

Flexible Production Lines - Rough Bore for Gas & Liquid Service

API Specification 17K –ISO 13628-10 / API Monogram Licence No: 17K-0001.

Applications:

Live crude oil
Gas export
Gas injection
Gas lift
Sour service

Topside jumper
Subsea jumper
Tie-in
Riser
Flow line



Operating temperature: -30°C to +90°C

Allowed aromatic content: max 30%

Max allowed H2S content: Up to 60°C 3000ppm or 15 psi, whichever is greater.
Up to 90°C 1000ppm or 5 psi, whichever is greater.

Recommended maximum flow velocity: 20m/sec for dry gas; 15m/sec for liquid; 8m/sec for gaseous oil

Maximum available length: 30m/33.5m

Production length tolerance:
up to 6.4m hose length +/- 64mm
above 6.4m hose length +/- 1%

- Fire rating available to Lloyd's Register OD 1000/499.
- Additional external protection can be added to the hose.
- Material of the couplings is either Carbon Steel or Duplex.
- Minimum Bending Radius (MBR) is referred to the centre-line of the hose.

ID	Type	Design Pressure				Test Pressure		Safety Factor	OD Hose Body	MBR Storage	MBR Static	MBR Dynamic	Weight of Hose Body	Note
		Gas Service		Liquid Service		psi	bar							
in		psi	bar	psi	bar	psi	bar	xWP	mm	m	m	m	Kg/m	
2	Standard	5000	345	7500	517	11250	776	2.25	148	0.8	0.9	1.2	39	a
	Standard c/w st.st wrap								158	0.8	0.9	1.2	44	a
	Fire rated								168	0.9	1.0	1.4	49	a
	Fire rated c/w st.st wrap								174	0.9	1.0	1.4	55	a
2.5	Standard	5000	345	7500	517	11250	776	2.25	159	0.8	0.9	1.2	44	a
	Standard c/w st.st wrap								171	0.8	0.9	1.2	51	a
	Fire rated								180	0.9	1.0	1.4	54	a
	Fire rated c/w st.st wrap								191	0.9	1.0	1.4	62	a
3	Standard	5000	345	7500	517	11250	776	2.25	176	1.0	1.1	1.5	54	a
	Standard c/w st.st wrap								188	1.0	1.1	1.5	62	a
	Fire rated								197	1.1	1.2	1.7	65	a
	Fire rated c/w st.st wrap								208	1.1	1.2	1.7	73	a

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		Gas Service		Liquid Service		psi	bar							
in		psi	bar	psi	bar	psi	bar	xWP	mm	m	M	m	Kg/m	
3.5	Standard	5000	345	7500	517	11250	776	2.25	190	1.1	1.2	1.7	60	a
	Standard c/w st.st wrap								202	1.1	1.2	1.7	68	a
	Fire rated								211	1.2	1.4	1.8	72	a
	Fire rated c/w st.st wrap								222	1.2	1.4	1.8	81	b
4	Standard	5000	345	7500	517	11250	776	2.25	202	1.2	1.4	1.8	67	a
	Standard c/w st.st wrap								214	1.2	1.4	1.8	75	a
	Fire rated								223	1.3	1.5	2.0	79	a
	Fire rated c/w st.st wrap								239	1.3	1.5	2.0	91	b
5	Standard	5000	345	6000	414	9000	621	2.25	231	1.3	1.5	2.0	83	b
	Standard c/w st.st wrap								243	1.3	1.5	2.0	92	b
	Fire rated								252	1.4	1.6	2.1	97	b
	Fire rated c/w st.st wrap								263	1.4	1.6	2.1	107	b
6	Standard	5000	345	6000	414	9000	621	2.25	257	1.6	1.8	2.4	96	b
	Standard c/w st.st wrap								269	1.6	1.8	2.4	106	b
	Fire rated								278	1.7	1.9	2.6	112	b
	Fire rated c/w st.st wrap								289	1.7	1.9	2.6	123	b
7	Standard	4250	293	5000	345	7500	517	2.25	279	1.8	2.0	2.7	101	b
	Standard c/w st.st wrap								291	1.8	2.0	2.7	117	b
	Fire rated								299	1.9	2.2	2.9	117	b
	Fire rated c/w st.st wrap								312	1.9	2.2	2.9	135	b
8	Standard	3750	259	5000	345	7500	517	2.25	311	1.9	2.2	2.9	121	b
	Standard c/w st.st wrap								325	1.9	2.2	2.9	136	b
	Fire rated								331	2.1	2.4	3.2	139	b
	Fire rated c/w st.st wrap								346	2.1	2.4	3.2	156	b
10	Standard	2250	155	3500	241	5250	362	2.25	362	2.2	2.5	3.3	146	b
	Standard c/w st.st wrap								374	2.2	2.5	3.3	161	b
	Fire rated								383	2.3	2.6	3.5	168	b
	Fire rated c/w st.st wrap								394	2.3	2.6	3.5	184	b
12	Standard	2250	155	3500	241	5250	362	2.25	410	2.4	2.7	3.6	169	b
	Standard c/w st.st wrap								421	2.4	2.7	3.6	186	b
	Fire rated								430	2.5	2.8	3.8	194	b
	Fire rated c/w st.st wrap								442	2.5	2.8	3.8	212	b

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		Gas Service		Liquid Service		psi	bar							
in		psi	bar	psi	bar	psi	bar	xWP	mm	m	m	m	Kg/m	
13	Standard	1500	103	3000	207	4500	310	2.25	434	2.6	2.9	3.9	181	b
	Standard c/w st.st wrap								445	2.6	2.9	3.9	199	b
	Fire rated								454	2.7	3.0	4.1	207	b
	Fire rated c/w st.st wrap								466	2.7	3.0	4.1	226	b
14	Standard	1250	86	3000	207	4500	310	2.25	457	2.8	3.1	4.2	189	b
	Standard c/w st.st wrap								469	2.8	3.1	4.2	196	b
	Fire rated								477	2.9	3.2	4.4	215	b
	Fire rated c/w st.st wrap								489	2.9	3.2	4.4	224	b

Note: a. maximum available hose length 33.5m.
b. maximum available hose length 30m.