



# *Techfluid*

Manufacturers of Flexible Hose





**Techfluid Group** specialise in the design, manufacture and supply of flexibles hoses to the Oil and Gas Exploration and Production Industries. We manufacture a comprehensive range of hoses and couplings for fluid transfer, where applicable DNV and ABS approvals are held. Additionally, we offer the complete service from FEED studies to installation, hose management inspection and testing services.



▶ High Pressure Drilling Hose



▶ Hyd Tensioner Hose



▶ Industrial Hose



▶ Bunkering Hose



▶ Drag Chain Hose



▶ Firewater Mains Hose



▶ Hyd BOP Control Hose & QD Couplings



▶ Heat Trace Hose



▶ Fracking Hose



▶ API 17K Production & MPD Hoses



### Hose Selection

#### API High Pressure Series

Mud & Cement Hose  
Choke & Kill Hose  
Hydraulic Tensioner Hose  
Production Jumper Hose  
Managed Pressure Drilling Hose  
Underbalanced Drilling Hose  
Jetting Hose

#### Fire-Rated Series

BOP Hydraulic 5000 Hose  
Quick Connect Coupling QD50  
Fire-Rated Oil Hose  
Fire-Rated Seawater Hose

#### Industrial Hose Series

Oil Delivery Hose  
Bulk Delivery Hose  
Bulk Material Handling Hose  
Oil Suction & Delivery Hose  
Potable Water Hose  
Air Hose  
Chemical Hose for Discharge  
Chemical Suction Hose  
Nitrogen Hose  
Concrete Conveying Hose

#### Specialist Selection

Integral Floating Hose  
Heat Trace Hose  
Fracking Hoses





## Drilling & Production Hose Selection

Techfluid manufactures its own bonded rubber Mud, Cement, Choke & Kill and Tensioner hoses with spirally laid high tensile steel cable reinforcement and one-piece bonded in end couplings. The hoses are mandrel built in continuous lengths up to 70 metres and vulcanised to form a fully bonded hose offering high integrity and excellent flexibility. Our range covers working pressures up to 15,000psi in sizes up to 16".

### ▶ High-Pressure Mud Hose

Product No: NJG-SZ | NNG-SZ  
 Standard: API 7K FSL 2  
 License No: 7K-0106



### ▶ High-Pressure Cement Hose

Product No: SNG-SZ | NSG-SZ  
 Standard: API 7K FSL 0  
 License No: 7K-0106



### ▶ High-Pressure Fire-Rated Tensioner Hose

Product No: HNG-SZ  
 Standard: API 7K / API 17K  
 License No: 7K-0106 / 17K-0008



### ▶ High-Pressure Choke & Kill Hose

Product No: JYG-SZ  
 Standard: API 16C FSL 3  
 License No: 16C-0413



### ▶ High-Pressure Underbalanced Drilling Hose

Product No: UDG-SZ  
 Standard: API 7K FSL 1  
 License No: 7K-0106



### ▶ High-Pressure 17K Production Jumper

Product No: KRG-SZ  
 Standard: API 17K  
 License No: 17K-0008



Standard:	API 7K FSL 2
API Monogram No:	7K-0106
Tube:	NBR Smooth Bore
Reinforcement:	High Strength Steel Cable
Cover:	Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, designed for marine environment.
Working temp:	-25 to + 100° C
Length:	Maximum length: 70m
Length tolerance:	Length up to 6.4m, with tolerance $\pm 64$ mm; Length longer than 6.4m with tolerance $\pm 1\%$
Fire proof Standard:	Standard hoses meet fire proof grade SR6A, which is 704°C $\times$ 5min Fire-Rated Hoses supplied as per request with extra fire protection layers, meets fire proof grade SR6B, which is 704°C $\times$ 30 min as per API 16C
Bend Radius:	Measured to centre line of the hose
Options over standard hose:	Embedded electric heat trace cable is available upon request for low temperature operating condition. Different option of external protection layer is available on request or by our recommendation according to individual operation condition, for example, stainless steel armour outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.

Type	API Grade	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Fire Rated 30mins	Safety Factor	FSL	MBR(storage) (m)	MBR(operation) (m)	Weight Kg/m	Length Max (m)
		(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)							
NJG-SZ-51x34.5	D	2	51	3.58	91	345	5,000	517	7,500	No	2.5	FSL2	0.8	0.9	11.24	70
NNG-SZ-51x34.5	D	2	51	4.17	106	345	5,000	517	7,500	Yes	2.5	FSL2	0.8	0.9	15	70
NJG-SZ-64x34.5	D	2.5	64	4.06	103	345	5,000	517	7,500	No	2.5	FSL2	0.8	0.9	13	70
NNG-SZ-64x34.5	D	2.5	64	4.65	118	345	5,000	517	7,500	Yes	2.5	FSL2	0.8	0.9	16	70
NJG-SZ-76x34.5	D	3	76	4.72	120	345	5,000	517	7,500	No	2.5	FSL2	1.1	1.2	18	70
NNG-SZ-76x34.5	D	3	76	5.28	134	345	5,000	517	7,500	Yes	2.5	FSL2	1.1	1.2	20	70
NJG-SZ-89x34.5	D	3.5	89	5.28	134	345	5,000	517	7,500	No	2.5	FSL2	1.2	1.3	21	70
NNG-SZ-89x34.5	D	3.5	89	5.75	146	345	5,000	517	7,500	Yes	2.5	FSL2	1.2	1.3	25	70
NJG-SZ-102x34.5	D	4	102	6.3	160	345	5,000	517	7,500	No	2.5	FSL2	1.2	1.4	35	70
NNG-SZ-102x34.5	D	4	102	6.8	173	345	5,000	517	7,500	Yes	2.5	FSL2	1.2	1.4	38	70
NJG-SZ-127x34.5	D	5	127	7.52	191	345	5,000	517	7,500	No	2.5	FSL2	1.4	1.5	51	70
NNG-SZ-127x34.5	D	5	127	8.07	205	345	5,000	517	7,500	Yes	2.5	FSL2	1.4	1.5	56	70
NJG-SZ-152x34.5	D	6	152	8.82	224	345	5,000	517	7,500	No	2.5	FSL2	1.6	1.8	57	70
NNG-SZ-51x51.7	E	2	51	4.06	103	517	7,500	776	11,250	No	2.5	FSL2	1.1	1.2	19	70
NJG-SZ-64x51.7	E	2.5	64	4.88	124	517	7,500	776	11,250	No	2.5	FSL2	1.1	1.2	28	70
NNG-SZ-64x51.7	E	2.5	64	5.35	136	517	7,500	776	11,250	Yes	2.5	FSL2	1.1	1.2	31	70
NJG-SZ-76x51.7	E	3	76	5.43	138	517	7,500	776	11,250	No	2.5	FSL2	1.2	1.3	31	70
NNG-SZ-76x51.7	E	3	76	5.98	152	517	7,500	776	11,250	Yes	2.5	FSL2	1.2	1.3	35	70
NJG-SZ-89x51.7	E	3.5	89	5.94	151	517	7,500	776	11,250	No	2.5	FSL2	1.3	1.4	38	70
NNG-SZ-89x51.7	E	3.5	89	6.57	167	517	7,500	776	11,250	Yes	2.5	FSL2	1.3	1.4	42	70
NJG-SZ-102x51.7	E	4	102	6.61	160	517	7,500	776	11,250	No	2.5	FSL2	1.4	1.4	44	70
NNG-SZ-102x51.7	E	4	102	7.17	182	517	7,500	776	11,250	Yes	2.5	FSL2	1.4	1.5	50	70
NJG-SZ-127x51.7	E	5	127	8.03	204	517	7,500	776	11,250	No	2.5	FSL2	1.5	1.6	64	70
NNG-SZ-127x51.7	E	5	127	8.58	218	517	7,500	776	11,250	Yes	2.5	FSL2	1.5	1.6	69	70
NJG-SZ-152x51.7	E	6	152	9.76	248	517	7,500	776	11,250	No	2.5	FSL2	1.6	1.8	92	70

Standard:	API 7K FSL 0
API Monogram No:	7K-0106
Tube:	CR Rubber Smooth Bore
Reinforcement:	High Strength Steel Cable
Cover:	Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, designed for marine environment.
Working temp:	-25 to + 100° C
Length:	Maximum length: 70m
Length tolerance:	Length up to 6.4m, with tolerance $\pm 64$ mm; Length longer than 6.4m with tolerance $\pm 1\%$
Fire proof Standard:	Standard hoses meet fire proof grade SR6A, which is 704°C $\times$ 5min Fire-Rated Hoses supplied as per request with extra fire protection layers, meets fire proof grade SR6B, which is 704°C $\times$ 30 min as per API 16C
Bend Radius:	Measured to centre line of the hose Embedded electric heat trace cable is available upon request for low temperature operating condition.
Options over standard hose:	Different option of external protection layer is available on request or by our recommendation according to individual operation condition, for example, stainless steel armour outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.

Type	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Fire Rated 30 mins	Safety Factor	FSL	MBR (storage) (m)	MBR (operation) (m)	Weight Kg/m	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)							
SNG-SZ-51×69	2	51	4.06	103	690	10,000	1,034	15,000	No	2.25	FSL0	1.1	1.2	19	70
NSG-SZ-51×69	2	51	4.69	119	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.1	1.2	22.7	70
SNG-SZ-64×69	2.5	64	4.94	125.5	690	10,000	1,034	15,000	No	2.25	FSL0	1.2	1.3	29	70
NSG-SZ-64×69	2.5	64	5.57	141.5	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.2	1.3	33	70
SNG-SZ-76×69	3	76	5.98	152	690	10,000	1,034	15,000	No	2.25	FSL0	1.3	1.4	45	70
NSG-SZ-76×69	3	76	6.5	165	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.3	1.4	48.5	70
SNG-SZ-102×69	4	102	6.42	163	690	10,000	1,034	15,000	No	2.25	FSL0	1.4	1.5	41	70
NSG-SZ-102×69	4	102	6.93	176	690	10,000	1,034	15,000	Yes	2.25	FSL0	1.4	1.5	44	70
SNG-SZ-51×103.4	2	51	4.57	116	1,034	15,000	1,552	22,500	No	2.25	FSL0	1.3	1.4	27	70
NSG-SZ-51×103.4	2	51	5.08	129	1,034	15,000	1,552	22,500	Yes	2.25	FSL0	1.3	1.4	30	70
SNG-SZ-64×103.4	2.5	64	5.91	150	1,034	15,000	1,552	22,500	No	2.25	FSL0	1.4	1.5	48	70
NSG-SZ-64×103.4	2.5	64	6.42	163	1,034	15,000	1,552	22,500	Yes	2.25	FSL0	1.4	1.5	51	70
SNG-SZ-76×103.4	3	76	6.61	168	1,034	15,000	1,552	22,500	No	2.25	FSL0	1.5	1.6	59	70
NSG-SZ-76×103.4	3	76	7.13	181	1,034	15,000	1,552	22,500	Yes	2.25	FSL0	1.5	1.6	62	70



Standard:	API 7K or API 17K
API Monogram No:	7K-0106 / 17K-0008
Tube:	Stainless steel carcass + NBR or HNBR rubber based compound
Reinforcement:	High Strength Steel Cable
Cover:	Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, designed for marine environment.
Working temp:	-25°C to + 82°C
Length:	Maximum length: 60m
Length tolerance:	6.4m ± 64 mm and below, length longer than 6.4m tolerance ± 1%
Fire proof Layers:	Supplied with extra fire protection layers to meet fire-proof requirement of API 16C, which is 704°C × 30 minutes
Bend Radius:	Measured to centre line of the hose
Extra external protection options over standard hose:	Embedded wire helix in cover Polyethylene spiral guard Stainless Steel outer wrap armour

Type	Internal Diameter		Outside Diameter		Working Pressure		Burst Pressure		Fire Rated 30 mins	Safety Factor	MBR (storage) (m)	MBR (operation) (m)	Weight (Kg/m)	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)						
NHG-SZ-102x21	4	102	7.64	194	207	3,000	517	7,500	Yes	2.5	1.4	1.6	57.6	70
NHG-SZ-152x21	6	152	8.94	227	207	3,000	517	7,500	Yes	2.5	1.6	1.8	82	70
NHG-SZ-203x21	8	203	11.81	300	207	3,000	517	7,500	Yes	2.5	2.0	2.2	100	55



## Technical Data: Choke & Kill Hose (Standard Temperature)

Standard	API 16C FSL 3
API Monogram No	16C-0413
Tube	H <sub>2</sub> S Resistant PA
Reinforcement	High Strength Steel Cable
Cover	Neoprene, oil resistance, ozone & ageing resistance, UV resistance, flame resistant, designed for marine environment.
Working temp	-25°C to + 100°C
Survival Temperature	177°C (350°F) for at least 1 hour
Length	Maximum length: 70m
Length tolerance	Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4m with tolerance ± 1%
Fire Resistance	Hose meets fire proof grade SR6A, which is 704°C x5min Fire-Rated Hose supplied as per request with extra fire protection layers, meets fire proof grade SR6B, which is 704°C x 30min as per API 16C.
Verification Test	Hose has passed all API 16C Clause B12 Verification tests, i.e. Gas Exposure, Fire, & High-Temp Exposure Tests
Metal Connectors	Meet NACE MR0175 / ISO 15156
Bend Radius	Measured to centre line of the hose
Optional Extras Available	Embedded electric heat trace cable for extremely cold environment. Additional external protection to protect hose in harsh operating environment: External stainless steel carcass, or Embedded stainless steel wire under cover, or Polyethylene spiral-guard

Type	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Fire Rated 30 mins	Safety Factor	FSL	MBR (storage) (m)	MBR (operation) (m)	Weight Kg/m	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)							
JYG-SZ-51x34.5	2	51	5.12	130	345	5,000	517	7,500	Yes	2.25	FSL3	0.8	0.9	27.5	70
JYG-SZ-51x69	2	51	5.31	135	690	10,000	1,034	15,000	Yes	2.25	FSL3	0.9	1.0	30.2	70
JYG-SZ-51x103.4	2	51	5.87	149	1,034	15,000	1,552	22,500	Yes	2.25	FSL3	1.2	1.3	44.8	70
JYG-SZ-63X34.5	2.5	64	5.35	136	345	5,000	517	7,500	Yes	2.25	FSL3	0.9	1.0	34	70
JYG-SZ-63X69	2.5	64	6.30	160	690	10,000	1,034	15,000	Yes	2.25	FSL3	1.0	1.1	36	70
JYG-SZ-63X103.4	2.5	64	7.00	178	1,034	15,000	1,552	22,500	Yes	2.25	FSL3	1.3	1.4	53	70
JYG-SZ-76x34.5	3	76	6.06	154	345	5,000	517	7,500	Yes	2.25	FSL3	1.1	1.2	38.0	70
JYG-SZ-76x69	3	76	6.30	160	690	10,000	1,034	15,000	Yes	2.25	FSL3	1.4	1.5	39.6	70
JYG-SZ-76x103.4	3	76	7.60	182	1,034	15,000	1,552	22,500	Yes	2.25	FSL3	1.5	1.7	59.7	70



## Technical Data: Choke & Kill Hose (High Temperature)

Standard	API 16C FSL 3
API Monogram No	16C-0413
Tube	H <sub>2</sub> S Resistant PA c/w Rough Bore Inner Carcass
Reinforcement	High Strength Steel Cable
Cover	Neoprene, oil resistance, ozone & ageing resistance, UV resistance, flame resistant, designed for marine environment.
Working temp	-25°C to + 130°C
Survival Temperature	177°C (350°F) for at least 1 hour
Length	Maximum length: 70m
Length tolerance	Length up to 6.4m, with tolerance ± 64 mm; Length longer than 6.4m with tolerance ± 1%
Fire Resistance	Hose meets fire proof grade SR6A, which is 704°C ×5min Fire-Rated Hose supplied as per request with extra fire protection layers, meets fire proof grade SR6B, which is 704°C × 30min as per API 16C.
Verification Test	Hose has passed all API 16C Clause B12 Verification tests, i.e. Gas Exposure, Fire, & High-Temp Exposure Tests
Metal Connectors	Meet NACE MR0175 / ISO 15156
Bend Radius	Measured to centre line of the hose
Optional Extras Available	Embedded electric heat trace cable for extremely cold environment. Additional external protection to protect hose in harsh operating environment: External stainless steel carcass, or Embedded stainless steel wire under cover, or Polyethylene spiral-guard

Type	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Fire Rated 30 mins	Armored	Safety Factor	FSL	MBR (storage) (m)	MBR (operation) (m)	Weight Kg/m	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)								
JGG-SZ-51x34.5	2	51	5.47	139	345	5,000	517	7,500	Yes	Yes	2.25	FSL3	0.9	1.0	31.8	70
JGG-SZ-51x69	2	51	5.67	144	690	10,000	1,034	15,000	Yes	Yes	2.25	FSL3	0.9	1.0	34.0	70
JGG-SZ-51x103.4	2	51	6.38	162	1,034	15,000	1,552	22,500	Yes	Yes	2.25	FSL3	1.2	1.3	51.6	70
JGG-SZ-63x34.5	2.5	64	5.74	146	345	5,000	517	7,500	Yes	Yes	2.25	FSL3	0.9	1.0	38	70
JGG-SZ-63x69	2.5	64	6.41	163	690	10,000	1,034	15,000	Yes	Yes	2.25	FSL3	1.2	1.3	42	70
JGG-SZ-63x103.4	2.5	64	7.12	181	1,034	15,000	1,552	22,500	Yes	Yes	2.25	FSL3	1.3	1.4	61	70
JGG-SZ-76x34.5	3	76	6.5	165	345	5,000	517	7,500	Yes	Yes	2.25	FSL3	1.2	1.3	42.6	70
JGG-SZ-76x69	3	76	6.77	172	690	10,000	1,034	15,000	Yes	Yes	2.25	FSL3	1.4	1.5	46.5	70
JGG-SZ-76x103.4	3	76	7.68	195	1,034	15,000	1,552	22,500	Yes	Yes	2.25	FSL3	1.5	1.7	68.3	70
JGG-SZ-102x69	4	102	8.70	221	690	10,000	1,034	15,000	Yes	Yes	2.25	FSL3	1.6	1.9	85	70



Standard:	API 7K
API Monogram No:	7K-0106
Tube:	Polymer liner, HNBR inner rubber layer, oil resistance, corrosion resistance, high temperature resistance, gas permeation resistance
Reinforcement:	High Strength Steel Cable
Cover:	Neoprene rubber based cover, fire-proof, wear resistance, oil resistance, ozone ageing resistant and ultraviolet light and applicable to marine environment.
Working temp:	-25°C to + 100°C
Length:	Maximum length: 70m
Length tolerance:	6.4m ± 64 mm and below, length longer than 6.4m tolerance ± 1%
Fire proof Standard:	Hose meets fire proof grade SR6A, which is 704°C × 5min Fire-Rated Hose supplied as per request with extra fire protection layers, meets fire proof grade SR6B, which is 704°C × 30min as per API 16C.
Bend Radius:	Measured to centre line of the hose
External Protection Layer:	Embedded electric heat trace cable is available upon request for low temperature operating condition. Different option of external protection layer is available on request or by our recommendation according to individual operation condition, for example, stainless steel armour outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.

Type	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Safety Factor	MBR (Storage) (m)	MBR (Operation) (m)	Weight (Kg/m)	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)					
UDG-SZ-51x34.5	2	51	4.17	106	345	5,000	690	10,000	2.5	0.8	0.9	10	70
UDG-SZ-64x34.5	2 ½	64	4.6	118	345	5,000	690	10,000	2.5	0.9	1.0	16	70
UDG-SZ-64x51.7	2 ½	64	5.35	136	517	7,500	1,034	15,000	2.5	1.0	1.2	23	70
UDG-SZ-76x34.5	3	76	5.28	134	345	5,000	690	10,000	2.5	1.0	1.2	18	70
UDG-SZ-76x51.7	3	76	5.98	152	517	7,500	1,034	15,000	2.5	1.1	1.3	32	70
UDG-SZ-89x34.5	3 ½	89	5.75	138	345	5,000	690	10,000	2.5	1.2	1.4	22	70
UDG-SZ-89x51.7	3 ½	89	6.57	167	517	7,500	1,034	15,000	2.5	1.3	1.5	37	70
UDG-SZ-102x34.5	4	102	6.8	173	345	5,000	690	10,000	2.5	1.3	1.5	35	70
UDG-SZ-102x51.7	4	102	7.08	168	517	7,500	1,034	15,000	2.5	1.4	1.6	41	70
UDG-SZ-127x34.5	5	127	8.11	206	345	5,000	690	10,000	2.5	1.5	1.6	54	70
UDG-SZ-127x51.7	5	127	8.66	220	517	7,500	1,034	15,000	2.5	1.5	1.7	68	70



Standard:	API 17K
API Monogram No:	17K-0008
Tube:	Stainless steel carcass + HNBR or PA
Reinforcement:	High strength steel cable
Cover:	Neoprene rubber based cover layers, fire resistance, oil resistance, ozone & ageing resistance, UV resistance which is applicable for critical marine environment
Working temp:	-25°C to + 100°C
Max Content H <sub>2</sub> S:	Up to 3,000ppm while temperature at 60°C, Max.1,000ppm while temperature at 10°C
Length:	Maximum length: 70m
Length tolerance:	6.4m ± 64 mm and below, length longer than 6.4m tolerance ± 1%
Bend Radius:	Measured to centre line of the hose
External Protection Layer:	Can be equipped with stainless steel armour, stainless steel wire and polyethylene spiral sleeve, etc. according to customer requirement.

Type	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Fire Rated 30 mins	Safety Factor	MBR (storage) (m)	MBR (operation) (m)	Weight Kg/m	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)						
KRG-SZ-51x21	2	51	5.1	128	207	3,000	310.5	4,500	Yes	2.25	0.90	1.00	28	70
KRG-SZ-51x34.5	2	51	5.5	136	345	5,000	517.5	7,500	Yes	2.25	1.00	1.10	32	70
KRG-SZ-76x21	3	76	6.0	153	207	3,000	310.5	4,500	Yes	2.25	1.10	1.30	32	70
KRG-SZ-76x34.5	3	76	6.4	163	345	5,000	517.5	7,500	Yes	2.25	1.20	1.40	41	70
KRG-SZ-102x21	4	102	7.8	198	207	3,000	310.5	4,500	Yes	2.25	1.30	1.50	66	70
KRG-SZ-102x34.5	4	102	8.4	212	345	5,000	517.5	7,500	Yes	2.25	1.40	1.60	71	70
KRG-SZ-127x21	5	127	8.8	223	307	3,000	310.5	4,500	Yes	2.25	1.50	1.70	80	70
KRG-SZ-127x34.5	5	127	9.5	237	345	5,000	517.5	7,500	Yes	2.25	1.60	1.80	90	70
KRG-SZ-152x21	6	152	9.8	249	207	3,000	310.5	4,500	Yes	2.25	1.75	2.00	95	70
KRG-SZ-152x34.5	6	152	10.4	265	345	5,000	517.5	7,500	Yes	2.25	1.85	2.10	106	70
KRG-SZ-203x21	8	203	12.4	315	207	3,000	310.5	4,500	Yes	2.25	2.20	2.40	118	70
KRG-SZ-203x34.5	8	203	12.7	322	345	5,000	517.5	7,500	Yes	2.25	2.50	2.50	126	70
KRG-SZ-254-21	10	254	15.0	380	207	3,000	310.5	4,500	Yes	2.25	2.60	2.90	160	30
KRG-SZ-304-21	12	304	16.5	420	207	3,000	310.5	4,500	Yes	2.25	2.80	3.10	185	30



## Fire-Rated “Flameguard” Hoses



### ► Flameguard 5000 API 16D at 700°C for 5 minutes

Hydraulic BOP **Flameguard 5000** range is a hydraulic control hose that continues to operate whilst exposed directly to fire for a minimum of 5 minutes ensuring all well control operations can be effective in an emergency situation.

#### Hydraulic BOP 3000/5000

Name	Identification	Working Pressure	Size /ID	Size O/D	Liner
BOP Hydraulic	BH5000	345 Bar	3/8"-2"	1.02"-3.14"	Black NBR
BOP Hydraulic *Armoured	BK5000	345 Bar	3/8"-2"	1.26"-3.74"	Black NBR



### ► Flameguard 300 ISO 15540 & ISO 15541, at 800°C x 30 minutes

Fire Rated/Deluge **Flameguard 300** selection is design for emergency situations where operation must continue in fire conditions. Our fire rated range is utilised on offshore installations, the hose will continue to operate in a fire situation for a minimum of 30 minutes offering platform personnel a safe escape route in emergency situations.

#### Industrial Fire Rated Selection

Name	Identification	Working Pressure	Size /ID	Size O/D	Liner
Fire-Rated Seawater	NHG20	21 Bar	1 1/2"-10"	2.91"-12.00"	Black NBR



\*Larger bore sizes available on request



## Flameguard 5000 BOP Hydraulic WP 5000 PSI



Application	BOP hose is mainly used for hydraulic control of BOP. Operating pressure is 5000PSI. It can be directly exposed to flame for more than 5min at the temperature of 704°C, to ensure control system can be operated under emergencies.
Branding	<b>Techfluid BH5000 FLAMEGUARD BOP HYDRAULIC OIL WP 5000 PSI</b>
Hose structure:	
Tube	Black, smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance
Reinforcement	High tension steel wire
Fire shield layer	Glass fibre cloth
Cover	Red, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance
Temperature range	-40°C to + 121°C
Fire resistance	API 16D, 704°C x 5 minutes

Type	Internal Diameter		Outside Diameter		Working Pressure		Burst Pressure		Safety Factor	MBR (mm)	Weight (Kg/m)	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)				
BH506	3/8	10	1.02	26	345	5,000	1,380	20,000	4.0	152	1.3	100
BH508	½	12.5	1.18	30	345	5,000	1,380	20,000	4.0	229	1.5	100
BH5012	¾	19	1.54	39	345	5,000	1,380	20,000	4.0	305	2.0	100
BH5016	1	25	1.77	45	345	5,000	1,380	20,000	4.0	381	3.1	100
BH5020	1 ¼	32	2.28	58	345	5,000	1,380	20,000	4.0	457	4.9	60
BH5024	1 ½	38	2.48	63	345	5,000	1,380	20,000	4.0	559	5.8	60
BH5032	2	51	3.14	80	345	5,000	1,380	20,000	4.0	686	8.4	40

## BOP Hydraulic 5000 Hose (Armoured)



Application	BOP hose is mainly used for hydraulic control of BOP. Operating pressure is 5000PSI. It can be directly exposed to flame for more than 5min at the temperature of 704°C, to ensure control system can be operated under emergencies.
Hose structure:	
Tube	Black, smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance
Reinforcement	High tension steel wire
Fire shield layer	Glass fibre cloth
Cover	Black, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance
Temperature Range	-40°C to + 121°C
Fire resistance	API 16D, 704°C x 5 minutes

Type	Internal Diameter		Outside Diameter		Working Pressure		Burst Pressure		Safety Factor	MBR (mm)	Weight (Kg/m)	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)				
BK506	3/8	10	1.26	32	345	5,000	1,380	20,000	4.0	152	1.6	100
BK508	1/2	12.5	1.57	40	345	5,000	1,380	20,000	4.0	229	2.0	100
BK5012	3/4	19	1.93	49	345	5,000	1,380	20,000	4.0	305	2.6	100
BK5016	1	25	1.16	55	345	5,000	1,380	20,000	4.0	381	3.7	100
BK5020	1 1/4	32	2.67	68	345	5,000	1,380	20,000	4.0	457	6.0	60
BK5024	1 1/2	38	3.19	81	345	5,000	1,380	20,000	4.0	559	7.1	60
BK5032	2	51	3.74	95	345	5,000	1,380	20,000	4.0	686	10.0	40

## Flameguard 300 Hose



Application	Mainly used for seawater delivery in firefighting systems on offshore platforms, also can be used for delivery of gasoline, diesel oil, fuel oil with aromatic content up to 50%, mud, air and for other general purposes. It can be directly exposed to flame for more than 30 minutes at the temperature of 800°C, which enable operators to rescue and escape under emergencies.
Hose Branding	<b>Techfluid NHG20 FLAMEGUARD 300 HOSE TECHFLUID WP21 BAR</b>
Hose structure:	
Tube	Black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance.
Reinforcement	High strength steel tyre cord, anti-static copper wire, helix steel wire for hose size 6" and above.
Cover	Red CSM rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance.
Fire shield layer	Glass fibre cloth
Temperature Range	-30°C to + 100°C
Fire resistance	ISO 15540 & ISO 15541, at 800°C x 30 minutes ABS Type Approved

Type	Internal Diameter		Outside Diameter		Working Pressure		Burst Pressure		Safety Factor	MBR (mm)	Weight (Kg/m)	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)				
NHG2024	1 ½	38	2.91	74	21	305	104	1,520	5	300	3.6	70
NHG2032	2	51	3.11	79	21	305	104	1,520	5	310	4.5	70
NHG2048	3	76	4.13	105	21	305	104	1,520	5	500	6.3	70
NHG2064	4	102	5.28	134	21	305	104	1,520	5	600	9.3	70
NHG2080	5	127	6.22	158	21	305	104	1,520	5	900	12.8	70
NHG2096	6	152	7.48	190	21	305	104	1,520	5	1060	17.5	70
NHG20128	8	203	9.57	243	21	305	104	1,520	5	1,250	27.3	70
NHG20160	10	254	12.00	305	21	305	104	1,520	5	1,600	32.0	70

Larger bore sizes available on request.

## Quick Connect-Disconnect QD50 Coupling



Application	Constructed for high pressure hydraulic control for Blowout Preventor (BOP) Stacks and other heavy-duty applications.
Branding	<b>Techfluid</b> QD50
Material	Stainless Steel 316 (standard) (also available in other material)
End Connection	NPT Female Thread
Temperature Range	-40°C to +121°C
Fire Resistance	API 16D, 704°C x 5 minutes

 Type	 Coupling Size (inch)	 Material	 Working Pressure (PSI)	 End Thread Connection
QD50S6	3/8	Stainless Steel 316	5,000	3/8" NPT
QD50S8	1/2	Stainless Steel 316	5,000	1/2" NPT
QD50S12	3/4	Stainless Steel 316	5,000	3/4" NPT
QD50S16	1	Stainless Steel 316	5,000	1" NPT
QD50S20	1 1/4	Stainless Steel 316	5,000	1 1/4" NPT
QD50S24	1 1/2	Stainless Steel 316	5,000	1 1/2" NPT
QD50S32	2	Stainless Steel 316	5,000	2" NPT

## Fracking Hose

Tube	Wear resistant Synthetic Rubber with built-in high-visibility wear indicator layers
Reinforcement	High Strength Steel Cable
Cover	Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, designed for marine and harsh environment.
Working temp	-25°C to + 100°C
Length	Maximum length: 70m
Length tolerance	Length up to 6.4m, with tolerance $\pm 64$ mm; Length longer than 6.4m with tolerance $\pm 1\%$
Bend Radius	Measured to centre line of the hose
Options over standard hose	Different option of external protection layer is available on request or by our recommendation according to individual operation condition, for example, stainless steel armour outer wrap, embedded stainless steel wire in cover, or polyethylene spiral guard, etc.

## Technical Data

Type	Internal Diameter		Outside Diameter		Working Pressure		Test Pressure		Fire Rated 30mins	Safety Factor	MBR (m)	Weight (Kg/m)	Length Max (m)
	(inch)	(mm)	(inch)	(mm)	(bar)	(psi)	(bar)	(psi)					
YLG-SZ-51x103.4	2	51	4.4	113	1,035	15,000	1,552	22,500	Yes	2	0.8	25.5	70
YLG-SZ-64x103.4	2.5	64	5.1	130	1,035	15,000	1,552	22,500	Yes	2	0.9	31.2	70
YLG-SZ-68x103.4	2.7	68	5.7	146	1,035	15,000	1,552	22,500	Yes	2	1.0	41.2	70
YLG-SZ-76x103.4	3	76	6.1	155	1,035	15,000	1,552	22,500	Yes	2	1.2	46.5	70
YLG-SZ-89x103.4	3.5	89	7.0	178	1,035	15,000	1,552	22,500	Yes	2	1.3	60.8	70
YLG-SZ-102x103.4	4	102	7.4	187	1,035	15,000	1,552	22,500	Yes	2	1.4	67.3	70
YLG-SZ-130x103.4	5.12	130	9.3	237	1,035	15,000	2,069	22,500	Yes	2	1.5	110	70
YLG-SZ-51x138	2	51	5.4	137	1,379	20,000	2,069	22,500	Yes	2	1.0	44.5	70
YLG-SZ-64x138	2.5	64	5.1	164	1,379	20,000	2,069	22,500	Yes	2	1.1	56.5	70
YLG-SZ-68x138	2.7	68	5.7	168	1,379	20,000	2,069	22,500	Yes	2	1.2	55	70
YLG-SZ-76x138	3	76	6.9	176	1,379	20,000	2,069	22,500	Yes	2	1.2	59	70





## Rig Supply Hoses

Techfluid offer a comprehensive range rig supply of hoses used for the transfer of products from the supply vessel to offshore platforms and drilling rigs. The hose structure is designed to provide superior load and abrasion resistance suitable for any offshore environment. We also offer custom designed hoses built to individual requirements. Every hose is hydrostatically tested and provided with full certification.

Industrial and Rig Supply Hose Selection (available as a heat trace or floating option)

Name	Identification	Working Pressure	Size /ID	Size O/D	Liner	
Oil Delivery	SY10	10 Bar	3"-8"	3.62"-9.02"	Black NBR	 Rev-00
	SY20	20 Bar	3"-6"	3.66"-6.93"	Black NBR	
	SY40	40 Bar	3"-4"	3.62"-5.04"	Black NBR	
Bulk Material	SM10	10 Bar	3"-8"	3.70"-9.09"	Black SBR/NR	
	SM20	20 Bar	3"-6"	3.74"-7.01"	Black SBR/NR	
Oil Suction & Delivery	XY10	10 Bar	3"-8"	3.62"-9.25"	Black NBR	
	XY20	20 Bar	3"-6"	3.66"-6.93"	Black NBR	
	XY40	40 Bar	3"-5"	4.72"-6.65"	Black NBR	
Bulk Material Handling (Hard Wall)	XM10	10 Bar	3"-8"	3.70"-9.37"	Black SBR/NR	
	XM20	20 Bar	3"-6"	3.90"-7.16"	Black SBR/NR	
Potable Water (Soft Wall)	SS10	10 Bar	3"-8"	3.62"-9.02"	White NR	
	SS20	20 Bar	3"-6"	3.82"-7.09"	White NR	
Potable Water (Hard Wall)	XS10	10 Bar	3"-8"	3.62"-9.25"	White NR	
	XS20	20 Bar	3"-6"	3.82"-7.01"	White NR	
▶ Floating Hose, available on all ranges						
	FT10	10 Bar	2"-8"	4.88"-11.06"	Black NBR	
	FT20	20 Bar	2"-8"	4.88"-11.06"	Black NBR	

### Additional Options (all mediums available on request)

#### ▶ Floating Hose Option

For transferring materials between supply vessel and platform, such as fuel oil, barite, mud and potable water. Floating layer bonded with hose body ensuring stability.



#### ▶ Heat Trace Option

Suitable for all applications, designed and manufactured by Techfluid and produced to the highest quality to meet API requirements and provide safe and reliable fluid transfer in freezing conditions.





# Techfluid U.K Ltd

## Location

Unit 35,  
Moorland Way  
Nelson Industrial Estate  
Cramlington  
Northumberland  
NE23 1WE

Sales and Marketing  
Project Management  
Design / Engineering  
Procurement  
Offshore Inspection

Tel: +44 (0) 1670 704 720

Email: [sales@techfluid.co.uk](mailto:sales@techfluid.co.uk)

[www.techfluid.co.uk](http://www.techfluid.co.uk)



# Techfluid

Manufacturers of Flexible Hose