



# 2022

**PETROLEUM DRILLING HOSE**



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# H301 D | API Spec. 7K FSL 1 FSL 2 | ABS

## ROTARY DRILLING AND VIBRATOR HOSE

**Application:** Flexible connection between the upper end of the stand pipe and the top drive/swivel and between the pump and the lower end of the standpipe for pumping mud at high pressure in oil drilling, cementing, and well workover operations .

### Hose Construction

**Inner Tube:** sythentic rubber/HNBR/UPE/PTFE

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

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

**Temperature Range:** -20°C~+121°C (-4°F~+250°F)

**Connector:** integral union, integral flange, or other connector types

**Full bore can be customized based on the requirements**



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PRESSURE LEVEL (Psi)	I.D. in	O.D. mm	W.P. Psi	P.P Psi	Min.B.P. Psi	Min.B.R. mm	W.T kg/m
1500 Grade A	2	68	1500	2250	3750	800	4.3
	2 1/2	84	1500	2250	3750	800	5.6
2000 Grade B	2	68	2000	3000	5000	800	4.3
	2 1/2	84	2000	3000	5000	800	5.6
	3	97	2000	3000	5000	950	6.5
	3 1/2	113	2000	3000	5000	1000	8.5
	4	127	2000	3000	5000	1000	10.4
	5	157	2000	3000	5000	1200	14.0
	6	183	2000	3000	5000	1300	18.0
4000 Grade C	2	72	4000	6000	10000	800	6.4
	2 1/2	87	4000	6000	10000	800	8.7
	3	102	4000	6000	10000	1000	11.1
	3 1/2	119	4000	6000	10000	1200	14.4
	4	132	4000	6000	10000	1200	16.0
	5	162	4000	6000	10000	1400	24.5
	6	194	4000	6000	10000	1500	33
5000 Grade D	2 1/2	105.2	5000	7500	12500	914	8.7
	3	117.1	5000	7500	12500	1219	11.1
	3 1/2	133.4	5000	7500	12500	1372	14.4
	4	142.5	5000	7500	12500	1372	16.0
7500 Grade E	2	77	7500	11250	18750	900	8.5
	2 1/2	94	7500	11250	18750	1000	10.5
	3	110	7500	11250	18750	1000	18.5
	3 1/2	128	7500	11250	18750	1200	20
	4	150	7500	11250	18750	1400	30
	5	185	7500	11250	18750	1600	49
	6	212	7500	11250	18750	1600	60

# H301 F

## SUPER ABRASION RESISTANT FRACHOSE



**Application:** Flexible line using for delivery water-based, oil-based, acid-based and foam fracturing fluids under high pressure in acid, sand and hydraulic fracturing works.

**Hose Construction**

**Inner Tube:** UPE and sythetic rubber

**Tube Type:** full flow

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

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

**Temperature Range:** -29°C~+100°C (-20°F~+212°F)

**Connector:** integral union , integral flange, or other connector types

Size	I.D.	O.D.	W.P.	P.P	Min.B.R.	W.T	Volume		Connector W.T	Connection Type
							bbl/min	m³/min		
inch	mm	mm	Psi	Psi	m	kg/m			kg	
2"	45	95	15000	22500	1.4	18	9	1.46	53	3" figure 1502 hammer union or 3 1/16" 15K API flange
	51	103	15000	22500	1.4	20	12	1.91	55	
2-1/2"	58	121	15000	22500	1.5	26	14.8	2.34	57	
	64	128	15000	22500	1.5	30	18.5	2.90	58	
3"	70	135	15000	22500	1.6	34	22	3.50	60	
	76	141	15000	22500	1.6	38	26	4.17	65	
4"	89	165	15000	22500	2.0	50	35.8	5.70	75	4" figure1502 hammer union or 4 1/16" 15K API flange
	102	171	15000	22500	2.0	56	47	7.47	85	
5"	120	210	15000	22500	2.1	68	62.9	10	155	5 1/8" 15K API flange
	127	215	15000	22500	2.1	86	80	11.58	175	
	130	220	15000	22500	2.1	90	84	12.13	105	
6"	140	240	15000	22500	2.2	130	88.6	14.07	210	7 1/16"15K API flange
2"	44	106	20000	30000	1.5	24	9	1.46	60	2" figure 2002 hammer union or 3 1/16" 20K API flange
	51	112	20000	30000	1.5	26	12	1.91	65	
2-1/2"	57	126	20000	30000	1.6	32	14.8	2.34	70	2 1/2" figure 2002 hammer union or 3 1/16" 20K API flange
	64	133	20000	30000	1.6	36	18.5	2.90	78	
3"	69	142	20000	30000	1.7	44	22	3.50	85	3" figure 2002 hammer union or 3 1/16" 20K API flange
	76	145	20000	30000	1.7	46	26	4.17	98	

# H301 C | API Spec. 7K FSL0 | ABS

## HIGH PRESSURE CEMENTING HOSE



**Application:** Flexible connection in the manifold for delivery water-based and oil-based cement slurries under high pressure.

**Hose Construction**

**Inner Tube:** UPE and sythetic rubber or HNBR

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

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

**Temperature Range:** -20°C~+121°C (-4°F~+250°F)

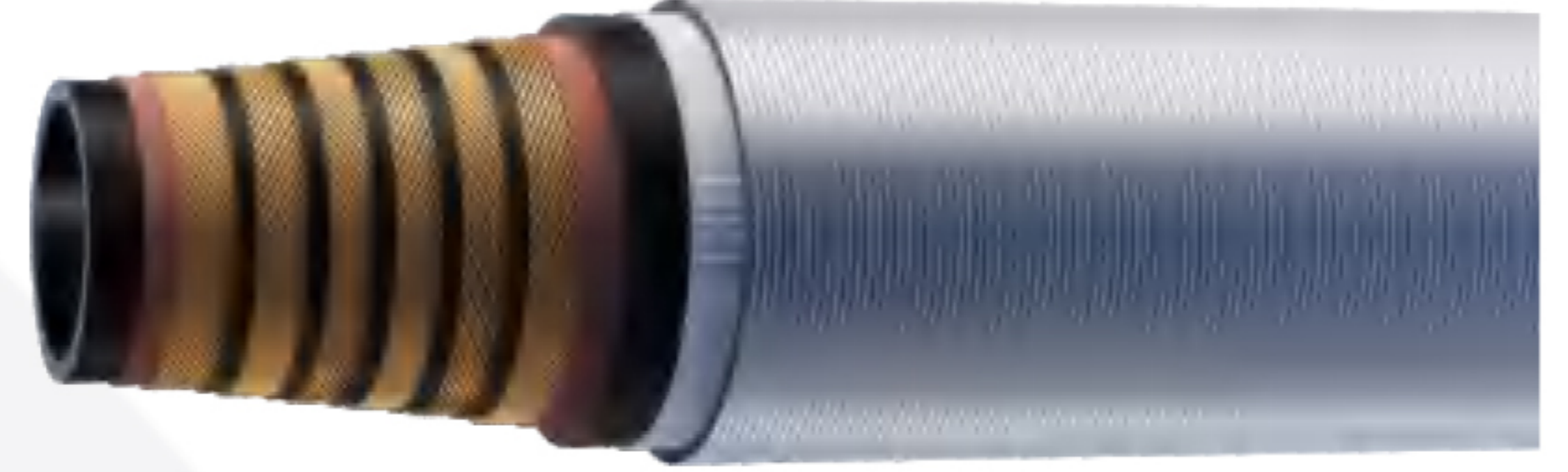
**Connector:** integral union or integral flange

PRESSURE LEVEL Psi	I.D. in	O.D. mm	W.P. Psi	P.P. Psi	Min.B.P. Psi	Min.B.R. mm	W.T kg/m
10000	2	83	10000	15000	22500	1000	10.8
	2 1/2	98	10000	15000	22500	1000	19.4
	3	129	10000	15000	22500	1400	28
	3 1/2	137	10000	15000	22500	1400	33
	4	154	10000	15000	22500	1600	38.5
15000	2	101	15000	22500	33750	1200	20.5
	3	125	15000	22500	33750	1500	36
20000	2	106	20000	30000	45000	1500	24
	3	142	20000	30000	45000	1700	44

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# H302 | API Spec. 16C FSL0 FSL1 FSL2 FSL3 | ABS

## FLEXIBLE CHOKE AND KILL LINE



**Application:** Flexible connection in the chock and kill manifolds for delivery oil-gas mixture that containing hydrogen sulfide (H<sub>2</sub>S) and other dangerous gases and various water-based, oil-based and foam killing fluids under high pressure.

**Hose Construction**

**Inner Tube:** HNBR/UPE

**Bore Type:** full bore

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

**Outer Layer:** high temperature and fire resistant synthetic rubber (resistant to 704 °C open fire for 30 minutes)

**Protective Layer:** stainless steel armor

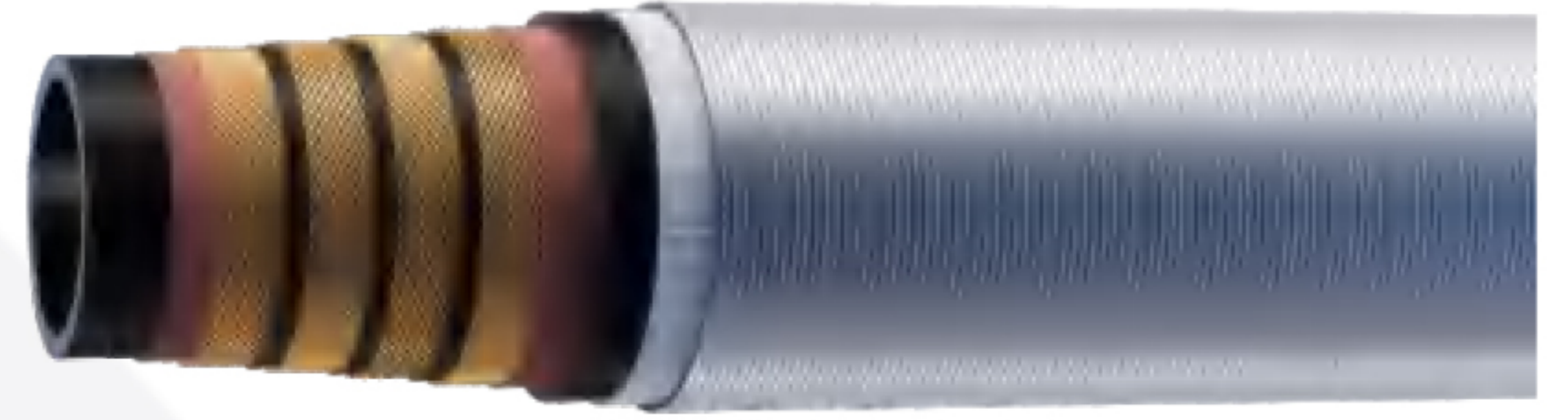
**Temperature Range:** -29°C~+121°C (-20°F~+250°F)

**Connector:** integral union or integral flange

PRESSURE LEVEL	I.D.	O.D.	W.P.	P.P.	Min. B.P.	Min.B.R.	W.T
Psi	in	mm	Psi	Psi	Psi	mm	kg/m
5000	2	89	5000	7500	11250	1000	9.5
	3	115	5000	7500	11250	1200	14.8
	3 1/2	133	5000	7500	11250	1400	20
	4	147	5000	7500	11250	1600	30
10000	2	96	10000	15000	22500	1200	15
	2 1/2	126	10000	15000	22500	1600	25
	3	140	10000	15000	22500	1600	33
	4	167	10000	15000	22500	1800	52
15000	2	101	15000	22500	33750	1400	21
	3	145	15000	22500	33750	1600	41
	4	178	15000	22500	33750	2000	61

# H303 | API Spec. 16D | Lloyds

## BOP CONTROL HOSE



**Application:** Hydraulic control line for remotely control the blowout preventer (BOP) at high pressure.

**Hose Construction**

**Inner Tube:** NBR

**Reinforcement:** 4 plies of spiraled high tensile super flexible steel wire

**Outer Layer:** high temperature and fire resistant synthetic rubber

**Protective Layer:** stainless steel armor

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

Fire resistance meets API Spec. 16D, 704°C×5min

I.D.	W.P.	P.P.	Min.B.P.	Min.B.R.	W.T
in	Psi	Psi	Psi	mm	kg/m
1/2	5000	7500	15000	300	1.9
3/4	5000	7500	15000	400	2.7
1	5000	7500	15000	500	3.6
1 1/2	5000	7500	15000	700	5.3
2	5000	7500	15000	800	7.2

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# H304

## MULTI - PURPOSE CRUDE OIL HOSE



**Application:** The hose is suitable for delivering petroleum products such as fuel oil, crude oil, gasoline, etc. The hose inner layer is made of polymer composites, which makes the hose with strong corrosion resistance and high lubrication characteristics. Its excellent chemical stability prevents it from reacting with chemical substances in petroleum products, ensuring safe and efficient transportation of the medium.

### Hose Construction

**Inner Tube:** polymer composites

**Reinforcement:** multi-spiraled high tensile textile cords and highly flexible steel helix wire

**Outer Layer:** sythetic rubber

**Temperature Range:** 40°C~+180°C (-40°F~+356°F) ;

**The hose pressure and inner diameter can be customized based on the requirements**

I.D.		W.P.	Safety Factor
in	mm	MPa	
2	51	2~35	2.5
2 1/2	63	2~35	2.5
3	76	2~35	2.5
3 1/2	90	2~35	2.5
4	102	2~35	2.5
5	127	2~35	2.5
6	152	2~35	2.5

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# H1202L

## UPE LOW PRESSURE MULTIPURPOSE HOSE

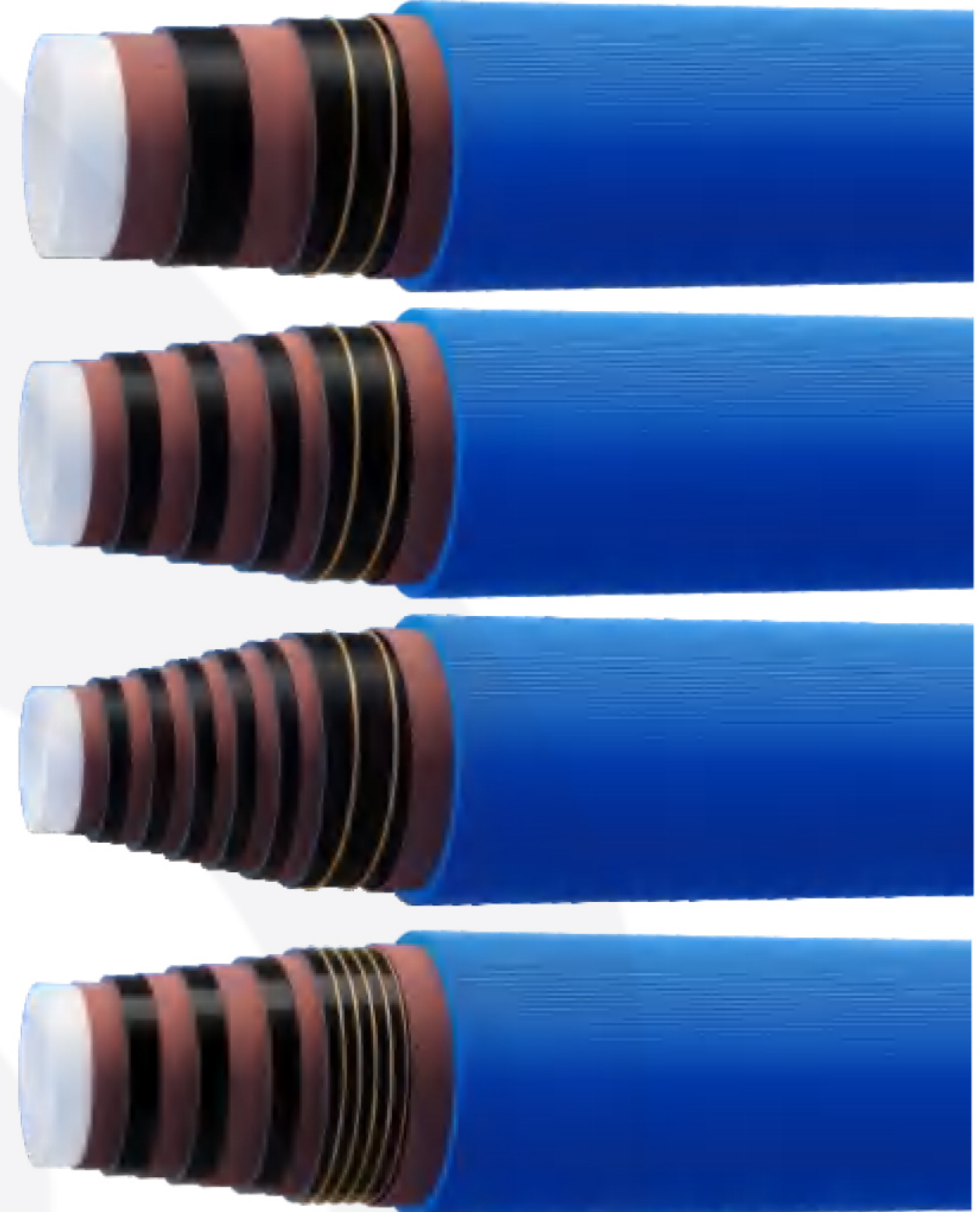
### Hose Construction

**Inner Tube:** UPE and EPDM synthetic rubber

**Reinforcement:** multi-spiraled high tensile synthetic fibers and highly flexible steel helix wire **Outer Layer:** black or blue EPDM synthetic rubber (UPE layer is available)

**Temperature Range:** -30°C~82°C (-22°F~180°F)

\*The hose dimension, pressure and color can be customized based on the requirements.



I.D		O.D		W.P	Min.B.P	Min.B.R	W.T
in	mm	in	mm	psi	psi	mm	kg/m
1/2	13	0.89	22.5	290	870	130	0.34
5/8	16	1.04	26.5	290	870	150	0.44
3/4	19	1.17	29.7	290	870	180	0.52
1	25	1.39	35.2	290	870	205	0.52
1-1/4	32	1.77	45	290	870	250	0.95
1-1/2	38	2.04	52	290	870	300	1.2
2	51	2.64	67	300	750	400	1.65
3	76	3.82	97	300	750	570	2.75
4	102	4.84	123	300	750	750	4.65

# RUBBER & PLASTIC SEALS



**Product Information:**

**Materials:** NBR/HNBR/EPDM/FKM

**Temperature Range:** 55°C~+200°C (-67°F~+392°F)

**Product Features:** high temperature resistance, corrosion resistance, oil resistance, food grade product

**Application :** Suitable for the sealing of medium like hydraulic oil, corrosive solvent (such as strong acid and strong alkali), steam and water, etc. The products widely apply to petrochemical, construction machinery, coal mining machinery, food machinery, electrical equipment, metallurgical equipment, refrigeration equipment, shields machine and other industries.

# HAMMER UNIONS



**Figure 602 Threaded 6000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

Part Number	Size ( in. )	Weight Each ( KG )	Standard Carton
HUT602-1	1	1.70	4
HUT602-2	2	5.85	4
HUT602-3	3	10.34	2
HUT602-4	4	16.80	1



**Figure 602 Butt Weld 6000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

Part Number	Size ( in. )	Weight Each ( KG )	Standard Carton
HUW602-2	2	6.28	4
HUW602-3	3	11.93	2
HUW602-4	4	17.19	1



**Figure 1002 Butt Weld 10,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

Part Number	Size ( in. )	Weight Each ( KG )	Standard Carton
HUW1002-2	2	6.33	4
HUW1002-3	3	11.70	2
HUW1002-4	4	17.01	1



**Figure 1502 Butt Weld 15,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

Part Number	Size ( in. )	Weight Each ( KG )	Standard Carton
HUW1502-2	2	9.07	2
HUW1502-3	3	13.20	2
HUW1502-4	4	35.63	1



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