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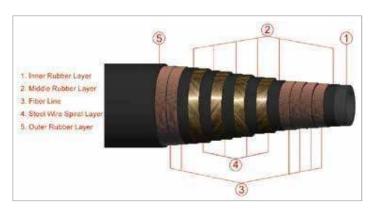






Rotary Vibrator/Drilling Hose

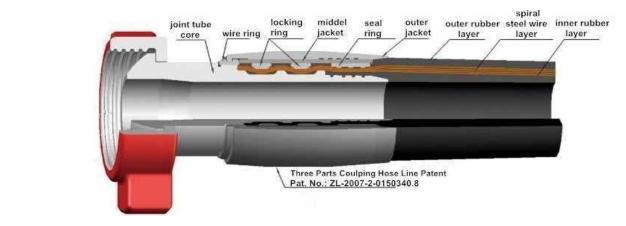
Rotary Vibrator/Drilling Hose



Inner Structure of the Rotary Vibrator/Drilling Hose



Compared with the traditional coupling, the Three Parts Coupling designed by Jingbo is much safer. The fitting could bear more pressure and never takes off. It is 100% safe without any leakage.



Compared with other hoses, consistent inner diameter hose without bottleneck could lower the velocity in the case of the same flow. This design enhances the joint capacity for more pressure and eventually extends the service life of the hose.



Germany Lanxess HNBR used as our raw material, which can resist 20% H₂S and 80% oil based mud.

Test:

Rotary Vibrator/Drilling Hose

5,000 psi W.P. - 10,000 psi Test- Grade D- 12,500 psi Minimum Burst

Certification/Standards: API Spec 7K--ISO 14693--ABS approval

Recommended For: Flexible connection between standpipe and swivel

[Rotary Drilling] or between pump and standpipe [Rotary Vibrator] for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling and down



linking with negative pressure pulses and elevated temperatures. This hose can also be used as a Motion Compensator hose for stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms. The Motion Compensator hose is not recommended for phosphate ester

fluids.

Tube: Modified Nitrile. 3/16" thick. Black. Specially designed for handling abrasive, corrosive and oily drilling mud.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Hammer Unions

Male Thread Female Sub

Male Sub./Nut

Hubs

Flanges

Temperature: $-4 \,^{\circ}\text{F} \text{ to } +180 \,^{\circ}\text{F} \text{ [} -20 \,^{\circ}\text{C to } +82 \,^{\circ}\text{C]} \text{ continuous service.}$

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Each hose is tested at 10000psi for 15 minutes. Pressure test graph, test certificate and letter of

\in)	C	I	0	0	(3	6	0
Hos	e ID	Hose	e O.D.	Working Pressure Min. Burst Pressure Min. Bend F		d Radius			
[In.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)
2 1/2	63.5	4.14	105.2	5000	35	12500	87.5	36.0	914
3	76.2	4.61	117.1	5000	35	12500	87.5	48.0	1219
3 1/2	88.9	5.25	133.4	5000	35	12500	87.5	54.0	1372
4	101.6	5.61	142.5	5000	35	12500	87.5	54.0	1372

Rotary Vibrator/Drilling Hose

7,500 psi W.P. - 15,000 psi Test- Grade E -18,750 psi Minimum Burst

Certification/Standards: API Spec 7K--ISO 14693--ABS approval

Recommended For: Flexible connection between standpipe and swivel

(Rotary Drilling) or between pump and standpipe (Rotary Vibrator) for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling and down linking with negative pressure pulses and elevated

temperatures. This hose can also be used as a Motion Compensator hose for stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms. The Motion Compensator hose is not recommended for phosphate ester fluids.

Modified Nitrile. 3/16" thick. Black. Specially designed for handling abrasive, corrosive and oily drilling mud. Tube:

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers. Cover: Modified Nitrile. Black. Specially designed ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Hammer Unions

Male Thread

Female Sub

Hubs

Flanges

-4 $^{\circ}\! F$ to +180 $^{\circ}\! F$ [-20 $^{\circ}\! C$ to +82 $^{\circ}\! C$] continuous service. Temperature:

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test:

Each hose is tested at 15000psi for 15 minutes. Pressure test graph, test certificate and letter of

\in)		\supset !	(D	0		6)
Hos	e ID	Hose O.D.		D.D. Working F		ressure Min. Burst Pressure		Min. Ben	d Radius
[In.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)
2 1/2	63.5	5.16	131.1	7500	52.5	18750	130	48.0	1219
3	76.2	5.66	143.8	7500	52.5	18750	130	48.0	1219
3 1/2	88.9	6.04	153.4	7500	52.5	18750	130	54.0	1372
4	101.6	6.48	164.6	7500	52.5	18750	130	60.0	1524



Rotary Vibrator Hose Grade D Sour Service

5,000psi W.P. - 10,000 psi Test-12,500 psi Minimum Burst

Certification/Standards: API Spec 7K-ISO 14693-NACE MR0175 **Recommended For:** Flexible connection between standpipe

and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator) for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling



and down linking with negative pressure pulses and elevated temperatures. This hose can also be used as a Motion Compensator hose for stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms. The Motion Compensator hose is not recommended for

phosphate ester fluids.

Tube: HNBR rubber. Black. Resists abrasion, corrosion, oil, and up to 20% H₂S.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Hammer Unions

Hubs Flanges

Male Thread Female Sub Male Sub./Nut

Temperature: $-4 \, ^{\circ}\mathrm{F} \,$ to $+200 \, ^{\circ}\mathrm{F} \,$ [$-20 \, ^{\circ}\mathrm{C} \,$ to $+93 \, ^{\circ}\mathrm{C} \,$] continuous service.

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Test: Each hose is tested at 10000psi for 15 minutes. Pressure test graph, test certificate and letter of

(\ni	().	- 3	0	(3)	6	
Hos	se ID	Hose	e O.D.	Working	Pressure Min. Burst Pressure Min. B		Min. Ben	d Radius	
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)
2 1/2	63.5	4.15	105.4	5000	35	12500	87.5	36.0	914
3	76.2	4.61	117.1	5000	35	12500	87.5	48.0	1219
3 1/2	88.9	5.25	133.4	5000	35	12500	87.5	54.0	1372
4	101.6	5.58	141.7	5000	35	12500	87.5	54.0	1372

Rotary Vibrator Hose Grade E Sour Service

Rotary Vibrator Hose Grade E Sour Service

7,500psi W.P. - 15,000 psi Test-18,750 psi Minimum Burst

Certification/Standards: API Spec 7K-ISO 14693-NACE MR0175

Recommended For: Flexible connection between standpipe and swivel

(Rotary Drilling) or between pump and standpipe (Rotary Vibrator) for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling and down linking with negative pressure pulses and elevated

temperatures. This hose can also be used as a Motion Compensator hose for stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms. The Motion Compensator hose is not recommended for phosphate ester fluids.

Tube: HNBR rubber. Black. Resists abrasion, corrosion, oil, and up to 20% H₂S.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Hammer Unions

Hubs Flanges

Male Thread

Hubs Flanges

Temperature: $-4~\mathrm{^{\circ}F}$ to +200 $\mathrm{^{\circ}F}$ [-20 $\mathrm{^{\circ}C}$ to +93 $\mathrm{^{\circ}C}$] continuous service.

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Test: Each hose is tested at 15000psi for 15 minutes. Pressure test graph, test certificate and letter of

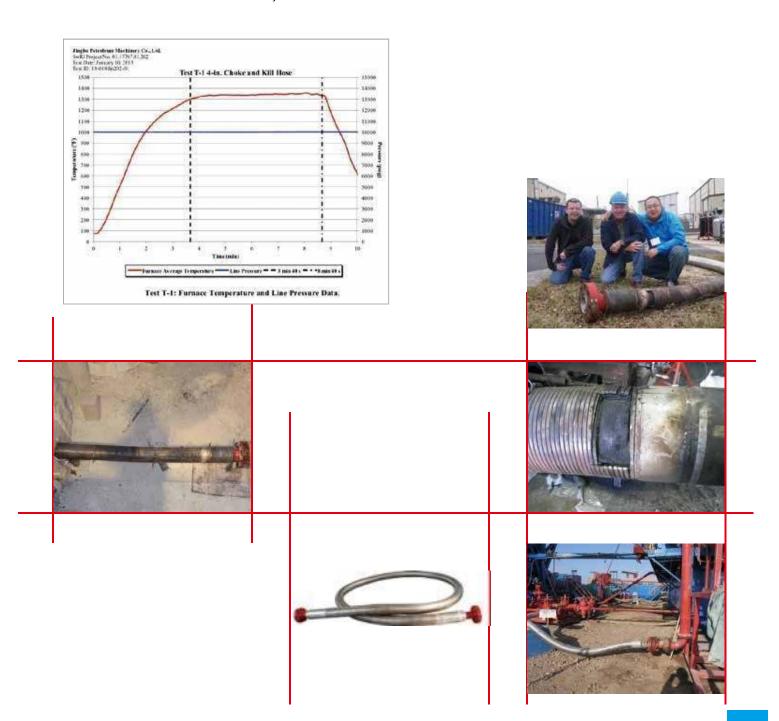
East 1000 to cooked at 10000por for 10 minutes. Thousand cook graph, cook or timeate and foctor of

\in)).	- 3	0	(3	6	5
Hos	se ID	Hose	e O.D.	Working	Working Pressure		n. Burst Pressure Min. Bend Radiu		d Radius
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)
2 1/2	63.5	5.14	130.6	7500	52.5	18750	130	48.0	1219
3	76.2	5.64	143.3	7500	52.5	18750	130	48.0	1219
3 1/2	88.9	6.05	153.7	7500	52.5	18750	130	54.0	1372
4	101.6	6.40	162.6	7500	52.5	18750	130	60.0	1524

O6 Choke & Kill Hose

Choke & Kill Hose

- China's first API authorized manufacturer of Choke & Kill Hose with a certificate of API Spec 16C-0374
- a patent for firstly producing the fire resistant hose in China
- The Choke & Kill Hose has passed the USA Southwest Research Institute Test.
- stainless steel 316L used as the armored jacket



Choke & Kill Hose 5000PSI

Choke & Kill Hose 5000PSI

5,000psi W.P. - 10,000 psi Test-15,000 psi Minimum Burst

Certification/Standards: API Spec 16C--ISO 14693

Recommended For: Flexible hose between the riser and manifold or

around the ball joint of offshore drilling rigs, specially

designed to withstand high pressure.

Tube: Modified Nitrile. Black. Resists abrasion, corrosion,

oil, and up to 20% H₂S.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Fire resistant rubber cover, stainless steel armored to handle abrasion, corrosion, cutting, gouging, oil

and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Hammer Unions
Hubs Flanges

Male Thread

Hubs Flanges

Male Sub_/Nut

Temperature: $-4 \,^{\circ}\text{F}$ to +200 $^{\circ}\text{F}$ [-20 $^{\circ}\text{C}$ to +93 $^{\circ}\text{C}$] continuous service.

Options: Accessories such as safety clamps and hose lift eyes are available upon request.

Test: Each hose is tested at 10000psi for 15 minutes. Pressure test graph, test certificate and letter of

(\ni		DI.	- (0	(3)	6	
Hos	e ID	Hose	e O.D.	Working	Pressure	Min. Burst	t Pressure	Pressure Min. Bend Radiu	
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)
2 1/2	63.5	4.15	105.4	5000	35	15000	105	36.0	914
3	76.2	4.61	117.1	5000	35	15000	105	48.0	1219
3 1/2	88.9	5.25	133.4	5000	35	15000	105	54.0	1372
4	101.6	6.40	162.6	5000	35	15000	105	60.0	1524

08

Tube:

Choke & Kill Hose 10000PSI

Choke & Kill Hose 10000PSI

10,000psi W.P. - 15,000 psi Test-22,500 psi Minimum Burst

Certification/Standards: API Spec 16C--ISO 14693

Recommended For: Flexible hose between the riser and manifold

or around the ball joint of offshore drilling rigs,

specially designed to withstand high pressure.

Modified Nitrile. Black. Resists abrasion,

corrosion, oil, and up to 20% $\rm H_2S$.

Reinforcement: Multiple layers of textile fabric and steel cable,

with one layer middle rubber placed between

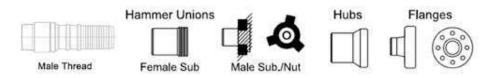
cable layers.

Cover: Fire resistant rubber cover, stainless steel armored to handle abrasion, corrosion, cutting, gouging, oil

and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.



Temperature: $-4 \, ^{\circ}\mathrm{F} \,$ to $+200 \, ^{\circ}\mathrm{F} \,$ [$-20 \, ^{\circ}\mathrm{C} \,$ to $+93 \, ^{\circ}\mathrm{C} \,$] continuous service.

Options: Accessories such as safety clamps and hose lift eyes are available upon request.

Test: Each hose is tested at 15000psi for 15 minutes. Pressure test graph, test certificate and letter of

\in)).	0	0		3	6)
Hos	se ID	Hose	e O.D.	Working Pressure Min. Burst Pressure Min. Bend Rad		ıre Min. Burst Pressure		d Radius	
[ln.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)
2 1/2	63.5	5.14	130.6	10000	70	22500	155	48.0	1219
3	76.2	5.64	143.3	10000	70	22500	155	48.0	1219
3 1/2	88.9	6.05	153.7	10000	70	22500	155	54.0	1372

Choke & Kill Hose 15000PSI

Choke & Kill Hose 15000PSI

15,000psi W.P. - 22,500 psi Test-33,750 psi Minimum Burst

Certification/Standards: API Spec 16C--ISO 14693

Recommended For: Flexible hose between the riser and manifold

or around the ball joint of offshore drilling rigs,

specially designed to withstand high pressure.

Tube: Modified Nitrile. Black. Resists abrasion,

corrosion, oil, and up to 20% H₂S.

Reinforcement: Multiple layers of textile fabric and steel cable,

ith one layer middle rubber placed between cable layers.

Cover: Fire resistant rubber cover, stainless steel armored to handle abrasion, corrosion, cutting, gouging, oil

and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Male Thread

Hammer Unions

Female Sub



Hubs

Flanges



Temperature: -4 $^{\circ}$ F to +200 $^{\circ}$ F (-20 $^{\circ}$ C to +93 $^{\circ}$ C) continuous service.

Options: Accessories such as safety clamps and hose lift eyes are available upon request.

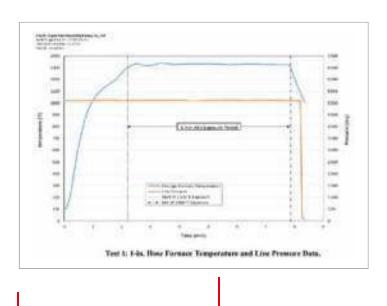
Test: Each hose is tested at 22500psi for 15 minutes. Pressure test graph, test certificate and letter of

\in)).	- (D	(3	6)
Hos	e ID	Hose	e O.D.	Working	Vorking Pressure Min. Burst Pre		n. Burst Pressure		d Radius
(In.)	(mm)	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(In.)	(mm)
2 1/2	63.5	5.66	143.8	15000	105	33750	232.7	60.0	1524
3	76.2	6.16	156.5	15000	105	33750	232.7	60.0	1524

10 BOP Hose

BOP Hose

- China's first API authorized manufacturer of BOP Hose with a certificate of API Spec 16D-0109
- a patent for firstly producing the BOP Hose in China
- 80% shares for the domestic market
- the first grade supplier of CNPC, SINOPEC and CNOOC
- stainless steel 316L used as the armored jacket













BOP Hose 5000PSI

BOP Hose

5,000psi W.P. - 10,000 psi Test-15,000 Minimum Burst

Certification/Standards: API Spec 16D--ISO 14693

Recommended For: Armored hose assemblies with flame resistant cover

withstand minimum 1300°F (+700°C) flame tem-

perature at working pressure for 5 minutes without

failure.

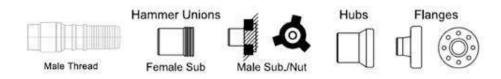
Tube: Modified Nitrile. Black.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Fire resistant, rubber cover, stainless steel armored to handle abrasion, corrosion, cutting, gouging, oil

and weather.

Couplings: Crimped couplings with over-ferrule fire protection.



Temperature: -40°F to +212°F (-40°C to +100°C) continuous service.

Options: Accessories such as API 16D quick connector, self-sealing union and exterior armor to protect hoses

against extreme environmental damage are available upon request.

Test: Each hose is tested at 10000psi for 15 minutes. Pressure test graph, test certificate and letter of

\in	9	((9	0		0		0		0		(Kg)		(Kg)		1.1.1.1.1.1.1	
Hos	e ID	Hose	e O.D.		king ssure	Min. Bend Radius		Min. Bend Radius		Weight			Hose gth						
(In.)	(mm)	[ln.]	(mm)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft	ft	m								
1/4	6	0.77	20	5000	35	4	102	0.66	0.37	330	100								
3/8	10	0.93	24	5000	35	5	127	0.77	0.52	330	100								
1/2	13	1.05	27	5000	35	7	178	0.98	0.63	330	100								
3/4	19	1.38	35	5000	35	9.5	241	1.64	1.05	200	60								
1	25	1.67	42	5000	35	12	305	2.62	1.77	200	60								
1 1/4	32	2.11	54	5000	35	16.5	419	3.94	2.67	200	60								
11/2	38	2.41	61	5000	35	20	508	4.59	3.00	200	60								
2	51	2.96	75	5000	35	25	635	8.53	5.73	200	60								

Cementing Hose 5000PSI

Cementing Hose

5,000 psi W.P. - 10,000 psi Test -12,500 psi Minimum Burst

Certification/Standards: API Spec 7K--ISO 14693--ABS approval

Recommended For: Used as a flexible connection between the

cementing pump and maniford and cementing head

for conveyance of cement slurries at high pressure.

Modified Nitrile. 3/16" thick. Black. Specially Tube:

designed for handling abrasion and corrosion.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers. Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Hammer Unions Female Sub









Temperature:

Cover:

-4 °F to +180 °F (-20 °C to +82 °C) continuous service.

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Test: Each hose is tested at 10000psi for 15 minutes. Pressure test graph, test certificate and letter of

\in)).		9	C)	6)
Hos	e ID	Hose	e O.D.	Working	g Pressure Min. Burst Pressure Min. Bend		Working Pressure		d Radius
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)
2 1/2	63.5	4.14	105.2	5000	35	12500	87.5	36.0	914
3	76.2	4.61	117.1	5000	35	12500	87.5	48.0	1219
3 1/2	88.9	5.25	133.4	5000	35	12500	87.5	54.0	1372
4	101.6	5.61	142.5	5000	35	12500	87.5	54.0	1372

Cementing Hose 10000PSI

Cementing Hose

10,000 psi W.P. - 15,000 psi Test- 22,500 psi Minimum Burst

Certification/Standards: API Spec 7K--ISO 14693--ABS approval

Recommended For: Used as a flexible connection between the

cementing pump and maniford and cementing

head for conveyance of cement slurries at high

pressure

Tube: Modified Nitrile. 3/16" thick. Black. Specially

designed for handling abrasion and corrosion.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Male Thread

Hammer Unions

Female Sub

Male Sub /Nut

Hubs

Flanges

Temperature: $-4 \, ^{\circ}\mathrm{F} \, \text{to} + 180 \, ^{\circ}\mathrm{F} \, [-20 \, ^{\circ}\mathrm{C} \, \text{to} + 82 \, ^{\circ}\mathrm{C} \,]$ continuous service.

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Test: Each hose is tested at 15000psi for 15 minutes. Pressure test graph, test certificate and letter of

(\ni).	(0	(3)	6)
Hos	e ID	Hose	e O.D.	Working	Pressure Min. Burs		t Pressure	Min. Ben	d Radius
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)
2 1/2	63.5	5.16	131.1	10000	70	22500	155	48.0	1219
3	76.2	5.66	143.8	10000	70	22500	155	48.0	1219
3 1/2	88.9	6.04	153.4	10000	70	22500	155	54.0	1372

Cementing Hose 15000PSI

Cementing Hose

15,000 psi W.P. - 22,500 psi Test-33,750 psi Minimum Burst

Certification/Standards: API Spec 7K--ISO 14693--ABS approval

Recommended For: Used as a flexible connection between

the cementing pump and maniford and

cementing head for conveyance of cement

slurries at high pressure.

Tube: Modified Nitrile. 3/16" thick. Black.

Specially designed for handling abrasion

and corrosion.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion, corrosion, cutting,

gouging, oil and weather.

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, hubs, male

thread, etc.

Ha
Male Thread

Hammer Unions
Female Sub

Male Sub./Nut

Hubs

Flanges



Temperature: $-4 \, ^{\circ}\mathrm{F} \,$ to $+212 \, ^{\circ}\mathrm{F} \,$ [$-20 \, ^{\circ}\mathrm{C} \,$ to $+100 \, ^{\circ}\mathrm{C} \,$] continuous service.

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Test: Each hose is tested at 22500psi for 15 minutes. Pressure test graph, test certificate and letter of

\in)			- 3	0	0		6	2				
Hos	e ID	Hose	O.D. Working		Pressure Min. Burst		Working Pressure		Working Pressure		t Pressure Min. B		d Radius
(In.)	(mm)	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)				
2 1/2	63.5	5.66	143.8	15000	105	33750	232.7	60.0	1524				
3	76.2	6.16	156.5	15000	105	33750	232.7	60.0	1524				

Rotary Decoking Hose

Rotary Decoking Hose

5,000psi W.P. – 10,000 psi Test-12,500 psi Minimum Burst-Grade D 7,500psi W.P. – 15,000 psi Test-18,750 psi Minimum Burst-Grade E





Certification/Standards: API Spec 7K--ISO 14693

Recommended For: Coke is one of the by-products used in oil refining. It is stored in silos until it can be loaded into railroad

cars for shipment. The coke hardens after being placed in the silos. To unload the coke from the silos, a decoking hose is attached to a drill stem which travels down the silo using warm, high-pressure water to

wash the loosened coke from the silo.

Tube: Modified Nitrile rubber. 3/16" thick, Black. Specially compounded for handling abrasion and corrosion.

Reinforcement: Multiple layers of textile fabric and steel cable, with one layer middle rubber placed between cable layers.

Cover: Modified Nitrile. Black. Specially designed Ultra abrasion cover is resistant to abrasion,

corrosion, cutting, gouging, oil and weather.

Couplings: Swaged couplings. API standard flanges or equivalent of your choice.

Temperature: -4 °F to +180 °F (-20 °C to +82 °C) continuous service.

Options: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request.

Test: Each hose is tested at 10000psi or 15000psi for 15 minutes. Pressure test graph, test certificate and

letter of conformance are issued for each hose.

5,000psi W.P. – 10,000 psi Test-12,500 psi Minimum Burst-Grade D

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Hos	se ID	Hose	e O.D.	Working	Pressure	Min. Burst Pressure		Min. Ben	d Radius
(In.)	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)
3	76.2	4.61	117.1	5000	35	12500	87.5	48.0	1219
3 1/2	88.9	5.25	133.4	5000	35	12500	87.5	54.0	1372
4	101.6	5.61	142.5	5000	35	12500	87.5	54.0	1372

7,500psi W.P. – 15,000 psi Test-18,750 psi Minimum Burst-Grade E

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Hos	se ID	Hose	0.D.	Working	Pressure	Min. Burst	t Pressure	Min. Ben	d Radius
[ln.]	(mm)	[In.]	(mm)	(psi)	(MPa)	(psi)	(psi) (MPa)		(mm)
3	76.2	5.66	143.8	7500	52.5	18750	130	48.0	1219
3 1/2	88.9	6.04	153.4	7500	52.5	18750	130	54.0	1372
4	101.6	6.40	162.6	7500	52.5	18750	130	60.0	1524

SAE 100 R1 AT/ DIN EN853 1SN

SAE 100 R1 AT/ DIN EN853 1SN

Recommended For: Medium pressure hydraulic lines.

Meets or exceeds the requirements of SAE 100 R1 Type AT and SAE 100R1 Type S and performance

requirements of EN 853 1SN.

Application Fields: Mine hydraulic support, oilfield

extraction machinery, mine/ road/

construction machinery.

Tube: Black, oil resistant, synthetic

rubber.

Reinforcement: One braid of high-tensile steel wire.

Cover: Black, oil, abrasion and weather resistant, synthetic rubber.

Temperature Range: $-40~^{\circ}\mathrm{F}$ to $+250~^{\circ}\mathrm{F}$ [$-40~^{\circ}\mathrm{C}$ to $+121~^{\circ}\mathrm{C}$]



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Hos	e ID	Hose	e O.D.	Working	Pressure	Min. Burst	t Pressure	Min. Ben	d Radius	Wei	ght
[ln.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)	kg/m	lb/ft
1/4	6.4	0.52	13.1	3275	22.6	13100	90.3	3.94	100	0.25	0.168
5/16	7.9	0.58	14.7	3125	21.5	12500	86.2	4.53	115	0.31	0.208
3/8	9.5	0.67	17.1	2600	17.9	10400	71.7	4.92	125	0.36	0.242
1/2	12.7	0.80	20.3	2325	16.0	9300	64.1	7.09	180	0.45	0.302
5/8	15.9	0.92	23.4	1900	13.1	7600	52.4	7.87	200	0.52	0.349
3/4	19.1	1.08	27.4	1525	10.5	6100	42.1	9.45	240	0.65	0.437
1	25.4	1.40	35.5	1275	8.8	5100	35.2	11.81	300	0.91	0.611
1 1/4	31.8	1.69	43.0	925	6.4	3700	25.5	16.54	420	1.30	0.874
1 1/2	38.1	1.95	49.5	725	5.0	2900	20.0	19.69	500	1.70	1.142
2	50.8	2.48	63.0	600	4.0	2700	18.6	24.8	630	2.00	1.344
2 1/2	63.8	3.03	77.0	360	2.5	1600	11.0	29.92	760	2.56	1.720
3	76.0	3.46	88.0	290	2.0	1160	8.0	34.65	880	2.74	1.841

17 SAE 100 R2 AT/DIN EN853 2SN

SAE 100 R2 AT/DIN EN853 2SN

Recommended For: High-pressure hydraulic lines. Meets

> or exceeds the requirements of SAE 100R2AT and SAE 100R2 Type S and performance requirements of EN853

2SN.

Application Fields: For high pressure hydraulic systems

in industry and agriculture.

Tube: Black, oil resistant, synthetic rubber. **Reinforcement:** Two braids of high-tensile steel wire.

Cover: Black, oil, abrasion and weather resistant, thin synthetic rubber.

-40 °F to +250 °F [-40 °C to +121 °C] Temperature Range:



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Hos	e ID	Hose	0.D.	Working	Pressure	Min. Burst	t Pressure	Min. Ben	d Radius	We	ight
[In.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	[ln.]	(mm)	kg/m	lb/ft
1/4	6.4	0.58	14.7	5800	40.0	23200	160.0	3.94	100	0.36	0.242
5/16	7.9	0.64	16.3	5075	35.0	20300	140.0	4.53	115	0.45	0.302
3/8	9.5	0.74	18.7	4800	33.1	19200	132.4	4.92	125	0.54	0.363
1/2	12.7	0.86	21.8	4000	27.6	16000	110.3	7.09	180	0.68	0.457
5/8	15.9	0.98	24.9	3625	25.0	14500	100.0	7.87	200	0.80	0.538
3/4	19.1	1.14	29.0	3120	21.5	12480	86.1	9.45	240	0.94	0.632
1	25.4	1.48	37.6	2400	16.5	9600	66.2	11.81	300	1.35	0.907
1 1/4	31.8	1.87	47.5	1810	12.5	7240	49.9	16.54	420	2.15	1.445
1 1/2	38.1	2.11	53.5	1300	9.0	5200	35.9	19.69	500	2.65	1.781
2	50.8	2.62	66.5	1175	8.1	4700	32.4	24.80	630	3.42	2.298
2 1/2	63.8	3.07	78.0	720	5.0	2880	19.9	29.92	760	3.78	2.540
3	76.0	3.56	90.5	580	4.0	2320	16.0	34.65	880	4.00	2.688

DIN EN856 4SP

Recommended For: Extremely high pressure and high

impulse hydraulic applications. This hose is the most flexible EN856 4SP hose in the industry with superior impulse performance (tested to 1,000,000 impulse cycles at bend radius lower than EN 856 Standard). Compatible with biodegradable hydraulic fluids like



synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

Tube: Black, oil-resident synthetic rubber(Nitrile)

Reinforcement: Four alternating layers of spiraled, high-tensile steel wire. **Cover:** Black, oil, abrasion and weather resistant, synthetic rubber.

Temperature Range: -40 $^{\circ}$ F to +250 $^{\circ}$ F [-40 $^{\circ}$ C to +121 $^{\circ}$ C]

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Hos	e ID	Hose	e O.D.	Working	Pressure	Min. Burst	: Pressure	Min. Ben	d Radius	Weight	
(ln.)	(mm)	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)	kg/m	lb/ft
3/8	9.5	0.83	21.1	6650	45.9	26600	183.4	4.3	109.2	0.78	0.524
1/2	12.7	0.96	24.4	6150	42.4	24600	169.6	4.7	119.4	0.93	0.625
5/8	15.9	1.09	27.7	5800	40.0	23200	160.0	5.5	139.7	1.17	0.786
3/4	19.0	1.24	31.5	5500	37.9	23925	165.0	6.7	170.2	1.48	0.995
1	25.4	1.54	39.1	4650	32.1	20300	140.0	13.4	340.4	2.02	1.357
1 1/4	31.8	1.96	49.8	3050	21.0	18120	124.9	18.1	459.7	3.05	2.050
1 1/2	38.1	2.25	57.2	2685	18.5	10730	74.0	22.0	560.0	3.52	2.365
2	50.8	2.75	69.8	2395	16.5	9570	66.0	26.0	660.0	5.20	3.494

DIN EN856 4SH

Recommended For: Extremely high pressure and high

impulse hydraulic applications. This hose is the most flexible EN856 4SH hose in the industry with superior impulse performance (tested to 1,000,000 impulse cycles at bend radius lower than EN 856 Standard). Compatible with biodegradable hydraulic fluids like synthetic esters,



polyglycols and vegetable oils as well as petroleum-based fluids.

Tube: Black, oil-resident synthetic rubber(Nitrile)

Reinforcement: Four alternating layers of spiraled, high-tensile steel wire. **Cover:** Black, oil, abrasion and weather resistant, synthetic rubber.

Temperature Range: -40 $^{\circ}$ F to +250 $^{\circ}$ F [-40 $^{\circ}$ C to +121 $^{\circ}$ C]

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Hos	e ID	Hose	e O.D.	Working	Pressure	Min. Burs	t Pressure	Min. Ben	d Radius	Weight	
(In.)	(mm)	[ln.]	(mm)	(psi)	(MPa)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft
3/4	19.0	1.24	31.5	6100	42.1	26100	180.0	11.0	280.0	1.72	1.16
1	25.4	1.48	37.6	5600	38.6	26100	180.0	13.4	340.0	2.14	1.44
1 1/4	31.8	1.78	45.2	5050	34.8	20300	140.0	18.1	460.0	2.96	1.99
1 1/2	38.1	2.11	53.5	4200	29.0	16820	116.0	22.0	560.0	3.20	2.15
2	50.8	2.68	68.1	3625	25.0	14500	100.0	27.6	700.0	5.30	3.56

Recommended For: Extremely high pressure, high

impulse hydraulic applications. Exceeds all performance requirements for SAE 100R12, EN 856 R12 and EN856 4SP. Compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based



fluids.

Tube: Black, oil-resident synthetic rubber (Nitrile)

Reinforcement: Four alternating layers of spiraled, high-tensile steel wire.

Cover:Black, oil-resistant synthetic[Nitrile].Temperature Range:-40 °F to +250 °F [-40 °C to +121 °C]

Application: Hydraulic system service with petroleum and water-based fluids, for general industrial use.

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Hos	e ID	Hose	e O.D.	Working	Pressure	Min. Burst	t Pressure	Min. Ben	d Radius	Weight	
[ln.]	(mm)	(In.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	[In.]	(mm)	kg/m	lb/ft
3/8	9.5	0.80	20.3	4000	28.0	16000	112.0	4.9	125	0.70	0.47
1/2	12.7	0.94	24.1	4000	28.0	16000	112.0	7.1	180	0.84	0.56
5/8	15.9	1.09	27.7	4000	28.0	16000	112.0	7.8	200	1.10	0.74
3/4	19.0	1.21	30.7	4000	28.0	16000	112.0	9.4	240	1.33	0.89
1	25.4	1.50	38.1	4000	28.0	16000	112.0	11.8	300	1.85	1.24
1 1/4	31.8	1.85	47.0	3000	21.0	12000	84.0	16.5	420	2.65	1.78
1 1/2	38.1	2.11	53.5	2500	17.5	10000	70.0	19.7	500	3.20	2.15
2	50.8	2.63	66.7	2500	17.5	10000	70.0	24.8	630	4.50	3.02

SAE 100 R13

Recommended For: Extremely high pressure, high

Impulse hydraulic applications. This hose is designed to meet all requirements of SAE 100R13 specifications and performance requirements of EN 856 4SH, EN856 4SP and EN856 R13. Compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and

c fluids

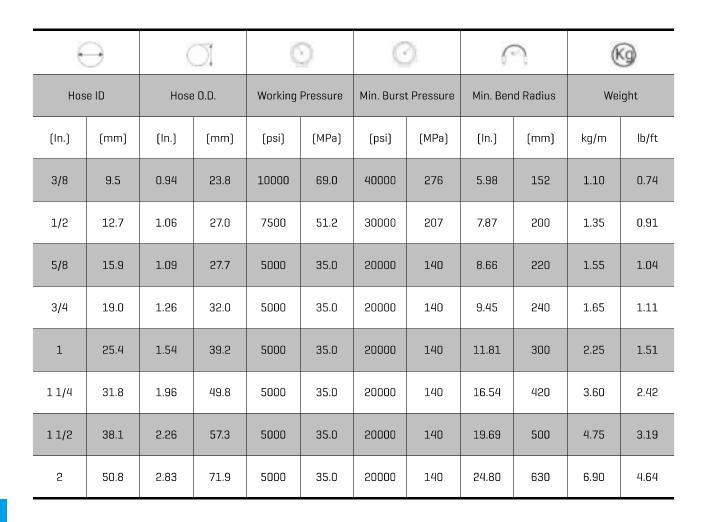
SAE 100R13

 $vegetable\ oils\ as\ well\ as\ petroleum-based\ fluids.$

Tube: Black, oil-resident synthetic rubber(Nitrile)

Reinforcement: Four(six for 1 1/4", 1 1/2" and 2") alternating layers of spiraled, high-tensile steel wire.

Cover:Black, oil-resistant synthetic(Nitrile).Temperature Range: $-40 \, ^{\circ}\mathrm{F}$ to $+250 \, ^{\circ}\mathrm{F}$ [$-40 \, ^{\circ}\mathrm{C}$ to $+121 \, ^{\circ}\mathrm{C}$]



Recommended For: Extremely high pressure, high

impulse Hydraulic applications such as hydrostatic transmissions. This hose is designed to meet all requirements of SAE 100R15 specifications and performance requirements of EN 856 4SP[-

6,-8,-10 and -12], EN856 4SH[-12, -16 and -20]. Compatible with

biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-

SAE 100R15

based fluids.

Tube: Black, oil-resident synthetic rubber(Nitrile)

Reinforcement: Four(six for 1 1/4", 1 1/2") alternating layers of spiraled, high-tensile steel wire.

Cover:Black, oil-resistant synthetic(Nitrile).Temperature Range:-40 $^{\circ}$ to +250 $^{\circ}$ [-40 $^{\circ}$ to +121 $^{\circ}$]

Application: Hydraulic system service with petroleum and water-based fluids, for general industrial use.

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Hos	e ID	Hose	e O.D.	Working	Working Pressure		t Pressure	Min. Ben	d Radius	Wei	ght
[In.]	(mm)	(In.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(ln.)	(mm)	kg/m	lb/ft
3/8	9.5	0.92	23.3	6000	41.4	24000	165.5	6.0	153	0.77	0.52
1/2	12.7	1.06	26.8	6000	41.4	24000	165.5	8.0	203	0.92	0.62
3/4	19.0	1.42	36.1	6000	41.4	24000	165.5	10.5	267	1.50	1.01
1	25.4	1.69	42.9	6000	41.4	24000	165.5	13.0	330	2.10	1.41
1 1/4	31.8	2.02	51.5	6000	41.4	24000	165.5	17.5	445	3.60	2.42
1 1/2	38.1	2.35	59.6	6000	41.4	24000	165.5	21.0	533	5.10	3.43

SAE 100 R17

Recommended For: High-pressure hydraulic oil lines.

Exceeds SAE 100R17 requirements and Performance requirements of EN 857 1SC. The hose has smaller exterior dimensions and significantly tighter bend radius than other SAE 100 R1 and SAE 100

R2 hose.

Tube: Black, oil resistant, synthetic rubber.

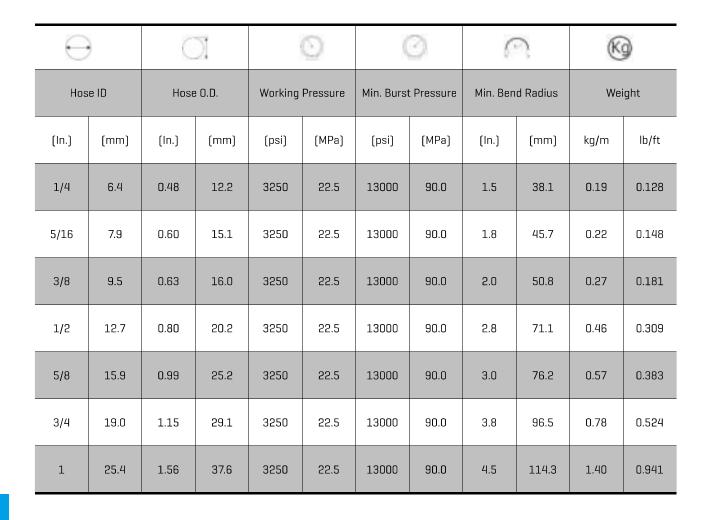
Reinforcement: braided, high-tensile steel wire. 1/4", 5/16", 3/8" and 1/2" sizes are one braid; 5/8", 3/4" and 1" sizes are

SAE 100R17

two braids.

Cover: Black, oil, abrasion and weather resistant, thin synthetic rubber.

Temperature Range: $-40~^{\circ}\mathrm{F}$ to +250 $^{\circ}\mathrm{F}$ [-40 $^{\circ}\mathrm{C}$ to +121 $^{\circ}\mathrm{C}$]



Water S/D Hose 150PSI

Water S/D Hose 150PSI

Recommended For: Medium to light duty water suction/discharge for

agricultural, construction and industrial applications. EPDM tube designed to handle a variety of

liquids and also recommended for sanitation liner

in marine applications.

Tube: black smooth rubber

Reinforcement: high tensile textile plies and steel helix wire embedded

Cover: black, smooth rubber, weather and abrasion resistant rubber, fabric impression

Temperature Range: -22 °F to +176 °F [-30 °C to +80 °C]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Female Sub Male Sub Nut Camlock C Camlock E Male Thread

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Hos	se ID	Hose	e O.D.	Working	Pressure	Min. Ben	d Radius	We	ight	Standar	d Length
[ln.]	(mm)	[ln.]			(MPa)	(ln.)	(mm)	kg/m	lb/ft	ft	m
1	25.4	1.33	33.8	150	1	5.0	127	0.58	0.39	200	60
1 1/4	31.8	1.61	40.9	150	1	5.0	127	0.76	0.51	200	60
1 1/2	38.1	1.86	47.2	150	1	6.0	152	0.89	0.60	200	60
2	50.8	2.36	59.9	150	1	8.0	203	1.13	0.76	200	60
2 1/2	63.5	2.96	75.2	150	1	10.0	254	1.58	1.06	200	60
3	76.2	3.54	89.9	150	1	14.0	356	2.14	1.44	200	60
4	101.6	4.54	115.3	150	1	18.0	457	3.35	2.25	200	60
6	152.4	6.68	169.7	150	1	28.0	711	5.86	3.94	200	60
8	203.2	9.00	228.6	150	1	40.0	1016	13.11	8.81	40	12
10	254	11.27	286.3	150	1	50.0	1270	23.51	15.80	40	12
12	304.8	13.27	337.1	150	1	60.0	1524	27.72	18.63	40	12

Water Discharge Hose 300PSI

Water Discharge Hose 300PSI

Recommended For: Transfer of non-potable water

or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig



or platform. Various water-based transfer applications for offshore or onshore work sites. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and

weathering.

Tube: black smooth rubber
Reinforcement: high tensile textile plies

Cover: black, smooth rubber, weather and abrasion resistant rubber, fabric impression

Temperature Range: -22 °F to +176 °F (-30 °C to +80 °C)

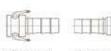
Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Hammer Unions

Female Sub











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Hos	se ID	Hose	e O.D.	Working	Pressure	Wei	ight	Standar	d Length
[ln.]	[mm]	[ln.]	[mm]	(psi)	(MPa)	kg/m	lb/ft	ft	m
2	50.8	2.58	65.5	300	2	1.31	0.98	200	60
3	76.2	3.64	92.5	300	2	2.62	1.80	200	60
4	101.6	4.64	117.9	300	2	3.28	2.30	200	60
5	127	5.78	146.8	300	2	5.25	3.50	200	60
6	152.4	6.82	173.2	300	2	6.56	4.50	200	60

Water S/D Hose 300PSI

Water S/D Hose 300PSI

Recommended For: Transfer of non-potable water

or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig



or platform. Various water-based transfer applications for offshore or onshore work sites. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and

weathering.

Tube: black smooth rubber

Reinforcement: high tensile textile plies and steel helix wire embedded

Cover: black, smooth rubber, weather and abrasion resistant rubber, fabric impression

Temperature Range: -22 °F to +176 °F (-30 °C to +80 °C)

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Hammer Unions

Female Sub







Flanges



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Hos	se ID	Hose	Hose O.D.		Pressure	Min. Ben	d Radius	We	ight	Standard Length	
[ln.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft	ft	m
2	50.8	2.62	66.5	300	2	12.0	304	1.64	1.20	200	60
3	76.2	3.62	91.9	300	2	24.0	609	2.95	1.90	200	60
4	101.6	4.62	117.3	300	2	30.0	762	3.61	2.40	200	60
5	127	5.92	150.4	300	2	36.0	914	6.56	4.40	200	60
6	152.4	6.92	175.8	300	2	40.0	1016	7.87	5.30	200	60

Potable Water Discharge Hose 300PSI

Potable Water Discharge Hose 300PSI

Recommended For: Transfer of potable water, non-potable water or liquids

not containing oils or chemicals from a supply ship to an offshore drilling rig or platform. Various waterbased transfer applications for offshore or onshore work sites. The food grade tube meets FDA requirements and will not impart taste to drinking water. The heavy duty reinforcement is designed to survive extreme



oilfield application requirements. The specially compounded cover material is designed to withstand the

harshest environment including abrasion and weathering.

Tube: white, smooth, EPDM food quality rubber

Reinforcement: high tensile textile plies

Cover: blue, smooth rubber, synthetic rubber and weather resistant

Temperature Range: -4 $^{\circ}F$ to +194 $^{\circ}F$ [-20 $^{\circ}C$ to +90 $^{\circ}C$]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Hammer Unions















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Hos	Hose ID		e O.D.	Working	Pressure	Wei	ght	Standar	d Length	
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	kg/m	lb/ft	ft	m	
2	50.8	2.69	68.3	300	2	1.64	1.14	200	60	
3	76.2	3.73	94.7	300	2	2.62	1.81	200	60	
4	101.6	4.69 119.1		300 2		3.61 2.46		200	60	

Potable Water S/D Hose 300PSI

Potable Water S/D Hose 300PSI

Recommended For: Transfer of potable water, non-potable water or

liquids not containing oils or chemicals from a supply ship to an offshore drilling rig or platform. Various water-based transfer applications for offshore or onshore work sites. The food grade tube meets FDA requirements and will not impart taste to drinking water. The heavy duty reinforcement is designed to



survive extreme oilfield application requirements. The specially compounded cover material is designed

to withstand the harshest environment including abrasion and weathering.

Tube:white, smooth, EPDM food quality rubberReinforcement:high tensile textile plies and steel helix wire

Cover: blue, smooth rubber, synthetic rubber and weather resistant

Temperature Range: $-4 \,^{\circ}\mathrm{F}$ to +194 $^{\circ}\mathrm{F}$ [-20 $^{\circ}\mathrm{C}$ to +90 $^{\circ}\mathrm{C}$]

Design Factor: 3:1

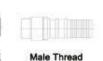
Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Hammer Unions









Flanges



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Hose ID		Hose O.D.		Working Pressure		Min. Bend Radius		Weight		Standard Length	
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft	ft	m
4	101.6	4.96	126.0	300	2	28.0	711	5.58	3.7	200	60
5	127	6.09	154.7	300	2	36.0	914	7.87	5.28	200	60
6	152.4	7.16	181.9	300	2	40.0	1016	9.84	6.69	200	60

Fuel Discharge Hose 300PSI

Fuel Discharge Hose 300PSI

Recommended For: Transfer of refined fuels (commercial gasoline, die-

sel fuel) oils and other petroleum products. Ideal for offshore/onshore transfer applications involving discharge service for diesel oils and other similar petroleum products where an extremely lightweight, flexible hose with a high rated working pressure and a small minimum bend radius is required. Transfer of water,



petroleum based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation

and fracking.

Tube:black, smooth, NBR rubberReinforcement:high tensile textile plies

Cover: black, smooth rubber, resistant to abrasion, heat, oil, ozone and weather. fabric impression

Temperature Range: -40 $^{\circ}$ F to +212 $^{\circ}$ F [-40 $^{\circ}$ C to +100 $^{\circ}$ C]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Hammer Unions

Female Sub













Θ		\bigcirc		0		0		(©		13.13.13.1.1	
Hos	Hose ID		Hose O.D.		Working Pressure		Min. Bend Radius		Weight		d Length
[ln.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft	ft	m
2	50.8	2.66	67.6	300	2	14.0	356	2.65	1.78	200	60
2 1/2	63.5	3.16	80.3	300	2	17.0	432	3.21	2.16	200	60
3	76.2	3.70	89.9	300	2	21.0	533	3.65	2.45	200	60
4	101.6	4.70	94.0	300	2	28.0	711	4.67	3.14	200	60
5	127	5.84	148.3	300	2	35.0	889	6.70	4.50	200	60

Fuel S/D Hose 300PSI

Fuel S/D Hose 300PSI

Recommended For: Transfer of refined fuels (commercial gasoline and

diesel fuel) oils and other petroleum products. Ideal for offshore/onshore transfer applications involving suction and discharge service for diesel oils and other similar petroleum products where an extremely lightweight, hardwall, flexible hose with a high rated working pressure and a small minimum bend radius is required.



Transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries used in oil and

gas well stimulation and fracking.

Tube: black, smooth, NBR rubber

Reinforcement: high tensile textile plies and steel helix wire

Cover: black, smooth rubber, resistant to abrasion, heat, oil, ozone and weather. fabric impression

Temperature Range: -40 $^{\circ}\mathrm{F}$ to +212 $^{\circ}\mathrm{F}$ [-40 $^{\circ}\mathrm{C}$ to +100 $^{\circ}\mathrm{C}$]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Female Sub Male Sub Nut Camlock C Camlock E Male Thread

Θ		\Box		0		0		(©		Lister lat	
Hose ID		Hose O.D.		Working Pressure		Min. Bend Radius		Weight		Standard Length	
[ln.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(ln.)	(mm)	kg/m	lb/ft	ft	m
2	50.8	2.78	70.6	300	2	10.0	254	2.38	1.60	200	60
3	76.2	3.86	98.0	300	2	18.0	457	3.85	2.59	200	60
4	101.6	4.87	123.7	300	2	24.0	609	5.24	3.52	200	60
6	152.4	7.07	180.0	300	2	36.0	914	11.83	7.95	200	60

Tank Truck Fuel S/D Hose 150PSI

Tank Truck Fuel S/D Hose 150PSI

Recommended For: Transfer of refined fuels (commercial gasoline and

diesel fuel), oils and other petroleum products. Ideal for tank truck, fuel farm, and oil field service truck use where a super flexible, maximum kink resistant fuel

transfer hose is needed.

Tube: black, smooth, NBR rubber

Reinforcement: high tensile textile plies and steel helix wire

Cover: black, smooth rubber, resistant to abrasion, heat, oil, ozone and weather. fabric impression

Temperature Range: -40 $^{\circ}\mathrm{F}$ to +212 $^{\circ}\mathrm{F}$ [-40 $^{\circ}\mathrm{C}$ to +100 $^{\circ}\mathrm{C}$]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

Female Sub Male Sub,/Nut Camlock C Camlock E Male Thread

Θ		\bigcirc		0		0		©		14,17,17,1	
Hos	e ID	Hose	e O.D.	Working Pressure		Min. Bend Radius		Weight		Standard Length	
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft	ft	m
1	25.4	1.50	38.1	150	1	3.0	76	0.80	0.54	100	30
1 1/4	31.8	1.75	44.5	150	1	4.0	102	1.06	0.71	100	30
1 1/2	38.1	2.02	51.3	150	1	4.0	102	1.56	1.05	100	30
2	50.8	2.52	64.0	150	1	6.0	152	1.99	1.34	100	30
2 1/2	63.5	3.05	77.5	150	1	8.0	203	2.62	1.76	100	30
3	76.2	3.53	89.7	150	1	9.0	229	3.57	2.40	100	30
4	101.6	4.62	117.3	150	1	12.0	305	4.90	3.29	100	30
6	152.4	6.87	174.5	150	1	17.0	432	8.80	5.91	100	30

Bulk Material Discharge Hose 300PSI

Bulk Material Discharge Hose 300PSI

Recommended For: Transfer of abrasive materials such as

barite and cement from a supply Ship to an offshore drilling rig or platform; and for transfer applications on



offshore or onshore drilling rigs or platforms. The natural rubber tube is specially compounded to conduct electricity and made with extra thickness to resist abrasion. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material

is designed to withstand the harshest environment including abrasion and weathering.

Tube: black, smooth, conductive rubber, resistant to abrasion

Reinforcement: high tensile textile plies

Cover: black, smooth, weather and abrasion resistant rubber, conductive, fabric impression

Temperature Range: $-40 \, ^{\circ}\mathrm{F} \, \text{to} + 158 \, ^{\circ}\mathrm{F} \, [-40 \, ^{\circ}\!\! \mathrm{C} \, \text{to} + 70 \, ^{\circ}\!\! \mathrm{C} \,]$

Design Factor: 3:1

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, camlock, male

thread, etc.

Hammer Unions

Female Sub













6	Θ		\bigcirc)	Œ	9	1.1.1.7.1.1.1		
Hos	Hose ID		Hose O.D.		Pressure	Weig	ght	Standard Length		
(In.)	[mm]	[ln.]	[mm]	(psi)	(MPa)	kg/m	lb/ft	ft	m	
3	76.2	3.98	101.1	300	2	4.27	2.91	200	60	
4	101.6	4.98	126.5	300	2	4.92	3.40	200	60	
5	127	6.14	156.0	300	2	6.89	4.67	200	60	
6	152.4	7.14	181.4	300	2	8.20	5.51	200	60	

Bulk Material S/D Hose 300PSI

Bulk Material S/D Hose 300PSI

Recommended For: Transfer of abrasive materials

such as barite and cement from a supply Ship to an offshore drilling rig or platform; and for transfer applications



on offshore or onshore drilling rigs or platforms. The natural rubber tube is specially compounded to conduct electricity and made with extra thickness to resist abrasion. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

Tube: black, smooth, conductive rubber, resistant to abrasion

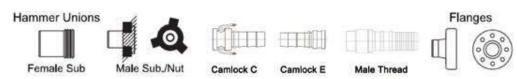
Reinforcement: high tensile textile plies and steel helix wire

Cover: black, smooth, weather and abrasion resistant rubber, conductive, fabric impression

Temperature Range: -40 $^{\circ}\mathrm{F}$ to +158 $^{\circ}\mathrm{F}$ [-40 $^{\circ}\mathrm{C}$ to +70 $^{\circ}\mathrm{C}$]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.



Θ		\bigcirc		0		0		(G)		14.1.2.1.1.1		
Hos	Hose ID		Hose O.D.		Working Pressure		Min. Bend Radius		Weight		Standard Length	
[ln.]	(mm)	(In.)	[mm]	(psi)	(MPa)	(ln.)	(mm)	kg/m	lb/ft	ft	m	
3	76.2	4.23	107.4	300	2	32.0	812	5.25	3.47	200	60	
4	101.6	5.30	134.6	300	2	42.0	1066	7.87	5.23	200	60	
5	127	6.33	160.8	300	2	51.0	1295	8.86	6.03	200	60	
6	152.4	7.33	186.2	300	2	60.0	1524	10.83	7.27	200	60	

UHMWPE Chemical S/D Hose (125-200)PSI

Recommended For: Tank truck, barge, ship, or storage tank transfer of

a variety of chemical products. Renegade contains a wire helix for full suction capability, as well as for routing hoses through tight bends. The Ultra High Molecular Weight Polyethylene tube stock has excellent chemical resistance. Applications include over 450 basic chemicals which are building blocks



for numerous chemicals used in a variety of industries.

Tube: UHMWPE, smooth, conductive, abrasion resistant, food quality. Complies FDA-standards

Reinforcement: high tensile textile plies and steel helix wire

Cover: green conductive rubber, abrasion, ozone and weather resistant. Corrugated with fabric impression.

Temperature Range: -22 °F to +248 °F [-30 °C to +120 °C]

Design Factor: 3:1

Couplings: Swaged couplings. Full range of couplings are available, such as hammer unions, flanges, camlock, male

thread, etc.thread, etc.

Hammer Unions

Female Sub













Θ		\bigcirc		0		0		K9		14.1.1.1.1.1.1	
Hos	e ID	Hose O.D.		Working Pressure		Min. Bend Radius		Weight		Standard Length	
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(ln.)	(mm)	kg/m	lb/ft	ft	m
3/4	19.1	1.22	31.0	200	1.33	4.0	102	0.61	0.41	200	60
1	25.4	1.47	37.3	200	1.33	5.0	127	0.76	0.51	200	60
1 1/4	31.8	1.72	43.7	200	1.33	6.0	152	0.89	0.60	200	60
1 1/2	38.1	2.00	50.8	200	1.33	8.0	203	1.16	0.78	200	60
2	50.8	2.50	63.5	200	1.33	9.0	229	1.61	1.08	200	60
2 1/2	63.5	3.01	76.5	150	1	12.0	305	2.07	1.39	200	60
3	76.0	3.53	89.7	150	1	18.0	457	2.62	1.76	200	60
4	101.6	4.53	115.1	150	1	24.0	610	3.71	2.49	200	60

Oilfield Frac Discharge Hose 400PSI

Oilfield Frac Discharge Hose 400PSI

Recommended For: Designed for transfer of multiple

types of hydraulic Fracking fluids from tank trucks. And also engineered for the demands of

high working pressures of hydraulic

fracturing operations.

Tube: NBR rubber

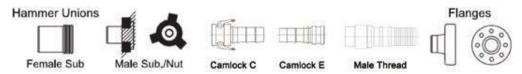
Reinforcement: high tensile textile plies

Cover: SBR for abrasion resistance

Temperature Range: $-40~\mathrm{°F}$ to +212 °F [-40°C to +100°C]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.



Oilfield Frac Discharge Hose 400PSI

Θ		\bigcirc		0		0		(Kg)		4-1-1-2-1-2		
Hos	se ID	Hose	e O.D.	Working	Pressure	Min. Ben	d Radius	Wei	Weight Stand		ard Length	
[ln.]	(mm)	[ln.]	(mm)	(psi)	(MPa)	(In.)	(mm)	kg/m	lb/ft	ft	m	
4	101.6	4.53	115.1	400	2.67	30.0	762	4.18	2.81	100	30	
4	101.6	4.53	115.1	400	2.67	30.0	762	4.18	2.81	200	60	

Oilfield Frac S/D Hose 400PSI

Oilfield Frac S/D Hose 400PSI

Recommended For: Designed for transfer of multiple

types of hydraulic Fracking fluids from tank trucks. And also engineered for the demands of high working pressures of

hydraulic fracturing operations.

Tube: NBR rubber

Reinforcement: high tensile textile plies and steel helix wire

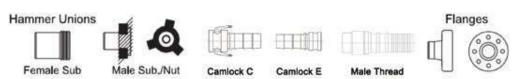
Cover: SBR for abrasion resistance

Temperature Range: $-40~\mathrm{°F}$ to +212 °F [-40°C to +100°C]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.

thread, etc.thread, etc.



Oilfield Frac S/D Hose 400PSI

Standards: ABS approval

(\ni	().	0		6)	E	9	14.1.2.5.1.1		
Hos	se ID	Hose	e O.D.	Working	Pressure	Min. Bend Radius		Weight		Standar	d Length	
[ln.]	(mm)	(ln.)	(mm)	(psi)	(MPa)	(ln.)	(mm)	kg/m			m	
4	101.6	4.78	121.4	400	2.67	38.0	965	5.85	3.93	100	30	
4	101.6	4.78	121.4	400	2.67	38.0	38.0 965 5.85 3.93		200	60		

Oilfield Frac S/D Hose 150PSI

Oilfield Frac S/D Hose 150PSI

Recommended For: Designed for transfer of multiple

types of hydraulic Fracking fluids from tank trucks. And also engineered for the demands of high working pressures of

hydraulic fracturing operations.

Tube: NBR rubber

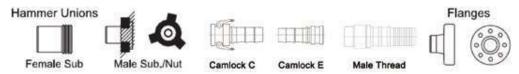
Reinforcement: high tensile textile plies and steel helix wire

Cover: SBR for abrasion resistance

Temperature Range: $-40~\mathrm{°F}$ to +212 °F [-40°C to +100°C]

Design Factor: 3:1

Couplings: Full range of couplings are available, such as hammer unions, flanges, camlock, male thread, etc.



Oilfield Frac S/D Hose 150PSI

Standards: ABS approval

E	\ni	O.		(D	8	3	(Kg)		
Hos	Hose ID		Hose O.D.		Pressure	Min. Bend Radius		Weight		
[ln.]	(mm)	[ln.]	(mm)	(psi) (MPa)		(ln.)	(mm)	kg/m	lb/ft	
6	152.4	2.4 6.9 175.3		150	1	30.0	762	9.35	6.28	
8	8 203.2 8.9 226.1		150	1	48.0 1219		10.60	7.12		

Fracking Hose (TPU Layflat Hose)

Fracking Hose(TPU Layflat Hose)

Recommended For:

Fracking hoses are high pressure, strong polyurethane lay flat discharge hoses designed for aggressive water pumping around mine and drill sites. The fracking hose has been designed to assist with mine dewatering where the constant movement of pumps and surface equipment makes rigid and semi-rigid piping a problem. Being totally lay-flat, this product is light-weight and easy to handle. The transfer of the fracking hose to the deployment system is fast and easy. The fracking hose is spooled from the packing onto the reelers for easy deployment. Using the hose reelers, hose can be deployed along haul roads or down the pit wall. Pumping can begin in a matter of hours instead of days.

Features:

UV stabilized

Resistant to oil and chemicals

Heavy-duty, high pressure applications

Manufactured by an ISO 9001 approved company

pH3 - pH10 at ambient water temperature

Longer or shorter lengths available upon request

Available in standard 100m (330ft) and 200m (660ft) lengths

Extra abrasion resistant for rugged terrain and extreme conditions

Integrated inner and outer coating of abrasion resistant Polyurethane

Flexible in all weather conditions from -55°C to +80°C[-67°F to +176°F]

Couplings:









Colors:

black, red, blue, green, orange, etc.

	\in)	0		()	©	
Item Code	Hos	e ID	Working Pressure		Min. Burs	t Pressure	Weight	
	(ln.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	kg/m	lb/ft
TPU15210	6	152	150	1.0	450	3.0	1.80	1.20
TPU15216	6	152	250	1.7	750	5.0	2.50	1.68
TPU15228	6	152	400	2.7	1200	8.0	3.07	2.06
TPU20216	8	202	250	1.7	750	5.0	2.70	1.81
TPU25414	10	254	200	1.4	600	4.0	4.20	2.82
TPU30510	12	305	150	1.0	450	3.0	5.00	3.36
TPU35010	14	355	150	1.0	450	3.0	6.00	4.03
TPU40010	16	400	150	1.0	450	3.0	7.00	4.70

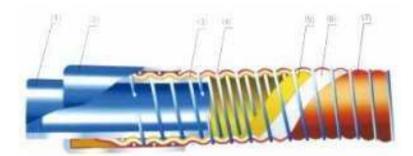
Composite Hose

Composite Hose

Recommended For:

Composite hose, like other hose, provides the vital flexible connection to compensate for vibration, movement, or misalignment in a fluid transfer system.

It can be used in delivery and/or suction of fuels, oils and lubricants in cistern trucks, railcars or fixed deposits.



- (1) terminal
- (2) ferrule
- (3) inner wire
- (4) outer wire
- (5) multiple polypropylene layer
- (6) reinforcement layer
- (7) PVC abrasion and ozone resistance outer cover

Features:

Composite hose is 40% lighter than the rubber hose which has the same diameter and length.

Excellent flexibility

Good positive and negative pressure resistance

Excellent corrosion resistance for chemical liquid medium

Outstanding flame retardant property

Anti-static

Long-term durability

The CCS and ABS certificates are available.

Types:

Type	Inner Wire	Outer Wire	Carcass	Cover	Application
GGE	G	G	multiple layers of polypropylene or polyester fabrics, films and polyester barrier layers	PVC coated fabric	gasoline, diesel fuel, crude oil, lubricant oil, mineral spirits, water, Nitrogen, etc.
GGT	G	G	multiple layers of polypropylene or polyester fabrics, films, PTFE, fiberglass and polyester barrier layers	PVC coated fabric	chemicals without corrosion
SGE	S	G	multiple layers of polypropylene or polyester fabrics, films and polyester barrier layers	PVC coated fabric	gasoline, diesel fuel, crude oil, lubricant oil, mineral spirits, water, Nitrogen, etc.
SGT	S	G	multiple layers of polypropylene or polyester fabrics, films, PTFE, fiberglass and polyester barrier layers	PVC coated fabric	corrosive and aggressive chemicals
SSE	S	S	multiple layers of polypropylene or polyester fabrics, films and polyester barrier layers	PVC coated fabric	gasoline, diesel fuel, crude oil, lubricant oil, mineral spirits, sea water, fresh water, Nitrogen, etc.
SST	S	S	multiple layers of polypropylene or polyester fabrics, films, PTFE, fiberglass and polyester barrier layers	PVC coated fabric	corrosive and aggressive chemicals

Note: Three capital letters are used for the composite hose. The first capital letter means the inner wire; the second capital letter means the outer wire; the third letter means the carcass.

Composite Hose

Composite Hose

S---stainless steel 304/304L/316/316L

G---galvanized steel

E---Polypropylene

T--- PTFE

Specification:

Inner Diameter(mm)	25	40	50	65	80	100	150	200	250	300
Diameter Tolerances(mm)		±4								
Length(m)±5%		20 16								
Working Pressure(Mpa)				0.6-2.0					0.6-1.6	
Temperature(°C)		-40~+130								
Floatrical Designation (a)	C	CS ≦ 10								
Electrical Resistance (°)	S	S				≦	20			
Bending Radius(mm)±100	220	220	300	300	350	400	575	800	1000	1200

Note: 1. The maximum diameter of the camlock can reach 150(6"), other specifications are according to customers' requirements.







Hammer Union

Hammer Union

Certification/Standards: API Spec 16A--ISO 14693

Main Types: Hammer Union type mainly consists of Figure 50, Figure 200, Figure 200, Figure 207, Figure 400,

Figure 600, Figure 602, Figure 1002, Figure 1002 and Figure 1502.

Recommended For:

Hammer Unions can be used for cementing trucks, oil field applications, for quick connection on tank trucks and rail cars carrying of LPG, LNG, CNG, etc., all kinds of manifolds and other high pressure equipment and pipes. Hammer Unions have good mechanical performance and sealing property. Especially, they can operate under the bad weather condition. They can be assembled, fixed and changed easily and conveniently. They are very easy to use as they are self-aligning, and do not require any special tools. It takes some seconds as compared to several minutes required with flanged connection. Hence in case of railway wagon loading, where large numbers of connections are to be made in each loading operation.







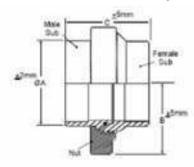






Fig 50.

These low pressure and suction union of Fig50 are made from carbon steel. Available in 4" or 5" sizes in threaded & socket welded connection. These unions are suitable for 500 PSI wp.



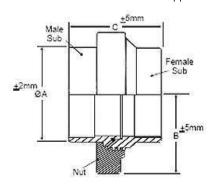


500 PSI CWP (Fig. - 50)

Size	A		В				С		ACME	Union Weight				
					Threaded		Socker Welded End			Thre	hreaded Socker Welde		lded End	
(inch)	inch	mm	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg	lbs	kg	
4	6.00	152.50	5.07	129.00	6.15	156.21	4.12	104.64	3M0D	28.00	12.70	27.00	12.24	
5	6.00	152.50	5.07	129.00	5.77	146.74	4.12	104.64	3MOD	23.00	10.43	21.50	9.75	

Fig 100.

These low pressure unions are ideal for manifold and applications where CWP does not exceed 1000 PSI.



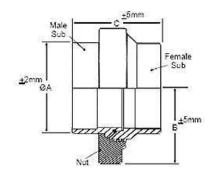


1,000 PSI CWP (Fig. - 100)

Size	А		В		С		ACME	Union '	Weight
Size	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg
1	1.6	40.5	1.95	50	2.57	65	6STD	1.75	0.79
2	2.74	69.5	2.91	74	3.66	93	3MOD	5.73	2.6
2 1/2	3.3	84	3.81	97	4.29	109	3MOD	9.47	4.3
3	4.09	104	4.09	104	4.88	124	3MOD	1.33	6.05
4	5.19	132	5	127	5.78	147	3MOD	19.84	9
5	6.37	162	5.75	146	6.03	153	4STD	33	15
6	7.36	187	6.92	176	6.71	170.5	3STD	46	20.9
8	9.52	242	8	203	7.2	183	3STD	61.72	28

Fig 200.

These unions are best suited for medium pressure ranges involving air, water, oil & gas service for cold working pressure up to 2,000 PSI. Up to 4" no 0-ring is used on the male sub. Beyond 4" size, an 0-Ring is used on the male sub for sealing. The Figure 200 is a compact and economical union, available with Threaded and ButtWeld ends.



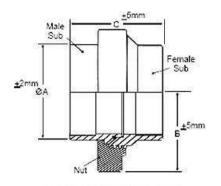


2,000 PSI CWP (Fig. - 200)

	ļ	4		3	(S	ACME	Union Weight	
Size	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg
1	1.59	40.5	1.96	50	2.55	65	6STD	1.76	0.8
1 1/4	2	51	2.11	53.6	2.79	71	6STD	2.2	1
1 1/2	2.28	58	2.52	64	2.73	69.5	6STD	2.42	1.1
2	2.79	71	2.91	74	3.54	90	4STD	5	2.3
2 1/2	3.3	84	3.87	98.5	4.25	108	4STD	9.25	4.2
3	4.17	106	3.89	99	4.52	115	4STD	13.67	6.2
4	5.23	133	4.52	115	4.96	126	3MOD	18.52	8.4
5	6.32	162	5.75	148	6.03	153	4STD	33	15
6	7.5	190.5	6.06	154	6.65	169	3STD	42.5	19.3
8	9.56	243	7.18	182.5	7.15	181.5	3STD	61.7	28
10	11.49	292	9.01	220.7	9.09	231	3STD	90.39	41

Fig 206.

These unions have an additional 'O' ring on the spherical surface of the male sub providing a leak proof seal. All dimensions of Fig200 & Fig206 are identical.



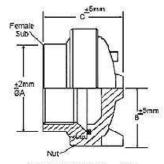


2,000 PSI CWP (Fig. - 206)

0:	,	4	В				ACME	Union	Weight
Size	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg
1	1.59	40.5	1.96	50	2.55	65	6STD	1.76	0.8
1 1/4	2	51	2.11	53.6	2.79	71	6STD	2.2	1
1 1/2	2.28	58	2.52	64	2.73	69.5	6STD	2.42	1.1
2	2.79	71	2.91	74	3.54	90	4STD	5	2.3
21/2	3.3	84	3.87	98.5	4.25	108	4STD	9.25	4.2
3	4.17	106	3.89	99	4.52	115	4STD	13.67	6.2
4	5.23	133	4.52	115	4.96	126	3MOD	18.52	8.4
5	6.32	162	5.75	148	6.03	153	4STD	33	15
6	7.5	190.5	6.06	154	6.65	169	3STD	42.5	19.3
8	9.56	243	7.18	182.5	7.15	181.5	3STD	61.7	28
10	11.49	292	9.01	220.7	9.09	231	3STD	90.39	41

Fig 207.

Fig 207 Blanking Caps and unions are fully interchangeable with Fig 200 and 206 unions. For use where the blanking off at the end of a line is desirable. The cap is fitted with an '0' ring to ensure a leakproof seal.



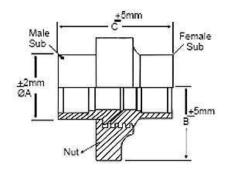


2,000 PSI CWP (Fig. - 207)

	А		В		С		ACME	Union '	nion Weight	
Size	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg	
3	4.09	104	2.91	74	3.74	95	4STD	10.36	4.7	
4	5.15	131	3.58	91	4.33	110	змор	16.3	7.4	
6	7.55	192	5	127	5.9	150	3STD	38.13	17.3	
8	9.6	245	6.1	155	6.1	220	3STD	70.76	32.1	
10	11.53	293	7.16	182	7.16	248	3STD	96.11	43.6	

Fig 400.

These unions are rigid in design and have all the three parts made of steel forgings. These unions are best suited for manifold and line connections. Unions from 3 inch through 8 inch sizes have 0-rings for primary sealing. From 5" to 8" sizes C.W.P. is 2,500 PSI.





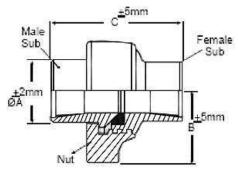
4,000 PSI CWP (Fig. - 400)

		4	E	3		ر	ACME	Union '	Weight
Size	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg
1	1.75	44.5	2.28	58	3.54	90	3STD	3	1.35
2	3.06	76.8	3.44	87.5	5.24	133	3STD	11	5
2 1/2	3.54	90	4.17	106	6.18	157	3STD	16.3	7.4
3	4.19	106.6	4.29	109	6.18	157	3STD	19.4	8.8
4	5.23	133	4.74	120.5	8.25	209.7	3STD	28	12.7
5	6.26	159	5.63	143	10.47	266	3STD	48.5	22
5 1/2	6.29	160	5.78	147	10.43	265	3STD	48	21.8
6	7.75	197	6.52	165.6	11.02	280	3STD	75	34
7	7.75	198	6.62	168	11.03	280	3STD	61	27.7
8	9.59	243.5	7.71	196	11.42	290	3STD	94.13	42.7
10	11.75	298.4	9.6	244	11.29	287	3STD	121.2	55
12	13.98	355	10.62	270	11.02	280	3STD	158.7	72

Hammer Union

Fig 600.

These unions have wide range of applications including steam service and line connections. These unions are provided with a bronze seat in the female for the effective sealing and prevention of rust formation. Suitable for 6000 PSI CWP.



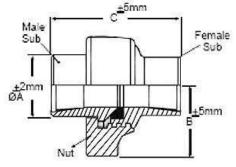


6,000 PSI CWP (FIG - 600)

	Α		В		С		ACME	Union '	Weight
Size	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg
1	1.75	44.5	2.26	57.5	3.58	91	6STD	3.52	1.6
1 1/2	2.55	65	3.07	78	4.92	125	4STD	9.26	4.2
2	3.07	78	3.7	94	6.42	163	2STD	15.43	7
2 1/2	3.54	90	4.17	106	7.52	191	2STD	20.28	9.2
3	4.25	108	4.54	115.5	8.72	221.5	2STD	27.23	12.4
4	5.27	134	5.19	132	10.04	255	2STD	40	18.1

Fig 602.

These unions are recommended for manifold and line connections truck mounting and in mud services. This union has resilient lip-type seal for positive sealing and also protects secondary metal - to metal seal. Suitable for 6000 PSI.



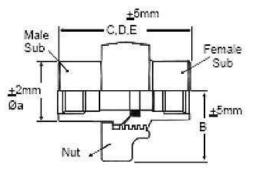


6,000 PSI CWP (FIG - 602)

Size	A		В		С		ACME	Union '	Weight
	inch	mm	inch	mm	inch	mm	(TPI)	lbs	kg
1	1.75	44.5	2.26	57.5	3.58	91	6STD	3.52	1.6
1 1/2	2.55	65	3.07	78	4.92	125	4STD	9.26	4.2
2	3.07	78	3.7	94	6.42	163	2STD	15.43	7
2 1/2	3.54	90	4.17	106	7.52	191	2STD	20.28	9.2
3	4.25	108	4.54	115.5	8.72	221.5	2STD	27.23	12.4
4	5.27	134	5.19	132	10.04	255	2STD	40	18.1

Fig 1002.

These unions are designed for high pressure systems like choke and kill lines, cementing, acidizing, testing and truck mounted system. This union has a liptype seal made of nitrile rubber and subs made of alloy steel, suitable for 10,000 PSI.





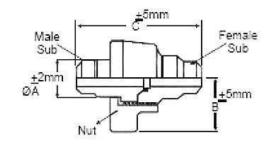
10,000 PSI CWP (FIG - 1002)

	А		В		С		Butt Welded						
Size							D SCH-160		E SCH-XXX		ACME (TPI)	Union \	Weight
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		lbs	kg
1	1.75	44.5	2.28	58	3.5	89	3.5	89	3.5	89	6STD	3.5	1.6
1 1/4	2.6	66	2.95	75	4.88	124	4.88	124	4.88	124	4STD	9.7	4.4
1 1/2	2.55	65	3.18	81	4.88	124	4.88	124	4.88	124	4STD	9.25	4.2
2	3.07	78	3.81	97	5.25	133.5	5.28	133.5	5.28	133.5	3M0D	12.12	5.5
2 1/2	3.46	88	3.78	96	6.18	157	6.18	157	6.18	157	4STD	16	7
2 1/2 (EUE)	3.81	97	4	100	5.51	140	-	-	-	-	4STD	17.8	8.1
3	4.25	108	4.52	115	6.22	158	5.51	140	5.51	140	4STD	22.26	10.1
4	5.27	134	5.04	128	8.23	209	5.67	144	5.67	144	4STD	33	15
5	5.55	141	6.1	155	6.22	158	6.22	158	6.22	158	3STD	56	25.4
6	6.62	168.3	6.81	173	6.57	167	6.57	167	6.57	167	3STD	79.8	36.2

Hammer Union

Fig 1003.

These unions protect against electrolytic action. There is no metal - to - metal contact between the subs. A resilent seal ring in the female sub provide additional sealing and protection from corrosion. Suitable for 2000 PSI CWP.



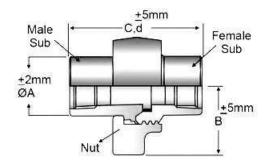


10,000 PSI CWP (FIG - 1003)

Size	А		В		C Butt Welded		ACME (TPI)	Union Weight	
	inch	mm	inch	mm	inch	mm	נידין	lbs	kg
5	6.3	160	6.5	165.1	8.15	207	-	86	39
6	7.4	189	7.2	182.8	9.5	241.3	-	142	64

Fig 1502.

These unions are widely used in cementing, manifold and other services where extra high pressure of 15,000 PSI CWP are encountered. There unions are provided with replaceable seal ring.





15,000 PSI CWP (FIG - 1502)

Size	А		В		C Butt Welded		ACME	Union Weight	
	inch	mm	inch	mm	inch	mm	(TPI)	lbsf	kgf
1	2.18	55.5	2.75	70	4.33	110	3.5STD	8.5	3.8
1 1/2	2.96	75.2	3.48	88.5	5.39	137	3.5STD	12.8	5.7
2	3.22	82	3.86	98	7.03	178.5	3STD	20.3	9.2
2 1/2	3.74	95.2	3.96	100.6	7.28	185	3STD	23.0	10.3
3	4.45	113	4.53	115	7.67	195	3.5STD	29.5	13.3
4	5.75	146.1	6.00	152.2	8.54	217	змод	76.5	34.4
5	6.45	164	6.53	166	-	-	-	96	43
6	7.48	190	7.2	183	-	_	-	148	67

High Pressure Flange

The high pressure flange is forged from high strength alloy steel with imported advanced technology in the world. Strict heat treatment ensures uniform metallographic structure and bearing capacity. It is widely used in the petroleum and chemical industry, boilers and pressure vessels, ships and other sectors for high pressure connection.



Applicable Standards: API Spec 6A

Inner D	iameter	Rated Pressure					
inch	mm	MPa	psi				
1 13/16	46	69.0	10000				
1 13/16	40	103.5	15000				
		13.8	2000				
		20.7	3000				
2 1/16	52	34.5	5000				
		69.0	10000				
		103.5	15000				
		13.8	2000				
	65	20.7	3000				
2 9/16		34.5	5000				
		69.0	10000				
		103.5	15000				
3 1/16	78	69.0	10000				
3 1/10		103.5	15000				
		13.8	2000				
3 1/8	80	20.7	3000				
		34.5	5000				
		13.8	2000				
		20.7	3000				
4 1/16	103	34.5	5000				
		69.0	10000				
		103.5	15000				

49

Integral Connections

Integral joint is an essential part of the high pressure liquid pipeline, which can effectively achieve the liquid distribution and flow, fluid change, etc. The integral joint manufactured by Jingbo adopts the FMC, a foreign SPM technology. In addition to the types listed in this catalogue, the integral joint can be customized according to customer's requirements.

The types are L90 DHS elbow, T type joint, Y type joint, manifold joint, fishtail joint, three-dimensional cross, three-dimensional manifold joint, etc.

Integral joint is made from high quality alloy steel and goes through a strict heat treatment process, with the advantages of compact conformation, uniform wall thickness, long service life, beautiful appearance, smooth, strong connection and interchangeability, easy connection, etc.

Working Pressure: 21-140Mpa(3000PSI-20000PSI)

Nominal Diameter: 2"-4"

-46°C - +121°C (LU)



50

High Pressure Horizontal Pipe

Rigid straight pipe is a kind of pipe that both ends are connected with different couplings, including thread, flange and union. It is widely used in oil drilling, cementing, fracturing, etc. Various types of rigid straight pipe can survive the low temperature and hydrogen sulfide gas environment.

Working Pressure: 14-140Mpa(2000PSI-20000PSI)

Specification: 1"-6"

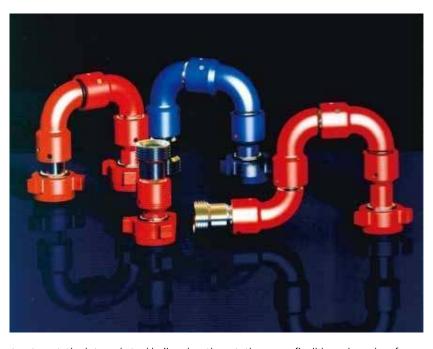
Temperature Range: $-29^{\circ}\text{C} - +121^{\circ}\text{C}$ [PU]



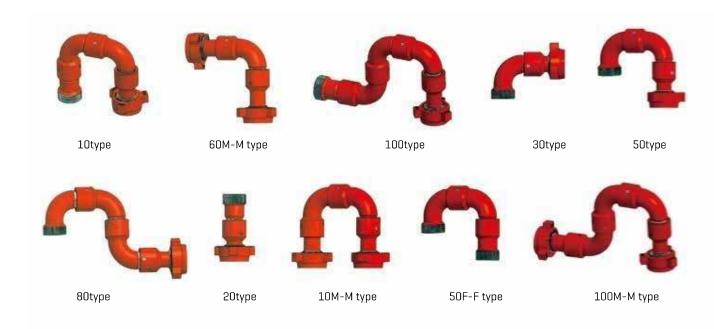
Swivel Joints

The swivel joints are the common components in the well kill system and are manufactured for different kinds of liquids in the oil field. These liquids contain the cement slurry, drilling mud, fracturing liquid, crude oil and treatment materials of grinding well. Various kinds of joints can be matched flexibly and both ends can be connected by pipe thread and hammer unions. These types of swivel joints provide the flexibility for the pipeline connection of well head, blowout preventer and other workover or well testing equipments.

In order to achieve the working strength as required by the rated working pressure, all swivel joints adopt the low alloy steel and receive the thermal treatment, with the

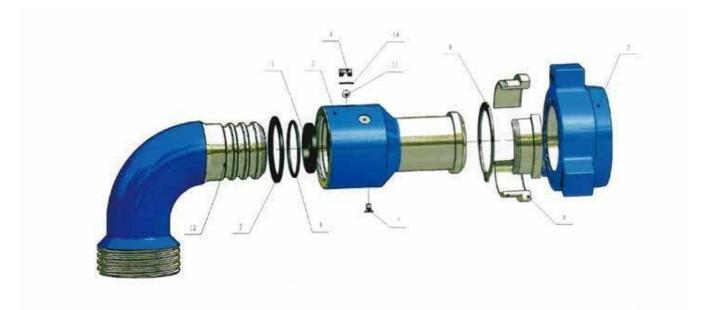


three raceways design. With a nitrogen surface treatment, the internal steel ball makes the rotation more flexible and much safer. The multiple seal rings are placed in the connection, so as to prevent the foreign matters entering. When the seal elements have the leakage, the lubricating grease retainer with the automatic pressure reduction will prevent the pressure accumulating in the raceway cavity. The joints with several models of 2 inches to 3 inches can be selected. The maximum working pressure is $103.5 \, \text{Mpa}$ and the working temperature range is $-29\,^{\circ}\text{C}$ - $+82\,^{\circ}\text{C}$.



Swivel Joints

No.	Nomial Bore mm(in)	Model	Max. Working PressureMpa	Structural Form	Connection Code(Thread Type)
1	50.8[2]	10type-100type	70	Long Radius	M-F(ANSI, GB Trapezoidal Thread)
2	50.8(2)	10type-100type	105	Long Radius	M-F(ANSI, GB Trapezoidal Thread)
3	50.8(2)	10type-100type	140	Long Radius	M-F(ANSI, GB Trapezoidal Thread)
4	76.2(3)	10type-100type	42	Long Radius	B-B(LP, TBG)
5	76.2[3]	10type-100type	70	Long Radius	M-F(ANSI, GB Trapezoidal Thread)
6	76.2(3)	10type-100type	105	Long Radius	M-F(ANSI, GB Trapezoidal Thread)
7	76.2[3]	10type-100type	140	Long Radius	M-F(ANSI, GB Trapezoidal Thread)



- 1. packing 2. dust ring 3. straight connection 4. steel ball plug 5. wing nut 6. slips 7. bolt 8. elastic damping ring
- 9. O-type seal ring 10. elastic damping ring 11. steel ball 12. A joint

Spiral Guard Wrap

Spiral Guard Wrap

Recommended For:

The use of Spiral Guard Wrap is an economical and convenient method of protecting and extending the life of hydraulic and pneumatic hoses, cables, wires and rope from premature wear. Manufactured from extruded high density polyethylene (HDPE), Spiral Guard Wrap will withstand the extremes of climate and operating conditions. The HDPE extrusion process provides a product with round edges which make for easy installation which will not damage hoses. Spiral Guard Wrap protects against



abrasion, cuts, crushing, UV and various hazards which can destroy expensive hose and cable assemblies and cause output to suffer due to downtime. Larger sizes are used for both protection and bundling of multiple hose applications. Spiral Guard Wrap's open spiral design allows for simple installation in the field, without the need to disconnect lines.

Material: high-density Polyethylene, spiral-formed protection system, wear, cut, and crush-resistant polymer

Temperature Range: $-60 \, ^{\circ}\mathrm{F} \,$ to +210 $^{\circ}\mathrm{F} \,$ [-50 $^{\circ}\mathrm{C} \,$ to +100 $^{\circ}\mathrm{C} \,$]

Tensile Strength: 25MPa at room temperature.

Application: Mining, equipment, forestry, agriculture, trucking, automotive applications.

Dimensions

Description	ID Thickness		kness	Pitch	Applied for	Package(L)
	(mm)	T(mm)	T(mm)	(mm)	0.D.(mm)	[m]
HPS-008	8.0	1.2	0.4	8.0	8.0-11.0	
HPS-010	10.0	1.3	0.4	10.0	10.0-13.0	
HPS-012	12.0	1.5	0.5	12.0	12.0-15.0	
HPS-016	16.0	2.0	0.5	15.0	15.0-18.0	
HPS-018	19.0	2.0	0.5	16.0	18.0-21.0	
HPS-020	20.0	2.5	0.5	18.0	19.0-25.0	
HPS-025	25.0	2.5	0.7	21.0	23.0-29.0	
HPS-028	28.0	3.0	0.7	22.0	26.0-32.0	
HPS-030	30.0	3.0	1.0	22.0	28.0-35.0	20meters/Roll
HPS-035	35.0	3.5	1.0	24.0	32.0-40.0	CRATON
HPS-038	38.0	3.5	1.0	25.0	35.0-43.0	
HPS-042	42.0	3.5	1.0	25.5	39.0-47.0	
HPS-045	45.0	3.5	1.0	26.0	42.0-50.0	
HPS-050	50.0	3.5	1.2	27.0	46.0-55.0	
HPS-060	60.0	4.0	2.0	28.0	55.0-66.0	
HPS-074	74.0	4.4	2.2	29.0	68.0-70.0	
HPS-088	88.0	4.9	2.4	31.0	82.0-95.0	
HPS-100	100.0	5.2	2.5	33.0	94.0-110.0	

Nylon Textile Sleeve

Recommended For: Nylon textile sleeve is designed to provide

long-wearing abrasion protection for hoses, cables and wires. Manufactured from high tenacity multi-filament nylon yarn and woven into a flexible tubular sleeving, the nylon textile sleeve provides complete system coverage and reliable protection. The Nylon fibers provide UV protection and great resistance to common industrial and vehicular fluids. Maintain operation uptime, reduce



expenditures due to hose damage, and prevent premature hose wear with the sleeve.

Application: Nylon textile sleeve is mainly used for wear resistance and explosion proof mechanical equipment hy-

draulic hose, oil rubber hose, the trachea and other pipe fitting, especially suitable for working under the

severe environment.

Dimensions

Description	Flat Width	I.D.	Sleeve Thickness	Package(L)
	[mm]	[mm]	[mm]	[m]
HTSN-020	20	12	1.0	
HTSN-025	25	15	1.0	
HTSN-030	30	18	1.0	
HTSN-035	35	21	1.0	
HTSN-040	40	24	1.0	
HTSN-045	45	28	1.0	
HTSN-050	50	31	1.0	
HTSN-060	60	37	1.0	50meters/Roll
HTSN-070	70	44	1.0	CRATON
HTSN-080	80	50	1.0	
HTSN-090	90	56	1.0	
HTSN-100	100	62	1.0	
HTSN-115	115	72	1.0	
HTSN-145	145	90	1.0	
HTSN-176	176	110	1.0	

55 Saftey Clamps & Chains

Safety Clamps & Chain

Safety clamps & chains are used to secure ends of rotary and other high pressure hoses to guard against accident in the event of failure of hose connection.

All this systems meet the strict API standards. API Standards require a minimum breaking strength of 16,000 pounds for rotary hose safety clamps. Safety clamps & chains are available in 1 bolt, 2 bolt and 4 bolt configurations that range in sizes from 1/2" up to 48". We can also build custom sizes made to your specifications. Stainless steel components available for offshore or high chemical areas.

Lift Eye and Collar:

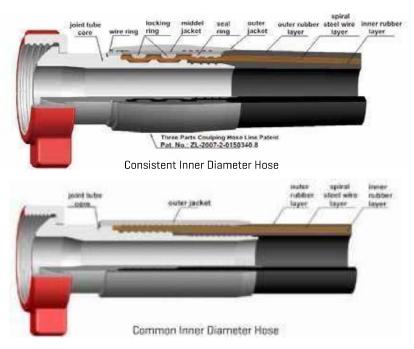
Hose lift eye and collar clamp are also available. Do not use safety clamps & chain for lifting.



Patents

Consistent Inner Diameter Hose Patent

Compared with other hoses, consistent inner diameter hose without bottleneck could lower the velocity in the case of the same flow. To be more specific, there is no eddy in the hose because of this special design. The engineer could accurately calculate both the flow and the velocity which avoids some weak mechanical force and vibration phenomena caused by speed power source or insufficient hydraulic source. This design enhances the joint capacity for more pressure and eventually extends the service life of the hose.



Three Parts Coupling Patent

Traditional coupling only includes ferrule and fitting. The fitting is easy to take off under very high pressure, which seriously threatens workers' lives. Compared with the traditional coupling, the Three Parts Coupling designed by Jingbo is much safer. The middle band and the fitting are interlocked and more tightly. The fitting could bear more pressure and never takes off. It is 100% safe without any leakage.



Three Parts Coupling before being crimped on the hose



Three Parts Coupling after being crimped on the hose



Inner Structure of the Three Parts Coupling