00
RS12-3204R12	-20	31.5	1-1/4	31.6	32.4	43.4	44.4	46.0	47.0	21.0	3045	42.0	6090	84.0	12180	16.54	420	2.80
RS12-3804R12	-24	38	1-1/2	37.7	38.5	49.9	50.9	52.5	53.5	17.5	2540	35.0	5075	70.0	10150	19.69	500	3.40
RS12-5104R12	-32	51	2	50.8	51.4	63.2	64.2	65.8	67.2	17.5	2540	35.0	5075	70.0	10150	25.20	640	4.25

## RS13 (SAE 100R13)

### R13 多层钢丝缠绕高压液压软管

R13 HEAVY DUTY, HIGH IMPULSE, MULTIPLE SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE



**结构** 软管由耐油合成橡胶内胶层, 多层交替方向的粗钢丝缠绕层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~+121°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, multiple spiral plies of heavy steel wire wrapped in alternating directions, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +121°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch															
RS13-1904R13	-12	19	3/4	18.7	19.3	28.5	29.5	29.9	31.9	35.0	5075	70.0	10150	140.0	20300	9.45	240	2.10
RS13-2504R13	-16	25	1	25.1	25.7	35.2	36.2	37.6	38.6	35.0	5075	70.0	10150	140.0	20300	11.81	300	2.88
RS13-3206R13	-20	31.5	1-1/4	31.6	32.4	46.3	47.3	48.9	49.9	35.0	5075	70.0	10150	140.0	20300	16.54	420	4.20
RS13-3806R13	-24	38	1-1/2	37.7	38.5	53.8	54.8	56.4	57.4	35.0	5075	70.0	10150	140.0	20300	19.69	500	5.00
RS13-5106R13	-32	51	2	50.6	51.5	67.6	68.6	70.2	71.6	35.0	5075	70.0	10150	140.0	20300	25.20	640	7.00

## RS15(SAE 100 R15)

### R15 多层钢丝缠绕超高压液压软管

R15 HEAVY DUTY, HIGH IMPULSE, MULTIPLE SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 多层交替方向的粗钢丝缠绕层和耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~+121°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, multiple spiral plies of heavy steel wire wrapped in alternating directions, and an oil and weather resistant synthetic rubber cover. A ply or braid of suitable material may be used over or within the inner tube and/or over the wire reinforcement to anchor the synthetic rubber to the wire.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +121°C.



型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	mm	mm	mm	mm	mm	mm	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
RS15-1004R15	-6	10	3/8	9.5	9.9	17.0	18.0	19.4	20.4	42.0	6090	84.0	12180	168.0	24360	5.91	150	0.80
RS15-1304R15	-8	12.5	1/2	12.7	13.3	21.6	22.6	24.0	25.0	42.0	6090	84.0	12180	168.0	24360	7.87	200	0.95
RS15-1904R15	-12	19	3/4	18.7	19.3	30.2	31.2	32.9	33.6	42.0	6090	84.0	12180	168.0	24360	10.40	265	1.85
RS15-2504R15	-16	25	1	25.1	25.7	35.5	36.5	37.9	38.9	42.0	6090	84.0	12180	168.0	24360	13.00	330	2.90
RS15-3206R15	-20	31.5	1-1/4	31.6	32.4	47.1	48.1	49.7	50.7	42.0	6090	84.0	12180	168.0	24360	17.52	445	4.20
RS15-3806R15	-24	38	1-1/2	37.7	38.5	53.9	54.9	56.5	57.5	42.0	6090	84.0	12180	168.0	24360	20.87	530	5.60

## HS01(Q/HJJG 02)

### 钢丝缠绕液压软管

STEEL WIRE SPIRAL HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 四层或六层交替方向的柔软的钢丝缠绕层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送液压油, 如醇、液压油、燃油、润滑油、乳化液、烃等。温度范围为 -40°C~+120°C。

#### CONSTRUCTION

This hose consist of an inner tube of oil synthetic rubber, four or six spirals wire reinforcement and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

Hose range suitable to carry hydraulic fluids such as glycol, mineral oils, fuels, lubrication, emulsion, hydrocarbons etc. Working temperature range is within -40°C ~ +100°C. Available in black with either corrugated or smooth finish.



型号 TYPE	公称内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
	mm	inch	mm	mm	mm	mm	MPa	MPa	MPa	MPa	MPa	MPa	mm	mm	kg/m
HS01-0604	6.3±0.2	1/4	14.4±0.5	17.4±0.5	52.0	100.0	104.0	115.0	210.0	210.0	130	0.65			
HS01-0804	8.3±0.2	5/16	16.4±0.5	19.4±0.5	45.0	80.0	90.0	104.0	180.0	210.0	145	0.85			
HS01-1004	10.0±0.2	3/8	19.3±0.5	22.3±0.5	44.5	70.0	89.0	105.0	178.0	210.0	160	1.03			
HS01-1304	13.0±0.3	1/2	22.2±0.5	25.2±0.5	43.0	60.0	86.0	90.0	172.0	180.0	210	1.21			
HS01-1604	16.0±0.3	5/8	26.0±0.5	29.0±0.5	40.0	55.0	80.0	83.0	160.0	165.0	260	1.72			
HS01-1904	19.0±0.3	3/4	30.0±0.5	33.0±0.5	35.0	46.0	70.0	69.0	140.0	140.0	280	2.00			
HS01-2204	22.0±0.3	7/8	33.0±0.5	36.0±0.5	31.0	41.0	62.0	62.0	124.0	124.0	320	2.11			
HS01-2504	25.0±0.3	1	36.0±0.5	39.0±0.5	28.0	35.0	56.0	53.0	112.0	112.0	360	2.47			
HS01-3204	32.0±0.4	1-1/4	44.0±0.5	47.0±0.5	21.0	32.0	42.0	48.0	84.0	96.0	460	3.12			
HS01-3204A	32.0±0.4	1-1/4	44.0±0.5	47.0±0.5	-	38.0	-	57.0	-	114.0	460	3.12			
HS01-3804	38.0±0.4	1-1/2	50.8±0.5	53.8±0.5	17.5	25.0	35.0	38.0	70.0	75.0	560	4.31			
HS01-4504	45.0±0.4	1-3/4	57.8±0.5	61.0±0.6	16.0	21.0	32.0	32.0	64.0	64.0	640	5.08			
HS01-5104	51.0±0.4	2	63.8±0.6	66.9±0.7	17.5	23.0	35.0	35.0	70.0	70.0	720	5.51			

型号 TYPE	公称内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
	mm	inch	mm	mm	mm	mm	MPa	MPa	MPa	MPa	MPa	MPa	mm	mm	kg/m
HS01-0606	6.3±0.2	1/4	16.6±0.5	19.6±0.5	57.0	110.0	114.0	116.0	230.0	231.0	130	0.95			
HS01-1006	10.0±0.2	3/8	21.8±0.5	24.8±0.5	-	77.0	-	116.0	-	231.0	160	1.48			
HS01-1306	13.0±0.3	1/2	24.8±0.5	27.8±0.5	51.0	68.0	102.0	102.0	204.0	204.0	210	1.75			
HS01-1606	16.0±0.3	5/8	29.0±0.5	32.0±0.5	54.0	72.0	108.0	108.0	216.0	216.0	260	2.02			
HS01-1906	19.0±0.3	3/4	33.0±0.5	36.0±0.5	45.0	60.0	90.0	90.0	180.0	180.0	280	2.49			
HS01-2206	22.0±0.3	7/8	36.0±0.5	39.0±0.5	40.0	53.0	80.0	80.0	160.0	160.0	320	2.61			
HS01-2506	25.0±0.3	1	39.0±0.5	42.0±0.5	38.0	50.0	76.0	75.0	152.0	152.0	360	2.82			
HS01-3206	32.0±0.4	1-1/4	47.0±0.5	50.0±0.5	31.0	41.0	62.0	62.0	124.0	124.0	460	3.79			
HS01-3806	38.0±0.4	1-1/2	53.8±0.5	56.8±0.5	27.0	36.0	54.0	54.0	108.0	108.0	560	5.76			
HS01-4506	45.0±0.4	1-3/4	60.8±0.6	64.0±0.6	24.0	32.0	48.0	48.0	96.0	96.0	640	6.60			
HS01-5106	51.0±0.4	2	67.2±0.6	70.4±0.7	24.0	32.0	48.0	48.0	96.0	96.0	720	7.13			



**EB71 (EN 857 1SC)**

**1SC 紧凑型一层钢丝编织液压软管**

1SC COMPACT TYPE A SINGLE WIRE BRAIDED HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 一层钢丝编织增强层和耐油耐候合成橡胶外层组成, 外观有黑色光面或布纹。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液及水等的液压系统, 温度范围为 -40°C ~ +100°C。

**CONSTRUCTION**

This hose shall consist of an inner tube of oil resistant synthetic rubber, a single steel wire braid reinforcement, and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m						
EB71-0601SC	-4	6.3	1/4	6.5	6.9	10.0	10.8	12.6	13.4	22.5	3260	45.0	6525	90.0	13050	2.95	75	0.24
EB71-0801SC	-5	8	5/16	8.0	8.5	11.2	12.0	13.6	14.4	21.5	3120	43.0	6235	86.0	12470	3.35	85	0.26
EB71-1001SC	-6	10	3/8	9.5	10.0	13.1	13.9	15.5	16.5	18.0	2610	36.0	5220	72.0	10440	3.54	90	0.29
EB71-1301SC	-8	12.5	1/2	12.5	13.0	16.6	17.4	18.9	19.9	16.0	2320	32.0	4640	64.0	9280	5.12	130	0.39
EB71-1601SC	-10	16	5/8	15.8	16.5	19.9	20.9	22.1	23.1	13.0	1885	26.0	3770	52.0	7540	5.91	150	0.47
EB71-1901SC	-12	19	3/4	19.0	19.7	23.3	24.3	25.5	26.5	10.5	1520	21.0	3045	42.0	6090	7.09	180	0.55
EB71-2501SC	-16	25	1	21.8	22.6	30.8	31.8	33.1	34.3	8.8	1280	17.6	2550	35.2	5100	9.06	230	0.84

**EB72 (EN 857 2SC)**

**2SC 紧凑型二层钢丝编织液压软管**

2SC COMPACT TYPE TWO WIRE BRAIDED HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 二层钢丝编织增强层和耐油耐候合成橡胶外层组成, 外观有黑色光面或布纹。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C ~ +100°C。

**CONSTRUCTION**

This hose shall consist of an inner tube of oil resistant synthetic rubber, two braids of steel wire reinforcement, and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	MPa	psi	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m				
EB72-0602SC	-4	6.3	1/4	6.5	6.9	11.0	11.8	13.0	13.8	40.0	5800	80.0	11600	160.0	23200	2.95	75	0.30
EB72-0802SC	-5	8	5/16	8.0	8.5	12.6	13.4	14.6	15.4	35.0	5075	70.0	10150	140.0	20300	3.35	85	0.34
EB72-1002SC	-6	10	3/8	9.5	10.0	14.8	15.6	16.7	17.7	33.0	4785	66.0	9570	132.0	19140	3.54	90	0.42
EB72-1302SC	-8	12.5	1/2	12.5	13.0	18.3	19.1	20.2	21.2	27.5	3990	55.0	7975	110.0	15950	5.12	130	0.54
EB72-1602SC	-10	16	5/8	15.8	16.5	21.5	22.3	23.5	24.5	25.0	3625	50.0	7250	100.0	14500	6.69	170	0.68
EB72-1902SC	-12	19	3/4	19.0	19.7	25.0	26.0	27.2	28.2	21.5	3120	43.0	6235	86.0	12470	7.87	200	0.80
EB72-2502SC	-16	25	1	21.8	22.6	32.8	33.8	35.2	36.4	16.5	2390	33.0	4785	66.0	9570	9.84	250	1.15

**EB31 (EN853 1SN/1ST, SAE 100R1)**

**一层钢丝编织液压软管**

A SINGLE STEEL WIRE BRAIDED HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 一层钢丝编织增强层和耐油耐候合成橡胶外层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C ~ +100°C (G 型 135°C)。

**CONSTRUCTION**

This hose shall consist of an inner tube of oil resistant synthetic rubber, a single steel wire braid reinforcement, and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C (G type 135°C).

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.				最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	1ST 型		1SN/R1ATS 型		MPa	psi	MPa	psi	MPa	psi	inch	mm	
	MPa	psi	MPa					psi	MPa	psi	inch									
EB31-0501	-3	5	3/16	5.0	5.3	9.1	9.9	12.3	13.1	11.1	11.9	25.0	3625	50.0	7250	100.0	14500	3.54	90	0.20
EB31-0601	-4	6.3	1/4	6.5	6.9	10.8	11.6	15.4	16.4	12.7	13.7	22.5	3260	45.0	6525	90.0	13050	3.94	100	0.25
EB31-0801	-5	8	5/16	8.0	8.5	12.3	13.1	17.0	18.0	14.3	15.3	21.5	3120	43.0	6235	85.0	12325	4.53	115	0.31
EB31-1001	-6	10	3/8	9.5	10.0	14.7	15.5	19.3	20.3	16.6	17.6	18.0	2610	36.0	5220	72.0	10440	5.12	130	0.36
EB31-1301	-8	12.5	1/2	12.5	13.0	17.8	18.6	22.5	23.5	19.7	20.7	16.0	2320	32.0	4640	64.0	9280	7.09	180	0.45
EB31-1601	-10	16	5/8	15.8	16.5	20.8	21.8	25.6	26.8	22.7	23.9	13.0	1885	26.0	3770	52.0	7540	7.87	200	0.52
EB31-1901	-12	19	3/4	19.0	19.7	24.4	25.6	29.6	30.8	26.8	28.0	10.5	1520	21.0	3045	42.0	6090	9.45	240	0.65
EB31-2201	-14	22	7/8	21.8	22.6	27.2	28.4	32.0	33.2	29.6	30.8	10.0	1450	20.0	2900	40.0	5800	11.2	280	0.70
EB31-2501	-16	25	1	25.0	25.8	32.3	33.3	37.5	38.7	34.6	35.8	8.8	1280	17.5	2540	35.0	5075	11.81	300	0.91
EB31-3201	-20	31.5	1-1/4	32.0	32.8	39.4	40.6	45.4	46.6	42.0	43.2	6.3	910	13.0	2175	25.0	3625	16.54	420	1.30
EB31-3801	-24	38	1-1/2	38.0	39.0	45.6	46.8	51.8	53.0	48.9	50.1	5.0	725	10.0	1450	20.0	2900	19.69	500	1.70
EB31-5101	-32	51	2	51.0	52.0	58.9	60.5	65.9	67.5	62.9	64.5	4.0	580	8.0	1160	16.0	2320	24.80	630	2.00
EB31-6301	-40	63	2-1/2	64.0	65.0	72.8	74.4	-	-	76.8	78.4	2.5	362	5.0	725	10.0	1450	29.92	760	2.50
EB31-7601	-48	76	3	76.0	77.0	86.0	87.6	-	-	90.8	92.4	2.0	290	4.0	580	8.0	1160	35.4	900	3.33
EB31-8901	-56	89	3-1/2	89.0	90.0	98.6	100.6	-	-	103.2	105.2	2.0	290	4.0	580	8.0	1160	43.3	1100	4.28
EB31-10201	-64	102	4	102.0	103.0	117.2	119.2	-	-	117.0	119.4	1.8	260	3.6	520	7.2	1045	51.2	1300	5.03

注: 1SN/R1ATS 型 在型号后加 SN, 示例: EB31-0501SN。 1ST 型 在型号后加 ST, 示例: EB31-10201ST。



## EB32 (EN853 2SN/2ST, SAE 100R2)

### 二层钢丝编织液压软管

TWO WIRE BRAIDED HYDRAULIC HOSE



**结构** 软管由耐油合成橡胶内胶层, 二层钢丝编织增强层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C ~ +100°C (G 型 135°C)。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, two braids of steel wire reinforcement, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C (G type 135°C).

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.				最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				Dash	mm	inch	最小 Min	最大 Max	最小 Min	最大 Max	2ST 型		2SN/R2ATS 型		MPa	psi	MPa	psi	MPa	
	最小 Min	最大 Max	最小 Min								最大 Max									
EB32-0502	-3	5	3/16	5.0	5.3	10.8	11.6	15.4	16.3	12.8	13.6	41.5	6020	83.0	12035	165.0	23925	3.54	90	0.32
EB32-0602	-4	6.3	1/4	6.5	6.9	12.2	13.2	17.0	18.0	14.4	15.4	40.0	5800	80.0	11600	160.0	23200	3.94	100	0.36
EB32-0802	-5	8	5/16	8.0	8.5	13.8	14.8	18.2	19.2	15.9	16.9	35.0	5075	70.0	10150	140.0	20300	4.53	115	0.45
EB32-1002	-6	10	3/8	9.5	10.0	16.2	17.2	20.9	21.9	18.2	19.2	33.0	4785	66.0	9570	132.0	19140	5.12	130	0.54
EB32-1302	-8	12.5	1/2	12.5	13.0	19.3	20.3	24.1	25.1	21.3	22.3	27.5	3990	55.0	7975	110.0	15950	7.09	180	0.68
EB32-1602	-10	16	5/8	15.8	16.5	22.4	23.6	27.2	28.4	24.5	25.7	25.0	3625	50.0	7250	100.0	14500	7.87	200	0.80
EB32-1902	-12	19	3/4	19.0	19.7	26.2	27.4	31.2	32.4	28.4	29.6	21.5	3120	43.0	6235	86.0	12470	9.45	240	0.94
EB32-2202	-14	22	7/8	21.8	22.6	29.0	30.2	33.8	35.0	31.4	32.6	17.5	2537	35.0	5075	70.0	10150	11.02	280	1.04
EB32-2502	-16	25	1	25.0	25.8	34.0	35.2	39.1	40.3	36.4	37.6	16.5	2390	32.5	4710	65.0	9425	11.81	300	1.35
EB32-3202	-20	31.5	1-1/4	32.0	32.8	43.2	44.4	50.2	51.4	45.8	47.0	12.5	1810	25.0	3625	50.0	7250	16.54	420	2.15
EB32-3802	-24	38	1-1/2	38.0	39.0	49.5	50.7	56.6	57.8	52.5	53.7	9.0	1305	18.0	2610	36.0	5220	19.69	500	2.65
EB32-5102	-32	51	2	51.0	52.0	62.1	63.7	69.0	70.6	65.1	66.7	8.0	1160	16.0	2320	32.0	4640	24.80	630	3.42
EB32-6302	-40	63	2-1/2	64.0	65.0	74.8	77.4	-	-	78.8	80.4	7.0	1015	14.0	2030	28.0	4060	29.92	760	4.20
EB32-7602	-48	76	3	76.0	77.0	77.8	89.4	-	-	93.8	95.4	4.0	580	8.0	1160	16.0	2320	35.4	900	4.38
EB32-8902	-56	89	3-1/2	89.0	90.0	100.4	102.4	-	-	105	107	4.5	655	9.0	1305	18.0	2610	43.3	1100	5.68
EB32-10202	-64	102	4	102.0	103.0	114.0	116.0	-	-	119	121	3.5	510	7.0	1015	14.0	2030	51.2	1300	6.45

注: 2SN/R2ATS 型 在型号后加 SN, 示例: EB32-0502SN。 2ST 型 在型号后加 ST, 示例: EB32-10202ST。

## RB16 (SAE 100R16)

### R16 紧凑型钢丝增强液压软管

R16 COMPACT TYPE WIRE BRAIDED HYDRAULIC HOSE



**结构** 软管由耐油合成橡胶内胶层, 一层或二层编织的钢丝增强层和耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C ~ +100°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, steel wire reinforcement according to hose design (one or two braids), and an oil and weather resistant synthetic rubber cover. A ply or braid of suitable material may be used over the inner tube and/or over the wire reinforcement to anchor the synthetic rubber to the wire.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				Dash	mm	inch	最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	
	最小 Min	最大 Max																
RB16-06R16	-4	6.3	1/4	6.5	6.9	11.4	12.3	13.3	14.3	40.0	5800	80.0	11600	160.0	23200	1.97	50	0.23
RB16-08R16	-5	8	5/16	8.0	8.5	12.5	13.3	14.5	15.5	35.0	5075	70.0	10150	140.0	20300	2.17	55	0.25
RB16-10R16	-6	10	3/8	9.5	10.0	15.1	15.9	17.1	18.1	33.0	4785	66.0	9570	132.0	19140	2.56	65	0.34
RB16-13R16	-8	12.5	1/2	12.5	13.0	18.2	19.0	20.3	21.3	27.5	3990	55.0	7975	110.0	15950	3.54	90	0.42
RB16-16R16	-10	16	5/8	15.8	16.5	21.6	22.6	23.6	24.8	25.0	3625	50.0	7250	100.0	14500	3.94	100	0.70
RB16-19R16	-12	19	3/4	19.0	19.7	25.3	26.3	27.6	28.8	21.5	3120	43.0	6235	86.0	12470	4.72	120	0.87
RB16-25R16	-16	25	1	21.8	22.6	32.4	33.6	34.6	35.8	16.5	2390	33.0	4785	66.0	9570	5.91	150	1.22
RB16-32R16	-20	31.5	1-1/4	32.0	32.8	40.4	41.6	42.6	43.8	12.5	1813	25.0	3625	50.0	7250	8.27	210	1.54

## RB17 (SAE 100R17)

### R17 紧凑型钢丝增强液压软管

R17 COMPACT TYPE 21MPa WIRE BRAIDED HYDRAULIC HOSE



**结构** 软管由耐油合成橡胶内胶层, 一层或二层编织的钢丝增强层和耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C ~ +100°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, steel wire reinforcement according to hose design (one or two braids), and an oil and weather resistant synthetic rubber cover. A ply or braid of suitable material may be used over the inner tube and/or over the wire reinforcement to anchor the synthetic rubber to the wire.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				Dash	mm	inch	最小 Min	最大 Max	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	
	最小 Min	最大 Max																
RB17-06R17	-4	6.3	1/4	6.5	6.9	9.9	10.7	12.3	13.1	21.0	3045	42.0	6090	84.0	12180	1.97	50	0.17
RB17-08R17	-5	8	5/16	8.0	8.5	12.1	12.9	14.0	15.0	21.0	3045	42.0	6090	84.0	12180	2.17	55	0.21
RB17-10R17	-6	10	3/8	9.5	10.0	13.8	14.6	16.0	17.0	21.0	3045	42.0	6090	84.0	12180	2.56	65	0.25
RB17-13R17	-8	12.5	1/2	12.5	13.0	17.0	17.8	19.9	20.9	21.0	3045	42.0	6090	84.0	12180	3.54	90	0.47
RB17-16R17	-10	16	5/8	15.8	16.5	22.5	23.5	24.6	25.8	21.0	3045	42.0	6090	84.0	12180	3.94	100	0.59
RB17-19R17	-12	19	3/4	19.0	19.7	25.5	26.5	28.4	29.6	21.0	3045	42.0	6090	84.0	12180	4.72	120	0.75
RB17-25R17	-16	25	1	21.8	22.6	34.6	35.6	37.2	38.4	21.0	3045	42.0	6090	84.0	12180	5.91	150	1.46

**HB02(Q/HJJG 01)**
**钢丝编织液压软管**

STEEL WIRE BRAIDED HYDRAULIC HOSE



**结构** 软管由耐油的合成胶内胶层、一层至三层的高强度镀铜钢丝编织层和耐候的合成胶外胶层组成。

**应用** 适用于煤矿液压支架、综合采煤机组等液压系统输送矿物油、水基液压油或水, 温度范围为 -40°C ~ +100°C。

**CONSTRUCTION**

This hose consist of an inner tube of oil resistant synthetic rubber, one or multi-wire braids reinforcement and weather resistant synthetic rubber cover.

**APPLICATIONS**

For delivery of water, mineral oil or water-based hydraulic oil in the hydraulic system of hydraulic fraines. Combined cool acttings in coal mine. Working temperature rangs is within -40°C ~ +100°C .

型号 TYPE	公称内径 I.D		增强层直径 W.D	外径 O.D	工作压力 W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R	参考重量 W.T
	mm	inch	mm	mm	MPa	psi	MPa	psi	MPa	psi	mm	kg/m
	HB02-0501	5.3±0.2	3/16	9.5±0.4	11.8±0.4	21.0	3045	26.3	3814	52.5	7613	90
HB02-0601	6.3±0.2	1/4	11.6±0.4	13.9±0.5	32.0	4640	40.0	5800	80.0	11600	100	0.26
HB02-0801	8.3±0.2	5/16	13.6±0.4	15.9±0.5	28.0	4060	35.0	5075	70.0	10150	115	0.30
HB02-1001	10.0±0.2	3/8	15.6±0.4	18.0±0.5	25.6	3712	32.0	4640	64.0	9280	130	0.37
HB02-1301	13.0±0.2	1/2	19.4±0.4	22.1±0.5	22.4	3248	28.0	4060	56.0	8120	180	0.52
HB02-1601	16.2±0.3	5/8	22.5±0.5	25.2±0.5	16.8	2436	21.0	3045	42.0	6090	205	0.61
HB02-1901	19.2±0.3	3/4	25.5±0.5	28.1±0.6	14.4	2088	18.0	2610	36.0	5220	240	0.70
HB02-2201	22.2±0.3	7/8	28.5±0.5	31.2±0.6	12.8	1856	16.0	2320	32.0	4640	280	0.78
HB02-2501	25.2±0.3	1	32.0±0.5	34.6±0.6	11.2	1624	14.0	2030	28.0	4060	300	0.92
HB02-3201	32.3±0.4	1-1/4	39.0±0.5	42.7±0.6	9.0	1305	11.3	1639	22.5	3263	420	1.17
HB02-3801	38.3±0.4	1-1/2	45.5±0.5	49.2±0.6	7.0	1015	8.8	1276	17.5	2538	500	1.43
HB02-4501	45.5±0.4	1-3/4	52.5±0.6	56.1±0.6	5.0	725	7.5	1088	15.0	2175	550	1.58
HB02-5101	51.5±0.4	2	58.5±0.8	62.3±0.8	4.0	580	6.0	870	12.0	1740	630	1.74
HB02-6401	64.5±0.5	2-1/2	72.0±0.8	76.0±0.8	3.5	508	5.3	769	10.5	1523	800	2.25
HB02-7601	76.5±0.5	3	84.0±0.8	88.5±0.8	3.0	435	4.5	653	9.0	1305	950	2.75
HB02-8901	89.5±0.5	3-1/2	97.5±1.0	103.5±1.0	2.5	363	3.8	551	7.5	1088	1100	3.76
HB02-10201	102.5±0.5	4	112.5±1.0	118.5±1.0	2.0	290	3.0	435	6.0	870	1300	4.72
HB02-0502	5.3±0.2	3/16	11.2±0.4	14.9±0.4	60.0	8700	75.0	10875	150.0	21750	90	0.36
HB02-0602	6.3±0.2	1/4	13.4±0.4	15.6±0.5	56.0	8120	70.0	10150	140.0	20300	100	0.39
HB02-0602II	6.3±0.2	1/4	13.4±0.4	15.6±0.5	60.0	8700	75.0	10875	150.0	21750	100	0.39
HB02-0802	8.3±0.2	5/16	15.4±0.4	17.9±0.5	48.0	6960	60.0	8700	120.0	17400	115	0.46
HB02-0802II	8.3±0.2	5/16	15.4±0.4	17.9±0.5	60.0	8700	75.0	10875	150.0	21750	130	0.46
HB02-1002	10.0±0.2	3/8	17.4±0.4	19.9±0.5	40.0	5800	50.0	7250	100.0	14500	130	0.58

型号 TYPE	公称内径 I.D		增强层直径 W.D	外径 O.D	工作压力 W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R	参考重量 W.T
	mm	inch	mm	mm	MPa	psi	MPa	psi	MPa	psi	mm	kg/m
	HB02-1002II	10.0±0.2	3/8	17.4±0.4	19.9±0.5	53.0	7685	66.3	9614	132.5	19213	130
HB02-1302	13.0±0.2	1/2	21.1±0.4	23.7±0.5	36.0	5220	45.0	6525	90.0	13050	180	0.75
HB02-1602	16.2±0.3	5/8	24.2±0.5	26.6±0.5	32.0	4640	40.0	5800	80.0	11600	205	0.89
HB02-1602II	16.2±0.5	5/8	24.2±0.5	26.6±0.5	34.0	4930	42.5	6163	85.0	12325	205	0.89
HB02-1902	19.2±0.3	3/4	27.2±0.5	29.9±0.6	25.0	3625	31.3	4539	62.5	9063	240	1.06
HB02-1902II	19.2±0.3	3/4	27.2±0.5	29.9±0.6	34.0	4930	42.5	6163	85.0	12325	240	1.06
HB02-2202	22.2±0.3	7/8	30.2±0.5	33.1±0.6	22.0	3190	27.5	3988	55.0	7975	280	1.14
HB02-2502	25.2±0.3	1	33.7±0.5	37.0±0.6	21.0	3045	26.3	3814	52.5	7613	300	1.34
HB02-3202	32.3±0.4	1-1/4	40.7±0.5	44.5±0.6	17.0	2465	21.3	3089	42.5	6163	420	1.71
HB02-3802	38.3±0.4	1-1/2	47.0±0.5	50.6±0.6	12.0	1740	15.0	2175	30.0	4350	500	1.95
HB02-4502	45.5±0.4	1-3/4	54.0±0.6	57.6±0.6	9.0	1305	13.5	1958	27.0	3915	550	2.12
HB02-5102	51.5±0.4	2	60.0±0.8	63.8±0.8	8.0	1160	12.0	1740	24.0	3480	630	2.28
HB02-6402	64.5±0.5	2-1/2	73.5±0.8	77.5±0.8	5.0	725	7.5	1088	15.0	2175	800	2.98
HB02-7602	76.5±0.5	3	86.0±0.8	90.5±0.8	6.0	870	9.0	1305	18.0	2610	950	3.50
HB02-8902	89.5±0.5	3-1/2	99.5±1.0	105.5±1.0	5.0	725	7.5	1088	15.0	2175	1100	4.72
HB02-10202	102.5±0.5	4	114.0±1.0	120.0±1.0	4.0	580	6.0	870	12.0	1740	1300	5.67
HB02-0503	5.3±0.2	3/16	13.2±0.4	16.9±0.4	72.0	10440	90.0	13050	180.0	26100	90	0.55
HB02-0603	6.3±0.2	1/4	15.0±0.4	17.9±0.5	68.0	9860	85.0	12325	170.0	24650	100	0.62
HB02-0803	8.3±0.2	5/16	17.0±0.4	20.6±0.5	50.0	7250	62.5	9063	125.0	18125	115	0.68
HB02-1003	10.0±0.2	3/8	19.0±0.4	22.6±0.5	45.0	6525	56.3	8164	112.5	16313	130	0.84
HB02-1303	13.0±0.2	1/2	23.0±0.4	26.6±0.5	40.0	5800	50.0	7250	100.0	14500	180	1.09
HB02-1603	16.2±0.2	5/8	26.0±0.5	29.6±0.5	35.0	5075	43.8	6351	87.5	12688	205	1.28
HB02-1903	19.2±0.3	3/4	29.0±0.5	32.6±0.6	28.0	4060	35.0	5075	70.0	10150	240	1.43
HB02-2203	22.2±0.3	7/8	32.0±0.5	34.9±0.6	25.0	3625	31.3	4539	62.5	9063	280	1.52
HB02-2503	25.2±0.3	1	35.0±0.5	38.8±0.6	24.0	3480	30.0	4350	60.0	8700	300	1.75
HB02-3203	32.2±0.4	1-1/4	42.5±0.6	46.6±0.6	19.0	2755	23.8	3451	47.5	6888	420	2.25
HB02-3803	38.3±0.4	1-1/2	48.4±0.6	52.5±0.6	15.0	2175	18.8	2726	37.5	5438	500	2.58
HB02-4503	45.5±0.4	1-3/4	55.5±0.6	59.5±0.6	12.0	1740	18.0	2610	36.0	5220	550	2.75
HB02-5103	51.5±0.4	2	61.5±0.8	65.5±0.8	10.0	1450	15.0	2175	30.0	4350	630	2.91
HB02-6403	64.5±0.5	2-1/2	75.0±0.8	79.0±0.8	9.0	1305	13.5	1958	27.0	3915	800	3.62
HB02-7603	76.5±0.5	3	87.7±0.8	91.5±0.8	8.0	1160	12.0	1740	24.0	3480	950	4.18
HB02-8903	89.5±0.5	3-1/2	101.5±1.0	107.0±1.0	7.0	1015	10.5	1523	21.0	3045	1100	5.68
HB02-10203	102.5±0.5	4	116.0±1.0	123.0±1.0	6.0	870	9.0	1305	18.0	2610	1300	7.13

## HB04(HG/T 3036)

### 钢丝编织蒸汽软管

STEEL WIRE BRAIDED STEAM HOSE



**结构** 软管由耐油的内胶层、一层钢丝编织的增强层和耐候的外胶层组成。

**应用** 1型为低压蒸汽软管, 最大工作压力0.6MPa, 对应温度为164°C; 2型为高压蒸汽软管, 最大工作压力1.8MPa, 对应温度为210°C。适用于输送饱和蒸汽及热冷凝水。

#### CONSTRUCTION

This hose consist of an inner tube of oil resistant synthetic rubber, one wire braid reinforcement and weather resistant synthetic rubber cover.

#### APPLICATIONS

For conveying saturated steam and heated condensate water. Type1 for LOW pressure 0.6Mpa with temperature 164°C. Type2 for HIGH pressure 1.8Mpa with temperature 210°C.

型号 TYPE	公称内径 I.D		增强层直径 W.D	外径 O.D	最大工作压力 max W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R	参考重量 W.T
	mm	inch	mm	mm	MPa	psi	MPa	psi	MPa	psi	mm	kg/m
	HB04-1001	9.5±0.5	3/8	16.1	20.0	0.6	87	3.0	435	6.0	870	150
HB04-1301	13±0.7	1/2	20.5	24.5	0.6	87	3.0	435	6.0	870	200	0.58
HB04-1601	16±0.7	5/8	23.5	27.5	0.6	87	3.0	435	6.0	870	240	0.66
HB04-1901	19±0.7	3/4	26.6	30.5	0.6	87	3.0	435	6.0	870	290	0.80
HB04-2201	22±0.7	7/8	29.5	33.5	0.6	87	3.0	435	6.0	870	330	0.84
HB04-2501	25±1.0	1	33.0	37.0	0.6	87	3.0	435	6.0	870	380	1.00
HB04-3201	32±1.0	1-1/4	40.0	44.0	0.6	87	3.0	435	6.0	870	480	1.27
HB04-3801	38±1.0	1-1/2	46.4	50.5	0.6	87	3.0	435	6.0	870	570	1.46
HB04-4501	45±1.2	1-3/4	58.6	54.6	0.6	87	3.0	435	6.0	870	680	1.99
HB04-5101	51±1.2	2	60.8	65.0	0.6	87	3.0	435	6.0	870	770	2.25
HB04-6401	64±1.2	2-1/2	73.4	78.0	0.6	87	3.0	435	6.0	870	960	2.59
HB04-7601	76±1.5	3	85.7	90.0	0.6	87	3.0	435	6.0	870	1140	3.02

HB04-1002	9.5±0.5	3/8	16.1	20.0	1.8	261	9.0	1305	18.0	2610	150	0.42
HB04-1302	13±0.7	1/2	20.5	24.5	1.8	261	9.0	1305	18.0	2610	200	0.58
HB04-1602	16±0.7	5/8	23.5	27.5	1.8	261	9.0	1305	18.0	2610	240	0.66
HB04-1902	19±0.7	3/4	26.6	30.5	1.8	261	9.0	1305	18.0	2610	290	0.80
HB04-2202	22±0.7	7/8	29.5	33.5	1.8	261	9.0	1305	18.0	2610	330	0.84
HB04-2502	25±1.0	1	33.0	37.0	1.8	261	9.0	1305	18.0	2610	380	1.00
HB04-3202	32±1.0	1-1/4	40.0	44.0	1.8	261	9.0	1305	18.0	2610	480	1.27
HB04-3802	38±1.0	1-1/2	46.4	50.5	1.8	261	9.0	1305	18.0	2610	570	1.46
HB04-4502	45±1.2	1-3/4	58.6	54.6	1.8	261	9.0	1305	18.0	2610	680	1.99
HB04-5102	51±1.2	2	60.8	65.0	1.8	261	9.0	1305	18.0	2610	770	2.25
HB04-6402	64±1.2	2-1/2	75.2	79.5	1.8	261	9.0	1305	18.0	2610	960	3.16
HB04-7602	76±1.5	3	87.3	91.5	1.8	261	9.0	1305	18.0	2610	1140	3.60

## HB05(HG/T 3037)

### 加油机软管

REFUEL HOSE



**结构** 软管由耐燃油的内胶层、一层钢丝编织的增强层和耐候的外胶层组成, 外观为黑色光面或布纹。

**应用** 适用于一般加油机设备输送航空煤油、汽油、柴油以及其他矿物油类, 广泛用于机场、油库、码头等。温度范围为-40°C~+100°C。

#### CONSTRUCTION

This hose consist of an inner tube of oil resistant synthetic rubber, one wire braid reinforcement and weather resistant synthetic rubber cover. Available in black with either corrugated or smooth finish.

#### APPLICATIONS

Widely applied to general refuelling equipment to convey aviation kerosene, gasoline, diesel oil and other mineral oil in airport, oil depot and quay. Working temperature range is within -40°C ~ +100°C.

型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R	参考重量 W.T
	mm	inch	mm	MPa	psi	MPa	psi	MPa	psi	mm	kg/m
	HB05-1301	12.5±0.5	1/2	22.0	1.6	232	2.4	350	4.8	700	60
HB05-1601	16.0±0.5	5/8	25.4	1.6	232	2.4	350	4.8	700	80	0.49
HB05-1901	19.0±0.5	3/4	29.4	1.6	232	2.4	350	4.8	700	100	0.65
HB05-2501	25.0±0.5	1	35.4	1.6	232	2.4	350	4.8	700	150	0.83
HB05-3201	32.0±0.5	1-1/4	44.0	1.6	232	2.4	350	4.8	700	175	1.15
HB05-3801	38.0±0.5	1-1/2	50.0	1.6	232	2.4	350	4.8	700	225	1.42

## HB13(DOT/3、DOT/4)

### 钢丝编织液动软管

STEEL WIRE BRAIDED HYDRAULIC BRAKING HOSE



**结构** 软管由耐制动液 DOT3/DOT4 的内胶层、一层或二层钢丝编织的增强层和耐候老化的外胶层组成, 外观为黑色布纹。

**应用** 适用于非石油基的液压制动系统, 工作温度范围为-40°C~+100°C。

#### CONSTRUCTION

This hose consist of an inner tube of braking liquid DOT3/DOT4 resistant synthetic rubber, one or two wire braids reinforcement, weather and aging resistant fiber or smooth synthetic rubber cover.

#### APPLICATIONS

For delivery of non-petroleum base hydraulic braking system. Working temperature range is within -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D		增强层直径 W.D		外径 O.D		最大工作压力 max W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R	参考重量 W.T	
	Dash	mm	inch	最小	最大	最小	最大	最小	最大	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
				HB13-0602	-4	6.3	1/4	6.5	6.9	12.2	13.0	14.5	15.3	40.0	5800	80.0	11600	160.0

## HB07

### 钢丝编织热水软管

STEEL WIRE BRAIDED HOT WATER HOSE



**结构** 软管由耐热的内胶层、一层或二层钢丝编织的增强层和耐热耐候的外胶层组成, 外观有黑色、蓝色、红色、绿色及黄色光面或布纹。

**应用** 适用于输送热水。温度范围为 -40°C ~ +150°C。

#### CONSTRUCTION

This hose consist of an inner tube of heat resistant synthetic rubber, one or two wire braids reinforcement, heat and weather resistant synthetic rubber cover. Available in black, blue, red, green or yellow with either corrugated or smooth finish.

#### APPLICATIONS

For delivery of hot water. Working temperature range is within -40°C ~ +150°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				Dash	mm	inch	最小 Min	最大 Max	最小 Min	最大 Max	1SN/R1ATS 型		MPa	psi	MPa	psi	MPa	
	最小 Min	最大 Max	MPa								psi	kg/m						
HB07-0501	-3	5	3/16	5.0	5.3	9.1	9.9	11.1	11.9	25.0	3625	50.0	7250	100.0	14500	3.54	90	0.20
HB07-0601	-4	6.3	1/4	6.5	6.9	10.8	11.6	12.7	13.7	22.5	3260	45.0	6525	90.0	13050	3.94	100	0.25
HB07-0801	-5	8	5/16	8.0	8.5	12.3	13.1	14.3	15.3	21.5	3120	43.0	6235	85.0	12325	4.53	115	0.31
HB07-1001	-6	10	3/8	9.5	10.0	14.7	15.5	16.6	17.6	18.0	2610	36.0	5220	72.0	10440	5.12	130	0.36
HB07-1301	-8	12.5	1/2	12.5	13.0	17.8	18.6	19.7	20.7	16.0	2320	32.0	4640	64.0	9280	7.09	180	0.45
HB07-1601	-10	16	5/8	15.8	16.5	20.8	21.8	22.7	23.9	13.0	1885	26.0	3770	52.0	7540	7.87	200	0.52
HB07-1901	-12	19	3/4	19.0	19.7	24.4	25.6	26.8	28.0	10.5	1520	21.0	3045	42.0	6090	9.45	240	0.65
HB07-2201	-14	22	7/8	21.8	22.6	27.2	28.4	29.6	30.8	10.0	1450	20.0	2900	40.0	5800	11.2	280	0.70
HB07-2501	-16	25	1	25.0	25.8	32.3	33.3	34.6	35.8	8.8	1280	17.5	2540	35.0	5075	11.81	300	0.91
HB07-3201	-20	31.5	1-1/4	32.0	32.8	39.4	40.6	42.0	43.2	6.3	910	13.0	2175	25.0	3625	16.54	420	1.30
HB07-3801	-24	38	1-1/2	38.0	39.0	45.6	46.8	48.9	50.1	5.0	725	10.0	1450	20.0	2900	19.69	500	1.70
HB07-5101	-32	51	2	50.4	52.0	58.9	60.5	62.9	64.5	4.0	580	8.0	1160	16.0	2320	24.80	630	2.00
HB07-6301	-40	63	2-1/2	64.0	65.0	72.8	74.4	76.8	78.4	2.5	362	5.0	725	10.0	1450	29.92	760	2.50
HB07-7601	-48	76	3	76.0	77.0	86.0	87.6	90.8	92.4	2.0	290	4.0	580	8.0	1160	35.4	900	3.33
HB07-0502	-3	5	3/16	5.0	5.3	10.8	11.6	12.8	13.6	41.5	6020	83.0	12035	165.0	23925	3.54	90	0.32
HB07-0602	-4	6.3	1/4	6.5	6.9	12.2	13.2	14.4	15.4	40.0	5800	80.0	11600	160.0	23200	3.94	100	0.36
HB07-0802	-5	8	5/16	8.0	8.5	13.8	14.8	15.9	16.9	35.0	5075	70.0	10150	140.0	20300	4.53	115	0.45
HB07-1002	-6	10	3/8	9.5	10.0	16.2	17.2	18.2	19.2	33.0	4785	66.0	9570	132.0	19140	5.12	130	0.54
HB07-1302	-8	12.5	1/2	12.5	13.0	19.3	20.3	21.3	22.3	27.5	3990	55.0	7975	110.0	15950	7.09	180	0.68
HB07-1602	-10	16	5/8	15.8	16.5	22.4	23.6	24.5	25.7	25.0	3625	50.0	7250	100.0	14500	7.87	200	0.80
HB07-1902	-12	19	3/4	19.0	19.7	26.2	27.4	28.4	29.6	21.5	3120	43.0	6235	86.0	12470	9.45	240	0.94
HB07-2202	-14	22	7/8	21.8	22.6	29.0	30.2	31.4	32.6	17.5	2537	35.0	5075	70.0	10150	11.02	280	1.04
HB07-2502	-16	25	1	25.0	25.8	34.0	35.2	36.4	37.6	16.5	2390	32.5	4710	65.0	9425	11.81	300	1.35
HB07-3202	-20	31.5	1-1/4	32.0	32.8	43.2	44.4	45.8	47.0	12.5	1810	25.0	3625	50.0	7250	16.54	420	2.15
HB07-3802	-24	38	1-1/2	38.0	39.0	49.5	50.7	52.5	53.7	9.0	1305	18.0	2610	36.0	5220	19.69	500	2.65
HB07-5102	-32	51	2	50.4	52.0	62.1	63.7	65.1	66.7	8.0	1160	16.0	2320	32.0	4640	24.80	630	3.42
HB07-6302	-40	63	2-1/2	64.0	65.0	74.8	77.4	78.8	80.4	7.0	1015	14.0	2030	28.0	4060	29.92	760	4.20
HB07-7602	-48	76	3	76.0	77.0	77.8	89.4	93.8	95.4	4.0	580	8.0	1160	16.0	2320	35.4	900	4.38

## HB08

### 钢丝编织空气软管

STEEL WIRE BRAIDED AIR HOSE



**结构** 软管由气密性优异的内胶层、一层钢丝编织的增强层和耐候的外胶层组成, 外胶层有黑色、蓝色、红色、绿色及黄色光面或布纹, 外胶层有刺孔。

**应用** 适用于压缩空气、水的输送。温度范围为 -40°C ~ +100°C。

#### CONSTRUCTION

This hose consist of an inner tube of excellent air tightness synthetic rubber, one wire braid reinforcement and weather resistant synthetic rubber cover. Available in black, blue, red, green or yellow with either pin-pricked corrugated or smooth finish.

#### APPLICATIONS

For delivery of compressed air or water. Working temperature range is within -40°C ~ +100°C.

型号 TYPE	公称内径 I.D.		外径 O.D.	最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.	参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	MPa	psi		
			kg/m								
HB08-1301	13	1/2	23.3	7.0	1000	14.0	2000	28.0	4000	130	0.57
HB08-1901	19	3/4	29.0	7.0	1000	14.0	2000	28.0	4000	190	0.70
HB08-2501	25	1	36.5	7.0	1000	14.0	2000	28.0	4000	250	1.04
HB08-3201	32	1-1/4	44.5	7.0	1000	14.0	2000	28.0	4000	370	1.46
HB08-3801	38	1-1/2	50.3	7.0	1000	14.0	2000	28.0	4000	450	1.66
HB08-5101	51	2	64.8	7.0	1000	14.0	2000	28.0	4000	580	2.52
HB08-6401	64	2-1/2	77.0	4.0	580	8.0	1160	16.0	2320	704	2.70
HB08-7601	76	3	88.8	3.5	500	7.0	1015	14.0	2030	830	3.02
HB08-8901	89	3-1/2	102.0	3.0	435	6.0	870	12.0	1740	900	3.84
HB08-10201	102	4	118.9	2.8	400	5.6	800	11.2	1600	1200	5.06

## HB09(HG/T 2192)

### 钢丝编织喷砂软管

STEEL WIRE BRAIDED SAND BLAST HOSE



**结构** 软管由耐磨性优异的内胶层、一层钢丝编织的增强层和耐候的外胶层组成, 外观有黑色、蓝色、红色、绿色及黄色光面或布纹。

**应用** 适用于金属表面风压喷砂除锈、打麻、工程施工中的湿喷砂和干喷砂, 也可以作水的输送。温度范围为 -40°C ~ +70°C。

#### CONSTRUCTION

This hose consist of an inner tube of excellent abrasion resistant synthetic rubber, one wire braid reinforcement and weather resistant synthetic rubber cover. Available in black, blue, red, green or yellow with either corrugated or smooth finish.

#### APPLICATIONS

For delivery of metal surface rust removal by wind pressure, sanding, wet or dry sand blasting, also conveying water. Working temperature range is within -40°C ~ +70°C.

型号 TYPE	公称内径 I.D.		外径 O.D.	最大工作压力 max W.P.		最小爆破压力 min B.P.		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
			kg/m					
HB09-1301	13	1/2	27.0	1.0	145	3.0	450	0.58
HB09-1901	19	3/4	33.0	1.0	145	3.0	450	0.76
HB09-2501	25	1	40.0	1.0	145	3.0	450	1.01
HB09-3201	32	1-1/4	48.0	1.0	145	3.0	450	1.69
HB09-3801	38	1-1/2	55.0	1.0	145	3.0	450	2.02
HB09-5101	51	2	71.0	1.0	145	3.0	450	3.64
HB09-6401	64	2-1/2	84.0	1.0	145	3.0	450	4.65
HB09-7601	76	3	96.0	1.0	145	3.0	450	5.17
HB09-8901	89	3-1/2	110.0	1.0	145	3.0	450	6.37

**EB41** (EN 854 1TE, SAE 100R6)

**一层织物增强液压软管**

FIBER REINFORCED, RUBBER COVERED HYDRAULIC HOSE

**结构** 软管由耐油和耐水的合成橡胶内胶层, 一层适当的织物增强层和耐油耐候的合成橡胶外胶层组成。

**应用** 除 HRD R、HFD S 和 HFD T 以外的 ISO6743-4 中规定的 -40°C~ +100°C 温度范围内的液压流体。


**CONSTRUCTION**

This hose shall consist of an oil and water resistant synthetic rubber lining, one of suitable textile yarn and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

Hydraulic fluids in accordance with ISO6743-4 with the exception of HRD R, HFD S and HFD T at temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
EB41-0501TE	-3	5	3/16	4.9	5.2	10.6	11.6	2.5	363	5.0	725	10.0	1450	1.38	35	0.09
EB41-0601TE	-4	6	1/4	6.5	6.9	11.9	12.9	2.5	363	5.0	725	10.0	1450	1.77	45	0.11
EB41-0801TE	-5	8	5/16	8.0	8.4	13.4	14.4	2.0	290	4.0	580	8.0	1160	2.56	65	0.13
EB41-1001TE	-6	10	3/8	9.5	10.0	15.0	16.0	2.0	290	4.0	580	8.0	1160	2.95	75	0.15
EB41-1301TE	-8	12	1/2	12.5	13.0	18.5	19.5	1.6	232	3.2	464	6.4	928	3.54	90	0.19
EB41-1601TE	-10	16	5/8	15.8	16.5	22.4	23.6	1.6	232	3.2	464	6.4	928	4.53	115	0.28
EB41-0501R6	-3	5	3/16	4.9	5.2	10.6	11.6	3.5	510	7.0	1015	14.0	2030	1.97	50	0.10
EB41-0601R6	-4	6	1/4	6.5	6.9	12.2	13.2	2.8	410	5.6	810	11.2	1620	2.56	65	0.13
EB41-0801R6	-5	8	5/16	8.0	8.4	13.8	14.8	2.8	410	5.6	810	11.2	1620	2.95	75	0.15
EB41-1001R6	-6	10	3/8	9.5	10.0	15.5	16.5	2.8	410	5.6	810	11.2	1620	2.95	75	0.18
EB41-1301R6	-8	12	1/2	12.5	13.0	19.3	20.3	2.8	410	5.6	810	11.2	1620	3.94	100	0.26
EB41-1601R6	-10	16	5/8	15.8	16.5	22.4	23.6	2.4	350	4.9	710	9.8	1420	4.92	125	0.31
EB41-1901R6	-12	19	3/4	19.0	19.7	25.6	26.8	2.1	310	4.2	610	8.4	1220	5.91	150	0.40
EB41-1601R6	-16	25	1	25.0	25.8	31.9	33.1	2.0	300	4.0	600	8.0	1200	4.92	130	0.51

**EB42** (EN 854 2TE, SAE 100R3)

**织物增强中压液压软管**

DOUBLE FIBER BRAID, RUBBER COVERED HYDRAULIC HOSE

**结构** 软管由耐油和耐水的合成橡胶内胶层, 二层适当的织物增强层和耐油耐候的合成橡胶外胶层组成。

**应用** 除 HRD R、HFD S 和 HFD T 以外的 ISO6743-4 中规定的 -40°C~ +100°C 温度范围内的液压流体。


**CONSTRUCTION**

This hose shall consist of an oil and water resistant synthetic rubber lining, two of suitable textile yarn and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

Hydraulic fluids in accordance with ISO6743-4 with the exception of HRD R, HFD S and HFD T at temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
EB42-0502TE	-3	5	3/16	4.9	5.2	11.3	12.3	8.0	1160	16.0	2320	32.0	4640	1.38	35	0.12
EB42-0602TE	-4	6	1/4	6.5	6.9	12.9	13.9	7.5	1088	15.0	2176	30.0	4352	1.58	40	0.14
EB42-0802TE	-5	8	5/16	8.0	8.4	14.4	15.4	6.8	986	13.6	1972	27.2	3944	1.97	50	0.16
EB42-1002TE	-6	10	3/8	9.5	10.0	16.0	17.0	6.3	914	12.6	1828	25.2	3656	2.36	60	0.18
EB42-1302TE	-8	12	1/2	12.5	13.0	19.2	20.2	5.8	841	11.6	1682	23.2	3364	2.76	70	0.22
EB42-1602TE	-10	16	5/8	15.8	16.5	23.3	24.5	5.0	725	10.0	1450	20.0	2900	3.54	90	0.32
EB42-1902TE	-12	19	3/4	19.0	19.7	26.4	27.6	4.5	653	9.0	1306	18.0	2612	4.33	110	0.37
EB42-2502TE	-16	25	1	25.0	25.8	33.8	35.0	4.0	580	8.0	1160	16.0	2320	5.12	130	0.55
EB42-0502R3	-3	5	3/16	4.9	5.2	12.2	13.2	10.5	1520	21.0	3050	42.0	6090	2.95	75	0.16
EB42-0602R3	-4	6	1/4	6.5	6.9	13.8	14.8	8.7	1260	17.5	2540	35.0	5075	2.95	75	0.15
EB42-0802R3	-5	8	5/16	8.0	8.4	17.0	18.0	8.4	1220	16.8	2440	33.5	4860	3.94	100	0.27
EB42-1002R3	-6	10	3/8	9.5	10.0	18.5	19.5	7.8	1130	15.7	2280	31.5	4570	3.94	100	0.31
EB42-1302R3	-8	12	1/2	12.5	13.0	23.1	24.1	7.0	1015	14.0	2030	28.0	4060	4.92	125	0.45
EB42-1602R3	-10	16	5/8	15.8	16.5	26.4	27.6	6.1	885	12.2	1170	24.5	3550	5.51	140	0.53
EB42-1902R3	-12	19	3/4	19.0	19.7	31.0	32.2	5.2	750	10.5	1520	21.0	3045	5.91	150	0.72
EB42-2202R3	-14	22	7/8	22.2	22.7	31.4	32.6	4.5	652	9.0	1305	18.0	2610	6.69	170	0.72
EB42-2502R3	-16	25	1	25.0	25.8	37.2	38.4	3.9	570	7.8	1130	15.7	2280	8.07	205	0.90
EB42-3202R3	-20	32	1-1/4	32.0	32.8	43.8	45.2	2.6	380	5.2	750	10.5	1520	9.84	250	1.07

## EB43(EN 854 3TE)

### 织物增强高压液压软管

DOUBLE FIBER BRAID, RUBBER COVERED HIGH PRESSURE HOSE

**结构** 软管由耐油和耐水的合成橡胶内胶层, 二层适当的织物增强层和耐油耐候的合成橡胶外胶层组成。

**应用** 除 HRD R、HFD S 和 HFD T 以外的 ISO6743-4 中规定的 -40°C~+100°C 温度范围内的液压流体。



#### CONSTRUCTION

This hose shall consist of an oil and water resistant synthetic rubber lining, two of suitable textile yarn and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

Hydraulic fluids in accordance with ISO6743-4 with the exception of HRD R, HFD S and HFD T at temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D		外径 O.D		最大工作压力 max W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m				
EB43-0503TE	-3	5	3/16	4.9	5.2	12.1	12.9	16.0	2320	32.0	4640	64.0	9280	1.57	40	0.13
EB43-0603TE	-4	6	1/4	6.5	6.9	13.7	14.7	14.5	2103	29.0	4206	58.0	8412	1.77	45	0.15
EB43-0803TE	-5	8	5/16	8.0	8.4	16.1	17.1	13.0	1885	26.0	3770	52.0	7540	2.16	55	0.21
EB43-1003TE	-6	10	3/8	9.5	10.0	18.1	19.1	11.0	1595	22.0	3190	44.0	6380	2.75	70	0.24
EB43-1303TE	-8	12	1/2	12.5	13.0	20.7	21.8	9.3	1349	18.6	2698	37.2	5396	3.35	85	0.30
EB43-1603TE	-10	16	5/8	15.8	16.5	24.9	25.9	8.0	1160	16.0	2320	32.0	4640	4.13	105	0.41
EB43-1903TE	-12	19	3/4	19.0	19.7	28.0	29.0	7.0	1015	14.0	2030	28.0	4060	5.12	130	0.47
EB43-2503TE	-16	25	1	25.0	25.8	34.9	36.1	5.5	798	11.0	1596	22.0	3192	5.91	150	0.63
EB43-3203TE	-20	31	1-1/4	32.0	32.8	41.5	43.3	4.5	653	9.0	1306	18.0	2612	7.48	190	0.77
EB43-3803TE	-24	38	1-1/2	38.0	39.0	48.8	50.4	4.0	580	8.0	1160	16.0	2320	9.45	240	0.97
EB43-5103TE	-32	51	2	51.0	52.0	62.2	64.0	3.3	479	6.6	958	13.2	1916	11.81	300	1.25

## RB04(SAE 100R4)

### 夹钢丝液压吸引软管

WIRE INSERTED HYDRAULIC SUCTION HOSE

**结构** 软管由耐油合成橡胶, 单层或多层布或编织的纺织纤维与适当的管体钢丝回旋线构成的增强层和耐油耐候合成橡胶外胶层所组成。

**应用** 适用于低压或负压系统, 可以输送石油基液压油、空气、水基流体等的液压介质, 温度范围为 -40°C~+100°C。



#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, a reinforcement consisting of a ply or plies of waver or braided textile fibers with a suitable spiral of body steel wire, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use in low pressure and vacuum applications with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D		外径 O.D		最大工作压力 max W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m				
RB04-1902R4	-12	19	3/4	19.1	19.8	31.4	32.6	2.1	305	4.2	610	8.4	1210	4.92	125	0.92
RB04-2502R4	-16	25	1	25.1	25.8	37.9	39.1	1.7	250	3.5	510	7.0	1015	5.91	150	1.10
RB04-3202R4	-20	31.5	1-1/4	32.1	32.8	45.3	46.7	1.4	200	2.8	410	5.6	810	7.87	200	1.30
RB04-3802R4	-24	38	1-1/2	38.1	38.8	51.2	52.8	1.05	150	2.1	305	4.2	610	10.01	255	1.80
RB04-4502R4	-28	45	1-3/4	45.1	45.8	56.7	58.3	1.0	145	2.0	290	4.0	580	10.83	275	2.11
RB04-5102R4	-32	51	2	51.1	51.8	64.2	65.8	0.7	100	1.4	200	2.8	410	11.81	300	2.23
RB04-6302R4	-40	63	2-1/2	63.1	63.8	77.0	78.6	0.4	60	0.8	120	1.7	250	13.98	355	3.23
RB04-7602R4	-48	76	3	76.1	76.8	90.5	92.5	0.4	60	0.8	120	1.6	230	18.11	460	4.25
RB04-8902R4	-56	89	3-1/2	89.0	90.0	104.5	106.5	0.3	40	0.6	90	1.3	180	20.87	530	5.05
RB04-10202R4	-64	102	4	102.0	103.0	118.5	120.5	0.25	40	0.5	70	1.0	145	24.02	610	5.60

## RB05(SAE 100R5)

### 钢丝编织外覆织物液压软管

SINGLE WIRE BRAID, TEXTILE COVERED HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 一层钢丝编织增强层和一层纤维编织的外覆层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~+100°C。



#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, a single wire braid reinforcement and a fiber braided cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D		外径 O.D		最大工作压力 max W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
				最小 Min	最大 Max	最小 Min	最大 Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m				
RB05-0501R5	-3	5	3/16	5.0	5.3	12.8	13.6	21.0	3045	42.0	6090	84.0	12180	2.95	75	0.24
RB05-0601R5	-4	6.3	1/4	6.5	6.9	14.4	15.2	21.0	3045	42.0	6090	84.0	12180	3.35	85	0.28
RB05-0801R5	-6	8	5/16	8.0	8.5	16.7	17.6	15.7	2270	31.5	4570	63.0	9135	3.94	100	0.35
RB05-1101R5	-8	11	13/32	10.5	11.1	19.0	20.0	14.0	2030	28.0	4060	56.0	8120	4.53	115	0.38
RB05-1301R5	-10	12.5	1/2	12.6	13.0	22.9	23.9	12.2	1770	24.5	3550	49.0	7105	5.51	140	0.51
RB05-1601R5	-12	16	5/8	15.8	16.5	26.9	27.9	10.5	1520	21.0	3045	42.0	6090	6.50	165	0.68
RB05-2201R5	-16	22	7/8	22.2	22.7	30.9	31.9	5.6	810	11.2	1620	22.4	3250	7.28	185	0.70
RB05-2901R5	-20	29	1-1/8	28.9	29.6	37.5	38.7	4.3	620	8.7	1260	17.5	2540	9.06	230	0.80
RB05-3501R5	-24	35	1-3/8	35.2	35.9	43.9	45.1	3.5	510	7.0	1015	14.0	2030	10.43	265	0.93
RB05-4601R5	-32	46	1-13/16	46.3	47.0	55.8	57.0	2.4	350	4.9	700	9.8	1420	13.19	335	1.32
RB05-6001R5	-40	60	2-3/8	60.5	61.4	72.2	73.8	2.4	350	4.9	700	9.8	1420	24.02	610	2.96
RB05-7601R5	-48	76	3	76.0	77.0	89.7	91.3	1.4	200	2.8	410	5.6	810	33.07	840	4.10

## BF01

### 纤维输油软管

FIBER REINFORCED,OIL DELIVERY HOSE

**结构** 软管由耐油的内胶层、纤维增强层和耐候的外胶层组成, 外管为黑色布纹。

**应用** 用于输送石油基燃油、润滑油及其他矿物油等的液压流体, 温度范围为 -40°C~ +100°C。

#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber; suitable fiber reinforcement; and weather resistant synthetic rubber cover. The cover surface can be produced either smooth or fabric.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids, lubricating oil and other mineral oil within a temperature range of -40°C ~ +100°C.



型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		最小爆破压力 min B.P		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
	BF01-5-2.0	5	3/16	11.4	2.0	290	8.0	1160
BF01-6-2.0	6	1/4	13.5	2.0	290	8.0	1160	0.17
BF01-8-2.0	8	5/16	15.5	2.0	290	8.0	1160	0.21
BF01-10-2.0	10	3/8	17.5	2.0	290	8.0	1160	0.25
BF01-13-2.0	13	1/2	22.0	2.0	290	8.0	1160	0.38
BF01-16-2.0	16	5/8	25.6	2.0	290	8.0	1160	0.49
BF01-19-2.0	19	3/4	29.4	2.0	290	8.0	1160	0.60
BF01-22-2.0	22	7/8	32.0	2.0	290	8.0	1160	0.65
BF01-25-2.0	25	1	36.5	2.0	290	8.0	1160	0.80
BF01-32-2.0	32	1-1/4	44.0	2.0	290	8.0	1160	1.10
BF01-38-2.0	38	1-1/2	50.5	2.0	290	8.0	1160	1.34
BF01-45-2.0	45	1-3/4	59.0	2.0	290	8.0	1160	1.69
BF01-51-2.0	51	2	65.5	2.0	290	8.0	1160	2.00
BF01-64-2.0	64	2-1/2	78.8	2.0	290	8.0	1160	2.45
BF01-76-2.0	76	3	92.6	2.0	290	8.0	1160	3.04
BF01-89-2.0	89	3-1/2	106.0	2.0	290	8.0	1160	3.56
BF01-102-2.0	102	4	110.0	2.0	290	8.0	1160	3.84

## BF04(GB/T 1186)

### 纤维空气软管

FIBER REINFORCED, AIR HOSE

**结构** 软管由气密性优异的内胶层、纤维增强层和耐候的外胶层组成, 外观有黑色、蓝色、红色、绿色及黄色光面或布纹。

**应用** 适用于输送水、空气等介质, 温度范围为 -40°C~ +70°C。

#### CONSTRUCTION

This hose shall consist of an inner tube with excellent tightness rubber; suitable fiber reinforcement; and weather resistant synthetic rubber cover. The cover surface can be produced either smooth or fabric with variety colors options.

#### APPLICATIONS

This section covers hose for use with conveying water; air and relevant medium within a temperature range of -40°C ~ +70°C.



型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		最小爆破压力 min B.P		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
	BF04-6-1.0	6	1/4	13.5	1.0	145	4.0	580
BF04-8-1.0	8	5/16	15.5	1.0	145	4.0	580	0.26
BF04-10-1.0	10	3/8	17.5	1.0	145	4.0	580	0.31
BF04-13-1.0	13	1/2	22.0	1.0	145	4.0	580	0.46
BF04-16-1.0	16	5/8	25.0	1.0	145	4.0	580	0.51
BF04-19-1.0	19	3/4	28.5	1.0	145	4.0	580	0.66
BF04-25-1.0	25	1	35.0	1.0	145	4.0	580	0.81
BF04-32-1.0	31.5	1-1/4	44.0	1.0	145	4.0	580	1.09
BF04-38-1.0	38	1-1/2	51.0	1.0	145	4.0	580	1.47
BF04-45-1.0	45	1-3/4	57.0	1.0	145	4.0	580	1.60
BF04-51-1.0	51	2	63.0	1.0	145	4.0	580	2.06
BF04-64-1.0	64	2-1/2	75.6	1.0	145	4.0	580	2.16
BF04-76-1.0	76	3	89.6	1.0	145	4.0	580	2.22
BF04-89-1.0	89	3-1/2	105.0	1.0	145	4.0	580	3.70
BF04-102-1.0	102	4	119	1.0	145	4.0	580	4.31
BF04-6-2.0	6	1/4	13.5	2.0	300	6.0	900	0.18
BF04-8-2.0	8	5/16	15.5	2.0	300	6.0	900	0.26
BF04-10-2.0	10	3/8	17.5	2.0	300	6.0	900	0.31
BF04-13-2.0	13	1/2	22.0	2.0	300	6.0	900	0.46
BF04-16-2.0	16	5/8	25.4	2.0	300	6.0	900	0.51
BF04-19-2.0	19	3/4	28.5	2.0	300	6.0	900	0.66
BF04-25-2.0	25	1	35.0	2.0	300	6.0	900	0.81
BF04-32-2.0	31.5	1-1/4	44.0	2.0	300	6.0	900	1.09
BF04-38-2.0	38	1-1/2	51.0	2.0	300	6.0	900	1.47
BF04-45-2.0	45	1-3/4	57.0	2.0	300	6.0	900	1.60
BF04-51-2.0	51	2	65.0	2.0	300	6.0	900	2.06
BF04-64-2.0	64	2-1/2	76.4	2.0	300	6.0	900	2.16
BF04-76-2.0	76	3	90.5	2.0	300	6.0	900	2.22
BF04-89-2.0	89	3-1/2	106.0	2.0	300	6.0	900	3.70
BF04-102-2.0	102	4	117.7	2.0	300	6.0	900	4.31
BF04-6-2.8	6	1/4	13.5	2.8	400	8.4	1200	0.18
BF04-8-2.8	8	5/16	15.5	2.8	400	8.4	1200	0.26
BF04-10-2.8	10	3/8	17.5	2.8	400	8.4	1200	0.31
BF04-13-2.8	13	1/2	22.8	2.8	400	8.4	1200	0.46
BF04-16-2.8	16	5/8	25.4	2.8	400	8.4	1200	0.51
BF04-19-2.8	19	3/4	29.8	2.8	400	8.4	1200	0.66
BF04-25-2.8	25	1	37.5	2.8	400	8.4	1200	0.81
BF04-32-2.8	31.5	1-1/4	44.0	2.8	400	8.4	1200	1.09
BF04-38-2.8	38	1-1/2	52.0	2.8	400	8.4	1200	1.47
BF04-45-2.8	45	1-3/4	57.0	2.8	400	8.4	1200	1.60
BF04-51-2.8	51	2	65.0	2.8	400	8.4	1200	2.06
BF04-64-2.8	64	2-1/2	79.4	2.8	400	8.4	1200	2.16
BF04-76-2.8	76	3	93.0	2.8	400	8.4	1200	2.22
BF04-89-2.8	89	3-1/2	106.0	2.8	400	8.4	1200	3.70
BF04-102-2.8	102	4	119.0	2.8	400	8.4	1200	4.31

**BF03**
**油气软管**

OIL AND GAS HOSE



**结构** 软管由耐油的内胶层、一层纤维编织增强层和耐候的外胶层组成, 外观为黑色光面或布纹。

**应用** 适用于输送航空煤油、汽油、柴油、油气混合以及其他矿物油类, 温度范围为 -40°C~ +100°C (G 型为 135°C)。

**CONSTRUCTION**

This hose shall consist of an inner tube of oil resistant synthetic rubber; one layer of suitable fiber reinforcement; and weather resistant synthetic rubber cover. The cover surface can be produced either smooth or fabric.

**APPLICATIONS**

This section covers hose for use with conveying jet fuel; gasoline; diesel; mixture of oil and gas and other mineral oil within a temperature range of -40°C ~ +100°C .

型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		最小爆破压力 min B.P		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
	BF03-06-1.5	6	1/4	13.5	1.5	217	6.0	870
BF03-10-1.5	10	3/8	17.5	1.5	217	6.0	870	0.22
BF03-13-1.5	12.5	1/2	21.0	1.5	217	6.0	870	0.32
BF03-16-1.5	16	5/8	25.0	1.5	217	6.0	870	0.41
BF03-19-1.5	19	3/4	29.0	1.5	217	6.0	870	0.53
BF03-25-1.5	25	1	36.0	1.5	217	6.0	870	0.76
BF03-32-1.5	31.5	1-1/4	44.0	1.5	217	6.0	870	0.96
BF03-38-1.5	38	1-1/2	51.0	1.5	217	6.0	870	1.25
BF03-51-1.0	51	2	65.0	1.0	145	4.0	580	1.70

**BF06(GB/T 2550)**
**乙炔软管**

ACETYLENE DELIVERY HOSE



**结构** 软管由气密性优异的内胶层、纤维增强层和耐候的外胶层组成, 外观为红色布纹。

**应用** 适用于输送乙炔介质, 用于气体焊接和切割的作业, 也可输送水、空气等, 温度范围为 -20°C~ +60°C。

**CONSTRUCTION**

This hose shall consist of an inner tube with excellent tightness rubber; suitable fiber reinforcement; and weather resistant synthetic rubber cover. The cover surface produced as red fabric.

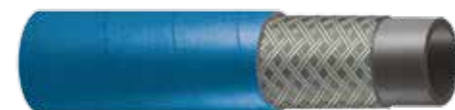
**APPLICATIONS**

This section covers hose for use with conveying acetylene; air; water for gas welding and cutting purpose within a temperature range of -20°C ~ +60°C .

型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		最小爆破压力 min B.P		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
	BF06-06-0.3	6	1/4	13.2	0.3	44	0.9	131
BF06-08-0.3	8	5/16	15.4	0.3	44	0.9	131	0.20
BF06-10-0.3	10	3/8	17.9	0.3	44	0.9	131	0.26
BF06-13-0.3	13	1/2	22.0	0.3	44	0.9	131	0.46
BF06-16-0.3	16	5/8	25.4	0.3	44	0.9	131	0.51
BF06-19-0.3	19	3/4	29.5	0.3	44	0.9	131	0.65

**BF05(GB/T 2550)**
**氧气软管**

OXYGEN DELIVERY HOSE



**结构** 软管由气密性优异的内胶层、纤维增强层和耐候的外胶层组成, 外观为蓝色布纹。

**应用** 适用于输送工业氧气介质, 用于气体焊接和切割的作业, 也可输送水、空气等。温度范围为 -20°C~ +60°C 的软管。

**CONSTRUCTION**

This hose shall consist of an inner tube with excellent tightness rubber; suitable fiber reinforcement; and weather resistant synthetic rubber cover. The cover surface produced as blue fabric.

**APPLICATIONS**

This section covers hose for use with conveying oxygen; air; water; for gas welding and cutting purpose within a temperature range of -20°C ~ +60°C .

型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		最小爆破压力 min B.P		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
	BF05-06-2.0	6	1/4	13.2	2.0	300	6.0	900
BF05-08-2.0	8	5/16	15.4	2.0	300	6.0	900	0.20
BF05-10-2.0	10	3/8	17.9	2.0	300	6.0	900	0.26
BF05-13-2.0	13	1/2	22.0	2.0	300	6.0	900	0.46
BF05-16-2.0	16	5/8	25.4	2.0	300	6.0	900	0.51
BF05-19-2.0	19	3/4	29.5	2.0	300	6.0	900	0.65

**BF07(GB/T 2550)**
**二氧化碳软管**

CARBON DIOXIDE DELIVERY HOSE



**结构** 软管由气密性优异的内胶层、纤维增强层和耐候的外胶层组成, 外观为黑色布纹。

**应用** 适用于二氧化碳介质, 用于气体焊接和切割的作业, 也可输送水、空气等, 温度范围为 -20°C~ +60°C。

**CONSTRUCTION**

This hose shall consist of an inner tube with excellent tightness rubber; suitable fiber reinforcement; and weather resistant synthetic rubber cover. The cover surface produced as black fabric.

**APPLICATIONS**

This section covers hose for use with conveying carbon dioxide; air; water for gas welding and cutting purpose within a temperature range of -20°C ~ +60°C .

型号 TYPE	公称内径 I.D		外径 O.D	最大工作压力 max W.P		最小爆破压力 min B.P		参考重量 W.T
	mm	inch		MPa	psi	MPa	psi	
	BF07-06-2.0	6	1/4	13.2	2.0	300	6.0	900
BF07-08-2.0	8	5/16	15.4	2.0	300	6.0	900	0.20
BF07-10-2.0	10	3/8	17.9	2.0	300	6.0	900	0.26
BF07-13-2.0	13	1/2	22.0	2.0	300	6.0	900	0.46
BF07-16-2.0	16	5/8	25.4	2.0	300	6.0	900	0.51
BF07-19-2.0	19	3/4	29.5	2.0	300	6.0	900	0.65



**RB2** (GB/T 3683  
MT/T 98)

**二层钢丝编织液压支架软管**

RB2 TWO STEEL WIRE BRAIDED HYDRAULIC SUPPORT HOSE



**结构** 胶管由耐油的内胶层、二层高强度镀铜钢丝编织层和耐候的外胶层组成, 外观为黑色布纹。

**应用** 适用于煤矿液压支架、综合采煤机组等液压系统输送矿物油、水基液压油或水, 温度范围为 -40°C~ +100°C。

**CONSTRUCTION**

This hose consist of an inner tube of oil synthetic rubber.Wire braids reinforcement and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

For delivery of water,mineral oil or water-based hydraulic oil in the hydraulic system of hydraulic frames,combined cool acttings in coal mine.Working temperature rangs is within-40°C ~ +100°C .Available in black with either corrugated or smooth finish.

型号 TYPE	公称内径 I.D		增强层直径 W.D		外径 O.D		工作压力 W.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
	mm	inch	mm	mm	MPa	psi	MPa	psi	mm	kg/m			
	RB2-6.3	6.3±0.2	1/4	13.4±0.4	15.6±0.5	56.0	8120	140.0	20300	100	0.48		
RB2-8	8.3±0.2	5/16	15.4±0.4	17.9±0.5	50.0	6960	128.0	18560	115	0.60			
RB2-10	10.0±0.2	3/8	17.4±0.4	19.9±0.5	45.0	5800	112.0	16240	130	0.68			
RB2-12.5	13.0±0.2	1/2	21.1±0.4	23.7±0.5	40.0	5220	100.0	14500	180	0.93			
RB2-16	16.2±0.5	5/8	24.2±0.5	26.6±0.5	32.0	4640	80.0	11600	205	1.07			
RB2-19	19.2±0.3	3/4	27.2±0.5	29.9±0.6	26.0	3625	64.0	9280	240	1.18			
RB2-25	25.2±0.3	1	33.7±0.5	37.0±0.6	22.0	3045	56.0	8120	300	1.52			
RB2-31.5	32.3±0.4	1-1/4	40.7±0.5	44.5±0.6	18.0	2465	44.0	6380	420	1.91			
RB2-38	38.3±0.4	1-1/2	47.0±0.5	50.6±0.6	14.0	1740	36.0	5220	500	2.10			
RB2-51	51.5±0.4	2	60.0±0.8	63.8±0.8	12.0	1160	32.0	4640	630	2.51			
RB2-63	64.5±0.5	2-1/2	73.5±0.8	77.5±0.8	11.0	725	28.0	4060	800	2.98			

**4SH** (GB/T 10544  
MT/T 98)

**四层钢丝缠绕高压液压支架软管**

4SH FOUR STEEL WIRE WINDING HIGH PRESSURE HYDRAULIC SUPPORT HOSE



**结构** 软管由耐油合成橡胶内胶层, 四层交替方向的钢丝缠绕层和耐油耐候合成橡胶外胶层组成, 外观为黑色布纹。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等矿用机械液压系统, 温度范围为 -40°C~ +100°C。

**CONSTRUCTION**

This hose shall consist of an inner tube of oil resistant synthetic rubber,four spiral plies of steel wire wrapped in alternating directions,and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of-40°C ~ +100°C .

型号 TYPE	软管规格 HOSE SIZE			内径 I.D		增强层直径 W.D		外径 O.D		工作压力 W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
				最小	最大	最小	最大	最小	最大	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	4SH-19	-12	19	3/4	18.7	19.3	27.9	28.9	30.3	31.3	60.0	8700	84.0	12180	168.0	24360	11.02	
4SH-25	-16	25	1	25.1	25.7	34.7	35.7	37.1	38.1	54.0	7830	76.0	11020	152.0	22040	13.39	340	2.50
4SH-31.5	-20	31.5	1-1/4	31.6	32.4	41.4	42.4	44.0	45.0	46.0	6670	65.0	9425	130.0	18850	18.11	460	3.00
4SH-38	-24	38	1-1/2	37.7	38.5	48.6	49.6	51.2	52.2	40.0	5800	58.0	8410	116.0	16820	22.05	560	3.60
4SH-51	-32	51	2	50.6	51.4	62.7	63.7	65.3	66.7	35.0	5075	50.0	7250	100.0	14500	27.56	700	5.00

**RB3** (GB/T 3683  
MT/T 98)

**三层钢丝编织液压支架软管**

RB3 THREE LAYER STEEL WIRE BRAIDED HYDRAULIC SUPPORT HOSE



**结构** 胶管由耐油的内胶层、三层高强度镀铜钢丝编织层和耐候的外胶层组成, 外观为黑色布纹。

**应用** 适用于煤矿液压支架、综合采煤机组等液压系统输送矿物油、水基液压油或水, 温度范围为 -40°C~ +100°C。

**CONSTRUCTION**

This hose consist of an inner tube of oil synthetic rubber.Wire braids reinforcement and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

For delivery of water,mineral oil or water-based hydraulic oil in the hydraulic system of hydraulic frames,combined cool acttings in coal mine.Working temperature rangs is within-40°C ~ +100°C .Available in black with either corrugated or smooth finish.

型号 TYPE	公称内径 I.D		增强层直径 W.D		外径 O.D		工作压力 W.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
	mm	inch	mm	mm	MPa	psi	MPa	psi	mm	kg/m			
	RB3-6.3	6.3±0.2	1/4	15.0±0.4	17.9±0.5	68.0	9860	170.0	24650	100	0.61		
RB3-8	8.3±0.2	5/16	17.0±0.4	20.6±0.5	50.0	7250	125.0	18125	115	0.79			
RB3-10	10.0±0.2	3/8	19.0±0.4	22.6±0.5	45.0	6525	112.5	16313	130	0.90			
RB3-12.5	13.0±0.2	1/2	23.0±0.4	26.6±0.5	40.0	5800	100.0	14500	180	1.20			
RB3-16	16.2±0.2	5/8	26.0±0.5	29.6±0.5	35.0	5075	87.5	12688	205	1.39			
RB3-19	19.2±0.3	3/4	29.0±0.5	32.6±0.6	28.0	4060	70.0	10150	240	1.54			
RB3-25	25.2±0.3	1	35.0±0.5	38.8±0.6	24.0	3480	60.0	8700	300	1.97			
RB3-31.5	32.2±0.4	1-1/4	42.5±0.6	46.6±0.6	19.0	2755	47.5	6887	420	2.48			
RB3-38	38.3±0.4	1-1/2	48.4±0.6	52.5±0.6	15.0	2175	37.5	5437	500	2.63			
RB3-51	51.5±0.4	2	61.5±0.8	65.5±0.8	14.0	2030	35.0	5075	630	3.05			

**R13** (GB/T 10544  
MT/T 98)

**多层钢丝缠绕苛刻条件下高压液压软管**

R13 HEAVY DUTY, HIGH IMPULSE, MULTIPLE SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE



**结构** 软管由耐油合成橡胶内胶层, 多层交替方向的粗钢丝缠绕层和耐油耐候合成橡胶外胶层组成, 外观为黑色布纹。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等矿用机械液压系统, 温度范围为 -40°C~ +121°C。

**CONSTRUCTION**

This hose shall consist of an inner tube of oil resistant synthetic rubber,multiple spiral plies of heavy steel wire wrapped in alternating directions,and an oil and weather resistant synthetic rubber cover.

**APPLICATIONS**

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of-40°C ~ +121°C .

型号 TYPE	软管规格 HOSE SIZE			内径 I.D		增强层直径 W.D		外径 O.D		工作压力 W.P		验证压力 P.P		最小爆破压力 min B.P		最小弯曲半径 min B.R		参考重量 W.T
				最小	最大	最小	最大	最小	最大	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	R13-19	-12	19	3/4	18.7	19.3	28.5	29.5	29.9	31.9	50.0	7250	70.0	10150	140.0	20300	9.45	
R13-25	-16	25	1	25.1	25.7	35.2	36.2	37.6	38.6	50.0	7250	70.0	10150	140.0	20300	11.81	300	2.88
R13-31.5	-20	31.5	1-1/4	31.6	32.4	46.3	47.3	48.9	49.9	50.0	7250	70.0	10150	140.0	20300	16.54	420	4.20
R13-38	-24	38	1-1/2	37.7	38.5	53.8	54.8	56.4	57.4	50.0	7250	70.0	10150	140.0	20300	19.69	500	5.00
R13-51	-32	51	2	50.6	51.5	67.6	68.6	70.2	71.6	50.0	7250	70.0	10150	140.0	20300	25.20	640	7.00

## 4SP (GB/T 10544 MT/T 98)

### 四层钢丝缠绕中压液压支架软管

4SP FOUR STEEL WIRE WINDING MEDIUM PRESSURE HYDRAULIC SUPPORT HOSE

**结构** 软管由耐油合成橡胶内胶层, 四层交替方向的钢丝缠绕层和耐油耐候合成橡胶外胶层组成, 外观为黑色布纹。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等矿用机械液压系统, 温度范围为 -40°C~ +100°C。



#### CONSTRUCTION

This hose shall consist of an inner tube of oil resistant synthetic rubber, four spiral plies of steel wire wrapped in alternating directions, and an oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

This section covers hose for use with petroleum base hydraulic fluids within a temperature range of -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		工作压力 W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小	最大	最小	最大	最小	最大	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	Min	Max	Min	Max	Min	Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
4SP-6.3	-4	6.3	1/4	6.4	6.8	14.2	15.2	16.6	17.6	63.0	9135	90.0	13050	180.0	26100	5.91	150	0.64
4SP-10	-6	10	3/8	9.5	9.9	17.0	18.0	19.4	20.4	62.0	8990	178.0	25810	178.0	25810	7.09	180	0.75
4SP-12.5	-8	12.5	1/2	12.7	13.3	19.9	20.9	22.3	23.3	58.0	8410	83.0	12035	166.0	24070	9.06	230	0.89
4SP-16	-10	16	5/8	15.8	16.4	23.5	24.5	25.9	26.9	50.0	7250	70.0	10150	140.0	20300	9.84	250	1.10
4SP-19	-12	19	3/4	18.7	19.3	27.7	28.7	30.1	31.1	50.0	7250	70.0	10150	140.0	20300	11.81	300	1.50
4SP-25	-16	25	1	25.1	25.7	34.8	35.8	37.2	38.2	40.0	5800	56.0	8120	112.0	16240	13.39	340	2.00
4SP-31.5	-20	31.5	1-1/4	31.6	32.4	45.5	46.5	48.1	49.1	30.0	4350	42.0	6090	84.0	12180	18.11	460	3.00
4SP-38	-24	38	1-1/2	37.7	38.5	51.9	52.9	54.5	55.5	26.0	3770	37.0	5365	74.0	10730	22.05	560	3.40
4SP-51	-32	51	2	50.6	51.5	64.8	65.8	67.4	68.8	24.0	3840	33.0	4785	66.0	9570	25.98	660	4.35

## SS01

### 超柔钢丝编织液压软管

按 EN 857 标准设计, 软管外径更小, 管体更柔软, 可作先导管使用。  
SOFT TYPE SINGLE WIRE BRAIDED HYDRAULIC HOSE

**结构** 软管由耐油的内胶层、一层钢丝编织的增强层和耐候的外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~ +100°C。



#### CONSTRUCTION

This hose consist of an inner tube of oil resistant synthetic rubber, one wire braid reinforcement and weather resistant synthetic rubber cover.

#### APPLICATIONS

For delivery of petroleum base hydraulic fluids, water base fluid, ethylene glycol aqueous solution etc in hydraulic system of mining machinery, Working temperature ranges is within -40°C ~ +100°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小	最大	最小	最大	最小	最大	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	Min	Max	Min	Max	Min	Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
SS01-0601	-4	6.3	1/4	6.1	6.5	9.3	10.1	10.9	11.7	22.5	3260	45.0	6525	90.0	13050	1.97	50	0.18

## SS04

### 超柔钢丝缠绕液压软管

按 EN 853 标准设计, 软管承压, 耐高温能力更高, 管体更柔软, 可替代 EN 853 标准软管。  
SOFT TYPE STEEL WIRE SPIRAL HYDRAULIC HOSE

**结构** 软管由耐油合成橡胶内胶层, 四层交替方向的柔软的钢丝缠绕层和耐油耐候合成橡胶外胶层组成。

**应用** 适用于输送石油基液压油、水基流体、乙二醇水溶液等的液压系统, 温度范围为 -40°C~ +121°C。



#### CONSTRUCTION

This hose consist of an inner tube of oil resistant synthetic rubber, four spirals steel wire reinforcement oil and weather resistant synthetic rubber cover.

#### APPLICATIONS

For delivery of petroleum base hydraulic fluids, water base fluid, ethylene glycol aqueous solution etc in hydraulic system of mining machinery, Working temperature ranges is within -40°C ~ +121°C.

型号 TYPE	软管规格 HOSE SIZE			内径 I.D.		增强层直径 W.D.		外径 O.D.		最大工作压力 max W.P.		验证压力 P.P.		最小爆破压力 min B.P.		最小弯曲半径 min B.R.		参考重量 W.T
				最小	最大	最小	最大	最小	最大	MPa	psi	MPa	psi	MPa	psi	inch	mm	
	Dash	mm	inch	Min	Max	Min	Max	Min	Max	MPa	psi	MPa	psi	MPa	psi	inch	mm	kg/m
SS04-604SK	-4	6.3	1/4	6.4	6.8	12.2	13.2	14.4	15.4	45.0	6525	90.0	13050	180.0	26100	1.77	45	0.44
SS04-804SK	-5	8	5/16	8.0	8.5	13.8	14.8	15.9	16.9	43.0	6235	86.0	12470	172.0	24940	1.97	50	0.49
SS04-1004SK	-6	10	3/8	9.5	9.9	16.2	17.2	18.2	19.2	42.0	6090	84.0	12180	168.0	24360	2.17	55	0.59
SS04-1304SK	-8	12.5	1/2	12.7	13.3	19.3	20.3	21.3	22.3	35.0	5075	70.0	10150	140.0	20300	2.36	60	0.71
SS04-1604SK	-10	16	5/8	15.8	16.4	22.4	23.6	24.5	25.7	30.0	4350	60.0	8700	120.0	17400	3.15	80	0.85
SS04-1904SK	-12	19	3/4	19.0	19.6	26.0	27.0	28.0	29.0	28.0	4060	56.0	8120	112.0	16240	4.33	110	1.14
SS04-2504SK	-16	25	1	25.0	25.6	33.4	34.4	35.6	36.6	28.0	4060	56.0	8120	112.0	14500	5.91	150	1.39
SS04-3204SK	-20	31.5	1-1/4	31.6	32.4	43.2	44.4	45.8	47.0	22.0	3190	44.0	6380	88.0	12760	7.48	190	2.15
SS04-3804SK	-24	38	1-1/2	37.7	38.5	49.5	50.7	52.5	53.7	20.0	2900	40.0	5800	80.0	11600	9.84	250	2.52
SS04-5104SK	-32	51	2	50.6	51.5	62.1	63.7	65.1	66.7	20.0	2900	40.0	5800	80.0	11600	11.81	300	3.49



## 软管使用指南

THE DIRECTION FOR USING HOSE

### 一、选取软管及软管组合件应当考虑以下方面:

- 工作环境: 环境温度, 气候条件, 和其他物料的外部接触;
- 输送介质: 液体, 气体, 固体, 或上述几种介质的混合物;
- 输送方式: 加压排送, 真空排吸引;
- 工作条件: 输送物料的压力和温度; 使用频率; 脉冲或运动;
- 装 配: 弯曲的程度; 系统的震动; 由于撞击和摩擦而导致损坏的危险; 正确连接型式的使用。

### 二、软管组合件具有有限的寿命, 降低寿命的因素包括:

- 将软管组合件弯曲到小于最小弯曲半径;
- 扭曲、拉伸、纹结、压轧或磨蚀软管;
- 在最高温度以上或最低温以下使用;
- 软管在超过最大工作压力的脉冲压力下使用 (脉冲压力是指压力的迅速和瞬间上升);
- 管接头质量不符合标准, 扣压质量不好;
- 软管总成在使用时, 接头拔脱或在距接头 25mm 内出的爆破, 都不应视为软管的质量问题, 这与接头质量、工装质量有关。外胶龟裂与使用时间、温度、环境有一定的关系, 外喷油漆时, 因硝基类油漆会加速软管的龟裂, 应在整机喷漆时用薄膜等遮盖物对软管进行保护。

### 三、软管及软管组合件的运输及存放要求:

- 软管的运输、搬运应做到轻拿轻放, 不应在锋利和粗糙的表面拖拽, 不应使其经受折曲和压扁;
- 软管或软管组合件在贮存, 尤其是在长期贮存期间, 贮存条件应对软管或软管组合件提供最佳的保护和最小的损害;
- 软管或软管组合件贮存期应尽可能地短, 如果不能避免长期贮存, 产品在使用前应进行检查和试验。贮存时, 贮存温度应在 0°C 到 35°C 之间, 最好在 15°C 左右, 相对湿度最好不应超过 65%。在贮存期间温度不应超过 50°C 和低于 -30°C, 也不应有反常的波动。应在远离阳光和强的人工光源的暗处贮存, 如果贮存内间有窗户或装有玻璃的开口, 应使用红、橙或白色遮盖物遮蔽;
- 贮存场地不应有臭氧、热源、产生电磁场的设备。盘卷的软管或软管组合件应平放贮存, 堆放的高度应限制在底部的产品不产生永久变形的程度, 不推荐将软管卷悬挂在桩钉上;
- 如果软管及软管组合件不可避免的在冰点以下温度中存放或者使用, 使用前, 必须对软管及软管组合件进行预热。

### A. When choosing hose, please pay attention to the followings:

- Working Environment: Working temperature, weather, and the connection with other materials;
- Conveyable Matter: Liquid, gases, solid, or the mixture of above matters;
- Convey Ways: Delivery matter under the pressure, delivery and suction under vacuum;
- Working Condition: The pressure and temperature for conveying matter, Use frequency, impulse and movements;
- Installation: Bending, vibration of the system, the risk of damaged caused by hitting and friction, application of the right connecting mode.

### B. The is a limited life for hose assembly; please pay attention that the followings would reduce the hose useful life:

- Make the bend radius smaller than the min bend radius.
- Twisting, stretching, weld line, squeeze or corrode the hose.
- To be used exceeded max temperature or lower the min temperature;
- TO be used exceeded the impulse pressure of the max working pressure (the impulse pressure means the rapid rise of pressure).
- The quality of fitting is not up to the standard and assembling is not well.
- Hose assembly is in use, or in the joint pulling away from the blasting joint out within 25mm, should not be regarded as the quality problem of the hose, and the joint quality of tooling quality. The rubber cracking temperature and the use of time, there is a certain relationship between the environment, spray paint, nitro for oil the paint will accelerate the cracking in the hose, painting film covering for the protection of the hose.

### C. Transport and storage requirements for hose and hose assemblies:

- Hose transportation, handling should be handled with care, should not drag on the surface of sharp and rough, which should not be subjected to bending and flattening.
- In storage, especially in long-term storage, storage conditions shall provide the best protection and minimal damage to the hose or hose assemblies.
- Hose or hose assemblies should be stored in the storage period as short as possible, if not to avoid long-term storage, the product should be inspected and tested before use. During the storage, the storage temperature should be 0°C to 35°C, preferably at about 15°C, the best relative humidity should not exceed 65%. during storage, the temperature should not exceed 50°C and lower than -30°C, also should not have abnormal fluctuations. Should be stored in the dark from artificial sunlight and strong light source, such as fruit storage inside have a window or an opening with a glass, should use red, orange or white shield covering.
- The storage site should not produce ozone, heat, electromagnetic equipment. Disc hose or hose assembly volume should be placed in storage, stacking height should be limited at the bottom of the product does not produce permanent deformation degree, do not recommend hose hanging on the dowel pin.
- If the hose and hose assemblies are to be stored or used at temperatures below freezing point, it is necessary to preheat the hose and hose assemblies before use.

### 四、软管的使用要求:

- 充入软管中的压力 (包括脉冲力) 不得超过规定的最大工作压力;
- 软管不得在规定或建议的温度范围以外的温度 (包括所输送物料的温度和环境温度) 下使用;
- 软管不得在小于软管生产厂家规定或建议的最小弯曲半径下使用, 否则会限制所输送物料的通过, 并降低使用寿命。应当避免在软管接头附近弯曲或扭曲, 这些部位的弯曲会使软管的增强层疲劳损坏, 从而使软管过早的损坏;
- 软管不得在扭曲状态下工作使用;
- 管接头的边棱应光滑, 芯子、外套等附件的尺寸必须保证。扣压质量的控制, 不足或过大都会使组合件过早损坏;
- 软管具有有限的使用寿命, 请定期检查更换。

### 五、警告:

- 液压软管组合件因使用时间长、损坏、磨损或者扣压、安装不当, 存在软管爆破或者接头拔脱的危险, 其产生的威力, 严重的会造成财产损失, 甚至人身伤害、死亡, 不可忽视。

## 软管组合件的安装

INSTALLING FLEXIBLE HOSE

软管组合件的长度根据安装情况确定。压力下可能出现的缩短或拉长应根据软管标准的规定来考虑。为保证不因附加负荷而缩短软管组合件的寿命, 组合件的安装通常应满足如下要求:

1. 在安装软管和软管组合件之前, 应进行检查以保证软管内壁的清洁和没有堵塞物, 管接头不得有外来杂质或毛刺、毛边、表面缺陷, 特别是管接头芯子上的表面缺陷有造成外泄露的危险, 应当避免。
2. 应避免软管扭转。(见图 1);
3. 除软管自重外, 尽可能降低软管工作状态下承受额外的张力。(见图 2);
4. 软管不应低于最小弯曲半径进行安装。(见图 3);
5. 在弯曲安装时, 软管弯曲应当在 1.5d (d 为软管直径) 的长度上开始, 否则出现铰式支撑。(见图 4);
6. 采取相应的措施避免软管组合件受外部机械损伤。(见图 5);
7. 通过使用相应的管头或连接件避免软管出现附加负荷。(见图 6);
8. 软管组合件在相同的水面出现移动或弯曲, 通过合理的安装来避免软管扭转。(见图 7);
9. 软管组合件使用活动部件时, 软管组合件在整个运动范围内不小于最小弯曲半径, 不应承受额外的拉力负荷。(见图 8);
10. 夹持软管时, 避免采用妨碍软管自然移动和长度变化的夹式。(见图 9);
11. 应将由于振动引起的压力降低到最低限度并尽可能的避免。如果软管组合件是连接在刚性部件上, 应当采用合适的卡箍并尽量接近连接处;
12. 应当避免软管 (例如排气系统附近) 受到热辐射, 在高温位置可以采用隔热罩或隔热材料将软管保护起来。

### D. Requirements for using hose:

- The pressure (including the impulse pressure) filled in the hose must not be exceeded the max working pressure;
- Hose can not be used under the temperature not stipulated or suggested including the conveyable matter's temperature and environment temperature;
- Hose can not be used under the bend radius that is smaller than min bend radius stipuated or suggested, or it will block the matter passing, and reduce the hose useful life. The hose should be present from twisting or warping around the connection part, because the bending for this part will damage the reinforcement, as a result, the hose will be damaged quickly;
- The hose can not be used when it is twisted;
- The edge of hose fitting should be smooth; the size of mandril, sleeve or other accessory must be in confirmed. Less or more control of assembling power will also damage the assembly;
- There is a limited life for hose, please check and change it regularly.

### E. Warning:

- Hydraulic hose assemblies for use for a long time, damage, wear or buckling, improper installation, or removal of existing blasting hose joint shifting of the dangers of its power, serious word cause property damage, personal injury, or even death, can not be ignored.

The length of hose assembly should be according to the necessity of installation. We should take it in our consideration that the hose would be shorter or longer under the pressure according to the standard regulation. In order not to reduce the useful life caused by the load, the hose assembly installation should meet following requirements:

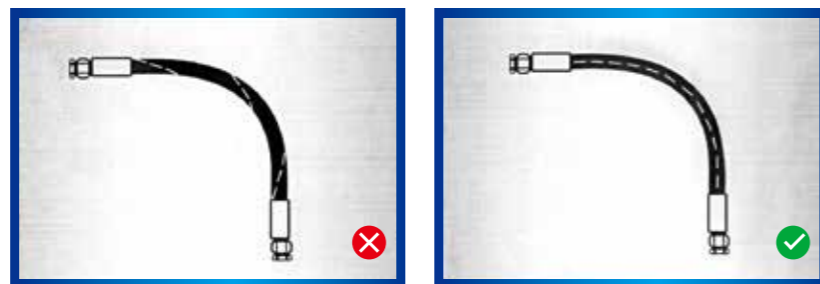
- Befor installing the hose and the hose assembly, you should check the inner, and make sure they are clean and no stem. And there must not be foreign impurity or small ting in the fittings. Surface defects, especially the hose fitting mandril's, would cause a dangerous of leakiness, we should be avoid of using it.
- It should not be twisted (see illustrations 1);
- 3. Except itself weight, reduce the additional tension while the hose is working. (see illustrations 2);
- 4. It is not allowed to install under the bend radius is less than the stipulated minimum bend radius. (see illustrations 3);
- 5. In the installation, the hose length should be at least in 1.5 times diameters of the hose, or it will become hinged bearing. (see illustrations 4);
- 6. Do some relevant measure to avoid the damage caused by external equioment. (see illustrations 5);
- 7. Avoiding addition load to the hose via using suitable fittings or connections. (see illustrations 6);
- 8. When there is movement or bend on one plane on hose, please do some reasonable installation to avoid its twisting. (see illustrations 7);
- 9. When put some active components use in hose assembly, the bend radius can not be less than the min bend radius and can not add addition tension during the whole movement. (see illustrations 8);
- 10. When infibulating hose, can not use the infibulated mode that obstruct the normal movement and change hose length. (see illustrations 9);
- 11. It should reduce the power caused by the vibrating to minimum, and it is better to be prevent from it. If the hose assembly is connected to the hard component, it should adopt suitable hoop and fit it near to the connection.
- 12. Be avoiding heat radiation; for example, be not near the exhausting system. The hose can be protected by the thermal-protective coating or adiabatic material.

## 软管组合件的安装

INSTALLING FLEXIBLE HOSE

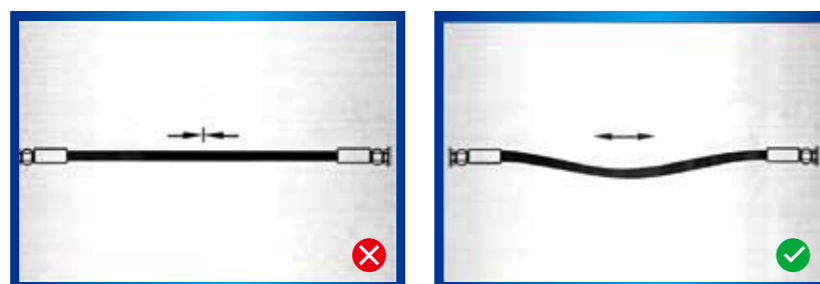
图一: 软管不能扭转

Illustrations 1: Can not be twisting



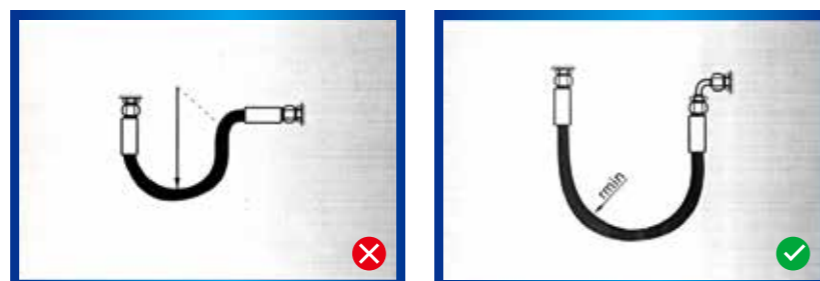
图二: 降低软管工作状态下的张力

Illustrations 2: Reduce the tension while it's working



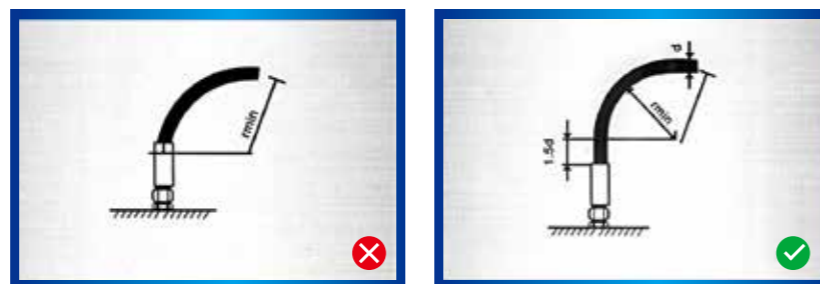
图三: 软管弯曲不能低于最小弯曲半径

Illustrations 3: The bend radius can not be less than the u bend radius



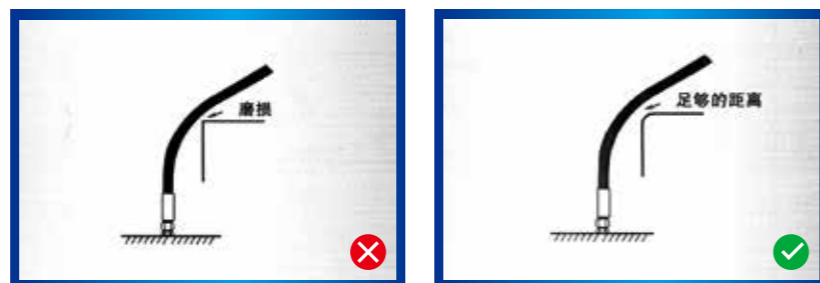
图四: 避免软管出现铰式支撑

Illustrations 4: Avoiding the hinged bearing



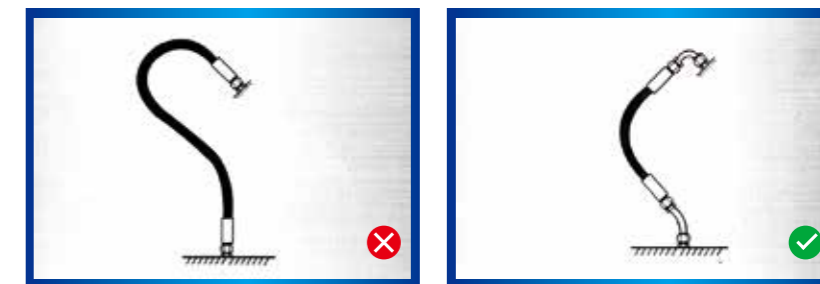
图五: 避免软管受外部机械损伤

Illustrations 5: Avoiding the damage caused by external equipment



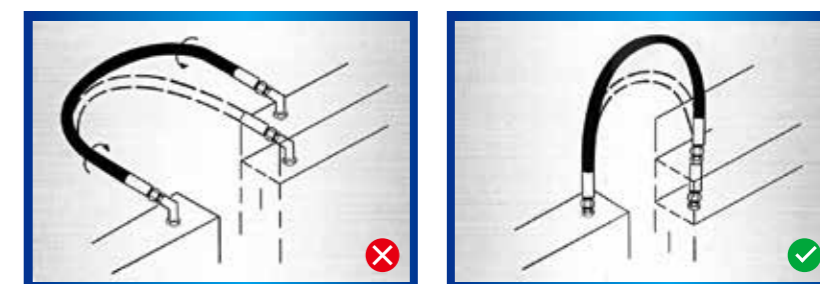
图六: 避免软管出现附加负荷

Illustrations 6: Avoiding addition load on the hose



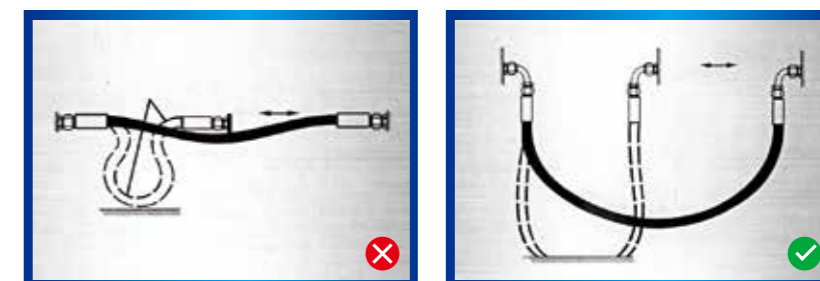
图七: 避免软管扭转 (使用于活动部件连接情形)

Illustrations 7: Avoiding twitting (in the active connection)



图八: 避免软管小于弯曲半径及承受额外拉力负荷 (使用于活动部件连接情形)

Illustrations 8: Avoiding the bend radius less than the min bend radius and more addition tension on the hose (in the active connection)



图九: 避免夹持方式妨碍软管自然移动和长度变化

Illustrations 9: Avoiding infibulated mode obstruct the normal movement and change hose length

