

R A J Hydraulic Pipes & Fittings Trading L.L.C.

ارايه جيه هيدروليک لتجارة الانابيب والمواسير ش.ذ.م.م

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INTRODUCTION

Raj Trading & Mfg Co. an ISO 9001:2008 company, was incorporated in 1990 in 190/3A, Nagdevi street, Mumbai. Being specialized in High Pressure Hoses / Ranging from 200 PSI to 24000 PSI. offshore hoses like cementing Hoses, Oil transfer hoses, Bunker hoses Etc. Company has established itself as one of the leading suppliers of dozens of products.

The Company had rapid development by hard work and company is now about to introduce itself as a CONSTRUCTION EARTHMOVING EQUIPMENTS. We offer a wide range of genuine i.e. products / alternate parts.

The target of Raj Trading & Mfg. Co. is those customers in OFF SHORE and ONSHORE RIGS for which the standard service of the common items is not sufficient. We seek to distinguish ourselves by providing the most possible flexibility and reliability in customer service. Our global agency network enables clients to benefit from a package tailored to their individual needs and time requirements, the company policies to put continues investment in development, deliver premium quality products and commitment to provide a higher standard of service to customers, and ensures accurate delivery of even the most complex orders and we are approaching new clients in Steel industries and Pharmaceutical industries.

If you require any further information kindly feel free to get in touch with us, so that we may do the needful on hearing from you. looking forward to establishing a long lasting relationship with you and assuring our best services at all times.

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(Built-in couplings) High-Pressure Mud Hose/ Rotary Hose/ Vibrator Hose



- **Application:**

Hose is flexible connection between top of standpipe and vertically move swivel on offshore and in-land oil drilling and exploration. Vibrator hose is flexible connection between mud pump manifold and standpipe, for adjustment and isolating vibration.

- **Executive standard:** API Spec 7K / ISO 6807 / GB/T 24145

- **API Monogram No.:** 7K-0458

- **Hose structure:**

Tube: Nitrile rubber based liner sealing layer, oil resistance, seawater resistance, high temperature resistance.

Breaker Layer and external protection layers: High tension textile fabric

Major Reinforcement for withstanding pressure: High Strength Steel Cable

Cover: Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is designed for marine environment.

- **Fire proof requirement:**

Regular supplied hose meets fire proof grade SR6A, which is 704°C x 5min

Fire-Rated Hose supplied as per request with extra fiber glass out layers for fire shield, meet fire proof grade SR6B, which is 704°C x 30 min

- **Embedded electric heat trace cable is available as request for low temperature operating condition.**

- **Different option of external protection layer are available as request or by our recommendation according to individual operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.**

- **Working temperature range:** Class II, -25°C to +100°C

- **Flexibility specification level:** FSL2

- **Maximum continuous length:** 70m

- **Length tolerance:** Length up to 6.4m, with tolerance + 64 mm; Length longer than 6.4M with tolerance $\pm 1\%$

- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**



Type	API Level	Internal Diameter (inch)	Internal Diameter (mm)	Outer Diameter (inch)	Outer Diameter (mm)	Working Pressure (bar)	Working Pressure (psi)	Test Pressure (bar)	Test Pressure (psi)	Flame Shield	Safety Coefficient	FSL	MBR (Storage) (m)	MBR (Operation) (m)	Weight (kg/m)	Length Max (m)
RAJ-A1-51X34.5	D	2	51	3.58	91	345	5,000	690	10,000	No	2.5	FSL2	0.8	0.9	11.24	70
RAJ-A2-51X34.5	D	2	51	4.17	106	345	5,000	690	10,000	Yes	2.5	FSL2	0.8	0.9	15	70
RAJ-A3-64X34.5	D	2.5	64	4.06	103	345	5,000	690	10,000	No	2.5	FSL2	0.8	0.9	13	70
RAJ-A4-64X34.5	D	2.5	64	4.65	118	345	5,000	690	10,000	Yes	2.5	FSL2	0.8	0.9	16	70
RAJ-A5-76X34.5	D	3	76	4.72	120	345	5,000	690	10,000	No	2.5	FSL2	1.1	1.2	18	70
RAJ-A6-76X34.5	D	3	76	5.28	134	345	5,000	690	10,000	Yes	2.5	FSL2	1.1	1.2	20	70
RAJ-A7-89X34.5	D	3.5	89	5.28	134	345	5,000	690	10,000	No	2.5	FSL2	1.2	1.3	21	70
RAJ-A8-89X34.5	D	3.5	89	5.75	146	345	5,000	690	10,000	Yes	2.5	FSL2	1.2	1.3	25	70
RAJ-A9-102x34.5	D	4	102	6.3	160	345	5,000	690	10,000	No	2.5	FSL2	1.2	1.4	35	70
RAJ-A10-102x34.5	D	4	102	6.8	173	345	5,000	690	10,000	Yes	2.5	FSL2	1.2	1.4	38	70
RAJ-A11-127x34.5	D	5	127	7.52	191	345	5,000	690	10,000	No	2.5	FSL2	1.4	1.5	51	70
RAJ-A12-127x34.5	D	5	127	8.07	205	345	5,000	690	10,000	Yes	2.5	FSL2	1.4	1.5	56	70
RAJ-A13-152x34.5	D	6	152	8.82	224	345	5,000	690	10,000	No	2.5	FSL2	1.6	1.8	57	70
RAJ-A14-51X51.7	E	2	51	4.06	103	517	7,500	1034	15,000	No	2.5	FSL2	1.1	1.2	19	70
RAJ-A15-64X51.7	E	2.5	64	4.88	124	517	7,500	1034	15,000	No	2.5	FSL2	1.1	1.2	28	70
RAJ-A16-64X51.7	E	2.5	64	5.35	136	517	7,500	1034	15,000	Yes	2.5	FSL2	1.1	1.2	31	70
RAJ-A17-76X51.7	E	3	76	5.43	138	517	7,500	1034	15,000	No	2.5	FSL2	1.2	1.3	31	70
RAJ-A18-76X51.7	E	3	76	5.98	152	517	7,500	1034	15,000	Yes	2.5	FSL2	1.2	1.3	35	70
RAJ-A19-89X51.7	E	3.5	89	5.94	151	517	7,500	1034	15,000	No	2.5	FSL2	1.3	1.4	38	70
RAJ-A20-89X51.7	E	3.5	89	6.57	167	517	7,500	1034	15,000	Yes	2.5	FSL2	1.3	1.4	42	70
RAJ-A21-102X51.7	E	4	102	6.61	168	517	7,500	1034	15,000	No	2.5	FSL2	1.4	1.5	44	70
RAJ-A22-102X51.7	E	4	102	7.17	182	517	7,500	1034	15,000	Yes	2.5	FSL2	1.4	1.5	50	70
RAJ-A23-127x51.7	E	5	127	8.03	204	517	7,500	1034	15,000	No	2.5	FSL2	1.5	1.6	64	70
RAJ-A24-127x51.7	E	5	127	8.58	218	517	7,500	1034	15,000	Yes	2.5	FSL2	1.5	1.6	69	70
RAJ-A25-152x51.7	E	6	152	9.76	248	517	7,500	1034	15,000	No	2.5	FSL2	1.6	1.8	92	70



(Built-in couplings) High-Pressure Cement Hose



- **Application:**

- It is used in well cementation system of offshore and land drilling rig, flexible connection between cementing pump and top drive for delivery of high-pressure cement.

- **Standard:** API Spec 7K / ISO 6807 / GB/T 24145

- **API Monogram No.:** 7K-0458

- **Hose structure:**

Tube: CR rubber based liner sealing layer, abrasive resistance, alky-acid resistance, high temperature resistance.

Breaker Layers and external protection layers: High tension textile fabric

Major Reinforcement for withstanding pressure: High strength steel cable

Cover: Neoprene based cover rubber, anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is applicable for marine environment.

- **Fire proof grade:**

Regular supplied hoses meet fire proof grade SR6A, 704°C × 5min

Fire-rated hoses supplied as per request with extra fiberglass out layers for fire shield, meet fire proof grade SR6B, 704°C × 30min

- **Embedded electric heat trace cable is available as request for low temperature operating condition.**

- **Different option of external protection layer are available as request or by our recommendation according to specific operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.**

- **Working temperature range:** class II, -25°C to +100°C

- **Flexibility specification level:** FSL0

- **Maximum continuous length:** 70m

- **Length tolerance:** Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance ± 1%

- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**



Specification	Internal Diameter (inch)	Internal Diameter (mm)	Outer Diameter (inch)	Outer Diameter (mm)	Working Pressure (bar)	Working Pressure (psi)	Test Pressure (bar)	Test Pressure (psi)	Flame Shield	Safety Coefficient	FSL	MBR (Storage) (m)	MBR (Operation) (m)	Weight (kg/m)	Length Max (m)
RAJ-B1-51X69	2	51	4.06	103	690	10,000	1,034	15,000	No	2.25	FSL0	1.1	1.2	19	70
RAJ-B2-51X69	2	51	4.69	119	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.1	1.2	22.7	70
RAJ-B3-64X69	2.5	64	4.94	125.5	690	10,000	1,034	15,000	No	2.25	FSL0	1.2	1.3	29	70
RAJ-B4-64X69	2.5	64	5.57	141.5	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.2	1.3	33	70
RAJ-B5-76X69	3	76	5.98	152	690	10,000	1,034	15,000	No	2.25	FSL0	1.3	1.4	45	70
RAJ-B6-76X69	3	76	6.5	165	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.3	1.4	48.5	70
RAJ-B7-102x69	4	102	6.42	163	690	10,000	1,034	15,000	No	2.25	FSL0	1.4	1.5	41	70
RAJ-B8-102X69	4	102	6.93	176	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.4	1.5	44	70
RAJ-B9-51X103.4	2	51	4.57	116	1,034	15,000	1,552	22,500	No	2.25	FSL0	1.3	1.4	27	70
RAJ-B10-51X103.4	2	51	5.08	129	1,034	15,000	1,552	22,500	Yes	2.25	FSL0	1.3	1.4	30	70
RAJ-B11-64X103.4	2.5	64	5.91	150	1,034	15,000	1,552	22,500	No	2.25	FSL0	1.4	1.5	48	70
RAJ-B12-64X103.4	2.5	64	6.42	163	1,034	15,000	1,552	22,500	Yes	2.25	FSL0	1.4	1.5	51	70
RAJ-B13-76X 103.4	3	76	6.61	168	1,034	15,000	1,552	22,500	No	2.25	FSL0	1.5	1.6	59	70
RAJ-B14-76X103.4	3	76	7.13	181	1,034	15,000	1,552	22,500	Yes	2.25	FSL0	1.5	1.6	62	70



(Swaged couplings) High-Pressure Mud Hose/ Rotary Drilling Hose/ Vibrator Hose/ Cement Hose



• Application:

Hose is flexible connection between top of standpipe and vertically moving swivel on offshore and in-land oil drilling and exploration. Vibrator hose is flexible connection between mud pump manifold and standpipe, for adjustment and isolating vibration.

Cement hose is flexible connection between cementing pump and top drive on offshore and land drilling rig for delivery of high-pressure cement

• **Standard:** API Spec 7K / ISO 6807 / GB/T 24145

• **API monogram No.:** 7K-0458

• Hose structure:

Tube: Nitrile rubber based liner sealing layer, oil resistance, acid & alkali resistance, high temperature resistance and ageing resistance

Breaker Layer and external protection layers: High tension textile fabric

Major Reinforcement for withstanding pressure: High Strength Steel Cable

Cover: Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is designed for marine environment.



• Fire proof grade:

Regular supplied hose meets fire proof grade SR6A, which is 704°C × 5min

Fire-Rated Hose supplied as per request with extra fire proof out layers meet fire proof grade SR6B, which is 704°C × 30min

- Embedded electric heat trace cable is available as request for low temperature operating condition.
- Different option of external protection layer are available as request or by our recommendation according to individual operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.
- Working temperature range: class II, -25°C to +100°C
- Flexibility specification level: FSL2
- Maximum continuous length: 70m
- Length tolerance: Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance ± 1 %
- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**

 Specification	 Internal (inch)	 Dia- meter (mm)	 Outer (inch)	 Dia- meter (mm)	 Working Pressur (bar) (psi)		 Test Pressure (bar) (psi)		 Flame Shield	 Safety Coeffi- cien	 FSL	 MBR (Storage) (m)	 MBR (Operation) (m)	 Weight (kg/m)	 Length Max (m)
RAJ-C1-51x34.5	2	51	3.43	87	345	5,000	690	10,000	No	2.5	FSL2	0.8	0.9	10.2	70
RAJ-C2-64X34.5	2.5	64	4.02	102	345	5,000	690	10,000	No	2.5	FSL2	0.8	0.9	13.6	70
RAJ-C3-76X34.5	3	76	4.49	114	345	5,000	690	10,000	No	2.5	FSL2	1.1	1.2	15.4	70
RAJ-C4-89X34.5	3.5	89	5.16	131	345	5,000	690	10,000	No	2.5	FSL2	1.2	1.3	20	70
RAJ-C5-102x34.5	4	102	5.71	145	345	5,000	690	10,000	No	2.5	FSL2	1.2	1.4	22.4	70
RAJ-C6-127x34.5	5	127	7.52	191	345	5,000	690	10,000	No	2.5 -	FSL2	1.4	1.5	47.8	70
RAJ-C7-152X34.5	6	152	8.5	216	345	5,000	690	10,000	No	2.5	FSL2	1.6	1.8	58	70
RAJ-C8-51x5 1.7	2	51	3.9	99	517	7,500	1,034	15,000	No	2.5	FSL2	1.1	1.2	18.2	70
RAJ-C9-64X51.7	2.5	64	4.74	120.5	517	7,500	1,034	15,000	No	2.5	FSL2	1.1	1.2	26.4	70
RAJ-C10-76X51.7	3	76	5.28	134	517	7,500	1,034	15,000	No	2.5	FSL2	1.2	1.3	30.2	70
RAJ-C11-89X51.7	3.5	89	5.79	147	517	7,500	1,034	15,000	No	2.5	FSL2	1.2	1.3	36.4	70
RAJ-C12-102x5 1.7	4	102	6.3	160	517	7,500	1,034	15,000	No	2.5	FSL2	1.3	1.4	40.4	70
RAJ-C13-127X51.7	5	127	7.32	186	517	7,500	1,034	15,000	No	2.5	' FSL2	1.4	1.5	48.2	70
RAJ-C14-51X69	2	51	3.9	99	690	10,000	1,034	15,000	No	2.25	FSLO	1.1	1.2	18.2	70
RAJ-C15-64X69	2.5	64	4.74	120.5	690	10,000	1,034	15,000	No	2.25	FSLO	1.2	1.3	26.4	70
RAJ-C16-76X69	3	76	5.28	134	690	10,000	1,034	15,000	No	2.25	FSLO	1.3	1.4	30.2	70
RAJ-C17-89x69	3.5	89	5.79	147	690	10,000	1,034	15,000	No	2.25	FSLO	1.3	1.4	36.4	70
RAJ-C18-102x69	4	102	6.3	160	690	10,000	1,034	15,000	No	2.25	FSLO	1.3	1.4	40.4	70



Fire-Rated Tensioner Hose



- **Application:**

Used for transmission of fire resistance hydraulic oil, and used with riser tensioner on deepwater semi-submersible drilling platform to compensate the drift stroke of the drill pipe.

- **Standard:** API Spec 7K/ API Spec 17K/ GB/T31065

- **API monogram No.:** 7K-0458/ 17K-0008

- **Hose structure:**

Tube: stainless steel carcass + NBR or HNBR rubber based liner sealing layer, oil resistance, corrosion resistance, high temperature resistance, gas permeation resistance (HNBR)

Breaker layers and external protection layers: High tension textile fabric layers

Major Reinforcement for withstanding pressure: High strength steel cable

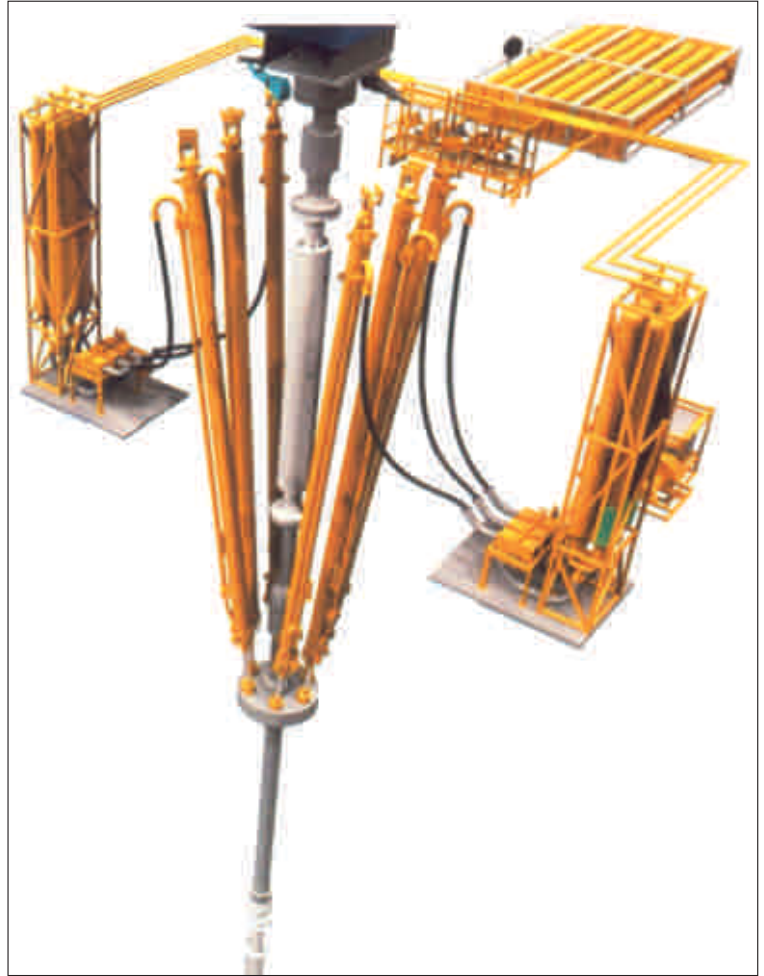
Fire proof layers: fiber glass layers underneath cover rubber.

Cover: Neoprene rubber based cover, fire-proof, wear resistance, oil resistance, ozone/ageing resistance, UV resistance, which is applicable for challenging marine environment.



- **Fire resistance according to standard API Spec 16C, at 704°C ×30min**
- **Different option of external protection layer are available as request, or by our recommendation according to specific operation condition, for example stainless steel outer wrap armor, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.**
- **Working temperature:** class I, -25°C to +82°C
- **Flexibility specification level:** FSL1
- **Maximum length:** 60m
- **Length tolerance:** 6.4m ± 64 mm and below, ± 1 % of hose with a length of greater than 6.4m
- **Measuring basis of minimum bending radius is the center line of each hose**

Specification	Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	psi	Burst Pressure (bar)	psi	Safety Coeffi- cien	MBR (Storage) (m)	MBR (Operation) (m)	Weight (kg/m)	Length Max (m)
RAJ-D1-102x21	4	102	7.64	194	207	3000	414	6,000	2.5	1.4	1.6	57.6	70
RAJ-D2-152x21	6	152	8.94	227	207	3000	414	6,000	2.5	1.6	1.8	82	70
RAJ-D3-203X21	8	203	11.81	300	207	3000	414	6,000	2.5	2	2.2	100	55



(Built-in Couplings) Unbalanced Drilling Hose



- **Application:**

- Used for delivery of high pressure drilling fluid mixed with gas while unbalanced drilling technology applied, such as drilling fluid mixed with nitrogen, air, mixed gas from air and nitrogen, natural gas. Gas mixed is for foaming and lighting fluid weight

- **Standard:** API Spec 7K

- **API monogram No.:** 7K-0458

- **Hose structure:**

Inner tube: Polymer engineering plastic

Inner rubber layer: HNBR based inner rubber layer, oil resistance, corrosion resistance, high temperature resistance, gas permeation resistance

Breaker layers and external protection layers: High tension textile fabric

Major Reinforcement for withstanding pressure: high strength steel cable

Cover: Neoprene rubber based cover, fire-proof, wear resistance, oil resistance, ozone/ageing resistance, UV resistance, which is applicable for challenging marine environment.

- **Fire proof grade:**

General hose meets the requirements on general fire protection grade SR6A, 704° C (1300° F) ×5min

The hose can be coated with a fireproofing anti-flaming layer (fiberglass fire protection layer), it meets the requirements on high fire protection grade SR6B, 704° C (1300° F) ×30min

- **Embedded electric heat trace cable is available as request for low temperature operating condition.**

- **Different option of external protection layer are available as request or by our recommendation according to specific operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.**

- **Working temperature range:** class II, -25°C to +100 °C

- **Flexibility specification level:** FSL3

- **Maximum length:** 70m

- **Length tolerance:** Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance ± 1 %

- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**



Specification	Internal (inch)	Dia-meter (mm)	Outer (inch)	Dia-meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coeffi-cien	MBR (Storage) (m)	MBR (Operation) (m)	Weight (kg/m)	Length Max (m)
RAJ-E1-51X34.5	2	51	4.17	106	345	5,000	690	10,000	2.5	0.8	0.9	10	70
RAJ-E2-64X34.5	2.5	64	4.6	118	345	5,000	690	10,000	2.5	0.9	1	16	70
RAJ-E3-64X51.7	2.5	64	5.35	136	517	7,500	1,034	15,000	2.5	1	1.2	23	70
RAJ-E4-76X34.5	3	76	5.28	134	345	5,000	690	10,000	2.5	1	1.2	18	70
RAJ-E5-76X51.7	3	76	5.98	152	517	7,500	1,034	15,000	2.5	1.1	1.3	32	70
RAJ-E6-89X34.5	3.5	89	5.75	138	345	5,000	690	10,000	2.5	1.2	1.4	22	70
RAJ-E7-89X51.7	3.5	89	6.57	167	517	7,500	1,034	15,000	2.5	1.3	1.5	37	70
RAJ-E8-102X34.5	4	102	6.8	173	345	5,000	690	10,000	2.5	1.3	1.5	35	70
RAJ-E9-102X51.7	4	102	7.08	168	517	7,500	1,034	15,000	2.5	1.4	1.6	41	70
RAJ-E10-127X34.5	5	127	8.11	206	345	5,000	690	10,000	2.5	1.5	1.6	54	70
RAJ-E11-127X51.7	5	127	8.66	220	517	7,500	1,034	15,000	2.5	1.5	1.7	68	70



Flexible Choke & Kill Hose



- **Application:**

API 16C Choke and kill line is an importance part in choke and kill system, which is integral part of surface and subsea blowout prevention equipment. 1. This hose allows to pump fluid to the well when normal circulation through the drill string can't be employed; 2. Additionally the choke line and manifold provide a means of applying back pressure on the formation while circulating out formation fluid influx into the well bore following a kick; 3. Sour service

- **Standard:** API Spec 16C

- **Hose structure :**

Internal tube: Particular polymer engineering plastic as inner sealing tube

Internal rubber liner: HNBR based inner sealing elastomer, which is good for fluid with H₂S, oil resistance, corrosion resistance, high temperature resistance, gas permeation resistance

Breaker layer and external protection layer: high tension textile fabric

Reinforcement for major pressure withstand: high strength steel cable

Fire shield layer: glass fiber cloth

Cover: Neoprene rubber based cover layers, fire resistance, wear resistance, oil resistance, ozone & ageing resistance, UV resistance which is applicable for critical marine environment

- **Hose passed verification test specified in Clause B12 of API 16C**

- **Heat trace cable can be assembled by functional requirement**

- **Different option of external protection layer are available as request or by our recommendation according to operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.**

- **Metal connectors:** meet NACE MR0175 / ISO 15156

- **Working temperature range:** class II, -25°C to +100 °C

- **Flexibility specification level:** FSL3

- **Maximum length:** 70m

- **Length tolerance:** Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance $\pm 1\%$

- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**



 Specification	 Internal (inch)	 Dia- meter (mm)	 Outer (inch)	 Dia- meter (mm)	 Flame Shield	 Armored	 Working Pressure (bar) (psi)		 Test Pressure (bar) (psi)		 Safety Coeffi- cien	FSL	 MBR (Storage) (m)	 MBR (Operation) (m)	 Weight (kg/m)	 Length Max (m)
RAJ-F1-51x34.5	2	51	5.12	130	Yes	No	345	5,000	517	7,500	2.25	FSL3	0.8	0.9	27.5	70
RAJ-F2-51X34.5+SS	2	51	5.47	139	Yes	Yes	345	5,000	517	7,500	2.25	FSL3	0.9	1	31.8	70
RAJ-F3-51x69	2	51	5.31	135	Yes	No	690	10,000	1,034	15,000	2.25	FSL3	0.9	1	30.2	70
RAJ-F4-51X69+SS	2	51	5.67	144	Yes	Yes	690	10,000	1,034	15,000	2.25	FSL3	0.9	1	34	70
RAJ-F5-51X103.4	2	51	5.87	149	Yes	No	1,034	15,000	1,552	22,500	2.25	FSL3	1.2	1.3	44.8	70
RAJ-F6-51X103.4+SS	2	51	6.38	162	Yes	Yes	1,034	15,000	1,552	22,500	2.25	FSL3	1.2	1.3	51.6	70
RAJ-F7-76X34.5	3	76	6.06	154	Yes	No	345	5,000	517	7,500	2.25	FSL3	1.1	1.2	38	70
RAJ-F8-76X34.5+SS	3	76	6.5	165	Yes	Yes	345	5,000	'517	7,500	2.25	FSL3	1.2	1.3	42.6	70
RAJ-F9-76X69	3	76	6.3	160	Yes	No	690	10,000	1034	15,000	2.25	FSL3	1.4	1.5	39.6	70
RAJ-F10-76X69+SS	3	76	6.77	172	Yes	Yes	690	10,000	1034	15,000	2.25	FSL3	1.4	1.5	46.5	70
RAJ-F11-76X103.4	3	76	7.6	182	Yes	No	1,034	15,000	1,552	22,500	2.25	FSL3	1.5	1.7	59.7	70
RAJ-F12-76X103.4+SS	3	76	7.68	195	Yes	Yes	1,034	15,000	1,552	22,500	2.25	FSL3	1.5	1.7	68.3	70
RAJ-F13-102x34.5	4	102	9.13	232	Yes	No	345	5,000	517	7,500	2.25	FSL3	1.4	1.5	96	70
RAJ-F14-102X34.5+SS	4	102	9.56	243	Yes	Yes	345	5,000	517	7,500	2.25	FSL3	1.4	1.5	107	70
RAJ-F15-102x69	4	102	9.25	235	Yes	No	690	10,000	1,034	15,000	2.25	FSL3	1.5	1.6	97.3	70
RAJ-F16-102X69+SS	4	102	9.64	245	Yes	Yes	690	10,000	1,034	15,000	2.25	FSL3	1.5	1.6	108.6	70

Flexible Choke & Kill Hose



- **Application:**

API 16C Choke and kill line is an importance part in choke and kill system, which is an integral part of surface and subsea blowout prevention equipment. 1. This hose allows to pump fluid to the well when normal circulation through the drill string cant be employed; 2. Additionally the choke line and manifold provide a means of applying back pressure on the formation while circulating out formation fluid influx into the well bore following a kick; 3. Sour service

- **Standard:** API Spec 16C

- **Hose structure :**

Inner carcass: stainless steel carcass

Internal tube: Particular polymer engineering plastic as inner sealing tube

Internal rubber liner: HNBR based inner sealing elastomer, which is good for fluid with H₂S, oil resistance, corrosion resistance, high temperature resistance, gas permeation resistance

Breaker layer and external protection layer: high tension textile fabric

Reinforcement for major pressure withstand: high strength steel cable

Fire shield layer: glass fiber cloth

Cover: Neoprene rubber based cover layers, fire resistance, wear resistance, oil resistance, ozone & ageing resistance, UV resistance which is applicable for critical marine environment



- **Hose passed verification test specified in Clause B12 of API 16C**
- **Heat trace cable can be assembled by functional requirement**
- **Different option of external protection layer are available as request or by our recommendation according to operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.**
- **Metal connectors:** meet NACE MR0175 / ISO 15156
- **Working temperature range:** Class III, -25°C to +121 °C
- **Flexibility specification level:** FSL3
- **Maximum length:** 70m
- **Length tolerance:** Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance $\pm 1\%$
- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**

 Specification	 Internal (inch)	 Dia- meter (mm)	 Outer (inch)	 Dia- meter (mm)	 Flame Shield	 Armored	 Working Pressure (bar)		 Test Pressure (psi)		 Safety Coeffi- cien	FSL	 MBR (Storage) (m)	 MBR (Operation) (m)	 Weight (kg/m)	 Length Max (m)
RAJ-G1-SZ-51X34.5	2	51	5.98	152	Yes	No	345	5,000	517	7,500	2.25	FSL3	0.9	1	40	70
RAJ-G2-51X34.5+SS	2	51	6.46	164	Yes	Yes	345	5,000	517	7,500	2-25	FSL3	0.9	1	46.8	70
RAJ-G3-51x69	2	51	6.14	156	Yes	No	690	10,000	1,034	15,000	2.25	FSL3	1.2	1.3	44.6	70
RAJ-G4-51X69+SS	2	51	6.61	168	Yes	Yes	690	10,000	1,034	15,000	2.25	FSL3	1.2	1.3	49.7	70
RAJ-G5-51X103.4	2	51	7.32	186	Yes	No	1,034	15,000	1,552	22,500	2.25	FSL3	1.3	1.4	74	70
RAJ-G6-51X103.4+SS	2	51	7.8	198	Yes	Yes	1,034	15,000	1,552	22,500	2.25	FSL3	1.3	1.4	82	70
RAJ-G7-76X34.5	3	76	7.01	178	Yes	No	345	5,000	517	7,500	2.25	FSL3	1.1	1.2	50	70
RAJ-G8-76x34.5+SS	3	76	7.44	189	Yes	Yes	345	5,000	517	7,500	2.25	FSL3	1.1	1.2	58.5	70
RAJ-G9-76X69	3	76	7.24	184	Yes	No	690	10,000	1,034	15,000	2.25	FSL3	1.4	1.5	54.6	70
RAJ-G10-76X69+SS	3	76	7.68	195	Yes	Yes	690	10,000	1,034	15,000	2.25	FSL3	1.4	1.5	61.2	70
RAJ-G11-76X103.4	3	76	8.46	215	Yes	No	1,034	15,000	1,552	22,500	2.25	FSL3	1.6	1.7	93.3	70
RAJ-G12-76X103.4+SS	3	76	8.86	225	Yes	Yes	1,034	15,000	1,552	22,500	2.25	FSL3	1.6	1.7	101	70
RAJ-G13-102x34.5	4	102	8.98	228	Yes	No	345	5,000	517	7,500	2.25	FSL3	1.5	1.6	93.5	70
RAJ-G14-102X34.5+SS	4	102	9.41	239	Yes	Yes	345	5,000	517	7,500	2.25	FSL3	1.5	1.6	103	70
RAJ-G15-102x69	4	102	9.13	232	Yes	No	690	10,000	1,034	15,000	2.25	FSL3	1.6	1.7	97	70
RAJ-G16-102X69+SS	4	102	9.57	243	Yes	Yes	690	10,000	1,034	15,000	2.25	FSL3	1.6	1.7	105.5	70

Flow Line Hose (Inner Wall Armored For Gas Service)



- **Application:**

For transfer or injection of low sulphur fluid, sour fluid, fluid included with aromatic content; gas transfer; flow line.

- **Standard:** API Spec 17K/ISO 13628-10

- **API monogram No.:** 17K-0008

- **Hose structure:**

Inner carcass: stainless steel carcass

Internal tube: Particular polymer engineering plastic as inner sealing tube

Internal rubber liner: HNBR based inner sealing elastomer, which is good for fluid with H₂S, oil resistance, corrosion resistance, high temperature resistance, gas permeation resistance

Breaker layer and external protection layer: high tension textile fabric

Reinforcement for major pressure withstand: high strength steel cable

Fire shield layer: glass fiber cloth

Cover: Neoprene rubber based cover layers, fire resistance, wear resistance, oil resistance, ozone & ageing resistance, UV resistance which is applicable for critical marine environment



- **Fire resistance meet API Spec 16C, at 704°C × 30min**

- **External protection layer of hose can be equipped with stainless steel armor, stainless steel wire and polyethylene spiral sleeve, etc. according to customer requirement**

- **Working temperature range:** class II, -25°C to +100 °C

- **Max. aromatic content 30%**

- **Max. content of H₂S, up to 3000ppm while temperature at 60°C, Max. 1000ppm while temperature at 100°C**

- **Maximum length:** 70m

- **Length tolerance:** Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance ± 1 %

- **Measurement basis of Minimum Bending Radius (MBR) is center line of each hose**

Specification	Internal Diameter (inch)	Internal Diameter (mm)	Outer Diameter (inch)	Outer Diameter (mm)	Working Pressure (bar)	Working Pressure (psi)	Test Pressure (bar)	Test Pressure (psi)	Flame Shield	Safety Coefficient	MBR (Storage) (m)	MBR (Operation) (m)	Weight (kg/m)	Length Max (m)
RAJ-H1-51X21	2	51	3.3	128	207	3,000	310.5	4,500	YES	2.25	0.9	1	28	80
RAJ-H2-51X34.5	2	51	3.5	136	345	5,000	517.5	7,500	YES	2.25	1	1.1	32	80
RAJ-H3-76X21	3	76	3.9	153	207	3,000	310.5	4,500	YES	2.25	1.1	1.3	32	80
RAJ-H4-76X34.5	3	76	4.1	163	345	5,000	517.5	7,500	YES	2.25	1.2	1.4	41	80
RAJ-H5-102x21	4	102	5	198	207	3,000	310.5	4,500	YES	2.25	1.3	1.5	66	80
RAJ-H6-102x34.5	4	102	5.4	212	345	5,000	517.5	7,500	YES	2.25	1.4	1.6	71	80
RAJ-H7-127x21	5	127	5.7	223	207	3,000	310.5	4,500	YES	2.25	1.5	1.7	80	80
RAJ-H8-127x34.5	5	127	6	237	345	5,000	517.5	7,500	YES	2.25	1.6	1.8	90	80
RAJ-H9-152x21	6	152	6.3	249	207	3,000	310.5	4,500	YES	2.25	1.75	2	95	80
RAJ-H10-152x34.5	6	152	6.7	265	345	5,000	517.5	7,500	YES	2.25	1.85	2.1	106	80
RAJ-H11-203X21	8	203	8	315	207	3,000	310.5	4,500	YES	2.25	2.2	2.4	118	80
RAJ-H12-203X34.5	8	203	8.2	322	345	5,000	517.5	7,500	YES	2.25	2.3	2.5	126	80



Jetting Hose



- Application:**

- After Jackup Rig finishes well drilling, pile shoes should be pulled out for moving the pile leg, mud around pile shoe should be flushed off by using high-pressure seawater so as to facilitate pile pulling. Jetting hose is high-pressure flexible connection between main deck of platform and seawater pipe line among pile legs.

- Hose structure :**

Inner rubber: synthetic rubber mainly consisting of nitrile rubber which is oil resistant, seawater resistant, high temperature resistant and ageing resistant

Reinforced layer: high-intensity steel wire

Outer rubber: synthetic rubber mainly consisting of chloroprene rubber which is anti-flaming, wear resistant, oil resistant, ozone ageing resistant and ultraviolet light and applicable to marine environment

- Temperature range:** -30°C to +100°C



Specification	Internal Diameter (inch)	Internal Diameter (mm)	Outer Diameter (inch)	Outer Diameter (mm)	Working Pressure (bar)	Working Pressure (psi)	Burst Pressure (bar)	Burst Pressure (psi)	Safety Coefficient	MBR (m)	Weight (kg/m)	Length Max (m)
RAJ-I1	2	51	3.03	77	140	2000	560	8000	4	900	7	70
RAJ-I2	2-1/2	64	3.58	91	140	2000	560	8000	4	900	9.5	70
RAJ-I3	3	76	4.61	117	140	2000	560	8000	4	1200	15.5	70
RAJ-I4	3-1/2	89	4.84	123	140	2000	560	8000	4	1400	15.8	70
RAJ-I5	4	102	5.24	133	140	2000	560	8000	4	1400	16	70
RAJ-I6	5	127	6.69	170	140	2000	560	8000	4	1450	28.5	70
RAJ-I7	6	152	7.68	195	140	2000	560	8000	4	1500	35.5	70

Jetting Hose



- Application:**

After Jackup Rig finishes well drilling, pile shoes should be pulled out for moving the pile leg, mud around pile shoe should be flushed off by using high-pressure seawater so as to facilitate pile pulling. Jetting hose is high-pressure flexible connection between main deck of platform and seawater pipe line among pile legs.

- Hose structure :**

Tube: nitrile rubber based liner, oil resistance, seawater resistance, high temperature resistance and ageing resistance.

Reinforcement: high tension steel cable

Cover: Neoprene rubber based cover, fire-proof, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is applicable to marine environment



- Temperature range:** -30°C to +100°C

Specification	Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coeffi- cien	MBR (m)	Weight (kg/m)	Length Max (m)
RAJ-IA8	2	51	3.39	86	210	3,000	840	12,000	4	900	10.4	70
RAJ-IA9	2-1/2	64	3.94	100	210	3,000	840	12,000	4	900	12.4	70
RAJ-IA10	3	76	4.37	111	210	3,000	840	12,000	4	1,200	15.1	70
RAJ-IA11	3-1/2	89	5	127	210	3,000	840	12,000	4	1,400	19.2	70
RAJ-IA12	4	102	5.47	139	210	3,000	840	12,000	4	1,400	21.4	70
RAJ-IA13	5	127	7.36	187	210	3,000	840	12,000	4	1,500	41.5	70
RAJ-IA14	6	152	8.5	216	210	3,000	840	12,000	4	1,600	58	70

Hydro Decoking Hose



• Application:

Delayed coking unit is an advanced processing unit in oil refinery industry, Delayed coking process is an important technology for deep processing of heavy oil and residual oil. Hydro decoking hose play an important role in delayed coking unit by delivering high pressure water to coke block cutting equipment in coke tower.

• Standard: HG/T-4788/API Spec 7K

• Hose structure:

Tube: Nitrile rubber based liner, wear resistance, acid & alkali resistance, high-temperature resistance and ageing resistance

Break layers and external protection layers: High tension textile fabric

Major Reinforcement for withstanding pressure: High strength steel cable

Cover layer: Neoprene rubber based liner elastomer, fire-proof, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is applicable for marine environment

• Electric heat trace cable available by functional requirement

• Different option of external protection layer are available as request or by our recommendation according to specific operation condition, for example stainless steel armor outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.

• Working temperature range: class II, -25 °C to +100 °C or (-13 F to 212 F)

• Maximum continuous length: 70m

• Length tolerance: Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4M with tolerance $\pm 1\%$

• Measurement basis of Minimum Bending Radius (MBR) is center line of each hose



Specification	Internal Diameter (inch)	Internal Diameter (mm)	Outer Diameter (inch)	Outer Diameter (mm)	Working Pressure (bar)	Working Pressure (psi)	Test Pressure (bar)	Test Pressure (psi)	Safety Coefficient	To bear weight (N)	Hose Weight (kg/m)	Coupling Weight (kg/m)	MBR (m)	Length Max (m)
RAJ-J1-76 I	3	76	5.0	128	350	5,000	530	7,500	2.25	19,600	22.5	30	1.2	61
RAJ-J2-76 II	3	76	4.65	118	350	5,000	530	7,500	2.25	--	16.9	20	1	61
RAJ-J3-89 I	3.5	89	5.67	144	350	5,000	530	7,500	2.25	19,600	29	40	1.4	61
RAJ-J4-89 II	3.5	89	5.4	138	350	5,000	530	7,500	2.25	--	23.4	22	1.2	61
RAJ-J5-102 I	4	102	6.3	160	350	5,000	530	7,500	2.25	19,600	37	62	1.6	61
RAJ-J6-102 II	4	102	5.5	138	350	5,000	530	7,500	2.25	--	21.5	24	1.3	61

High-Pressure Rubber Hose



BOP Hydraulic Hose



• Application:

BOP hose is mainly used for hydraulic control of BOP. Operating pressure is 5000 PSI. It can be directly exposed to flame for more than 5min at the temperature of 704°C, to ensure control system can be operated under emergencies.

• Hose structure:

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

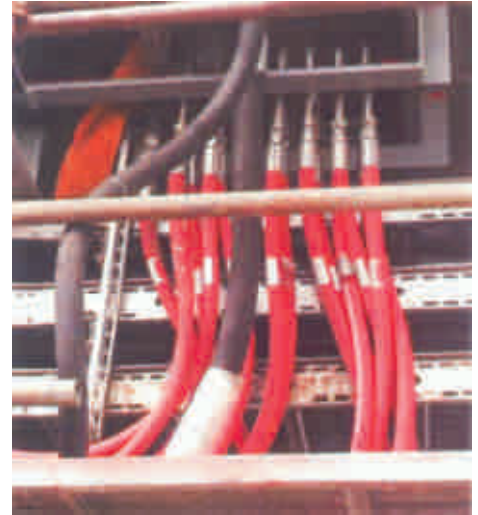
Reinforcement: high tension steel wire

Fire shield layer: glass fiber cloth

Cover: red, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance

• Temperature range: -40°C to + 121°C

• Fire resistance meet API 16D, 704°C × 5min



Specification	Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	Length Max (m)
RAJ-JA7	3/8	10	1.06	27	345	5,000	1,380	20,000	4	152	1.3	100
RAJ-JA8	1/2	12.5	1.22	31	345	5,000	1,380	20,000	4	229	1.5	100
RAJ-JA9	3/4	19	1.54	39	345	5,000	1,380	20,000	4	305	2	100
RAJ-JA10	1	25	1.81	46	345	5,000	1,380	20,000	4	381	3.1	100
RAJ-JA11	1-1/4	32	2.28	58	345	5,000	1,380	20,000	4	457	4.9	60
RAJ-JA12	1-1/2	38	2.56	65	345	5,000	1,380	20,000	4	559	5.8	60
RAJ-JA13	2	51	3.15	80	345	5,000	1,380	20,000	4	686	8.4	40



Hydraulic Hose Series

BOP Hydraulic Hose (Armoured)

Type : RAJ-K



- Application:**

BOP hose is mainly used for hydraulic control of BOP. Operating pressure is 3000PSI. It can be directly exposed to flame for more than 5 min at the temperature of 704 °C, to ensure control system can be operated under emergencies.

- Hose structure:**

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension steel wire

Fire shield layer: glass fiber cloth

Cover: black, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance

Outer armour: stainless steel strip wound

- Temperature range:** -40°C to + 121°C

- Fire resistance meet API 16D, 704°C × 5min**



Specification	Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coeffi- cien	MBR (m)	Weight (kg/m)	Length Max (m)
RAJ-K1	3/8	10	1.1	28	207	3,000	828	12,000	4	152	1.2	100
RAJ-K2	1/2	12.5	1.22	31	207	3,000	828	12,000	4	229	1.5	100
RAJ-K3	3/4	19	1.58	40	207	3,000	828	12,000	4	305	2	100
RAJ-K4	1	25	1.83	46.5	207	3,000	828	12,000	4	381	3.5	100
RAJ-K5	1-1/4	32	2.17	55	207	3,000	828	12,000	4	457	4.7	60
RAJ-K6	1-1/2	38	2.4	61	207	3,000	828	12,000	4	559	5.7	60
RAJ-K7	2	51	2.95	75	207	3,000	828	12,000	4	686	7.6	40

BOP Hydraulic Hose (Armoured)



• Application:

BOP hose is mainly used for hydraulic control of BOP. Operating pressure is 5000PSI. It can be directly exposed to flame for more than 5min at the temperature of 704°C, to ensure control system can be operated under emergencies.

• Hose structure:

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension steel wire

Fire shield layer: glass fiber cloth

Cover: black, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance

Outer armour: stainless steel strip wound

• Temperature range: -40°C to + 121°C

• Fire resistance meet API 16D, 704°C × 5min



Specification	Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coeffi- cien	MBR (m)	Weight (kg/m)	Length Max (m)
RAJ-KA8	3/8	10	1.1	28	345	5,000	1,380	20,000	4	152	1.6	100
RAJ-KA9	1/2	12.5	1.22	31	345	5,000	1,380	20,000	4	229	2	100
RAJ-KA10	3/4	19	1.58	40	345	5,000	1,380	20,000	4	305	2.6	100
RAJ-KA11	1	25	1.83	46.5	345	5,000	1,380	20,000	4	381	3.7	100
RAJ-KA12	1-1/4	32	2.28	58	345	5,000	1,380	20,000	4	457	6	60
RAJ-KA13	1-1/2	38	2.56	65	345	5,000	1,380	20,000	4	559	7.1	60
RAJ-KA14	2	51	3.15	80	345	5,000	1,380	20,000	4	686	10	40

Quick Coupling of BOP Hose



- **Application:** Hydraulic control for blowout preventer stacks
- **Material:** stainless steel 316. (Carbon steel or other materials can be provided as request)
- **End connection:** NPT thread
- **Temperature range:** -40°C to +121°C
- **Fire resistance meet API 16D, 704°C × 5min**

Coupling Size	Materials	Working Pressure (psi)	Ends Connect
1/2"	316 Stainless Steel 316	5,000	1/2" NPT
3/4"	316 Stainless Steel 316	5,000	3/4" NPT
1"	316 Stainless Steel 316	5,000	1" NPT
1-1/4"	316 Stainless Steel 316	3,000	1-1/4" NPT
1-1/2"	316 Stainless Steel 316	3,000	1-1/2" NPT
2"	316 Stainless Steel 316	3,000	2" NPT
1/2"	Galvanized Carbon Steel	5,000	1/2" NPT
3/4"	Galvanized Carbon Steel	5,000	3/4" NPT
1"	Galvanized Carbon Steel	5,000	1" NPT
1-1/4"	Galvanized Carbon Steel	5,000	1-1/4" NPT
1-1/2"	Galvanized Carbon Steel	5,000	1-1/2" NPT
2"	Galvanized Carbon Steel	5,000	2" NPT



Low-Pressure Rubber Hose Series

Fire-rated Seawater Hose



• Application:

Mainly used for seawater delivery in fire fighting system on offshore platform, also can be used for delivery of gasoline, diesel oil, fuel oil with aromatic content up to 50%, mud, air and for other general purposes. It can be directly exposed to flame for more than 30 min at the temperature of 800°C, which enable operators to rescue and escape under emergencies.

• Hose structure:

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high strength steel tyre cord, anti-static copper wire, helix steel wire for hose size up from 6" and above

Fire shilelayer: glass fiber cloth

Cover: red chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance

• Temperature range: -30°C to + 100°C

• Fore resistance meet ISO 15540 & ISO 15541, at 800°C × 30min



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
2	51	3.15	80	20	300	100	1,500	5	310	4.5	70
2-1/2	64	3.58	91	20	300	100	1,500	5	350	6	70
3	76	4.13	105	20	300	100	1,500	5	500	6.3	70
3-1/2	89	4.57	116	20	300	100	1,500	4	550	7	70
4	102	5.28	134	20	300	100	1,500	5	600	9.3	70
5	127	6.14	160	20	300	100	1,500	5	1100	12.8	70
6	152	7.6	193	20	300	100	1,500	5	1300	17.5	70
8	203	9.8	249	20	300	100	1,500	5	1500	27.3	70

Oil Delivery Hose



- Application:**

For delivery gasoline, diesel oil, fuel oil with aromatic content up to 50%, also applicable for seawater, fresh water, mud, air and other general purposes.

- Hose structure:**

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension textile fabric, anti-static copper wire

Cover: black, blended chloroprene rubber and butadiene rubber, wear resistance, ozone & ageing resistance, oil resistance, heat resistance



- Temperature range:** -30°C to + 100°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
3/4	19	1.22	31	10	150	40	600	4	110	0.7	100
1	25	1.54	39	10	150	40	600	4	150	1	100
1-1/4	32	1.85	46	10	150	40	600	4	200	1.3	100
1-1/2	38	2.09	53	10	150	40	600	4	250	1.4	100
2	51	2.64	67	10	150	40	600	4	350	1.8	100
2-1/2	64	3.11	79	10	150	40	600	4	420	2.2	100
3	76	3.62	92	10	150	40	600	4	500	2.5	100
4	102	4.69	119	10	150	40	600	4	650	3.6	100
5	127	5.75	146	10	150	40	600	4	800	5.7	100
6	152	6.77	172	10	150	40	600	4	950	7.1	100
8	203	9.02	229	10	150	40	600	4	1400	11.3	100

Oil Delivery Hose



- Application:**

For delivery gasoline, diesel oil, fuel oil with aromatic content up to 50%, also applicable for seawater, fresh water, mud, air and other general purposes.

- Hose structure:**

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension textile fabric, anti-static copper wire

Cover: black, blended chloroprene rubber and butadiene rubber, wear resistance, ozone & ageing resistance, oil resistance, heat resistance



- Temperature range:** -30°C to + 100°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
3/4	19	1.22	33	40	600	160	2400	4	110	0.8	100
1	25	1.54	43	40	600	160	2400	4	150	1.2	100
1-1/4	32	1.85	50	40	600	160	2400	4	200	1.4	100
1-1/2	38	2.09	57	40	600	160	2400	4	250	1.8	100
2	51	2.64	72	40	600	160	2400	4	350	2.4	100
2-1/2	64	3.11	85	40	600	160	2400	4	420	3.0	100
3	76	3.62	98	40	600	160	2400	4	500	3.5	100

Bulk Material Handling Hose (soft wall)



• Application:

For delivery and suction of barite, dry powder, cement and other abrasives.

• Hose structure:

Tube: black, SBR/NR blended rubber elastomer, wear resistance, acid & alkali resistance

Reinforcement: high tension tensile fabric

Cover: black, blended polyisoprene rubber and butadiene rubber, wear resistance, ozone resistance, weather/ageing resistance

• Temperature range: -30°C to + 100°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
3/4	19	1.38	35	10	150	40	600	4	60	0.8	80
1	25	1.61	41	10	150	40	600	4	75	1.2	80
1-1/4	32	1.89	48	10	150	40	600	4	110	1.4	80
1-1/2	38	2.13	54	10	150	40	600	4	120	1.6	80
2	51	2.72	69	10	150	40	600	4	350	2.2	80
3	76	3.7	94	10	150	40	600	4	500	3.1	80
4	102	4.8	122	10	150	40	600	4	650	4.5	80
5	127	5.83	148	10	150	40	600	4	800	5.8	80
6	152	6.85	174	10	150	40	600	4	950	7.3	80
8	203	9.09	232	10	150	40	600	4	1400	12.1	80

Oil Suction & Delivery Hose



• Application:

For suction & discharge gasoline, diesel oil, fuel oil with aromatic content up to 50%, also applicable for seawater, fresh water, mud, air and other general purposes.

• Hose structure:

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension textile fabric, helix steel wire and anti-static copper wire

Cover: black, blended chloroprene rubber and butadiene rubber, wear resistance, ozone & ageing resistance, oil resistance, heat resistance



• Temperature range: -30°C to + 100°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficien	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
3/4	19	1.22	31	10	150	40	600	4	85	0.7	100	-90
1	25	1.46	37	10	150	40	600	4	100	1.1	100	-90
1-1/4	32	1.77	47	10	150	40	600	4	130	1.3	100	-90
1-1/2	38	2.00	53	10	150	40	600	4	150	1.5	100	-90
2	51	2.60	66	10	150	40	600	4	300	2.1	100	-90
2-1/2	64	3.11	79	10	150	40	600	4	420	2.2	100	-90
3	76	3.62	92	10	150	40	600	4	400	3.1	100	-90
4	102	4.84	123	10	150	40	600	4	550	5.2	100	-90
5	127	5.90	150	10	150	40	600	4	650	7.3	100	-90
6	152	6.90	175	10	150	40	600	4	800	8.9	100	-90
8	203	9.25	238	10	150	40	600	4	1,100	18	100	-90

Oil Suction & Delivery Hose



• Application:

For suction & discharge gasoline, diesel oil, fuel oil with aromatic content up to 50%, also applicable for seawater, fresh water, mud, air and other general purposes.

• Hose structure:

Tube: black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension textile fabric, helix steel wire and anti-static copper wire

Cover: black, blended chloroprene rubber and butadiene rubber, wear resistance, ozone & ageing resistance, oil resistance, heat resistance



• Temperature range: -30°C to + 100°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	psi	Burst Pressure (bar)	psi	Safety Coefficien	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
3/4	19	1.22	31	20	300	80	1,200	4	85	0.7	60	-90
1	25	1.46	37	20	300	80	1,200	4	100	1.1	100	-90
1-1/4	32	1.77	47	20	300	80	1,200	4	130	1.3	100	-90
1-1/2	38	2.00	53	20	300	80	1,200	4	150	1.5	100	-90
2	51	2.76	70	20	300	80	1,200	4	300	2.5	100	-90
2-1/2	64	3.27	83	20	300	80	1,200	4	420	3.1	60	-90
3	76	3.82	97	20	300	80	1,200	4	400	4.0	100	-90
4	102	5.08	129	20	300	80	1,200	4	550	6.5	100	-90
5	127	6.06	154	20	300	80	1,200	4	650	8.3	100	-90
6	152	7.09	180	20	300	80	1,200	4	800	10.6	100	-90

Bulk Material Handling Hose (Hard Wall)



- Application:**

For delivery and suction of barite, dry powder, cement and other abrasives.

- Hose structure:**

Tube: black, SBR/NR blended rubber elastomer, wear resistance, acid & alkali resistance

Reinforcement: high tension tensile fabric, helix steel wire

Cover: black, blended polyisoprene rubber and butadiene rubber, wear resistance, ozone resistance, weather/ageing resistance

- Temperature range:** -30°C to + 100°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
1	25	1.61	41	10	150	40	600	4	100	1.3	100	-90
1-1/4	32	1.93	48	10	150	40	600	4	130	1.6	100	-90
1-1/2	38	2.17	55	10	150	40	600	4	150	1.9	100	-90
2	51	2.72	69	10	150	40	600	4	400	2.5	100	-90
3	76	3.70	94	10	150	40	600	4	500	3.7	100	-90
4	102	4.96	126	10	150	40	600	4	650	6.1	100	-90
5	127	6.02	153	10	150	40	600	4	800	8.0	100	-90
6	152	7.01	178	10	150	40	600	4	900	9.9	100	-90
8	203	9.37	238	10	150	40	600	4	1100	23	100	-90

Bulk Material Handling Hose (Hard Wall)



- Application:**

For delivery and suction of barite, dry powder, cement and other abrasives.

- Hose structure:**

Tube: black, SBR/NR blended rubber elastomer, wear resistance, acid & alkali resistance

Reinforcement: high tension tensile fabric, helix steel wire

Cover : black , blended polyisoprene rubber and butadiene, wear resistance, ozone resistance, weather/ageing resistance

- Temperature range:** -30°C to + 100°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
1	25	1.61	41	20	300	80	1200	4	100	1.3	100	-90
1-1/4	32	1.93	48	20	300	80	1200	4	130	1.6	100	-90
1-1/2	38	2.17	55	20	300	80	1200	4	150	1.9	100	-90
2	51	2.87	73	20	300	80	1200	4	400	3	100	-90
3	76	3.90	99	20	300	80	1200	4	500	4.5	100	-90
4	102	5.12	130	20	300	80	1200	4	650	6.8	100	-90
5	127	6.18	157	20	300	80	1200	4	800	9	100	-90
6	152	7.16	182	20	300	80	1200	4	950	11	100	-90

Portable Water Hose (Soft Wall)



- **Application:** For suction & discharge of portable water.
- **Hose structure:**
 - Tube: white, non-toxic and odorless natural rubber
 - Reinforcement: high tension textile
 - Cover: blue, nitrile rubber/PVC, wear resistance, ozone resistance, hydrocarbon resistance
- **Temperature range:** -30°C to + 100°C
- **Certified with FDA registration**



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
3/4	19	1.22	31	20	300	80	1200	4	110	0.7	100
1	25	1.46	39	20	300	80	1200	4	150	1.0	100
1-1/4	32	1.77	46	20	300	80	1200	4	200	1.3	100
1-1/2	38	2.00	53	20	300	80	1200	4	250	1.4	100
2	51	2.76	68	20	300	80	1200	4	350	1.8	100
3	76	3.82	93	20	300	80	1200	4	500	2.8	100
4	102	5.08	123	20	300	80	1200	4	650	4.3	100
5	127	6.06	150	20	300	80	1200	4	800	6.8	100
6	152	7.09	175	20	300	80	1200	4	960	7.9	100

Portable Water Hose (Hard Wall)



- **Application:** For suction & discharge of portable water.
- **Hose structure:**
 - Tube: white, non-toxic and odorless natural rubber
 - Reinforcement: high tension textile, helix steel wire
 - Cover: blue, nitrile rubber/PVC, wear resistance, ozone resistance, hydrocarbon resistance
- **Temperature range:** -30°C to + 100°C
- **Certified with FDA registration**

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
3/4	19	1.22	31	20	300	80	1200	4	85	0.7	60	-90
1	25	1.46	37	20	300	80	1200	4	100	1.1	60	-90
1-1/4	32	1.77	47	20	300	80	1200	4	130	1.3	60	-90
1-1/2	38	2.00	53	20	300	80	1200	4	150	1.5	60	-90
2	51	2.76	70	20	300	80	1200	4	300	2.5	60	-90
2-1/2	64	3.27	83	20	300	80	1200	4	420	3.1	60	-90
3	76	3.82	97	20	300	80	1200	4	400	4.0	60	-90
4	102	5.08	129	20	300	80	1200	4	550	6.5	60	-90
5	127	6.06	154	20	300	80	1200	4	650	8.3	60	-90
6	152	7.01	180	20	300	80	1200	4	800	10.6	60	-90

Submersible Pump Seawater Hose



• Application:

Applied in seawater elevating and transfer system on offshore platform. Submersible pump of the hose is connected seawater lift mechanism, can withstand long term loads from its own weight plus weight from submersible pump. Seawater elevated and charged through such retractable hoses can avoid using auxiliary hoisting system.

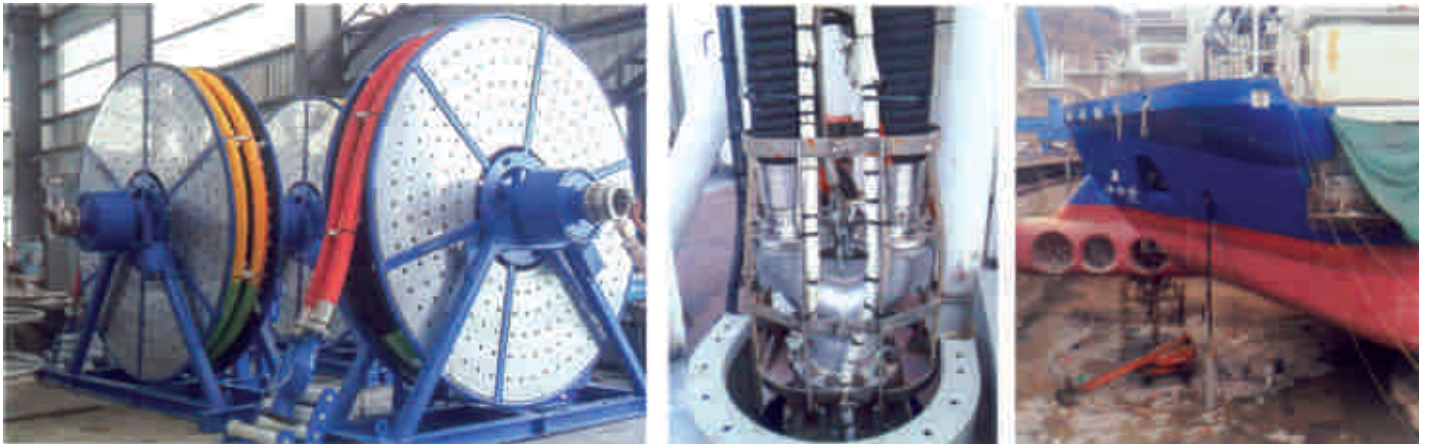
Hose structure:

Tube: Black nitrile rubber based elastomer, seawater resistance, high temperature resistance, acid & alkali resistance.

Reinforcement : High tension helix wire, and high tension textile;

Cover: Black neoprene rubber based elastomer, fire proof, sea-water resistance, ageing resistance and abrasion resistance.

• Temperature range:-20°C to +100°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Rated Tensile Load (KN)
2	51	3.2	81	20.7	300	82.8	1,200	4	30	5	70	10
2.5	64	3.7	94	20.7	300	82.8	1,200	4	35	6.7	70	15
3	76	4.2	106	20.7	300	82.8	1,200	4	50	7	70	20
3.5	89	4.8	121	20.7	300	82.8	1,200	4	60	9.34	70	22
4	102	5.3	134	20.7	300	82.8	1,200	4	60	9.6	70	28
5	127	6.7	171	20.7	300	82.8	1,200	4	100	16.7	70	32
5.5	140	7.1	180	20.7	300	82.8	1,200	4	100	17	70	35
6	152	7.5	191	20.7	300	82.8	1,200	4	120	18.1	70	38

Air Hose



- **Application:** it is used for delivery of compressed air and oil mist, other general purposes.
- **Hose structure:**
 Tube: black , nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance
 Reinforcement: high tension textile
 Cover: yellow, nitrile rubber, wear resistance, ozone ageing resistance, oil resistance, heat resistance
- **Temperature range:** -30°C to + 100°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
1/2	13	0.81	20.5	10	150	30	450	3	78	0.39	100
3/4	19	1.10	29	10	150	30	450	3	114	0.55	100
1	25	1.38	35	10	150	30	450	3	150	0.7	100
1-1/4	32	1.69	43	10	150	30	450	3	200	0.9	80
1-1/2	38	2.05	49	10	150	30	450	3	250	1.1	80
2	51	2.64	64	10	150	30	450	3	350	1.6	80
3	76	3.66	89	10	150	30	450	3	500	2.3	80
4	102	4.84	117	10	150	30	450	3	650	3.6	80
5	127	5.91	142	10	150	30	450	3	800	4.5	80
6	152	6.93	167	10	150	30	450	3	960	5.3	80

Multi-purpose Suction & Discharge Hose



- **Application:** For delivery of gasoline, diesel oil, fuel oil with aromatic content up to 50%, also applicable for seawater, fresh water, mud and air and other general purposes fluid.

- **Hose structure**

Tube: black, nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance

Reinforcement: high tension textile fabric, helix steel wire and anti-static copper wire

Cover: black, BR/Neoprene blended elastomer, wear resistance, ozone & ageing resistance, oil resistance, heat resistance



- **Temperature range:** -30°C to + 100°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
6	152	7.00	178	10	150	40	600	4	800	10	40	-90
8	203	9.37	238	10	150	40	600	4	1100	23	40	-90
10	254	11.38	289	10	150	40	600	4	1300	26	20	-90
12	305	13.5	343	10	150	40	600	4	1600	34	20	-90
14	355	15.55	395	10	150	40	600	4	2200	38	20	-90
16	405	17.52	445	10	150	40	600	4	2500	43	20	-90

Floating Hose



- **Application:** For delivery materials between drilling platform and supply ship, such as fuel oil, barite, mud and portable water and etc. Floating layer bonded with hose body make more effective and stable floating than hose wear floating jacket.
- **Hose structure:**

Tube: selected option according to functional requirement

Reinforcement: high-tension textile fabric and anti-static copper wire

Floating layer: microcellular foaming synthetic materials

Cover: black, chloroprene rubber, oil resistance, wear resistance, ozone & ageing resistance, seawater resistance
- **Temperature range:** -30°C to + 100°C
- **Floating capacity:** Min. 25%



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
2	51	4.88	124	10	150	40	600	4	450	2.7	60
3	76	5.87	153	10	150	40	600	4	600	4.2	60
4	102	6.90	179	10	150	40	600	4	750	5.16	60
5	127	7.80	202	10	150	40	600	4	900	7.57	60
6	152	8.90	229	10	150	40	600	4	1,100	11.67	60
8	203	11.06	284	10	150	40	600	4	1,400	28.7	60

Chemical Hose For Discharge



- **Application:** Used for delivery of acids and chemicals in high concentration up to 98%.
- **Hose structure:**
 - Tube: transparent, UHMWPE
 - Reinforcement: high tension textile fabric and anti-static copper wire
 - Cover: blue (other color available upon request), EPDM, wear resistance, ozone resistance, weather/ageing resistance
- **Temperature range:** -40°C to + 80°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
3/4	19	1.28	30	16	232	64	928	4	100	0.65	100	-90
1	25	1.46	36	16	232	64	928	4	300	0.8	100	-90
1-1/4	32	1.73	44	16	232	64	928	4	400	1.1	100	-90
1-1/2	38	2.00	50	16	232	64	928	4	500	1.5	100	-90
2	51	2.64	63	16	232	64	928	4	600	2.5	100	-90
2-1/2	64	3.15	80	16	232	64	928	4	700	2.8	100	-90
3	76	3.62	92	16	232	64	928	4	800	4.0	100	-90
4	102	4.88	119	16	232	64	928	4	1100	7.1	100	-90
5	127	5.90	144	16	232	64	928	4	1300	8.5	100	-90
6	152	6.97	169	16	232	64	928	4	1600	10.7	100	-90

Chemical Hose For Discharge



- **Application:** Used for delivery of acids and chemicals with high concentration up to 98%.
- **Hose structure:**
 Tube: transparent, XLPE crosslinked polyethylene
 Reinforcement: high tension textile fabric, anti-static copper wire
 Outer rubber: green or other color by requirement, EPDM, wear resistance, ozone resistance, weather/ageing resistance
- **Temperature range:** -30°C to + 80°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
2	51	4.88	124	10	150	40	600	4	450	2.7	60
3/4	19	1.22	30	16	232	64	928	4	100	0.65	100
1	25	1.46	36	16	232	64	928	4	300	0.8	100
1-1/4	32	1.73	44	16	232	64	928	4	400	1.1	100
1-1/2	38	2.00	50	16	232	64	928	4	500	1.5	100
2	51	2.64	63	16	232	64	928	4	600	2.5	100
2-1/2	64	3.15	80	16	232	64	928	4	700	2.8	100
3	76	3.62	92	16	232	64	928	4	800	4.0	100
4	102	4.88	119	16	232	64	928	4	1100	7.1	100
5	127	5.90	144	16	232	64	928	4	1300	8.5	100
6	152	6.97	169	16	232	64	928	4	1600	10.7	100

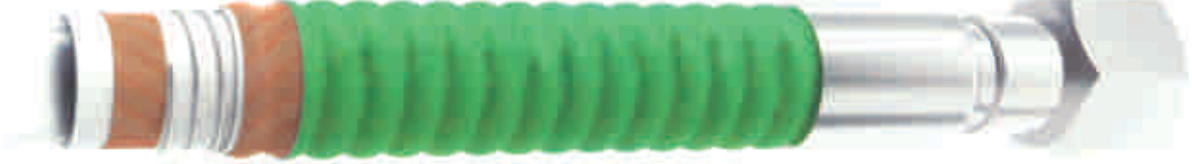
Chemical Suction Hose



- **Application:** Used for suction & discharge of acids and chemicals in high concentration up to 98%.
- **Hose structure:**
 Tube: transparent, UHMWPE
 Reinforcement: high tension textile fabric, helix steel wire and anti-static copper wire
 Cover: blue, EPDM, wear resistance, ozone resistance, weather/age resistance
- **Temperature range:** -30°C to + 80°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
3/4	19	1.34	34	10	150	40	600	4	130	0.8	100	-90
1	25	1.46	40	10	150	40	600	4	150	0.72	100	-90
1-1/4	32	1.85	47	10	150	40	600	4	200	1.2	100	-90
1-1/2	38	2.00	53	10	150	40	600	4	225	1.2	100	-90
2	51	2.64	67	10	150	40	600	4	275	2.04	100	-90
3	76	3.62	93	10	150	40	600	4	400	2.88	100	-90
4	102	4.88	123	10	150	40	600	4	800	3.81	100	-90
5	127	5.90	149	10	150	40	600	4	1300	8.5	100	-90
6	152	6.97	175	10	150	40	600	4	1600	10.7	100	-90

Chemical Suction Hose



- **Application:** Used for suction & discharge acid and chemicals in high concentration up to 98%.
- **Hose structure:**
 - Tube: transparent, XLPE crosslinked polyethylene
 - Reinforcement: high tension textile fabric, helix steel wire and anti-static copper wire
 - Cover: green (other color required available) EPDM, wear resistance, ozone resistance, weather/ageing resistance
- **Temperature range:** -30°C to + 80°C

Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)	Negative Pressure (Kpa)
3/4	19	1.34	34	16	232	64	928	4	130	0.8	100	-90
1	25	1.46	40	16	232	64	928	4	150	1.0	100	-90
1-1/4	32	1.85	47	16	232	64	928	4	200	1.2	100	-90
1-1/2	38	2.00	53	16	232	64	928	4	225	1.5	100	-90
2	51	2.64	67	16	232	64	928	4	275	2.5	100	-90
3	76	3.62	93	16	232	64	928	4	400	3.5	100	-90
4	102	4.88	123	16	232	64	928	4	800	5.7	100	-90
5	127	5.90	149	16	232	64	928	4	1300	6.8	100	-90
6	152	6.97	175	16	232	64	928	4	1600	8.5	100	-90

Nitrogen Hose



- **Application:** Used for delivery of nitrogen gas
- **Hose structure:**
 - Tube: black smooth EPDM, ageing resistance, acid & alkali resistance
 - Reinforcement: high tension synthetic fiber
 - Cover: EPDM, wear resistance, ozone resistance, weather/ageing resistance
- **Temperature range:** -30°C to + 100°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
1/4	6.4	0.49	12.5	20	300	60	900	3	40	0.16	100
5/16	8	0.59	15	20	300	60	900	3	48	0.21	100
3/8	9.5	0.65	16.5	20	300	60	900	3	60	0.24	100
1/2	12.7	0.81	20.5	20	300	60	900	3	78	0.36	100
3/4	19	1.10	28	20	300	60	900	3	114	0.55	100
1	25	1.38	35	20	300	60	900	3	150	0.7	100
1-1/4	32	1.69	43	20	300	60	900	3	200	0.9	80
1-1/2	38	2.05	49	20	300	60	900	3	250	1.1	80
2	51	2.64	64	20	300	60	900	3	350	1.6	80
3	76	3.66	93	20	300	60	900	3	500	2.9	80
4	102	4.84	121	20	300	60	900	3	650	4.3	80
5	127	5.91	144	20	300	60	900	3	800	5.5	80
6	152	6.93	171	20	300	60	900	3	960	6.4	80

Sandblasting Hose



- **Application:** Used for delivery of abrasive material for blasting equipment.

- **Hose structure:**

Tube: black smooth SBR/NR based elastomer, wear resistance.

Reinforcement: High tension textile

Cover: SBR/NR based elastomer, wear resistance, ozone resistance, weathering/ageing resistance

- **Temperature range:** -20°C to +80°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficient	MBR (mm)	Weight (kg/m)	LengthMax (m)
3/4	19	1.38	32	20	300	60	900	3	190	0.6	100
1	25	1.61	37	20	300	60	900	3	250	0.8	100
1-1/4	32	1.89	47	20	300	60	900	3	320	1.1	100
1-1/2	38	2.13	54	20	300	60	900	3	400	1.3	100
2	51	2.72	68	20	300	60	900	3	500	1.9	100
2-1/2	64	3.19	81	20	300	60	900	3	600	2.3	100

Steam Hose



- **Application:** Used for delivery of saturated steam, unsaturated steam and steam up to maximum temperature 164°C
- **Hose structure:**
 Tube: black smooth EPDM, heat resistance, ageing resistance
 Reinforcement: high-tension steel wire
 Cover : EPDM, heat resistance, ozone resistance, ageing resistance
- **Temperature range:** -40°C to +208°C



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	Safety Coefficien	MBR (mm)	Weight (kg/m)	LengthMax (m)
1/2	13	1.00	25	17	255	170	2,550	10	130	0,55	100
3/4	19	1.30	33	17	255	170	2,550	10	190	0,83	100
1	25	1.58	40	17	255	170	2,550	10	250	1,02	100
1-1/2	38	2.13	54	17	255	170	2,550	10	380	1,7	60
2	51	2.72	69	17	255	170	2,550	10	510	2,6	40

Concrete Conveying Hose



- **Application:** Delivery of cement paste, mortar and other highly abrasive materials. Used for concrete placement from end of concrete pump truck, grouting from pile driver.
- **Hose structure:**
 - ITube: black smooth conductive rubber, abrasion resistant synthetic rubber
 - Reinforcement: high-tension steel cable
 - Cover: black, abrasion resistant synthetic rubber, ageing resistance
- **Working temperature range:** -30°C to +100°C
- **Standard:** EN 12001/GB/T27571
- **Product advantage:** Very long service life due to outstanding wear-resistance tube, especially flexible and therefor easy to handle, Min. safety factory is 2 times, which will guarantee operator with safety, free twisting hose construction, withstand negative pressure while reverse flushing.



Internal (inch)	Dia- meter (mm)	Outer (inch)	Dia- meter (mm)	Working Pressure (bar)	(psi)	Burst Pressure (bar)	(psi)	MBR (mm)	Weight (kg/m)	LengthMax (m)
2	51	2.8	71	85	1232	200	2900	35	3.0	70
2.5	64	2.5	89	85	1232	200	2900	40	4.7	70
3	76	4.0	103	85	1232	200	2900	45	6.7	70
3.1	80	4.2	107	85	1232	200	2900	50	7.1	70
4	102	5,0	126	85	1232	200	2900	70	8.9	70
5	127	6,1	154	85	1232	200	2900	90	11.1	70
6	152	7.2	184	85	1232	200	2900	100	15.1	70



Speciality :

- (Built-in couplings) High-Pressure Mud Hose/ Rotary Hose/ Vibrator Hose
- (Built-in couplings) High-Pressure Cement Hose
- (Swaged couplings) High-Pressure Mud Hose/ Rotary Drilling Hose/ Vibrator Hose/ Cement Hose
- Fire-Rated Tensioner Hose
- (Built-in Couplings) Unbalanced Drilling Hose
- Flexible Choke & Kill Hose
- Flow Line Hose (Inner Wall Armored For Gas Service)
- Jetting Hose
- Hydro Decoking Hose
- BOP Hydraulic Hose
- BOP Hydraulic Hose (Armoured)
- Quick Coupling of BOP Hose
- Fire-rated Seawater Hose
- Oil Delivery Hose
- Bulk Material Handling Hose (soft wall)
- Oil Suction & Delivery Hose
- Bulk Material Handling Hose (Hard Wall)
- Portable Water Hose (Soft Wall)
- Portable Water Hose (Hard Wall)
- Submersible Pump Seawater Hose
- Air Hose
- Multi-purpose Suction & Discharge Hose
- Floating Hose
- Chemical Hose For Discharge
- Chemical Suction Hose
- Nitrogen Hose
- Sandblasting Hose
- Steam Hose
- Concrete Conveying Hose

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