

INDUSTRIAL HOSES - petrochemical

Oil exploration hoses



ROTARY VIBRATOR / DRILLING

Internal layer: Modified NBR rubber
Reinforcement: Multiple layers of high tensile plated steel cables and polyester braid embedded in rubber
External layer: Modified NBR rubber
Working temp.: From -20°C up to +82°C

Heavy duty, flexible hose designed to crude oil, drilling fluid and bailings. Widely used as a flexible connection between standpipe and swivel (ROTARY DRILLING) or between pump and standpipe (ROTARY VIBRATOR). External layer resistant to abrasion, corrosion, cutting, oil and water. Available as complete API 7K certified hose assemblies with HAMMER LUG unions, API flanges or NPT threads.

I.D. [mm]	O.D. [mm]	working pressure		test pressure		bursting pressure		API class	bending radius [mm]	max. length [m]
		[bar]	[PSI]	[bar]	[PSI]	[bar]	[PSI]			
65	105	344	5000	689	10000	861	12500	D	914	27
75	117								1219	
90	133								1371	
100	142								1371	
65	131	517	7500	1034	15000	1292	18750	E	1219	
75	143								1219	
90	153								1371	
100	164								1524	



CHOKE & KILL

Internal layer: Viton
Reinforcement: Multiple layers of high tensile plated steel cables and polyester braid embedded in rubber
External layer: Modified NBR rubber
Working temp.: From -20°C up to +93°C

Hose designed to BOP (Blow Out Preventer) systems to control well kicks during exploration work. During drilling, pockets of high pressure gas may get into the drill string. As the gas moves upward it expands making the drilling mud too lightweight to control pressure in the hole. If the kick is too strong, it can blow out the well. To prevent this high pressure, mud, up to 15.000 PSI, is pumped down the choke line to force the gas back into the formation. If this is not successful, high pressure cement, up to 15.000 PSI, is pumped down the well through the kill line and seals it permanently.

I.D. [mm]	O.D. [mm]	working pressure		test pressure		bursting pressure		bending radius [mm]	max. length [m]
		[bar]	[PSI]	[bar]	[PSI]	[bar]	[PSI]		
65	105	344	5000	689	10000	1034	15000	914	27
75	117							1219	
90	133							1371	
100	162							1524	
65	130	689	10000	1034	15000	1551	22500	1219	
75	143							1219	
90	153							1371	
65	143							1034	
75	156	1524							

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Oil exploration hoses

Complete hose assemblies for drilling equipment

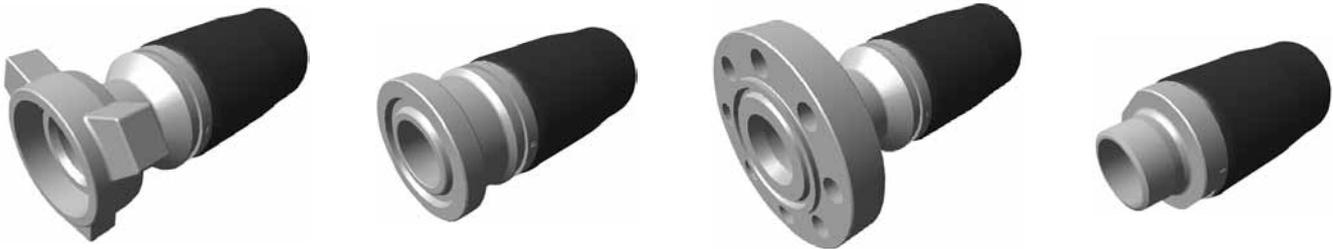


Hose assemblies designed for drilling applications are pressure tested and supplied with vulcanised or specially crimped fittings.

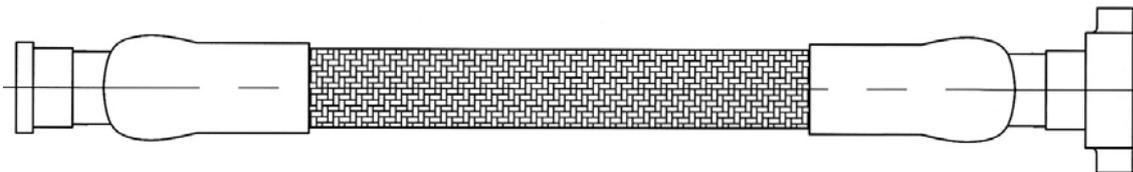
Most often used fittings:

- HAMMER LUG unions (fig. 602, fig.1002, fig. 1003, fig. 1502, fig. 2002, fig. 2202),
- API 16BX hub connections,
- API 6B, 6BX type flanges,
- fittings with API LPT (NPT) thread.

For HAMMER LUG unions please chapter COUPLINGS, VALVES AND CLAMPS.



Example of ROTARY DRILLING DN 75 hose assembly



HAMMER LUG union
fig. 1502 (female) 3",
NPT female thread

ROTARY DRILLING DN 75 hose
with 3" NPT male fittings

HAMMER LUG union
fig. 1502 (male) 3",
NPT female thread + nut