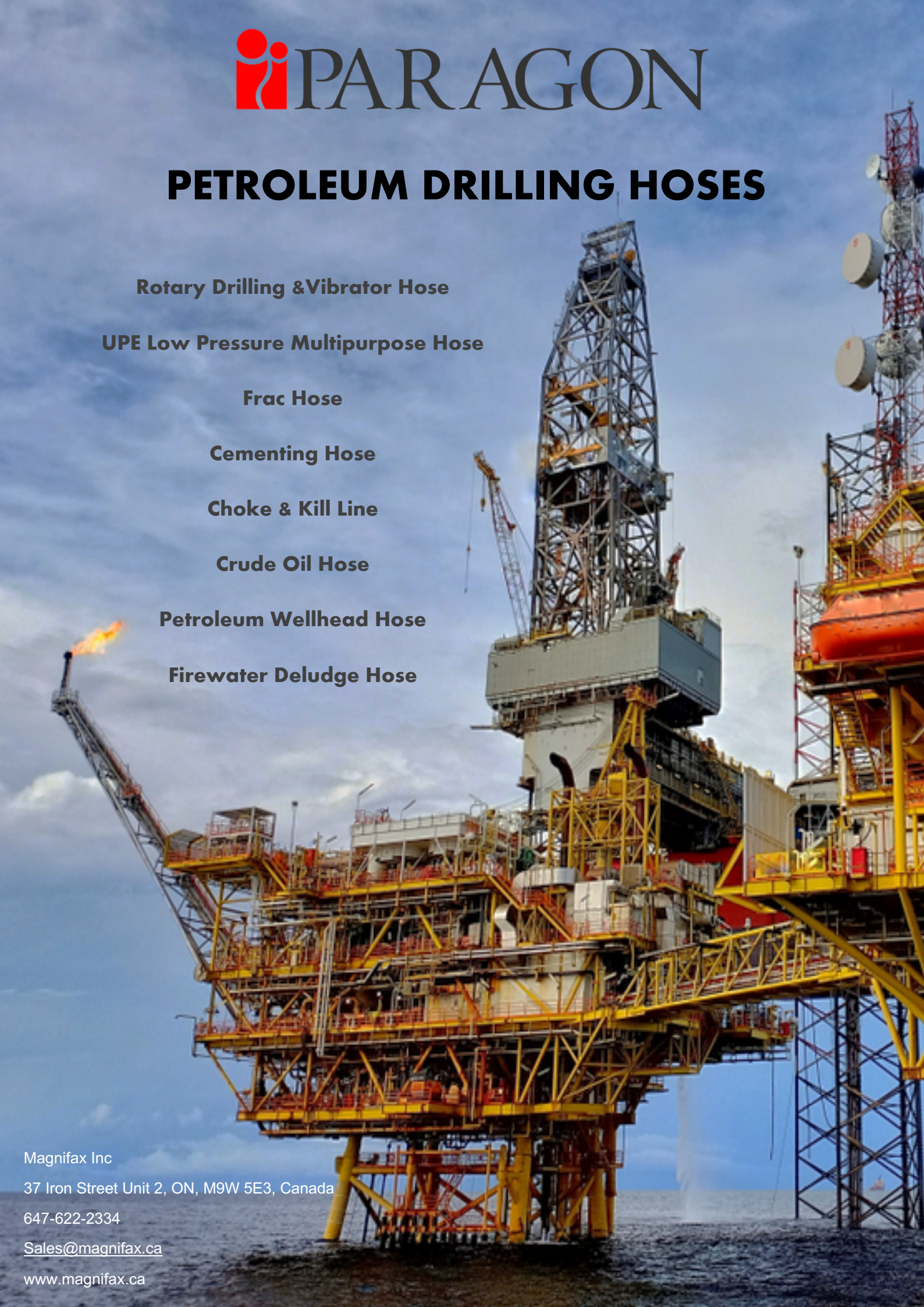
PARAGON

PETROLEUM DRILLING HOSES



Rotary Drilling &Vibrator Hose

UPE Low Pressure Multipurpose Hose

Frac Hose

Cementing Hose

Choke & Kill Line

Crude Oil Hose

Petroleum Wellhead Hose

Firewater Deludge Hose

Magnifax Inc

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Rotary Drilling & Vibrator Hose

Application:
Flexible connection between the upper end of the standpipe and the top drive or 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. Standards: API Spec 7K, FSL 2; ABS.

Tube:
Synthetic rubber, HNBR, UPE or PTFE

Reinforcement:
Multi-spiraled high tensile super flexible steel wire

Cover:
Abrasion and weather resistant synthetic rubber

Size range:
2" – 6" (51 mm – 152 mm)

Working pressure:
1,500–7,500 PSI by grade

Temperature:
-4°F/+250°F (-20°C/+121°C)

Best for:
Rotary drilling mud lines; cementing and well workover

Marking:
PARAGON



ID		OD		WORKING PRESSURE		PROOF PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
in	mm	in	mm	PSI	bar	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m
2"	51	2.68	68	1500	103	2250	155	3750	259	31.5	800	2.91	4.33
2½"	64	3.31	84	1500	103	2250	155	3750	259	31.5	800	3.78	5.63
2"	51	2.68	68	2000	138	3000	207	5000	345	31.5	800	2.91	4.33
2½"	64	3.31	84	2000	138	3000	207	5000	345	31.5	800	3.78	5.63
3"	76	3.82	97	2000	138	3000	207	5000	345	37.4	950	4.39	6.53
3½"	89	4.45	113	2000	138	3000	207	5000	345	39.37	1000	5.74	8.54
4"	102	5	127	2000	138	3000	207	5000	345	39.37	1000	7.03	10.46
5"	127	6.18	157	2000	138	3000	207	5000	345	47.24	1200	9.46	14.08
6"	152	7.2	183	2000	138	3000	207	5000	345	51.18	1300	12.16	18.1
2"	51	2.83	72	4000	276	6000	414	10000	689	31.5	800	4.32	6.43
2½"	64	3.43	87	4000	276	6000	414	10000	689	31.5	800	5.88	8.75
3"	76	4.02	102	4000	276	6000	414	10000	689	39.37	1000	7.5	11.16
3½"	89	4.69	119	4000	276	6000	414	10000	689	47.24	1200	9.73	14.48
4"	102	5.2	132	4000	276	6000	414	10000	689	47.24	1200	10.81	16.09
5"	127	6.38	162	4000	276	6000	414	10000	689	55.12	1400	16.55	24.63
6"	152	7.64	194	4000	276	6000	414	10000	689	59.06	1500	22.3	33.19
2"	51	2.95	75	5000	345	7500	517	12500	862	31.5	800	4.32	6.43
2½"	64	3.54	90	5000	345	7500	517	12500	862	31.5	800	5.88	8.75
3"	76	4.09	104	5000	345	7500	517	12500	862	39.37	1000	7.5	11.16
3½"	89	4.76	121	5000	345	7500	517	12500	862	47.24	1200	9.73	14.48
4"	102	5.28	134	5000	345	7500	517	12500	862	47.24	1200	10.81	16.09
5"	127	6.46	164	5000	345	7500	517	12500	862	55.12	1400	16.55	24.63
6"	152	7.72	196	5000	345	7500	517	12500	862	62.99	1600	22.3	33.19
2"	51	3.03	77	7500	517	11250	776	18750	1293	35.43	900	5.74	8.54
2½"	64	3.7	94	7500	517	11250	776	18750	1293	39.37	1000	7.09	10.55
3"	76	4.33	110	7500	517	11250	776	18750	1293	39.37	1000	12.5	18.6
3½"	89	5.04	128	7500	517	11250	776	18750	1293	47.24	1200	13.51	20.11
4"	102	5.91	150	7500	517	11250	776	18750	1293	55.12	1400	20.27	30.17
5"	127	7.28	185	7500	517	11250	776	18750	1293	62.99	1600	33.11	49.27
6"	152	8.35	212	7500	517	11250	776	18750	1293	62.99	1600	40.54	60.33

API 7K grades by working pressure: A 1,500 PSI · B 2,000 PSI · C 4,000 PSI · D 5,000 PSI · E 7,500 PSI.

Ends: integral union, integral flange or other connector types. Full bore can be customized to requirements.

High Pressure Cementing Hose

Application:
Flexible connection in the cementing manifold, delivering water-based and oil-based cement slurries under high pressure. Supplied with integral union or integral flange ends.

Tube:
UPE and synthetic rubber, or HNBR

Reinforcement:
Multi-spiraled high tensile super flexible steel wire

Cover:
Abrasion and weather resistant synthetic rubber

Size range:
2" – 4" (51 mm – 102 mm)

Working pressure:
10,000–20,000 PSI by class

Temperature:
-4°F/+250°F (-20°C/+121°C)

Best for:
Water-based and oil-based cement slurries; high-pressure manifold connections

Marking:



ID		OD		WORKING PRESSURE		PROOF PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
in	mm	in	mm	PSI	bar	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m
2"	51	3.27	83	10000	689	15000	1034	22500	1551	39.37	1000	7.3	10.86
2½"	64	3.86	98	10000	689	15000	1034	22500	1551	39.37	1000	13.11	19.51
3"	76	5.08	129	10000	689	15000	1034	22500	1551	55.12	1400	18.92	28.16
3½"	89	5.39	137	10000	689	15000	1034	22500	1551	55.12	1400	22.3	33.19
4"	102	6.06	154	10000	689	15000	1034	22500	1551	62.99	1600	26.01	38.71
2"	51	3.98	101	15000	1034	22500	1551	33750	2327	47.24	1200	13.85	20.61
3"	76	4.92	125	15000	1034	22500	1551	33750	2327	59.06	1500	24.32	36.19
2"	51	4.17	106	20000	1379	30000	2068	45000	3103	59.06	1500	16.22	24.14
3"	76	5.59	142	20000	1379	30000	2068	45000	3103	66.93	1700	29.73	44.24

Multipurpose Crude Oil Hose

Application:
Delivery hose for petroleum products such as fuel oil, crude oil and gasoline. Its polymer composite lining resists corrosion and does not react with the chemicals in petroleum products.

Tube:
Polymer composites

Reinforcement:
Multi-spiraled high tensile cords and highly flexible steel helix wire

Cover:
Synthetic rubber

Size range:
2" – 6" (51 mm – 152 mm)

Working pressure:
5,076 PSI

Temperature:
-40°F/+356°F (-40°C/+180°C)

Best for:
Fuel oil, crude oil and gasoline delivery

Marking:



ID		WORKING PRESSURE	
in	mm	PSI	bar
2"	51	5076	350
2½"	64	5076	350
3"	76	5076	350
3½"	89	5076	350
4"	102	5076	350
5"	127	5076	350
6"	152	5076	350

Safety factor 2.5:1.

Pressure and inner diameter can be customized to requirements.

Fire Resistant BOP Control Line Hose 3000 PSI

Flame-resistant hydraulic BOP control line rated 3,000 PSI working, 12,000 PSI burst

Application:
Hydraulic control line for blowout preventers (BOP), and for any hydraulic service where flame resistance is required.

Tube:
Black oil resistant NBR

Reinforcement:
Two high tensile steel wires braided

Cover:
Thick red synthetic high temperature and flame resistant rubber

Size range:
3/8" – 1" (10 mm – 25 mm)

Working pressure:
3,000 PSI

Temperature:
-40°F/+250°F (-40°C/+121°C)

Best for:
Hydraulic blowout-preventer control lines and other service where flame resistance is required

Marking:
PARAGON



PART NUMBER	ID		OD		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT		COIL LENGTH	
	in	mm	in	mm	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m	ft	m
FBOP-06-3000	3/8"	10	1	25	3000	207	12000	827	2.56	65	0.54	0.8	200	61
FBOP-08-3000	½"	13	1.12	28	3000	207	12000	827	3.54	90	0.74	1.1	200	61
FBOP-12-3000	¾"	19	1.37	35	3000	207	12000	827	4.72	120	1.22	1.82	200	61
FBOP-16-3000	1"	25	1.66	42	3000	207	12000	827	5.9	150	1.67	2.49	200	61

Safety factor 4:1 (burst to working pressure).

Super Abrasion Resistant Frac Hose

Application:
Flexible line for delivering water-based, oil-based, acid-based and foam fracturing fluids under high pressure in acid, sand and hydraulic fracturing work. Full-flow bore; integral union, integral flange or other connector types.

Tube:
UPE and synthetic rubber

Reinforcement:
Multi-spiraled high tensile super flexible steel wire

Cover:
Abrasion and weather resistant synthetic rubber

Size range:
2" – 6" nominal

Working pressure:
15,000 or 20,000 PSI

Temperature:
-20°F/+212°F (-29°C/+100°C)

Best for:
Acid, sand and hydraulic fracturing

Marking:
PARAGON



ID		OD		WORKING PRESSURE		PROOF PRESSURE		BEND RADIUS		WEIGHT		FLOW RATE		CONNECTOR WEIGHT		END TYPE
in	mm	in	mm	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m	bbl/min	m³/min	lb	kg	
2" (1.77")	45	3.74	95	15000	1034	22500	1551	47.24	1200	12.16	18.1	9	1.46	116.6	53	3" figure 1502 hammer union or 3 1/16" 15K API flange
2" (2.00")	51	4.06	103	15000	1034	22500	1551	55.12	1400	13.51	20.11	12	1.91	121	55	3" figure 1502 hammer union or 3 1/16" 15K API flange
2½" (2.28")	58	4.76	121	15000	1034	22500	1551	59.06	1500	17.57	26.15	14.8	2.34	125.4	57	3" figure 1502 hammer union or 3 1/16" 15K API flange
2½" (2.52")	64	5.04	128	15000	1034	22500	1551	59.06	1500	20.27	30.17	18.5	2.9	127.6	58	3" figure 1502 hammer union or 3 1/16" 15K API flange
3" (2.76")	70	5.31	135	15000	1034	22500	1551	62.99	1600	22.97	34.18	22	3.5	132	60	3" figure 1502 hammer union or 3 1/16" 15K API flange
3" (3.00")	76	5.55	141	15000	1034	22500	1551	62.99	1600	22.97	34.18	26	4.17	143	65	3" figure 1502 hammer union or 3 1/16" 15K API flange
4" (3.50")	89	6.5	165	15000	1034	22500	1551	78.74	2000	33.78	50.27	35.8	5.7	165	75	4" figure 1502 hammer union or 4 1/16" 15K API flange
4" (4.00")	102	6.73	171	15000	1034	22500	1551	78.74	2000	37.84	56.31	47	7.47	187	85	4" figure 1502 hammer union or 4 1/16" 15K API flange
5" (4.72")	120	8.27	210	15000	1034	22500	1551	82.68	2100	45.95	68.38	62.9	10	341	155	5 1/8" 15K API flange
5" (5.00")	127	8.46	215	15000	1034	22500	1551	82.68	2100	58.11	86.48	80	11.58	385	175	5 1/8" 15K API flange
5" (5.12")	130	8.66	220	15000	1034	22500	1551	82.68	2100	60.81	90.5	84	12.13	231	105	5 1/8" 15K API flange
6" (5.51")	140	9.45	240	15000	1034	22500	1551	90.55	2300	87.84	130.72	88.6	14.07	462	210	7 1/16" 15K API flange
2" (1.73")	44	4.17	106	20000	1379	30000	2068	59.06	1500	16.22	24.14	9	1.46	132	60	2" figure 2002 hammer union or 3 1/16" 20K API flange
2" (2.00")	51	4.41	112	20000	1379	30000	2068	59.06	1500	17.57	26.15	12	1.91	143	65	2" figure 2002 hammer union or 3 1/16" 20K API flange
2½" (2.23")	57	4.96	126	20000	1379	30000	2068	62.99	1600	21.62	32.17	14.8	2.34	154	70	2 1/2" figure 2002 hammer union or 3 1/16" 20K API flange
2½" (2.52")	64	5.24	133	20000	1379	30000	2068	62.99	1600	24.32	36.19	18.5	2.9	171.6	78	2 1/2" figure 2002 hammer union or 3 1/16" 20K API flange
3" (2.72")	69	5.59	142	20000	1379	30000	2068	74.8	1900	29.73	44.24	22	3.5	187	85	3" figure 2002 hammer union or 3 1/16" 20K API flange
3" (3.00")	76	5.71	145	20000	1379	30000	2068	74.8	1900	31.08	46.25	26	4.17	215.6	98	3" figure 2002 hammer union or 3 1/16" 20K API flange

ID shows the nominal size with the actual bore in brackets.

Flexible Choke & Kill Line

Application:
Flexible connection in choke and kill manifolds, carrying oil-gas mixtures that contain hydrogen sulfide (H2S) and other dangerous gases, and water-based, oil-based and foam kill fluids, under high pressure. Full bore; integral union or integral flange ends.

Tube:
HNBR/UPE

Reinforcement:
Multi-spiraled high tensile super flexible steel wire

Cover:
High temperature and fire resistant synthetic rubber (resistant to 704°C open fire for 30 minutes), with a stainless steel armor protective layer

Size range:
2" – 4" (51 mm – 102 mm)

Working pressure:
5,000–15,000 PSI by class

Temperature:
-20°F/+250°F (-29°C/+121°C)

Best for:
Choke and kill manifolds, including H2S service

Marking:



ID		OD		WORKING PRESSURE		PROOF PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
in	mm	in	mm	PSI	bar	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m
2"	51	3.5	89	5000	345	7500	517	11250	776	39.37	1000	6.42	9.55
3"	76	4.53	115	5000	345	7500	517	11250	776	47.24	1200	10	14.88
3½"	89	5.24	133	5000	345	7500	517	11250	776	55.12	1400	13.51	20.11
4"	102	5.79	147	5000	345	7500	517	11250	776	62.99	1600	20.27	30.17
2"	51	3.78	96	10000	689	15000	1034	22500	1551	47.24	1200	10.14	15.09
2½"	64	4.96	126	10000	689	15000	1034	22500	1551	62.99	1600	16.89	25.14
3"	76	5.51	140	10000	689	15000	1034	22500	1551	62.99	1600	22.3	33.19
4"	102	6.57	167	10000	689	15000	1034	22500	1551	70.87	1800	35.14	52.3
2"	51	3.98	101	15000	1034	22500	1551	33750	2327	55.12	1400	14.19	21.12
3"	76	5.71	145	15000	1034	22500	1551	33750	2327	62.99	1600	27.7	41.22
4"	102	7.01	178	15000	1034	22500	1551	33750	2327	78.74	2000	41.22	61.34

Pressure classes: 5,000, 10,000 and 15,000 PSI.

UPE Low Pressure Multipurpose Hose

Application:
Multipurpose transfer hose for the chemical, iron and steel smelting, construction, food and beverage and pharmaceutical industries. Its UPE tube rarely reacts with oils, fats or corrosive chemicals.

Tube:
UPE and EPDM synthetic rubber

Reinforcement:
Multi-spiraled high tensile synthetic fibers and highly flexible steel helix wire

Cover:
Black or blue EPDM synthetic rubber (UPE outer layer available)

Size range:
½" – 4" (13 mm – 102 mm)

Working pressure:
290–300 PSI by size

Temperature:
-22°F/+180°F (-30°C/+82°C)

Best for:
Chemical, steel smelting, construction, food and beverage, pharmaceutical

Marking:



ID		OD		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
in	mm	in	mm	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m
½"	13	0.89	23	290	20	870	60	5.12	130	0.23	0.34
5/8"	16	1.04	26	290	20	870	60	5.91	150	0.3	0.45
¾"	19	1.17	30	290	20	870	60	7.09	180	0.35	0.52
1"	25	1.39	35	290	20	870	60	8.07	205	0.35	0.52
1¼"	32	1.77	45	290	20	870	60	9.84	250	0.64	0.95
1½"	38	2.04	52	290	20	870	60	11.81	300	0.84	1.25
2"	51	2.64	67	300	21	750	52	15.75	400	1.11	1.65
3"	76	3.82	97	300	21	750	52	22.44	570	1.86	2.77
4"	102	4.84	123	300	21	750	52	29.53	750	3.14	4.67

Dimensions, pressure and colour can be customized to requirements.

Firewater Deluge Hose

Application:
Delivery hose for firewater deluge service on oil rigs. ABS approved; fire tested to EN 15540:1999 (800 °C for 30 minutes).

Tube:
Black, smooth CR rubber

Reinforcement:
High strength steel cord

Cover:
Glass fiber layers co-vulcanized with an external layer of red CR rubber; fire, sea water, abrasion and ozone resistant

Size range:
2" – 6" (51 mm – 152 mm)

Working pressure:
300 PSI

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

Best for:
Firewater deluge service on oil rigs

Marking:



ID		OD		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT		COIL LENGTH	
in	mm	in	mm	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m	ft	m
2"	51	3.16	80	300	21	1500	103	16.54	420	3.29	4.9	196.8	60
3"	76	4.23	107	300	21	1500	103	21.06	535	5.04	7.5	196.8	60
4"	102	5.28	134	300	21	1500	103	25.2	640	7.39	11	196.8	60
5"	127	6.3	160	300	21	1500	103	43.31	1100	9	13.39	196.8	60
6"	152	7.28	185	300	21	1500	103	47.64	1210	10.55	15.7	196.8	60

Fire Resistant BOP Control Line Hose 5000 PSI

Four-wire spiral flame-resistant BOP control line rated 5,000 PSI working, 20,000 PSI burst

Application:
Hydraulic control line for blowout preventers (BOP), and for any hydraulic service where flame resistance is required.

Tube:
Oil resistant synthetic rubber

Reinforcement:
Four high tensile steel wires spiral

Cover:
Thick red synthetic high temperature and flame-resistant rubber

Size range:
½" – 2" (13 mm – 51 mm)

Working pressure:
5,000 PSI

Temperature:
-40°F/+250°F (-40°C/+121°C)

Best for:
Hydraulic blowout-preventer control lines and other service where flame resistance is required

Marking:
PARAGON



PART NUMBER	ID		OD		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT		COIL LENGTH	
	in	mm	in	mm	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m	ft	m
FBOP-08-5000	½"	13	1.04	26	5000	345	20000	1379	7.09	180	0.61	0.91	200	61
FBOP-12-5000	¾"	19	1.31	33	5000	345	20000	1379	11.02	280	1.15	1.71	200	61
FBOP-16-5000	1"	25	1.69	43	5000	345	20000	1379	13.39	340	1.49	2.22	200	61
FBOP-24-5000	1½"	38	2.4	61	5000	345	20000	1379	18.11	460	3.31	4.93	100	30.5
FBOP-32-5000	2"	51	3	76	5000	345	20000	1379	23.62	600	4.8	7.14	100	30.5

Safety factor 4:1 (burst to working pressure).

Degasser Hose

Petroleum wellhead degasser hose in 3" and 4" — 2,000 PSI working, 8,000 PSI burst

Application:
Petroleum wellhead hose for degasser service in oil fields.

Tube:
Black, smooth, NR/SBR+UHMWPE rubber compound

Reinforcement:
Four alternating plies of high tensile carbon steel braid wire

Cover:
Neoprene rubber; the 3" version has a black cover with a blue lay line

Size range:
3" – 4" (76 mm – 102 mm)

Working pressure:
2,000 PSI

Temperature:
-40°F/+200°F (-40°C/+93°C)

Best for:
Degasser service on oil-field wellheads

Marking:
PARAGON



PART NUMBER	ID		OD		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT		COIL LENGTH	
	in	mm	in	mm	PSI	bar	PSI	bar	in	mm	lb/ft	kg/m	ft	m
DGS-300-2000	3"	76	4.2	107	2000	138	8000	552	30	762	7.1	10.57	100	30.5
DGS-400-2000	4"	102	5.2	132	2000	138	8000	552	40	1016	8.8	13.1	100	30.5

Fitting: male NPT hose tail and ferrule, matched to the hose size (3″ or 4″).