



High Pressure Flexible Lines for
Drilling Applications



High Performance Flexible Hoses

Continental AG, is a global leader in the design, manufacture and supply of flexible lines. We have over 50 years of experience in the field of bonded flexible pipes, and we are continuously striving to extend the performance boundaries of our products in order to meet the ever more challenging demands of our global customers.

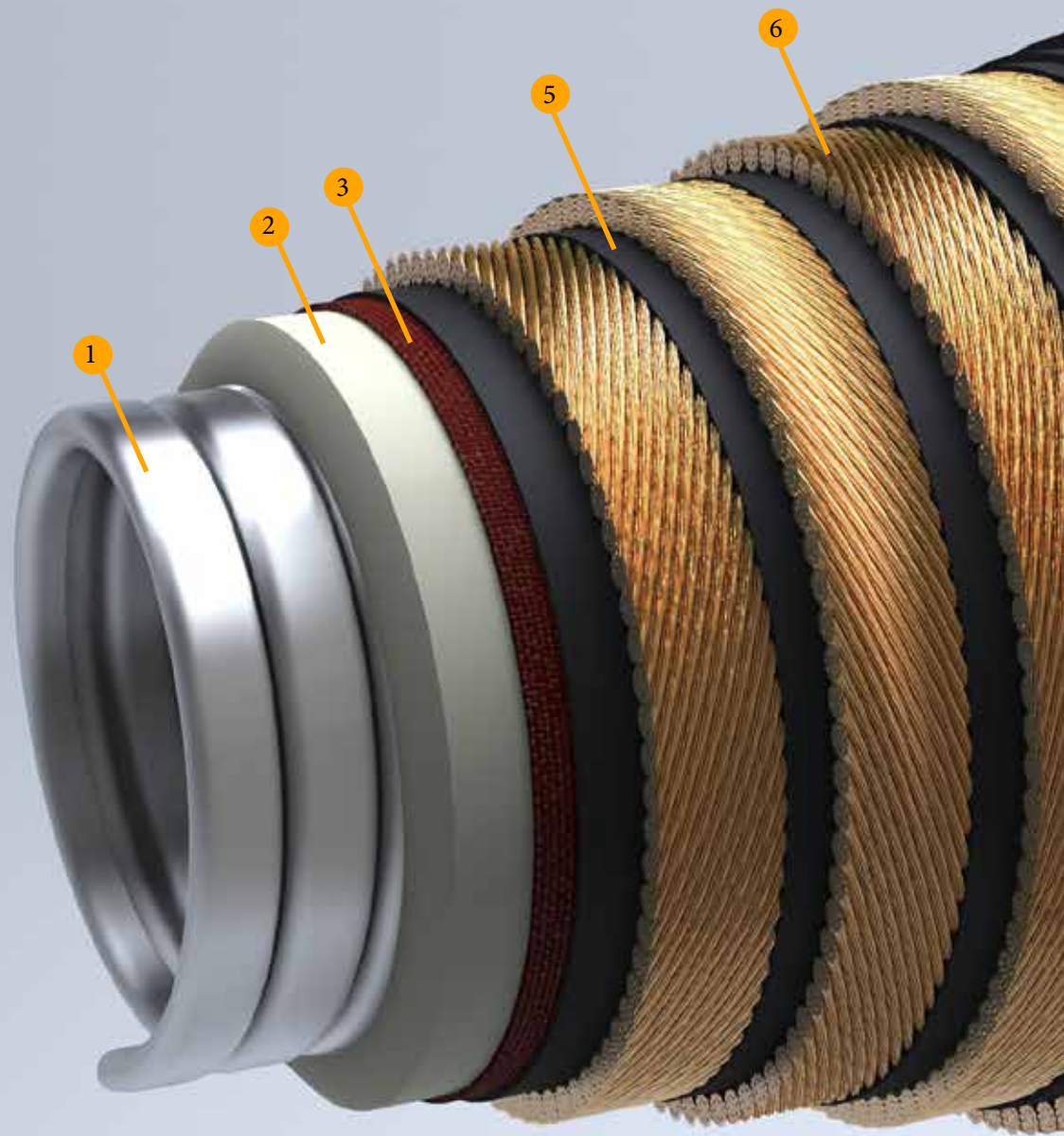
All of our high performance hose products are certified to all relevant API standards for high pressure rubber hoses and flexible pipes - API 7K, API 16C and API 17K.

Using top quality raw materials, sophisticated process control and the very latest R&D systems and processes, our expert teams are able to draw on a comprehensive knowledge base, ranging from material science, mathematics, and physics to advanced engineering and work together with our customers to offer viable solutions for the most demanding applications.

Our hose designs assure long service life and outstanding operational and environmental safety.

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General construction of a high pressure bonded hose

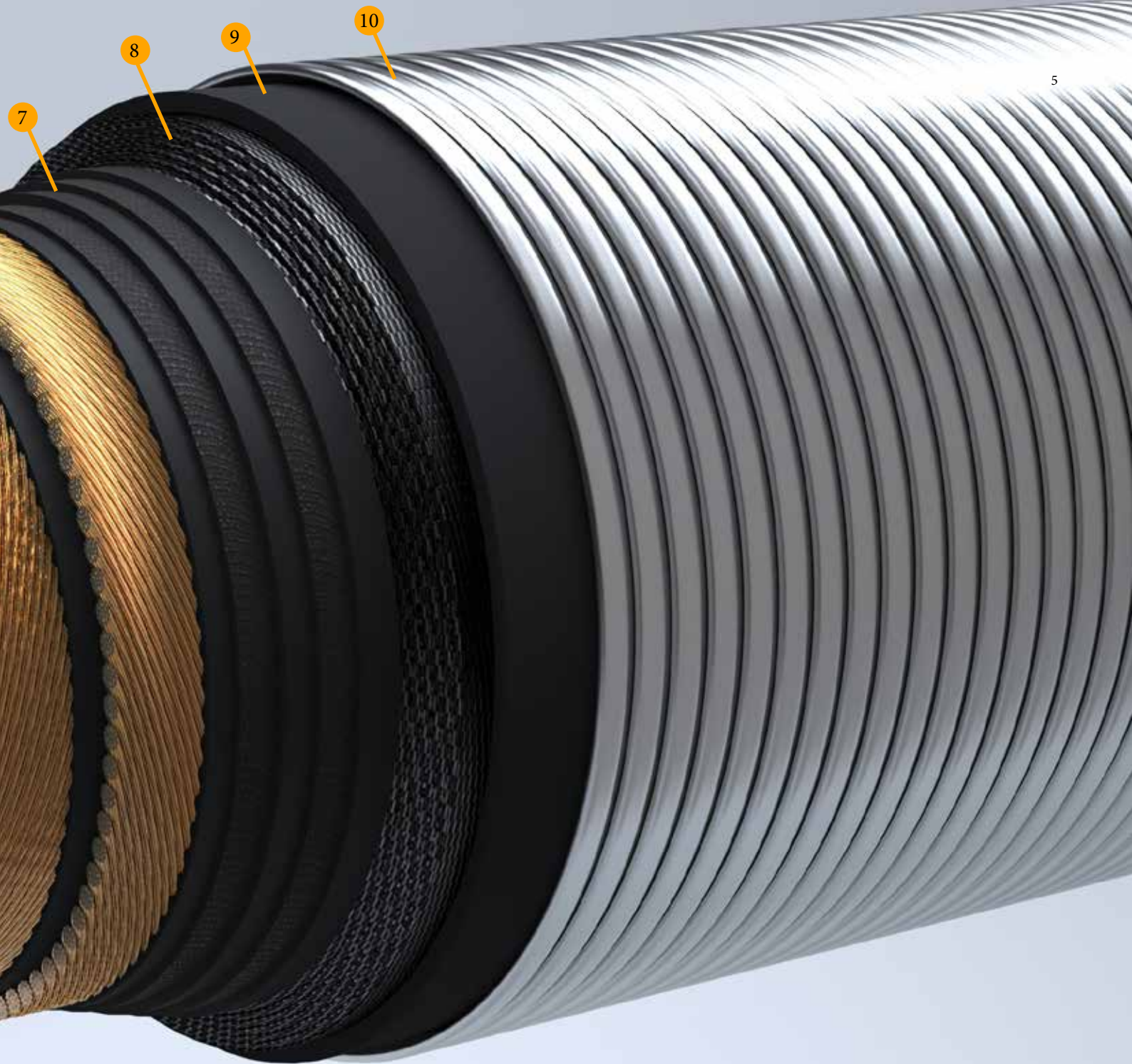
The flexible hose lines are a bonded construction comprising steel and elastomeric materials. The principal characteristic of bonded construction is the build-up of individual layers in the flexible hose wall which are then combined into one unit through vulcanisation. Hose assemblies are manufactured either as a single bonded unit to specified lengths where the couplings are an integral part of the hose, or they can be mechanically assembled to the cured hose.

1 **Stainless steel interlock stripwound tube**

Protects the polymer lining from mechanical damage, prevents blistering in case of high pressure gas service and decompression with vacuum service, supports the wall of the flexible hose and facilitates pigging. The material can be AISI 316L or 254 SMO grade stainless steel, depending on the conveyed medium.

2 **Polymer lining**

Fluid barrier of the flexible line. Protects the hose construction from corrosive and abrasive effects of the conveyed medium.



The thickness of lining depends on the internal pressure, the inside diameter and the conveyed medium. The lining material is selected to withstand chemical and heat effects of crude oil, seawater, gases, hydraulic fluid or whatever substance is conveyed through the hose.

- 3 Textile plies**
To distribute the forces of internal pressure.
- 4 Stiffening spiral (not shown in the figure)**
To protect the hose against collapse under axial pulling force and/or as a result of external pressure. Prevents kinking even in sharp bends.
- 5 Elastomeric cushion plies**
To ensure adhesive bonding between different plies.
- 6 High strength steel cable reinforcements**

These are the most important load-bearing elements, they determine internal pressure resistance. The cables are either zinc or brass coated to provide exceptional corrosion resistance.

- 7 Gas leading plies**
To allow diffused gases to migrate to venting points.
- 8 Fire resistant plies**
Protects the hose in case of exposure to flame at 704°C (1300°F) for at least 30 minutes.
- 9 Elastomeric cover**
Protect the flexible hose line from impact, abrasion, weather, seawater, oil, etc.
- 10 Outer stainless steel stripwound protection**
Protect the hose against external mechanical damage, material AISI 316L.

Tailor-made Solutions engineering services

Finite Element Analysis

Our in-house design software has been improved and refined over many years and is used in conjunction with the most recent finite element analysis (FEA) systems to handle even the most difficult technical demands.

Different FEA solutions allow you to adapt the configuration of your system to a given application and to ensure safe and reliable operation under all conditions:

- **Static, quasi-static hose length analysis**
Determines the optimal hose length whilst allowing for any surrounding objects that may affect the hose routing.
- **Hydrodynamic analysis**
Used to simulate the dynamic behaviour of a given configuration when exposed to the expected environmental conditions.
- **Survival analysis**
Based on the hydrodynamic analysis, the suitability of the hose components is checked against the harshest environmental conditions.
- **Fatigue analysis**
Based on the hydrodynamic analysis, the minimum design life of a hose can be calculated by accumulating the fatigue of the load bearing metal components.

By their nature, bonded flexible pipes offer a high degree of design freedom: their properties can be designed and adjusted according to the needs of your system – based on the results of the FEA.



Built-in neck reinforcement

All hoses with bonded couplings are built with neck reinforcement, but in strong dynamic configurations a custom designed extra neck reinforcement might be necessary to avoid overbending of the hose. The local bending stiffness can be increased to several times of that of the hose body.

Variable bending stiffness

Upon request the bending stiffness of the complete hose body can be increased by a factor of 10 or more. In some cases a reduction in bend stiffness is also possible.

Swivels

If the hose is subject to severe twist (e.g. in the moonpool), swivels may be required.

Heat traced hoses

For extreme cold conditions, or if fluid might freeze in the hose, a self-regulating electric heating cable can be incorporated into the hose body.

Tauro™Fit Preformed hoses

The increasing specifications of today's drilling rigs and floating production facilities result in more and more equipment being packed in to the available space. Installation of a conventional straight rubber hose in a very restricted space can impose a considerable bending moment to keep the hose in the desired configuration.

Such extreme bending moments can in turn transfer high end loads to the coupling and the connected rigid piping and possibly other equipment. These end loads may have a detrimental effect on the service life of connected equipment, such as in-line swivels. For such demanding applications, Continental has developed a range of pre-formed flexible hoses to make installation easier, reduce system loads and extend service life. For more information, see Flexible Tauro™Fit Choke & Kill Line for subsea BOPs and TauroFit Preformed Production Line.

External protection

Several types of external protection are available depending on the application, such as:

1 Outer wrap

Fully interlocking steel outer wrap is the most widely used external protection, able to absorb impacts and friction and thus providing additional mechanical protection to the hose body.

3 Bumpers

If the exact location of impact between the hose and its surroundings is known (e.g. in the moonpool), a plastic bumper is advised to absorb the impact energy.

2 Heavy duty moonpool protection

A steel helix fully embedded in rubber, recommended for the harshest conditions. Exceptional impact absorption and abrasion resistance.

4 Plastic spiral

Helps to protect the hose cover when dragging on the rig floor during handling and installation. Also suitable for static applications.





High Pressure Hoses For Drilling & Well Service Applications

Bonded & Swaged Couplings

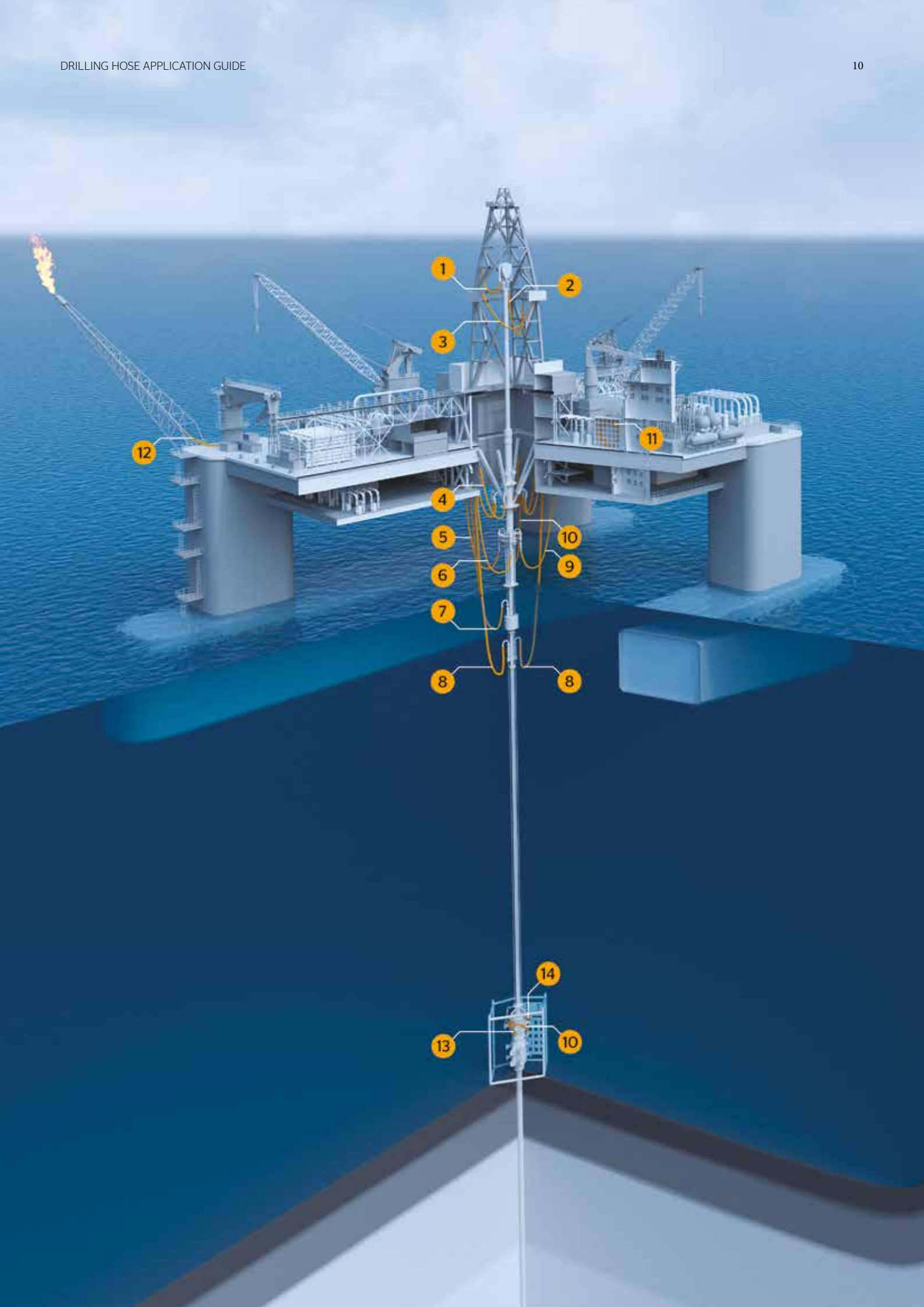
Our bonded couplings and built-in bend stiffeners are the strongest parts of hoses produced by Continental. Our company was the first to patent a coupling where the bonding strength between the coupling and hose body increases in proportion of the internal pressure.

The patented bonded couplings, developed in-house, the special hose construction with integral neck reinforcement and the fire resistant cover layer are all unique features which contribute to a high degree of chemical resistance, fatigue resistance, heat insulation and result in a light compact hose construction with excellent flexibility and low bending radius.

Continental also supplies Rotary and Vibrator hoses with swaged couplings in accordance with API Spec. 7K (FSL1 - FSL2) on demand delivery.



Title Name	Bonded coupling	Swaged coupling
Technology	All reinforcement cables are adhesively bonded to the coupling body	Only outer reinforcement layer, (and in some cases the innermost reinforcement layer) is directly in contact with the coupling
Bore type	Full bore, no flow restriction	Never full bore, there is always a flow restriction. In Choke Lines it may lead to dangerous erosion in case of a kick
Sealing mechanism	Chemical and mechanical bond between metal and rubber	Based on pressure buildup when the coupling is mounted, subject to stress relaxation at elevated temperatures
Field experience	50+ years	Limited, relatively new technology
Temperature limits	Suitable for high fluid temperatures	Limited fluid temperatures
Pressure limits	Meets high pressure rating requirements, up to 20,000 psi (1380 bar) working pressure	Limited pressure capability, max. 10 000 psi (690 bar) working pressure
High frequency pulsations	Always suitable	Not suitable, unless properly designed
Coupling rigid length	Shorter coupling	Longer coupling
Neck reinforcement	Built-in neck reinforcement, with the ability to customize	Does not have neck reinforcement, which might lead to shortened service life
Lead time	Generally longer lead time, but patented Continental post assembling technology available in dedicated workshops significantly cuts lead time	Generally shorter lead time
Service life	Generally longer service life	Generally shorter service life



15

3

2

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16

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17

- | | | |
|---------------------------------|------------------------------|--|
| 1 Drill string compensator hose | 7 MPD hose - Bleed-off line | 13 Flexible TauroFit choke line for subsea BOP's |
| 2 Rotary hose | 8 MPD hose - Mud return line | 14 Flexible TauroFit kill line for subsea BOP's |
| 3 Cementing hose | 9 Flexible choke line | 15 Well stimulation / Acidizing hose |
| 4 Riser tensioner hose | 10 Hydraulic conduit hose | 16 Blowout preventer control hose |
| 5 Flexible kill line | 11 Well test hose | 17 Vibrator hose |
| 6 Mud booster hose | 12 Burner / Flare boom hose | |

FSL Levels for High Pressure Mud & Cement Hoses and Flexible Choke & Kill Lines

The API standards 7K (mud and cement hoses) and API 16C (flexible choke and kill lines) define Flexible Specification Levels (or FSL). For the safety of drilling operations, it is imperative for the purchaser and operator to choose the proper FSL level.

FSL levels for mud and cement hoses in API 7K

FSL 0 - for cement hoses only

To meet the FSL 0 requirements, a deformation test under pressure, an ambient and low temperature bending test need to be performed, no pressure pulsation prototype test is required.

FSL 1 - for rotary, vibrator, and jumper hoses in normal service conditions

To meet the FSL 1 requirements, in addition to FSL 0 prototype tests a low frequency pressure pulsation prototype test is required - 1000 pressure cycles (max. 5 min/cycle) at maximum operating temperature.

FSL 2 - for rotary, vibrator, and jumper hoses that are likely to see high frequency pressure pulsations in operation, as in directional drilling

To meet the FSL 2 requirements, in addition to FSL 0 prototype tests a high frequency pressure pulsation prototype test is required - 10 000 pressure cycles (max. 10 sec/cycle) at maximum operating temperature.

For further information on API 7K FSL levels and prototype tests, see API 7K 6th Edition Section 9.7.3.2. and 9.7.10.



FSL levels for flexible choke and kill lines in API 16C

FSL 0 - To meet FSL 0 requirements a hydrostatic internal pressure test, a bending flexibility test, a burst test and an exposure test shall be passed. In the gas exposure test 3 rapid decompressions are followed by internal diameter check, and a hold period of 7 days at design pressure and maximum operating temperature. Then after 30 days hold at design pressure and ambient temperature, the hose performance is validated by a 30 min pressure test at 1.5 times the design pressure.

FSL 1 - To meet FSL 1 requirements, in addition to FSL 0 prototype tests a fire test is necessary at design pressure and 704°C (1300°F) external temperature for 30 min without leakage.

FSL 2 - To meet FSL 2 requirements, in addition to FSL 0 prototype tests a high temperature exposure test must be performed. The test reproduces a high temperature kick situation with the hose heated slowly to 177°C (350°F) internally at design pressure, where it has to survive one hour without leakage. After that the internal temperature is raised until failure of the line.

FSL 3 - To meet FSL 3 requirements, in addition to FSL 2 prototype tests a fire test is necessary at design pressure and 704°C (1300°F) external temperature for 30 min without leakage.

For further information on API 16C FSL levels and prototype tests, see API 16C 2nd Edition Section 10.8.10. and B.12.

General Information

about products for drilling applications

- Multiple liner materials are available for different applications: NBR, NBR/CR, TauroCool, HNBR, PA and TauroFlon™. For chemical compatibility comparison see page 46.
- Minimum Bending Radius (MBR) is with reference to the centre-line of the hose
- Maximum recommended flow velocities:
 - 20 m/s for dry gas
 - 15 m/s for liquid
 - 8 m/s for gaseous liquid
- Fire rating available at 1300 °F (704°C) for 30 minutes on request for all hoses with bonded couplings. This complies with both Lloyd's Register OD 1000/499 and API 16C requirements
- Additional external protection available upon request
- Prod. Length Tolerance
 - Up to 6,4 m hose length +/- 64 mm
 - Above 6,4 m hose length +/- 1 %

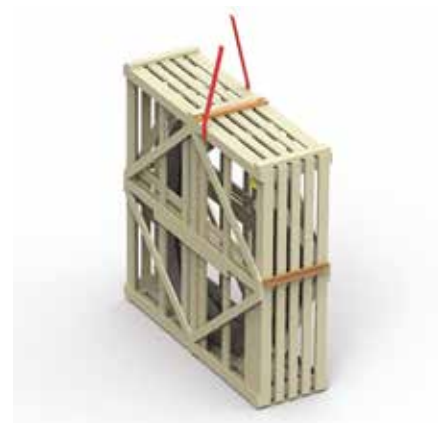


Safety Clamp and Lifting Collar Fitting Instructions

Each hose has a location mark on the outer cover at each end with the text "ATTACH SAFETY CLAMP HERE". This band indicates the location for the safety clamps. The safety clamps should be positioned with one edge towards the middle of the hose (i.e. away from the coupling). Once correctly positioned, the safety clamp should be fastened in position with the nuts and bolts.



The lifting equipment supplied with the hoses, includes a two-part lifting device at each hose end. These lifting devices, called element C's, are supplied loose and not pre-assembled to the hose due to packaging limitations and safety reasons. The normal procedure for handling and lifting the hose involves securing the lifting collar around the element C. The hose is then lifted by attaching the lifting line to the lifting collar. After installation, the lifting collar and element C can be left on the hose together or both removed if preferred. All lifting collars are supplied with SWL certification.



Transportation

We transport our products mainly on road, by rail or by ship to their destination, air freight is also possible. Method of packaging depending on the diameter and length of hose can be as follows:

- Short units: in straight position: on pallets or in wooden crates
- Long units: reeled onto drum, on pallets or in wooden crates

Note: For more detailed information please request a copy of the Continental User Guide for High Pressure Flexible Lines.

Rotary & Vibrator Hose

bonded coupling



Standard

API Spec. 7K FSL 1 - FSL 2

Construction

Bore type	full flow, smooth bore
Liner material	NBR or NBR/CR
Operating temperature	-25°C to +100°C (-13°F to 212°F) for NBR -30°C to +82°C (-22°F to 180°F) for NBR/CR
Max. available length	60m (200ft)

Features & Comments

- See Underbalanced Drilling Hoses for Gas, Air and Foam drilling
- See Managed Pressure Drilling Hoses for Managed Pressure Drilling (MPD) and Dual Gradient Drilling (DGD)



Technical Data

Inside Diameter		Rated Working Pressure		Test Pressure		API Grade	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi			mm	in	m	ft	kg/m	lb/ft
51	2.0	276	4,000	414	6,000	C	2.5	104	4.1	0.7	2.3	15	10
		345	5,000	517	7,500	D	2.5	104	4.1	0.7	2.3	15	10
64	2.5	276	4,000	414	6,000	C	2.5	111	4.4	1.7	5.6	15	10
		345	5,000	517	7,500	D	2.5	111	4.4	0.7	2.3	15	10
		517	7,500	776	11,250	E	2.5	136	5.4	0.8	2.6	31	21
76	3.0	276	4,000	414	6,000	C	2.5	126	5	0.8	2.6	18	12
		345	5,000	517	7,500	D	2.5	126	5	0.8	2.6	18	12
		517	7,500	776	11,250	E	2.5	148	5.8	1.1	3.6	34	23
89	3.5	276	4,000	414	6,000	C	2.5	140	5.5	0.9	3.0	21	14
		345	5,000	517	7,500	D	2.5	140	5.5	0.9	3.0	21	14
		517	7,500	776	11,250	E	2.5	162	6.4	1.3	4.3	39	26
102	4.0	276	4,000	414	6,000	C	2.5	144	5.7	0.9	3.0	21	14
		345	5,000	517	7,500	D	2.5	144	5.7	0.9	3.0	21	14
		517	7,500	776	11,250	E	2.5	174	6.9	1.4	4.6	42	28
127	5.0	345	5,000	517	7,500	D	2.5	213	8.4	1.5	4.9	67	45
		517	7,500	776	11,250	E	2.5	213	8.4	1.5	4.9	67	45
152	6.0	345	5,000	517	7,500	D	2.25	224	8.8	1.7	5.6	57	38*
		517	7,500	776	11,250	E	2.25	248	9.8	1.8	5.9	93	63*

* API 7K not labelled

Rotary & Vibrator Hose

swaged coupling



Standard

API 7K Spec. FSL 1 - FSL 2

Construction

Bore type	not full flow, smooth bore
Liner material	NBR or CR
Operating temperature	FSL 1 -30°C to +82°C (-22°F to 180°F) FSL 2 -30°C to +100°C (-22°F to 212°F)
Max. available length	40m (131ft)

Features & Comments

- Generally shorter lead time
- Swaged end fittings are protected with an all-weather coating to Continental standards



Technical Data

Inside Diameter		Rated Working Pressure		Test Pressure		API Grade	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi			mm	in	m	ft	kg/m	lb/ft
76	3.0	345	5000	517	7500	D	2.5	126	5.0	0.8	2.6	18	12
89	3.5	345	5000	517	7500	D	2.5	140	5.5	0.9	3	21	14
		517	7500	776	11,250	E	2.5	138	5.4	8	2.6	28	18
1016	4	345	5000	517	7500	D	2.5	149	5.9	1	3.3	21	14
		517	7500	776	11,250	E	2.5	150	5.96	0.9	3	30	21

Rotary & Vibrator Hose

for high temperature drilling & sour service



Standard

API 7K Spec. FSL 1 - FSL 2

Construction

Bore type full flow, smooth bore
 Liner material H₂S resistant HNBR
 Operating temperature -30°C to +121°C (-22°F to 250°F)
 Max. available length 60m (200ft)

Features & Comments

- Designed for high working temperature and sour service mud delivery
- The hose is capable of handling 20% H₂S (HydrogenSulphide) for 1 hour at 121°C at rated working pressure
- See Underbalanced Drilling Hoses for Gas, Air and Foam drilling
- See Managed Pressure Drilling Hoses for Managed Pressure Drilling (MPD) and Dual Gradient Drilling (DGD)



Technical Data

Inside Diameter		Rated Working Pressure		Test Pressure		API Grade	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi			mm	in	m	ft	kg/m	lb/ft
51	2.0	276	4,000	414	6,000	C	2.5	104	4.1	0.7	2.3	15	10
		345	5,000	517	7,500	D	2.5	104	4.1	0.7	2.3	15	10
64	2.5	276	4,000	414	6,000	C	2.5	111	4.4	1.7	5.6	15	10
		345	5,000	517	7,500	D	2.5	111	4.4	0.7	2.3	15	10
		517	7,500	776	11,250	E	2.5	136	5.4	0.8	2.6	31	21
76	3.0	276	4,000	414	6,000	C	2.5	126	5.0	0.8	2.6	18	12
		345	5,000	517	7,500	D	2.5	126	5.0	0.8	2.6	18	12
		517	7,500	776	11,250	E	2.5	148	5.8	1.1	3.6	34	23
89	3.5	276	4,000	414	6,000	C	2.5	140	5.5	0.9	3.0	21	14
		345	5,000	517	7,500	D	2.5	140	5.5	0.9	3.0	21	14
		517	7,500	776	11,250	E	2.5	162	6.4	1.3	4.3	39	26
102	4.0	276	4,000	414	6,000	C	2.5	153	6.0	1.0	3.3	24	16
		345	5,000	517	7,500	D	2.5	153	6.0	1.0	3.3	24	16
		517	7,500	776	11,250	E	2.5	174	6.9	1.4	4.6	42	28
127	5.0	345	5,000	517	7,500	D	2.5	213	8.4	1.5	4.9	67	45
		517	7,500	776	11,250	E	2.5	213	8.4	1.5	4.9	67	45
152	6.0	345	5,000	517	7,500	D	2.25	224	8.8	1.7	5.6	57	38 *
		517	7,500	776	11,250	E	2.25	248	9.8	1.8	5.9	93	63 *

* API 7K not labelled

Tauro™Cool Rotary & Vibrator Hose for Arctic drilling



Standard

API Spec. 7K FSL 1 - FSL 2

Construction

Bore type	full flow, smooth bore
Liner material	Tauro™Cool
Operating temperature	-40°C to +82°C (-40°F to 180°F)
Max. available length	60m (200ft)

Features & Comments

- Designed for extreme low working temperature mud delivery
- Additional heat tracing is available on request
- Larger sizes are available without API label
- See Underbalanced Drilling Hoses for Gas, Air and Foam drilling
- See Managed Pressure Drilling Hoses for Managed Pressure Drilling (MPD) and Dual Gradient Drilling (DGD)
- Also available for 10,000 PSI (690 bar) cementing application with Taurus design.



Technical Data

Inside Diameter		Rated Working Pressure		Test Pressure		API Grade	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi			mm	in	m	ft	kg/m	lb/ft
51	2.0	276	4,000	414	6,000	C	2.5	103	4.1	0.7	2.3	14	9
		345	5,000	517	7,500	D	2.5	103	4.1	0.7	2.3	14	9
64	2.5	276	4,000	414	6,000	C	2.5	111	4.4	1.7	5.6	15	10
		345	5,000	517	7,500	D	2.5	111	4.4	0.7	2.3	15	10
		517	7,500	776	11,250	E	2.5	136	5.4	0.8	2.6	31	21
76	3.0	276	4,000	414	6,000	C	2.5	126	5.0	0.8	2.6	18	12
		345	5,000	517	7,500	D	2.5	126	5.0	0.8	2.6	18	12
		517	7,500	776	11,250	E	2.5	148	5.8	1.1	3.6	34	23
89	3.5	276	4,000	414	6,000	C	2.5	140	5.5	0.9	3.0	21	14
		345	5,000	517	7,500	D	2.5	140	5.5	0.9	3.0	21	14
		517	7,500	776	11,250	E	2.5	162	6.4	1.3	4.3	39	26
102	4.0	276	4,000	414	6,000	C	2.5	150	5.9	1.0	3.3	22	15
		345	5,000	517	7,500	D	2.5	150	5.9	1.0	3.3	22	15
		517	7,500	776	11,250	E	2.5	174	6.9	1.4	4.6	42	28

Continental ContiTech Prospector™

Mud & Cementing Hose



Standard

API Spec. 7K FSL 1 and FSL O

Construction

Bore type	not full flow, smooth bore
Liner material	Neoprene
Operating temperature	API 7K FSL1 -22°F to 180°F (-30°C to 82°C) API 7K FSLO -22°F to 250°F (-30°C to 121°C)
Reinforcement steel wire	Six alternating layers of spiraled high-tensile
Cover	Black Neoprene
Max. available length	60m (200ft)
Branding	Continental ContiTech Prospector™

Features & Comments

- Designed for extreme low and high working temperature mud delivery
- Additional heat tracing is available on request
- Bite-to-Wire one-piece crimp couplings provide maximum coupling retention on 6-spiral hoses. Serrations penetrate the cover with a powerful bite into the wire reinforcement, resulting in even hose compression.
- Couplings integrated with Hammer Lug Union Fig. 1502



Technical Data

Rotary & Vibration Application / Cementing Application

Inside Diameter		Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi		mm	in	m	ft	kg/m	lb/ft
51	2.0	350	5000	517	7500	2.5	71.1	2.8	0.7	2	7.3	4.93
51	2.0	690	10000	1035	15000	2.5	71.1	2.8	0.7	2	7.3	4.93

Supplied with Crimped Couplings

2" 7K CRIMP x2" FIG 1502 MALE WITH NUT

2" 7K CRIMP x2" FIG 1502 FEMALE

Underbalanced Drilling Hose



Standard

API Spec. 7K FSL 1

Construction

Bore type full flow, smooth bore
 Liner material H₂S resistant PA
 Operating temperature -20°C to +82°C (-4°F to 180°F)
 Max. available length 60m (200ft)

Features & Comments

- Used for gas, air and foam drilling
- Further constructions are available on request
- Not suitable for operations where the hoses are likely to be exposed to well bore effluents. For such applications, see Managed Pressure Drilling Hoses



Technical Data

Inside Diameter		Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi		mm	in	m	ft	kg/m	lb/ft
51	2.0	276	4000	414	6000	2.5	94	3.7	0.9	3.0	10	7
		345	5000	517	7500	2.5	94	3.7	0.9	3.0	10	7
64	2.5	276	4000	414	6000	2.5	108	4.3	1.0	3.3	13	9
		345	5000	517	7500	2.5	110	4.3	1.0	3.3	15	10
		517	7500	776	11,250	2.5	124	4.9	1.2	3.9	22	15 *
76	3.0	276	4000	414	6000	2.5	122	4.8	1.2	3.9	15	10
		345	5000	517	7500	2.5	124	4.9	1.2	3.9	17	11
		517	7500	776	11,250	2.5	142	5.6	1.3	4.3	31	21 *
89	3.5	276	4000	414	6000	2.5	138	5.4	1.4	4.6	20	13
		345	5000	517	7500	2.5	138	5.4	1.4	4.6	20	13
		517	7500	776	11,250	2.5	156	6.1	1.5	4.9	35	24 *
102	4.0	276	4000	414	6000	2.5	154	6.1	1.5	4.9	22	15 *
		345	5000	517	7500	2.5	164	6.5	1.5	4.9	32	22 *
		517	7500	776	11,250	2.5	168	6.6	1.6	5.3	39	26 *

* API 7K not labelled

Managed Pressure Drilling Hose

mud return line



Standard

API Spec. 17K

Construction

	API 17K Smooth Bore
Bore type	full flow, smooth bore
Liner material	H ₂ S resistant PA
Operating temperature	-20°C to +70°C (-4°F to 158°F)
Max. available length	60m (200ft)

Features & Comments

- Used in both deepwater, shallow water and onshore MPD systems
- Fit for purpose hoses and hoses for Dual Gradient Drilling (DGD systems are also available upon request
- Further sizes and pressure ratings are available upon request
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (static)		MBR (dynamic)		Weight lb/ft	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft		kg/m
102	4.0	Fire rated c/w st. st. wrap	345	5000	518	7500	2.5	191	7.52	1.2	3.94	1.7	5.58	45	30.2
		Fire rated c/w moonpool protection						210	8.27	1.2	3.94	1.7	5.58	63	42.3
127	5.0	Fire rated c/w st. st. wrap	276	4000	414	6000	2.5	216	8.50	1.3	4.26	1.8	5.90	52	34.9
		Fire rated c/w moonpool protection						236	9.29	1.3	4.26	1.8	5.90	72	48.4
139	5.5	Fire rated c/w st. st. wrap	250	3630	376	5445	2.5	226	8.90	1.55	5.08	1.8	5.90	55	37.0
		Fire rated c/w moonpool protection						246	9.69	1.55	5.08	1.8	5.90	76	51.1
152	6.0	Fire rated c/w st. st. wrap	230	3330	345	4995	2.5	239	9.41	1.55	5.08	1.8	5.90	59	39.6
		Fire rated c/w moonpool protection						259	10.20	1.55	5.08	1.8	5.90	82	55.1

Managed Pressure Drilling Hose bleed off line



Standard
API Spec. 17K

Construction

API 17K Smooth Bore

Bore type full flow, smooth bore
 Liner material H₂S resistant PA
 Operating temperature -20°C to +70°C (-4°F to 158°F)
 Max. available length 60m (200ft)



Features & Comments

- Used in both deepwater, shallow water and onshore MPD systems
- Fit for purpose hoses and hoses for Dual Gradient Drilling (DGD) systems are also available upon request
- Further sizes and pressure ratings are available upon request
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition

Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (static)		MBR (dynamic)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft
53	2.0	Fire rated c/w st.st. wrap Fire rated c/w moonpool protection	345	5,000	517	7,500	2.5	141	5.53	0.8	2.62	1.0	3.28	29.4	19.7
								156	6.14	0.8	2.62	1.0	3.28	38.4	25.8

Cementing Hose



Standard

API Spec. 7K FSL O

Construction

Bore type full flow, smooth bore
 Liner material NBR
 Operating temperature -25°C to +100°C (-13°F to 212°F)
 Max. available length 60m (200ft)

Features & Comments

- Hoses with a temperature rating of -30°C to +121°C and -40°C to +82°C are available upon request



Technical Data

Inside Diameter		Rated Working Pressure		Test Pressure		Safety Factor	Outer Diameter		MBR (storage)		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi	(WP)	mm	in	m	ft	m	ft	kg/m	lb/ft
51	2.0	345	5000	690	10,000	2.5	72	2.83	0.6	1.97	0.6	1.97	7	4.9*
		345	5000	690	10,000	2.5	104	4.09	0.6	1.97	0.7	2.30	15	10.1
		690	10,000	1,035	15,000	2.25	72	2.83	0.6	1.97	0.6	1.97	7	4.9*
		690	10,000	1,035	15,000	2.25	123	4.84	0.9	2.95	1.0	3.28	27	18.1
64	2.5	1,035	15,000	1,552	22,500	2.25	140	5.51	1.1	3.61	1.4	4.59	40	26.9
		345	5,000	690	10,000	2.5	111	4.37	0.6	1.97	0.7	2.30	15	10.1
		690	10,000	1,035	15,000	2.25	136	5.35	1.0	3.28	1.1	3.61	31	20.8
76	3.0	1,035	15,000	1,552	22,500	2.25	153	6.02	1.2	3.94	1.5	4.92	45	30.2
		345	5,000	690	10,000	2.5	126	4.96	0.7	2.30	0.8	2.62	18	12.1
		690	10,000	1,035	15,000	2.25	148	5.83	1.1	3.61	1.2	3.94	34	22.8
		1,035	15,000	1,552	22,500	2.25	166	6.54	1.4	4.59	1.6	5.25	53	35.6
102	4.0	1,380	20,000	2,070	30,000	2.25	210	8.27	1.6	5.25	1.6	5.25	109	73.2
		345	5,000	690	10,000	2.5	166	6.54	1.0	3.28	1.2	3.94	33	22.2
		690	10,000	1,035	15,000	2.25	192	7.56	1.5	4.92	1.7	5.58	61	41.0
		1,035	15,000	1,552	22,500	2.25	222	8.74	1.4	4.59	1.4	4.59	108	72.6

* crimped design

Flexible Choke & Kill Line with TauroFlon™ liner (up to 130°C)



Standard

API Spec. 16C up to FSL 3

Construction

Bore type full flow, rough bore
 Liner material H₂S resistant TauroFlon™
 Operating temperature -20°C to +130°C (-4°F to 266°F)
 Survival temperature 177°C (350°F) for at least 1 hour
 Max. available length 60m (200ft)

Features & Comments

- Suitable for well completion
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition
- See Flexible Tauro™Fit Choke & Kill Lines for subsea BOPs and for Flexible Choke & Kill Lines with extremely small MBRs
- See Well Test Hoses for well test applicaitons
- Saudi Aramco approved



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (storage)		MBR (dynamic)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft
54	20	Standard	345	5,000	517	7,500	2.25	146	5.8	0.8	2.6	0.8	2.6	40	27
		Standard c/w st. st. wrap						151	5.9	0.8	2.6	0.8	2.6	46	31
		Fire rated						159	6.3	0.9	3.0	0.9	3.0	46	31
		Fire rated c/w st. st. wrap	165	6.5	0.9	3.0	0.9	3.0	52	35					
		Standard	690	10,000	1,035	15,000	2.25	146	5.8	0.8	2.6	0.8	2.6	40	27
		Standard c/w st. st. wrap						151	5.9	0.8	2.6	0.8	2.6	46	31
		Fire rated						159	6.3	0.8	2.6	0.8	2.6	46	31
		Fire rated c/w st. st. wrap	165	6.5	0.8	2.6	0.8	2.6	52	35					
		Standard	1,035	15,000	1,552	22,500	2.25	175	6.9	1.2	3.9	1.2	3.9	72	48
		Standard c/w st. st. wrap						181	7.1	1.2	3.9	1.2	3.9	78	52
		Fire rated						188	7.4	1.3	4.3	1.3	4.3	79	53
		Fire rated c/w st. st. wrap	194	7.6	1.3	4.3	1.3	4.3	86	58					
65	2.5	Standard	345	5,000	517	7,500	2.25	159	6.3	0.9	3.0	0.9	3.0	46	31
		Standard c/w st. st. wrap						165	6.5	0.9	3.0	0.9	3.0	52	35
		Fire rated						172	6.8	1.0	3.3	1.0	3.3	52	35
		Fire rated c/w st. st. wrap	178	7.0	1.0	3.3	1.0	3.3	59	40					
		Standard	690	10,000	1,035	15,000	2.25	159	6.3	0.9	3.0	0.9	3.0	46	30
		Standard c/w st. st. wrap						165	6.5	0.9	3.0	0.9	3.0	52	35
		Fire rated						172	6.8	1.0	3.3	1.0	3.3	52	35
		Fire rated c/w st. st. wrap	178	7.0	1.0	3.3	1.0	3.3	59	40					
		Standard	1,035	15,000	1,552	22,500	2.25	188	7.4	1.3	4.3	1.3	4.3	80	54
		Standard c/w st. st. wrap						194	7.6	1.3	4.3	1.3	4.3	87	59
		Fire rated						202	8.0	1.4	4.6	1.4	4.6	88	59
		Fire rated c/w st. st. wrap	207	8.2	1.4	4.6	1.4	4.6	96	65					
78	30	Standard	345	5,000	517	7,500	2.25	188	7.4	0.9	3.0	0.9	3.0	80	54
		Standard c/w st. st. wrap						194	7.6	0.9	3.0	0.9	3.0	87	59
		Fire rated						202	8.0	1.0	3.3	1.0	3.3	88	59
		Fire rated c/w st. st. wrap	207	8.2	1.0	3.3	1.0	3.3	96	65					
		Standard	690	10,000	1,035	15,000	2.25	188	7.4	0.9	3.0	0.9	3.0	80	54
		Standard c/w st. st. wrap						194	7.6	0.9	3.0	0.9	3.0	87	59
		Fire rated						202	8.0	1.0	3.3	1.0	3.3	88	59
		Fire rated c/w st. st. wrap	207	8.2	1.0	3.3	1.0	3.3	96	65					
		Standard	1,035	15,000	1,552	22,500	2.25	204	8.0	1.4	4.6	1.4	4.6	95	64
		Standard c/w st. st. wrap						210	8.3	1.4	4.6	1.4	4.6	102	69
		Fire rated						218	8.6	1.5	4.9	1.5	4.9	103	69
		Fire rated c/w st. st. wrap	223	8.8	1.5	4.9	1.5	4.9	111	75					
104	40	Standard	345	5,000	517	7,500	2.25	124	5.0	1.4	4.6	1.4	4.6	94	63
		Standard c/w st. st. wrap						130	5.1	1.4	4.6	1.4	4.6	103	69
		Fire rated						237	9.3	1.5	4.9	1.5	4.9	104	70
		Fire rated c/w st. st. wrap	243	9.6	1.5	4.9	1.5	4.9	112	75					
		Standard	690	10,000	1,035	15,000	2.25	124	5.0	1.4	4.6	1.4	4.6	94	63
		Standard c/w st. st. wrap						130	5.1	1.4	4.6	1.4	4.6	103	69
		Fire rated						237	9.3	1.5	4.9	1.5	4.9	104	70
		Fire rated c/w st. st. wrap	243	9.6	1.5	4.9	1.5	4.9	112	75					

Flexible Choke & Kill Line with PA liner (up to 130°C)



Standard

API Spec. 16C up to FSL 3

Construction

Bore type	full flow, rough bore
Liner material	H ₂ S resistant PA
Operating temperature	-20°C to +130°C (-4°F to 266°F)
Survival temperature	177°C (350°F) for at least 1 hour
Max. available length	60m (200ft)

Features & Comments

- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition
- See Flexible Tauro™Fit Choke & Kill Lines for subsea BOPs and for Flexible Choke & Kill Lines with extremely small MBRs

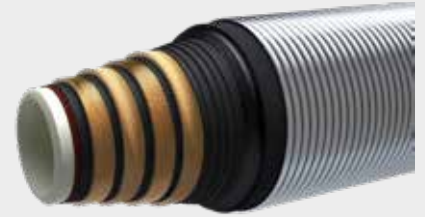


Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (storage)		MBR (operation)		Weight							
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft						
54	2.0	Standard	345	5000	517	7500	2.25	142	56	0.8	2.6	0.8	2.6	38	26						
		Standard c/w st. st. wrap						152	6.0	0.8	2.6	0.8	2.6	42	28						
		Fire rated						155	6.1	0.9	3.0	0.9	3.0	44	30						
		65	2.5	Standard	690	10000	1035	15000	2.25	142	56	0.8	2.6	0.8	2.6	38	26				
				Standard c/w st. st. wrap						152	6.0	0.8	2.6	0.8	2.6	42	28				
				Fire rated						155	6.1	0.8	2.6	0.8	2.6	44	30				
				78	3.0	Standard	1035	15000	1552	22500	2.25	167	6.6	0.8	2.6	0.8	2.6	50	34		
						Standard c/w st. st. wrap						177	7.0	1.2	3.9	1.2	3.9	69	46		
						Fire rated						188	7.4	1.2	3.9	1.2	3.9	76	51		
						65	2.5	Standard	345	5000	517	7500	2.25	190	7.5	1.3	4.3	1.3	4.3	76	51
								Standard c/w st. st. wrap						202	8.0	1.3	4.3	1.3	4.3	84	56
								Fire rated						215	8.5	1.4	4.6	1.4	4.6	94	63
78	3.0							Standard	690	10000	1035	15000	2.25	180	7.1	1.0	3.3	1.0	3.3	49	33
								Standard c/w st. st. wrap						169	6.7	1.0	3.3	1.0	3.3	49	33
								Fire rated						180	7.1	1.0	3.3	1.0	3.3	56	38
		104	4.0					Standard	1035	15000	1552	22500	2.25	191	7.5	1.3	4.3	1.3	4.3	77	52
								Standard c/w st. st. wrap						202	8.0	1.3	4.3	1.3	4.3	85	57
								Fire rated						204	8.0	1.4	4.6	1.4	4.6	85	57
				104	4.0			Standard	345	5000	517	7500	2.25	215	8.5	1.4	4.6	1.4	4.6	94	63
								Standard c/w st. st. wrap						168	6.6	0.9	3.0	0.9	3.0	49	33
								Fire rated						180	7.1	0.9	3.0	0.9	3.0	56	38
						104	4.0	Standard	690	10000	1035	15000	2.25	182	7.2	1.0	3.3	1.0	3.3	56	38
								Standard c/w st. st. wrap						193	7.6	1.0	3.3	1.0	3.3	63	42
								Fire rated						168	6.6	0.9	3.0	0.9	3.0	49	33
104	4.0							Standard	1035	15000	1552	22500	2.25	180	7.1	0.9	3.0	0.9	3.0	56	38
								Standard c/w st. st. wrap						182	7.2	1.0	3.3	1.0	3.3	56	38
								Fire rated						193	7.6	1.0	3.3	1.0	3.3	63	42
		104	4.0					Standard	345	5000	517	7500	2.25	208	8.2	1.4	4.6	1.4	4.6	90	61
								Standard c/w st. st. wrap						219	8.6	1.4	4.6	1.4	4.6	98	66
								Fire rated						218	8.6	1.5	4.9	1.5	4.9	97	65
				104	4.0			Standard	690	10000	1035	15000	2.25	230	9.1	1.5	4.9	1.5	4.9	106	71
								Standard c/w st. st. wrap						219	8.6	1.4	4.6	1.4	4.6	89	60
								Fire rated						230	9.1	1.4	4.6	1.4	4.6	98	66
						104	4.0	Standard	1035	15000	1552	22500	2.25	243	9.6	1.5	4.9	1.5	4.9	108	73
								Standard c/w st. st. wrap						219	8.6	1.4	4.6	1.4	4.6	89	60
								Fire rated						230	9.1	1.4	4.6	1.4	4.6	98	66
104	4.0							Standard	345	5000	517	7500	2.25	232	9.1	1.5	4.9	1.5	4.9	98	66
								Standard c/w st. st. wrap						243	9.6	1.5	4.9	1.5	4.9	108	73
								Fire rated						243	9.6	1.5	4.9	1.5	4.9	108	73
		104	4.0					Standard	1035	15000	1552	22500	2.25	244	9.6	1.6	5.2	1.6	5.2	126	85*
								Standard c/w st. st. wrap						250	9.8	1.6	5.2	1.6	5.2	135	91*
								Fire rated						254	10.0	1.7	5.6	1.7	5.6	135	91*
				104	4.0			Standard	690	10000	1035	15000	2.25	260	10.2	1.7	5.6	1.7	5.6	144	97*
								Standard c/w st. st. wrap						260	10.2	1.7	5.6	1.7	5.6	144	97*
								Fire rated						260	10.2	1.7	5.6	1.7	5.6	144	97*

* Limited to FSL 1

Flexible Choke & Kill Line with PA liner (up to 100°C)



Standard

API Spec. 16C up to FSL 3

Construction

Bore type	full flow, smooth bore
Liner material	H ₂ S resistant PA
Operating temperature	-20°C to +100°C (-4°F to 212°F)
Survival temperature	177°C (350°F) for at least 1 hour
Max. available length	60m (200ft)

Features & Comments

- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition
- See Flexible Tauro™Fit Choke & Kill Lines for subsea BOPs and for Flexible Choke & Kill Lines with extreme small MBRs



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (storage)		MBR (operation)		Weight		
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft	
51	2.0	Standard	345	5000	517	7500	2.25	113	4.5	0.8	2.6	0.8	2.6	24	16	
		Standard c/w st. st. wrap						123	4.8	0.8	2.6	0.8	2.6	28	19	
		Fire rated						128	5.0	0.9	3.0	0.9	3.0	29	20	
		Fire rated c/w st. st. wrap							138	5.4	0.9	3.0	0.9	3.0	33	22
		Standard	690	10000	1035	15000	2.25	113	4.5	0.8	2.6	0.8	2.6	24	16	
		Standard c/w st. st. wrap						123	4.8	0.8	2.6	0.8	2.6	28	19	
		Fire rated						128	5.0	0.9	3.0	0.9	3.0	29	20	
		Fire rated c/w st. st. wrap							138	5.4	0.9	3.0	0.9	3.0	33	22
		Standard	1035	15000	1552	22500	2.25	136	5.4	1.0	3.3	1.1	3.6	4.0	27	
		Standard c/w st. st. wrap						146	5.8	1.0	3.3	1.1	3.6	45	30	
		Fire rated						150	5.9	1.1	3.6	1.2	3.9	46	31	
		Fire rated c/w st. st. wrap							162	6.4	1.1	3.6	1.2	3.9	53	36
64	2.5	Standard	345	5000	517	7500	2.25	127	5.0	0.9	3.0	0.9	3.0	28	19	
		Standard c/w st. st. wrap						137	5.4	0.9	3.0	0.9	3.0	32	22	
		Fire rated						141	5.6	1.0	3.3	1.0	3.3	34	23	
		Fire rated c/w st. st. wrap							151	5.9	1.0	3.3	1.0	3.3	38	26
		Standard	690	10000	1035	15000	2.25	127	5.0	0.9	3.0	0.9	3.0	28	19	
		Standard c/w st. st. wrap						137	5.4	0.9	3.0	0.9	3.0	32	22	
		Fire rated						141	5.6	1.0	3.3	1.0	3.3	34	23	
		Fire rated c/w st. st. wrap							151	5.9	1.0	3.3	1.0	3.3	38	26
		Standard	1035	15000	1552	22500	2.25	149	5.9	1.1	3.6	1.3	4.3	46	31	
		Standard c/w st. st. wrap						159	6.3	1.1	3.6	1.3	4.3	51	34	
		Fire rated						164	6.5	1.2	3.9	1.4	4.6	53	36	
		Fire rated c/w st. st. wrap							175	6.9	1.2	3.9	1.4	4.6	60	40
76	3.0	Standard	345	5000	517	7500	2.25	141	5.6	0.9	3.0	0.9	3.0	32	22	
		Standard c/w st. st. wrap						151	5.9	0.9	3.0	0.9	3.0	37	25	
		Fire rated						155	6.1	1.0	3.3	1.0	3.3	39	26	
		Fire rated c/w st. st. wrap							167	6.6	1.0	3.3	1.0	3.3	45	30
		Standard	690	10000	1035	15000	2.25	141	5.6	0.9	3.0	0.9	3.0	32	22	
		Standard c/w st. st. wrap						151	5.9	0.9	3.0	0.9	3.0	37	25	
		Fire rated						155	6.1	1.0	3.3	1.0	3.3	39	26	
		Fire rated c/w st. st. wrap							167	6.6	1.0	3.3	1.0	3.3	45	30
		Standard	1035	15000	1552	22500	2.25	164	6.5	1.2	3.9	1.4	4.6	52	35	
		Standard c/w st. st. wrap						175	6.9	1.2	3.9	1.4	4.6	59	40	
		Fire rated						178	7.0	1.4	4.6	1.7	5.6	59	40	
		Fire rated c/w st. st. wrap							190	7.5	1.4	4.6	1.7	5.6	67	45
102	4.0	Standard	345	5000	517	7500	2.25	184	7.2	1.4	4.6	1.4	4.6	54	36	
		Standard c/w st. st. wrap						190	7.5	1.4	4.6	1.4	4.6	61	41	
		Fire rated						198	7.8	1.5	4.9	1.5	4.9	66	44	
		Fire rated c/w st. st. wrap							204	8.0	1.5	4.9	1.5	4.9	70	47
		Standard	690	10000	1035	15000	2.25	184	7.2	1.4	4.6	1.4	4.6	54	36	
		Standard c/w st. st. wrap						190	7.5	1.4	4.6	1.4	4.6	61	41	
		Fire rated						198	7.8	1.5	4.9	1.5	4.9	66	44	
		Fire rated c/w st. st. wrap							204	8.0	1.5	4.9	1.5	4.9	70	47

Flexible Tauro™Fit Choke & Kill Line for subsea BOPs



Standard

API Spec. 16C up to FSL 3

Construction

Bore type	full flow, rough bore
Liner material	H ₂ S resistant PA
Shape	Preformed
Operating temperature	-20°C to +121°C (-4°F to 250°F)
Survival temperature	177°C (350°F) for at least 1 hour

Features & Comments

- Easy installation in confined spaces
- Extended service life as a result of reduced risk of over-bending and reduced stress on hose body and on coupling
- Transfers less load to adjacent equipment or pipework
- New short coupling design increases flexible length with no reduction in bonding strength
- Opens up new design opportunities to reduce the size and weight of oil field equipment
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	kg/m	lb/ft
78	3.0	Standard	690	10,000	1,035	15,000	2.25	168	6.6	0.6	2.0	49	33
		Standard c/w st. st. wrap						180	7.1	0.6	2.0	56	38
		Fire rated						182	7.2	0.7	2.3	56	38
		Fire rated c/w st. st. wrap						193	7.6	0.7	2.3	63	42
		Standard	1,035	15,000	1,552	22,500	2.25	208	8.2	1.0	3.3	90	61
		Standard c/w st. st. wrap						213	8.4	1.0	3.3	97	65
		Fire rated						218	8.6	1.1	3.6	97	65
		Fire rated c/w st. st. wrap						224	8.8	1.1	3.6	105	71

Mud Booster Hose



Standard

API Spec. 7K FSL1 - FSL 2 & API SPec. 16C - up to FSL 3

Construction

	API 16C - up to FSL 3	API 7K FSL 1 - FSL 2
Bore type	full flow, rough bore	full flow, smooth bore
Liner material	H ₂ S resistant TauroFlon™ & PA	NBR
Operating temperature	-20°C to +130°C (-4°F to 250°F)	-25°C to +100°C (-13°F to 212°F)
Max. available length	60m (200ft)	60m (200ft)

Features & Comments

- The construction with TauroFlon™ liner is suitable for well completion
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition



Technical Data

As per API Spec. 16C with TauroFlon™ lining

Inside Diameter		Type	Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (storage)		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft
104	4.0	Standard	345	5000	517	7500	2.25	124	4.88	14	4.6	14	4.6	94	63
		Standard c/w st. st. wrap						130	5.12	14	4.6	14	4.6	103	69
		Fire rated						237	9.33	15	4.9	15	4.9	104	70
		Fire rated c/w st. st. wrap						243	9.57	15	4.9	15	4.9	112	75

As per API Spec. 16C with PA lining

Inside Diameter		Type	Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (storage)		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft
104	4.0	Standard	345	5000	517	7500	2.25	219	8.6	14	4.6	14	4.6	89	60
		Standard c/w st. st. wrap						230	9.1	14	4.6	14	4.6	98	66
		Fire rated						232	9.1	15	4.9	15	4.9	98	66
		Fire rated c/w st. st. wrap						243	9.6	15	4.9	15	4.9	108	72

As per API Spec. 7K

Inside Diameter		Type	Working Pressure		Test Pressure		API Grade	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi			mm	in	m	ft	kg/m	lb/ft
102	4.0	Standard	345	5,000	517	7,500	D	2.5	159	6.3	10	4.0	29	20
		Standard							174	6.9	14	4.6	42	28
127	5.0	Standard	345	5,000	517	7,500	D	2.5	213	8.4	15	4.9	67	45
		Standard							213	8.4	15	4.9	67	45

Hydraulic Conduit Hose



Standard

API Spec. 7K FSL1 - FSL 2 & API Spec. 16C - up to FSL 3

Construction	API 7K FSL 1 - FSL 2	API 16C - up to FSL 3
Bore type	full flow, smooth bore	full flow, smooth bore
Liner material	NBR	H ₂ S resistant PA
Operating temperature	-25°C to +100°C (-13°F to 212°F)	-20°C to +100°C (-4°F to 212°F)
Max. available length	60m (200ft)	60m (200ft)

Features & Comments

- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition



Technical Data

As per API Spec. 7K

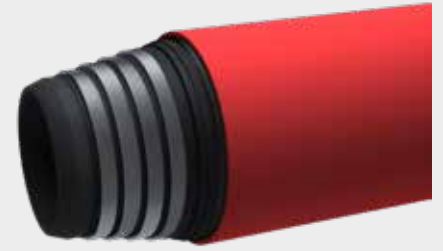
Inside Diameter		Working Pressure		Test Pressure		API Grade	Safety Factor	Outer Diameter		MBR (storage)		MBR (operation)		Weight	
mm	in	bar	psi	bar	psi		(WP)	mm	in	m	ft	m	ft	kg/m	lb/ft
51	2.0	345	5,000	517	7,500	D	2.5	104	4.09	0.6	1.97	0.7	2.30	15	10.1
64	2.5	345	5,000	517	7,500	D	2.5	111	4.37	0.6	1.97	0.7	2.30	15	10.1
76	3.0	345	5,000	517	7,500	D	2.5	126	4.96	0.7	2.30	0.8	2.62	18	12.1
89	3.5	345	5,000	517	7,500	D	2.5	140	5.51	0.8	2.62	0.9	2.95	21	14.1

As per API Spec. 16C

Inside Diameter		Type	Working Pressure		Test Pressure		Safety Factor	Outer Diameter		MBR (storage)		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi	(WP)	mm	in	m	ft	m	ft	kg/m	lb/ft
51	2.0	Standard	345	5,000	517	7,500	2.25	113	4.45	0.8	2.6	0.8	2.6	24	16
		Standard c/w st. st. wrap						123	4.84	0.8	2.6	0.8	2.6	28	19
		Fire rated						128	5.04	0.9	3.0	0.9	3.0	29	20
		Fire rated c/w st. st. wrap						138	5.43	0.9	3.0	0.9	3.0	33	22
64	2.5	Standard	345	5,000	517	7,500	2.25	127	5.00	0.9	3.0	0.9	3.0	28	19
		Standard c/w st. st. wrap						137	5.39	0.9	3.0	0.9	3.0	32	22
		Fire rated						141	5.55	1.0	3.3	1.0	3.3	34	23
		Fire rated c/w st. st. wrap						151	5.94	1.0	3.3	1.0	3.3	38	26
76	3.0	Standard	345	5,000	517	7,500	2.25	141	5.55	0.9	3.0	0.9	3.0	32	22
		Standard c/w st. st. wrap						151	5.94	0.9	3.0	0.9	3.0	37	25
		Fire rated						155	6.10	1.0	3.3	1.0	3.3	39	26
		Fire rated c/w st. st. wrap						167	6.57	1.0	3.3	1.0	3.3	45	30

Blowout Preventer Control Hose

Fireshield 5000



Construction

Bore type	not full flow, smooth bore
Liner material	NBR
Reinforcement	2 wire braid (up to 3/8") 4 or 6 wire spirals (above 3/8")
Cover	Red flame retardant CR rubber over layers of heat resistant fibre
Operating temperature	-20°C to +100°C (-4°F to 212°F)
Max. available length	60m (200ft)

Features & Comments

- Used in onshore and offshore drilling operations on the Blow Out Preventer (BOP) to provide hydraulic power to seal the well head in case of a kick or an emergency situation where operation is critical during exposure to fire and high temperature
- Fire rating meets and exceeds Lloyd's Register OD/1000/499 at 700°C for 5 minutes in accordance to the guidelines of API 16D
- The QR74 Quick Release valved couplings also fully comply to Lloyd's Register OD/1000/499 fire rating
- Stainless steel armour is available upon request to protect the hose against external mechanical damage



Technical Data

Inside Diameter		Working Pressure		Min Burst Pressure		Outside Diameter		Min Bend Radius		Weight	
mm	in	bar	psi	bar	psi	mm	in	mm	in	kg/m	lb/ft
65	1/4	345	5000	1,380	20,000	20.0	0.8	110	4.3	0.75	0.50
95	3/8	345	5000	1,380	20,000	24.0	0.9	150	5.9	0.80	0.54
127	1/2	345	5000	1,380	20,000	30.0	1.2	250	9.8	1.22	0.82
191	3/4	345	5000	1,380	20,000	37.0	1.5	330	13.0	1.82	1.22
251	1	345	5000	1,380	20,000	44.0	1.7	375	14.8	2.53	1.70
317	1 1/4	345	5000	1,380	20,000	58.0	2.3	460	18.1	4.20	2.82
381	1 1/2	345	5000	1,380	20,000	63.0	2.5	520	20.5	6.29	4.23
508	2	345	5000	1,380	20,000	77.0	3.0	700	27.6	8.90	5.98

Well Test Production Hose

Standard

API Spec. 17K & API Spec. 16C - up to FSL 3

Construction

	API 16C - up to FSL 3		API 17K	
Bore type	full flow, rough bore	full flow, rough bore	full flow, rough bore	full flow, rough bore
Liner material	H ₂ S resistant TauroFlon™	H ₂ S resistant PA	H ₂ S resistant PA	H ₂ S resistant PA
Operating temperature	-20°C to +130°C (-4°F to 266°F)	-20°C to +100°C (-4°F to 212°F)	-20°C to +90°C (-4°F to 194°F)	-20°C to +90°C (-4°F to 194°F)
Max. available length	60m (200ft)	60m (200ft)	60m (200ft)	60m (200ft)



Features & Comments

- Suitable for both Drill Stem test (DST) and Production Test (PT)
- Designed to withstand continuous periods of operation with a high risk of rapid decompression
- There is no recognised industry standard for Well Test Production Hoses. However, in view of the typical operating conditions, the API specifications for Flexible Choke & Kill Lines (API 16C) or Bonded Flexible Pipes (API 17K) used for production should be considered. Flexible Choke & Kill Lines are designed to withstand short-term high pressure and high temperature operation, whilst production hoses must withstand continuous periods of operation with a high risk of decompression
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition



Technical Data

As per API Spec. 16C with TauroFlon™ lining

Inside Diameter		Type	Rated Working Pressure		Test Pressure	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight		
mm	in		bar	psi			bar	psi	mm	in	m	ft	kg/m
78	3.0	Fire rated c/w st. st. wrap	690	10,000	1,035	15,000	2.25	207	8.2	1.0	3.3	96	65
		Fire rated c/w st. st. wrap	1,035	15,000	1,552	22,500	2.25	223	8.8	1.5	4.9	111	75
104	4.0	Fire rated c/w st. st. wrap	690	10,000	1,035	15,000	2.25	243	9.6	1.5	4.9	112	75

As per API Spec. 16C with PA lining

Inside Diameter		Type	Rated Working Pressure		Test Pressure	Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight		
mm	in		bar	psi			bar	psi	mm	in	m	ft	kg/m
78	3.0	Fire rated c/w st. st. wrap	690	10,000	1,035	15,000	2.25	193	7.6	1.0	3.3	63	42
		Fire rated c/w st. st. wrap	1,035	15,000	1,552	22,500	2.25	230	9.1	1.5	4.9	106	71
104	4.0	Fire rated c/w st. st. wrap	690	10,000	1,035	15,000	2.25	243	9.6	1.5	4.9	108	73

As per API Spec. 17K with PA lining

Inside Diameter		Type	Rated Working Pressure		Test Pressure	Safety Factor (WP)	Outer Diameter		MBR (static)		Weight		
mm	in		bar	psi			bar	psi	mm	in	m	ft	kg/m
78	3.0	Fire rated c/w st. st. wrap	517	7,500	690	11,250	2.25	201	7.9	1.5	4.9	67	45
104	4.0	Fire rated c/w st. st. wrap	517	7,500	690	11,250	2.25	251	9.9	1.8	5.9	112	75

Well Stimulation / Acidizing Hose

Standard

API Spec. 16C - up to FSL 3

Construction

	API 16C - up to FSL 3	API 16C - up to FSL 3
Bore type	full flow, rough bore	full flow, rough bore
Liner material	H ₂ S resistant TauroFlon™	H ₂ S resistant PA
Operating temperature	-20°C to +130°C (-4°F to 266°F)	-20°C to +100°C (-4°F to 212°F)
Max. available length	60m (200ft)	60m (200ft)



Features & Comments

- Designed to withstand a large range of acidizing liquids and fracturing solutions
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition



Technical Data

As per API Spec. 16C with TauroFlon™ lining

Inside Diameter		Type	Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	kg/m	lb/ft
78	3.0	Standard	690	10,000	1,035	15,000	2.25	188	7.4	0.9	3.0	80	54
		Standard c/w st. st. wrap						194	7.6	0.9	3.0	87	59
		Fire rated						202	8.0	1.0	3.3	88	59
		Fire rated c/w st. st. wrap	207	8.2	1.0	3.3	96	65					
		Standard	1,035	15,000	1,552	22,500	2.25	204	8.0	1.4	4.6	95	64
		Standard c/w st. st. wrap						210	8.3	1.4	4.6	102	69
		Fire rated						218	8.6	1.5	4.9	103	69
		Fire rated c/w st. st. wrap	223	8.8	1.5	4.9	111	75					
		104	4.0	Standard	690	10,000	1,035	15,000	2.25	124	4.9	1.4	4.6
Standard c/w st. st. wrap	130			5.1						1.4	4.6	103	69
Fire rated	237			9.3						1.5	4.9	104	70
Fire rated c/w st. st. wrap	243			9.6						1.5	4.9	112	75

As per API Spec. 16C with PA lining

Inside Diameter		Type	Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (operation)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	kg/m	lb/ft
78	3.0	Standard	690	10,000	1,035	15,000	2.25	168	6.6	0.9	3.0	49	33
		Standard c/w st. st. wrap						180	7.1	0.9	3.0	56	38
		Fire rated						182	7.2	1.0	3.3	56	38
		Fire rated c/w st. st. wrap	193	7.6	1.0	3.3	63	42					
		Standard	1,035	15,000	1,552	22,500	2.25	208	8.2	1.4	4.6	90	61
		Standard c/w st. st. wrap						219	8.6	1.4	4.6	98	66
		Fire rated						218	8.6	1.5	4.9	97	65
		Fire rated c/w st. st. wrap	230	9.1	1.5	4.9	106	71					
		104	4.0	Standard	690	10,000	1,035	15,000	2.25	219	8.6	1.4	4.6
Standard c/w st. st. wrap	230			9.1						1.4	4.6	98	66
Fire rated	232			9.1						1.5	4.9	98	66
Fire rated c/w st. st. wrap	243			9.6						1.5	4.9	108	73

Burner/Flare Boom Hose

Standard

API Spec. 17K

Construction

Bore type	full flow, rough bore
Liner material	H ₂ S resistant HNBR
Operating temperature	-30°C to +90°C (-22°F to 194°F)
Max. available length	60m (200ft)

Features & Comments

- Designed to connect the production test manifold to the burner / flare boom
- Coupling materials meet NACE MR 01-75 / ISO 15156 latest edition
- Material of the end fittings is either carbon steel or duplex
- Material of the internal carcass is either 316L or 254 SMO



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (static)	MBR (dynamic)		Weight		
mm	in		bar	psi	bar	psi		mm	in		m	ft	m	ft	kg/m
76	3.0	Fire rated	207	3000	310	4500	2.25	179	7.05	1.1	3.6	15	4.9	46	31
		Fire rated c/w st. st. wrap						185	7.28	1.1	3.6	15	4.9	53	36
		Fire rated	345	5000	517	7500	2.25	197	7.76	1.2	3.9	17	5.6	65	44
		Fire rated c/w st. st. wrap						208	8.19	1.2	3.9	17	5.6	73	49
102	4.0	Fire rated	207	3000	310	4500	2.25	205	8.07	1.4	4.6	18	5.9	57	38
		Fire rated c/w st. st. wrap						211	8.31	1.4	4.6	18	5.9	64	43
		Fire rated	345	5000	517	7500	2.25	223	8.78	1.5	4.9	2.0	6.6	79	53
		Fire rated c/w st. st. wrap						234	9.21	1.5	4.9	2.0	6.6	88	59
130	5.0	Fire rated	207	3000	310	4500	2.25	249	9.80	1.5	4.9	2.0	6.6	92	62
		Fire rated c/w st. st. wrap						261	10.28	1.5	4.9	2.0	6.6	102	69
		Fire rated	345	5000	517	7500	2.25	252	9.92	1.6	5.3	2.1	6.9	97	65
		Fire rated c/w st. st. wrap						263	10.35	1.6	5.3	2.1	6.9	107	72
152	6.0	Fire rated	207	3000	310	4500	2.25	259	10.20	1.6	5.3	2.1	6.9	79	53
		Fire rated c/w st. st. wrap						270	10.63	1.6	5.3	2.1	6.9	89	60
		Fire rated	345	5000	518	7500	2.25	279	10.98	1.9	6.2	2.6	8.5	112	75
		Fire rated c/w st. st. wrap						291	11.46	1.9	6.2	2.6	8.5	124	83

Riser Tensioner Hose

Standard

API Spec. 17K

Construction

Bore type full flow, rough bore
 Liner material H₂S resistant HNBR
 Operating temperature -30°C to +70°C (-22°F to 158°F)
 Max. available length 60m (200ft)

Features & Comments

- Used for transporting hydraulic fluid between gas filled accumulators and large hydraulic cylinders. Although they are not in direct contact with pressurised gas, the hydraulic fluid will invariably contain dissolved gas after some time, even in configurations with pistons between the gas and the liquid phase. There is a clear risk that this dissolved gas can cause collapse of the hose liner and ultimate failure following decompression. Since API 7K does not include gas exposure testing, it should not be considered for riser tensioner hose applications.
- Oil and glycol resistant liner



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (static)		MBR (dynamic)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft
152	6.0	Fire rated	207	3,000	310	4,500	2.5	257	10.1	1.6	5.3	1.8	5.9	72	48
		Fire rated	517	7,500	776	11,250	2.25	278	10.9	1.9	6.2	2.6	8.5	112	75
207	8.0	Fire rated	345	5,000	517	7,500	2.25	331	13.0	2.4	7.9	3.2	10.5	139	93

Drill String Compensator Hose

Standard

API Spec. 17K

Construction

Bore type	full flow, rough bore
Liner material	H ₂ S resistant HNBR
Operating temperature	-30°C to +90°C (-22°F to 194°F)
Max. available length	60m (200ft)

Features & Comments

- Used for hydro-pneumatic medium transport to the drill string compensator cylinder to isolate the heaving motion of the rig from the drill string



Technical Data

Inside Diameter		Type	Rated Working Pressure		Test Pressure		Safety Factor (WP)	Outer Diameter		MBR (static)		MBR (dynamic)		Weight	
mm	in		bar	psi	bar	psi		mm	in	m	ft	m	ft	kg/m	lb/ft
53	2.0	Standard	207	3,000	310	4,500	2.25	130	5.1	0.8	2.6	1.1	3.6	46	31
		Standard	345	5,000	517	7,500	2.25	148	5.8	0.9	3.0	1.2	3.9	39	26
65	2.5	Standard	207	3,000	310	4,500	2.25	142	5.6	0.9	3.0	1.2	3.9	29	20
		Standard	345	5,000	517	7,500	2.25	159	6.3	0.9	3.0	1.2	3.9	44	30
78	3.0	Standard	207	3,000	310	4,500	2.25	158	6.2	1.0	3.3	1.4	4.6	39	26
		Standard	345	5,000	517	7,500	2.25	176	6.9	1.1	3.6	1.5	4.9	54	36
92	3.5	Standard	207	3,000	310	4,500	2.25	173	6.8	1.1	3.6	1.5	4.9	41	28
		Standard	345	5,000	517	7,500	2.25	190	7.5	1.2	3.9	1.7	5.6	60	40
103	4.0	Standard	207	3,000	310	4,500	2.25	184	7.2	1.2	3.9	1.7	5.6	45	30
		Standard	345	5,000	517	7,500	2.25	202	8.0	1.4	4.6	1.8	5.9	67	45
127	5.0	Standard	207	3,000	310	4,500	2.25	211	8.3	1.4	4.6	1.8	5.9	54	36
		Standard	345	5,000	517	7,500	2.25	231	9.1	1.5	4.9	2.0	6.6	83	56
152	6.0	Standard	207	3,000	310	4,500	2.25	236	9.3	1.6	5.3	2.1	6.9	63	42
		Standard	345	5,000	517	7,500	2.25	257	10.1	1.8	5.9	2.4	7.9	96	65

Chemical Compatibility Table - °C

Medium	Product Lining				
	Tauro™Cool	NBR	HNBR	PA	TauroFlon™
Crude oil	82°C	100°C	100°C	100°C	130°C
Diesel oil	82°C	100°C	121°C	130°C	130°C
Water based mud	82°C	90°C	90°C	50°C 90°C	130°C
Oil based mud	82°C	100°C	121°C	130°C	130°C
Ester based mud	82°C	90°C			130°C
Xylene			66°C	66°C 100°C	130°C
Methanol	NR	25°C 40°C	25°C	50°C 90°C	130°C
Glycol	70°C	70°C	70°C	70°C	100°C
Hydrogen sulphide (<20%)			60°C 90°C	130°C	130°C
Zinc bromide (40%)	30°C 82°C	30°C 90°C	30°C 50°C	25°C 50°C	130°C
Zinc bromide (saturated)	30°C	30°C	30°C 50°C	25°C 50°C	130°C
Calcium bromide (25%)	30°C 50°C	30°C 50°C	90°C	50°C 90°C	130°C
Calcium bromide (saturated)	30°C 50°C	30°C 50°C	90°C	50°C 90°C	130°C
Cesium formate (saturated)	82°C	100°C	100°C 121°C	50°C 100°C	130°C
Potassium formate (75%)	82°C	100°C	100°C 121°C	50°C 100°C	130°C
Acetic acid (20%)	82°C	90°C	90°C	50°C 90°C	130°C
Acetic acid (96%)	50°C	50°C 90°C	50°C 90°C	25°C 50°C	130°C
Formic acid	50°C 82°C	30°C 50°C	50°C 90°C	25°C 50°C	130°C
Hydrochloric acid (15%)	60°C 82°C	60°C 90°C	30°C 60°C	25°C 50°C	130°C
Hydrochloric acid (37%)	30°C	30°C	30°C	NR	130°C
Hydrofluoric acid (3%)	30°C	NR	30°C	25°C 60°C	130°C
Hydrofluoric acid (10%)	NR	NR	30°C	25°C 60°C	130°C
Sodium hydroxide (20%)				50°C	66°C
Produced water	82°C	100°C	121°C	50°C 90°C	130°C

Key: max. operating temperature for unlimited application max. operating temperature for limited application NR - not recommended

Chemical Compatibility Table - °F

Medium	Product Lining									
	Tauro™Cool		NBR		HNBR		PA		TauroFlon™	
Crude oil	180°F		212°F		212°F		212°F		266°F	
Diesel oil	180°F		212°F		250°F		266°F		266°F	
Water based mud	180°F		200°F		200°F		122°F 200°F		266°F	
Oil based mud	180°F		212°F		250°F		266°F		266°F	
Ester based mud	180°F		200°F						266°F	
Xylene					150°F		150°F 212°F		266°F	
Methanol	NR		75°F 100°F		75°F		122°F 200°F		266°F	
Glycol	160°F		160°F		160°F		160°F		212°F	
Hydrogen sulphide (<20%)					140°F 200°F		266°F		266°F	
Zinc bromide (40%)	90°F 180°F		90°F 200°F		90°F 122°F		75°F 122°F		266°F	
Zinc bromide (saturated)	90°F		90°F		90°F 122°F		125°F 122°F		266°F	
Calcium bromide (25%)	90°F 122°F		90°F 122°F		200°F		122°F 200°F		266°F	
Calcium bromide (saturated)	90°F 122°F		90°F 122°F		200°F		122°F 200°F		266°F	
Cesium formate (saturated)	180°F		212°F		212°F 250°F		122°F 212°F		266°F	
Potassium formate (75%)	180°F		212°F		212°F 250°F		122°F 212°F		266°F	
Acetic acid (20%)	180°F		200°F		200°F		122°F 200°F		266°F	
Acetic acid (96%)	122°F		122°F 200°F		122°F 200°F		75°F 122°F		266°F	
Formic acid	122°F 180°F		90°F 122°F		122°F 200°F		75°F 122°F		266°F	
Hydrochloric acid (15%)	140°F 180°F		140°F 200°F		90°F 140°F		75°F 122°F		266°F	
Hydrochloric acid (37%)	90°F		90°F		90°F		NR		266°F	
Hydrofluoric acid (3%)	90°F		NR		90°F		75°F 140°F		266°F	
Hydrofluoric acid (10%)	NR		NR		90°F		75°F 140°F		266°F	
Sodium hydroxide (20%)							122°F		150°F	
Produced water	180°F		212°F		250°F		122°F 200°F		250°F	

Key: max. operating temperature for unlimited application max. operating temperature for limited application NR - not recommended



Hose Management Services

tailored, expert solutions for the maintenance
of your flexible hose assemblies

Ensuring the safe and reliable operation of your flexible hose assemblies, whether in offshore or onshore installations, is essential. Effective hose management not only ensures your operation will continue to run smoothly, but will also eliminate any potential safety or environmental issues and reduce downtime to keep your productivity levels high.

Continental is a world leader in the manufacture of high-pressure drilling and bonded production hoses, crude oil transfer hoses as well as utility and hydraulic assemblies designed specifically for the oil and gas industry. Our expertise and knowledge in this field is unrivalled. With this in-depth capability we have helped to develop the industry standards and guidelines for best practice in the field of integrity management for flexible hose assemblies.

International oil and gas producers and operators across the globe rely on Continental throughout the lifecycle of their flexible hose assemblies, from design and specification through supply to full management of their fluid transfer systems in operation.

We can help you with a number of services, all designed to offer you peace of mind as standard. These are:

Inspection, Testing & Repair

A complete range of inspection and testing services - including:

- inspection and repair of external protection, rubber cover and end fitting painting
- high pressure hydrostatic testing,
- boroscope inspection of the internal carcass or liner
- recertification

Test and inspection can be carried out in dedicated facilities in a number of strategic locations worldwide, or we can come to your preferred location. In addition, we inspect and maintain reeling systems, such as bunker stations or offloading systems.

Inventory Management

An instant overview of all flexible hose assemblies on all of your installations worldwide: ContiConnect is a web-based inventory management program designed for your peace of mind. Being able to see the current status of your FHAs at the click of a button means you can schedule maintenance, order timely replacements and ensure trouble-free operations.

Installation and Commissioning

With our in-depth expertise in all aspects of fluid transfer in the oil and gas industry, we are your first-choice partner for advising and assisting in the specification, installation, commissioning and change-out of flexible hose assemblies and systems, including high-pressure drilling, production, utility, GMPHOM 2009, turret and FPSO seawater intake hoses and also reeling stations.

Hose failure analysis

We carry out various investigations on damaged high-pressure hoses or hose parts at our facility, to reveal the possible causes of damage and propose necessary actions to avoid similar failures in the future.

Quality

We as part of the Continental group are committed to quality and respect for the environment. We work closely with customers and approved suppliers to ensure the highest quality standards. The quality management system is in accordance with ISO 9001 and API Spec. Q1. The system's performance is regularly checked and audited by independent auditors.

The system's performance is regularly checked and audited by independent auditors. Currently the Company's Quality Management System is approved and certified by Dekra and API.

Our products fully comply with the latest edition of API Spec. 7K, API Spec. 16C and API Spec. 17K standards.

Continental was the first and for many years the only high pressure bonded hose manufacturer certified for all three relevant standards. Hose sizes range from 2" to 16" with pressure ratings up to 20,000psi.

The environmental thinking of the management and the employees is reflected by their daily activities and documented by the ISO 14001 environmental management system applied in the company.



Continental Global Leaders in Hose Solutions



Marine Hoses



Dock Hoses



Sea-Water Intake Systems



Dredge Hose Systems



Industrial Hoses



Deep Sea Mining



Hose Management



Intelligent Hoses

Continental

The global partner of choice for industrial fluid product systems and services. For combined solutions - smart and sustainable.

Our products are created to the very specific needs of our customer's applications in nearly all industries. This results in hoses and hose systems for the construction industry, the food and drinks industry, for chemical and petrochemical production operations, oil & gas exploration, water treatment, mining, steel production and mechanical engineering.

Continental is made up of a host of sites across the globe and together boast an excellent track record in providing customised solutions in the most diverse environmental conditions in the world.

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The Continental Corporation is a development partner and original equipment supplier to numerous industries for high-quality functional parts, components and systems. With its know-how in rubber and plastics technology,

We contribute significantly to industrial progress and mobility that is safe, comfortable and eco-friendly.

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