

## Section 14. High Pressure Hoses

Forum supply High Pressure Hoses designed and supplied in accordance with the following specifications

<b>API 6A</b>	Specification for Wellhead and Christmas Tree Equipment
<b>API 16C</b>	Specification for Choke & Kill Systems
<b>API 7K</b>	Specification for Drilling Equipment
<b>NACE MR-01-75</b>	Sulphide Stress Cracking Resistant Metallic Materials for Oilfield Equipment

High Pressure Hoses are available for use in the following pressure ratings and services:-

PRESSURE RATINGS								
<b>MAX. WORKING PRESSURE</b>	<b>1,500 PSI</b>	<b>2,000 PSI</b>	<b>3,000 PSI</b>	<b>4,000 PSI</b>	<b>5,000 PSI</b>	<b>7,500 PSI</b>	<b>10,000 PSI</b>	<b>15,000 PSI</b>
TEST PRESSURE	2,250PSI	3,000 PSI	4,500 PSI	8,000 PSI	7,530 PSI	11,250 PSI	15,000 PSI	22,500 PSI

TYPICAL SERVICES	INFORMATION REQUIRED FOR ORDERING
BOP HYDRAULIC HOSES (TOPSIDE & SUBSEA)	INTERNAL DIAMETER
CEMENT HOSES	LENGTH
CHOKE & KILL HOSES (TOPSIDE & SUBSEA)	SERVICE MEDIA
HP MUD VIBRATOR HOSES	WORKING PRESSURE
HP PRODUCTION JUMPER HOSES	MOVEMENT REQUIRED
MUD BOOSTER LINE HOSES	TEMPERATURE LIMITS (LOWER & UPPER)
PRODUCTION TEST HOSES	END CONNECTIONS-e.g.HAMMER LUG UNION, HUB, API 16A HUB OR API 6A FLANGE
ROTARY DRILLING HOSES	END CONNECTION MATERIALS
SUBSEA HOSES	QUANTITY
WELL TEST HOSES	<b>SPECIAL ITEMS</b>
	SAFETY CLAMPS & CHAINS
	HOSE LIFTERS

GENERAL NOTE: Please contact GonPetro for any special material, pressure or dimensional requirements, including hose design analysis service.

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**Table 14.1 High Pressure Hoses**

ID		Working Pressure		OD		Weight	Test Pressure		Minimum bending radius
in	mm	psi	bar	in	mm	kg/m	psi		metre
2.0	51	1,500	104	3.50	89	9.0	3,000	208	0.6
2.0	51	2,000	138	3.50	89	9.0	4,000	276	0.6
2.0	51	4,000	276	3.87	96	11.0	8,000	552	0.6
2.0	51	5,000	345	3.87	96	11.0	10,000	690	0.6
2.0	51	7,500	518	4.75	120	22.5	15,000	1,035	0.6
2.0	51	10,000	690	4.75	120	22.5	15,000	1,035	0.6
2.0	51	15,000	1,035	4.92	125	27.0	22,500	1,552	0.6
2.5	63.5	1,500	104	4.00	101.6	10.6	3,000	208	0.8
2.5	63.5	2,000	138	4.00	101.6	10.6	4,000	276	0.8
2.5	63.5	4,000	276	4.33	110	13.5	8,000	552	0.8
2.5	63.5	5,000	345	4.37	113	15.4	10,000	690	0.8
2.5	63.5	7,500	518	5.00	126	24.5	15,000	1,035	0.8
2.5	63.5	10,000	690	5.00	126	24.5	15,000	1,035	0.8
2.5	63.5	15,000	1,035	5.40	135	30.7	22,500	1,552	0.8
3.0	76	1,500	104	4.75	121	14.2	3,000	208	0.9
3.0	76	2,000	138	4.75	121	14.2	4,000	276	0.9
3.0	76	4,000	276	5.12	131	19.6	8,000	552	0.9
3.0	76	5,000	345	5.75	145	28.0	10,000	690	0.9
3.0	76	7,500	518	6.00	152	35.0	15,000	1,035	0.9
3.0	76	10,000	690	6.00	152	35.0	15,000	1,035	0.9
3.0	76	15,000	1,035	6.10	155	37.4	22,500	1,552	1.5

GENERAL NOTE: Safety Factor = Working Pressure x 2.5  
For Choke and Kill Hoses = Test Pressure x 1.5



**Table 14.1 High Pressure Hoses**

ID		Working Pressure		OD		Weight	Test Pressure		Minimum bending radius
in	mm	psi	bar	in	mm	kg/m	psi	bar	metre
3.5	89	1,500	104	5.44	138	17.8	3,000	208	1.1
3.5	89	2,000	138	5.44	138	17.8	4,000	276	1.1
3.5	89	4,000	276	5.75	145	22.0	8,000	552	1.1
3.5	89	5,000	345	6.44	163	37.0	10,000	690	1.5
3.5	89	7,500	518	6.44	163	40.4	15,000	1,035	1.5
4.0	102	2,000	138	5.35	136	15.2	4,000	276	1.2
4.0	102	4,000	276	6.19	157	26.4	8,000	552	1.2
4.0	102	5,000	345	6.75	175	42.7	10,000	690	1.2
4.0	102	7,500	518	6.89	175	44.5	15,000	1,035	1.2
4.0	102	10,000	690	6.89	175	44.5	15,000	1,035	1.8
6.0	152	2,000	138	7.87	200	26.3	4,000	276	1.8
6.0	152	3,000	208	7.95	202	31.8	6,000	416	1.8
6.0	152	4,000	276	8.86	225	55.3	8,000	552	1.8
6.0	152	5,000	345	8.86	225	57.6	10,000	690	1.8
8.0	203	2,000	138	10.00	254	39.3	4,000	276	2.4
8.0	203	3,000	208	10.00	254	41.8	6,000	416	2.4
8.0	203	4,000	276	10.00	277	73.8	8,000	552	2.4

GENERAL NOTES Safety Factor = Working Pressure x 2.5  
 For Choke and Kill Hoses = Test Pressure x 1.5

## Section 14. High Pressure Hoses

### HoSE CoNSTRUCTIoN

#### CoRE

Synthetic rubber

#### REINFoRCEMENT

Textile braid and steel wire spirals

#### CoVER

Red flame retardent SBR rubber over a layer of glass fibre

**Table 14.2 Blowout Preventor Control Hose. Fire Rated - Lloyds Approved.**

Inside Diameter		Outside Diameter	Working Pressure		Minimum bend - ing radius	Weight
mm	inch	mm	bar	psi	mm	kg/m
6.35	0.250	29.7	207	3,000	150	1.20
9.52	0.375	33.0	207	3,000	165	1.35
12.70	0.500	37.0	207	3,000	180	1.60
15.87	0.625	39.0	207	3,000	205	1.75
19.05	0.750	41.0	207	3,000	240	2.00
25.40	1.000	48.5	207	3,000	300	2.60
31.75	1.250	60.0	207	3,000	460	3.90
38.10	1.500	66.4	207	3,000	560	4.50
50.80	2.000	90.0	207	3,000	800	9.90

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### HoSE CoNSTRUCTION

#### CoRE

Synthetic rubber

#### REINFoRCEMENT

Textile braid and steel wire spirals

#### CoVER

Red flame retardent SBR rubber over a layer of glass fibre

**Table 14.3 Blowout Preventor Control Hose. Fire Rated - Lloyds Approved.**

Inside Diameter		Outside Diameter	Working Pressure		Minimum bend - ing radius	Weight
mm	inch	mm	bar	psi	mm	kg/m
6.35	0.250	34.2	345	5,000	150	1.20
9.52	0.375	33.5	345	5,000	185	1.55
12.70	0.500	36.6	345	5,000	230	2.10
15.87	0.625	40.0	345	5,000	255	2.25
19.05	0.750	44.4	345	5,000	300	2.50
25.40	1.000	54.2	345	5,000	340	3.20
31.75	1.250	65.0	345	5,000	520	5.15
38.10	1.500	73.0	345	5,000	640	7.40
50.80	2.000	89.5	345	5,000	800	9.90