



Group 1







Hydraulic Hoses



FLUID CONTROL[®]

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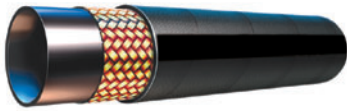
Symbol Key

#										
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m
1SN-04	6.3	1/4	-04	13.4	225	3270	900	13000	100	0.24
Part No	Inside Diameter			Out. Diam.	Working Pressure		Burst Pressure		Bend Radius	Weight



Available for rental

For information on safe hose assembly, see chapter 20



Type EN853 1SN / ISO 1436 1 Layer Hydraulic Hose

1

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan.







Hoses and swaged couplings are also available with type approvals from a number of classification societies.

CONSTRUCTION:

Covering: Black synthetic rubber
Reinforcement: 1 layer steel wire braid
Internal: Nitrile rubber (NBR)

TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils
-40°C to +85°C for water
-40°C to +70°C for air

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
1SN-04	6.3	1/4	-04	13.4	225	3260	900	13000	100	0.24	002SC
1SN-06	9.5	3/8	-06	17.4	180	2610	720	10400	130	0.34	002AT
1SN-08	12.7	1/2	-08	20.7	160	2320	640	9280	180	0.43	002AT
1SN-10	15.9	5/8	-10	23.9	130	1880	520	7500	200	0.49	002AT
1SN-12	19.0	3/4	-12	27.8	105	1530	420	6100	240	0.63	002AT
1SN-16	25.4	1	-16	35.8	88	1270	352	5100	300	0.94	002AT
1SN-20	31.8	1.1/4	-20	44.8	63	910	252	3650	420	1.19	002AT
1SN-24	38.1	1.1/2	-24	51.1	50	725	200	2900	500	1.49	002AT
1SN-32	50.8	2	-32	64.7	40	580	160	2300	630	2.23	002AT



Type EN 853 2SN / ISO 1436 2 Layer Hydraulic Hose

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan.







Hoses and swaged couplings are also available with type approvals from a number of classification societies.

CONSTRUCTION:

Covering: Black synthetic rubber
Reinforcement: 2 layers steel wire braid
Internal: Nitrile rubber (NBR)

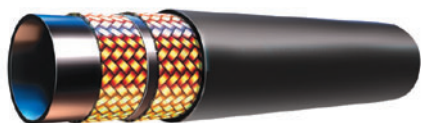
TEMPERATURE RANGE

-40°C to +100°C for hydraulic oils
-40°C to +85°C for water
-40°C to +70°C for air

#															Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m					
2SN-04	6.3	1/4	-04	15.0	400	5800	1600	23200	100	0.39	002AT				
2SN-06	9.5	3/8	-06	19.0	330	4775	1320	19100	130	0.55	002AT				
2SN-08	12.7	1/2	-08	22.2	275	4000	1100	16000	180	0.67	002AT				
2SN-10	15.9	5/8	-10	25.4	250	3600	1000	14500	200	0.77	002AT				
2SN-12	19.0	3/4	-12	29.3	215	3100	860	12400	240	1.00	002AT				
2SN-16	25.4	1	-16	38.1	165	2400	660	9600	300	1.49	002AT				
2SN-20	31.8	1.1/4	-20	47.5	125	1800	500	7200	420	1.73	002AT				
2SN-24	38.1	1.1/2	-24	55.0	90	1300	360	5200	500	2.14	002AT				
2SN-32	50.8	2	-32	67.0	80	1150	320	4600	630	2.96	002AT				

SEE CHAPTER 3 FOR COUPLINGS FOR THESE HOSES

1



Type EN857 2SC / ISO 11237 2SC 2 Layer Compact Hose

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan.

CONSTRUCTION:

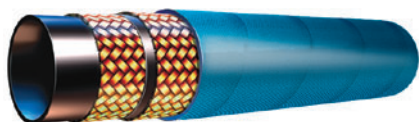
Covering: Black synthetic rubber
Reinforcement: 2 layers steel wire braid
Internal: Nitrile rubber (NBR)

TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils
-40°C to +85°C for water
-40°C to +70°C for air

SUPPLIED WITH TOUGH COVER OUTSIDE COATING ON REQUEST

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2SC-04	6.3	1/4	-04	13.4	425	6160	1700	24640	75	0.30	002SC
2SC-06	9.5	3/8	-06	17.2	350	5075	1400	20300	90	0.42	002SC
2SC-08	12.7	1/2	-08	20.4	310	4495	1240	17980	130	0.52	002SC
2SC-10	15.9	5/8	-10	23.9	280	4060	1120	16240	160	0.66	002SC
2SC-12	19.0	3/4	-12	27.7	280	4060	1120	16240	195	0.86	002SC
2SC-16	25.4	1	-16	35.4	210	3045	840	12180	250	1.17	002SC
2SC-20	31.8	1.1/4	-20	43.0	172	2495	688	9980	335	1.50	002SC



Hydraulic Hose 2 Layer Compact Hose SAE100R16 High-temperature Hose

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, biodegradable oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan.

CONSTRUCTION:

Covering: Blue synthetic rubber
Reinforcement: 2 layers steel wire braid
Internal: Synthetic rubber PKR

TEMPERATURE RANGE:

-48°C to +150°C for hydraulic oils
-48°C to +85°C for water
-48°C to +70°C for air

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2SC-06HT	9.5	3/8	-06	17.0	275	4000	1100	16000	65	0.42	002AT
2SC-08HT	12.7	1/2	-08	20.0	240	3500	960	14000	90	0.51	002AT
2SC-10HT	15.9	5/8	-10	24.0	190	2750	760	11000	100	0.66	002AT
2SC-12HT	19.0	3/4	-12	28.0	155	2250	620	9000	120	0.80	002AT
2SC-16HT	25.4	1	-16	36.0	138	2000	550	8000	150	1.22	002AT

SEE CHAPTER 3 FOR COUPLINGS FOR THESE HOSES



HIGH PRESSURE HOSE Type Active Wash Compact

1

APPLICATIONS:







High-pressure hose with synthetic, heat-resistant internal rubber, 2 layers steel wire braid, blue synthetic rubber cover, lightweight, very flexible. Synthetic, oil- and weather-resistant covering. Special hose for hot-water high-pressure washers. The combination of high temperature and high pressure reduces the hose's lifespan.

CONSTRUCTION:

Covering: Blue synthetic rubber
Reinforcement: 2 layers steel wire braid
Internal: Synthetic rubber

TEMPERATURE RANGE:

-40°C to +120°C

#														Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m				
2SC-05W	7.9	5/16	-05	15.0	400	5800	1200	17400	75	0.31	46			
2SC-06W	9.5	3/8	-06	17.4	400	5800	1200	17400	90	0.38	002SC			
2SC-08W	12.7	1/2	-08	20.6	350	5075	1050	15225	110	0.48	002SC			



HIGH PRESSURE HOSE Type Active Wash 400

APPLICATIONS:







High-pressure hose with synthetic, heat-resistant internal rubber, 2 layers steel wire braid, blue synthetic rubber cover, lightweight, very flexible. Synthetic, oil and weather-resistant covering. Special hose for hot-water high-pressure washers. The covering needs to be removed before attaching couplings (skive). The combination of high temperature and high pressure reduces the hose's lifespan.

CONSTRUCTION:

Covering: Blue synthetic rubber
Reinforcement: 2 layers steel wire braid
Internal: Synthetic rubber

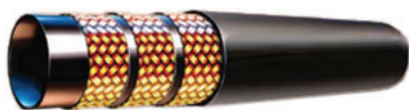
TEMPERATURE RANGE:

-40°C to +150°C

#														
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m				
AW400-06W	9.5	3/8	-06	19.0	400	5800	1320	19140	130	0.56				
AW400-08W	12.7	1/2	-08	22.2	350	5075	1100	15950	180	0.65				

SEE CHAPTER 3 FOR COUPLINGS FOR THESE HOSES

1



3 Layer Hydraulic Hose Type 372 4SP

APPLICATIONS:

3-wire braid compact hose with 4SP working pressures. General high pressure small bending radii hydraulic applications. No-skive hose construction. Nitrile (NBR) inner tube for extended fluid compability.

RECOMMENDED FLUIDS







Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

CONSTRUCTION:

Covering: Synthetic rubber
Reinforcement: Three high tensile steel wire braids
Internal: Nitrile (NBR)

TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils
max +85°C for water
max +70°C for air

#														Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m				
372 -06	9.5	3/8	-06	21.4	445	6500	1800	25800	120	0.73	70			
372 -08	12.7	1/2	-08	24.6	415	6000	1660	24000	160	0.90	70			
372 -10	15.9	5/8	-10	28.2	350	5000	1400	20000	210	1.09	70			
372 -12	19.1	3/4	-12	32.2	350	5000	1400	20000	260	1.36	70			
372 -16	25.4	1	-16	39.7	280	4000	1220	16000	310	1.78	70			



Type EN856 4SP / ISO 3862-1 4SP 4 Layer Hydraulic Hose

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-pricked for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan. The hose is not suitable for constant immersion in oil. Hoses and couplings are also available with type approvals from a number of classification societies.







CONSTRUCTION:

Covering: Black synthetic rubber
Reinforcement: 4 layers steel wire spirals
Internal: Synthetic rubber

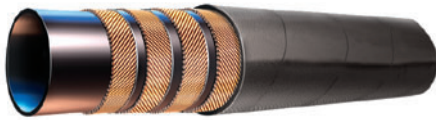
TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils
-40°C to +85°C for water
-40°C to +70°C for air

SUPPLIED WITH TOUGH COVER OUTSIDE COATING ON REQUEST

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
4SP-06	9.5	3/8	-06	21.4	445	6450	1780	25800	130	0.91	1004		
4SP-08	12.7	1/2	-08	24.6	415	6000	1660	24000	180	1.08	1004		
4SP-10	15.9	5/8	-10	28.5	390	5650	1560	22600	225	1.39	1004		
4SP-12	19.0	3/4	-12	32.0	350	5000	1400	20300	280	1.73	1004		
4SP-16	25.4	1	-16	39.7	310	4500	1240	18000	355	2.31	1004		
4SP-20	31.8	1.1/4	-20	47.5	280	4050	1120	16200	460	3.07	1104		
4SP-24	38.1	1.1/2	-24	53.5	260	3750	1040	15000	560	3.56	1104		

SEE CHAPTER 3 FOR COUPLINGS FOR THESE HOSES



Type EN856 4SH / ISO 3862-1 4SH 4 Layer Hydraulic Hose

1

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan. The hose is not suitable for constant immersion in oil. Hoses and swaged couplings are also available with type approvals from a number of classification societies.







CONSTRUCTION:

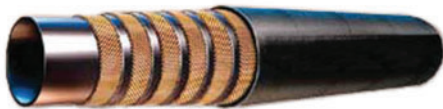
Covering: Black synthetic rubber
Reinforcement: 4 layers steel wire spirals
Internal: Synthetic rubber

TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils
-40°C to +85°C for water
-40°C to +70°C for air

SUPPLIED WITH TOUGH COVER OUTSIDE COATING ON REQUEST

#														Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m				
4SH-12	19.0	3/4	-12	32.2	430	6250	1720	25000	280	1.7	1104			
4SH-16	25.4	1	-16	38.7	400	5800	1600	23200	340	2.2	1104			
4SH-20	31.8	1.1/4	-20	45.5	350	5000	1400	20000	460	2.6	1104			
4SH-24	38.1	1.1/2	-24	53.5	310	4500	1240	18000	560	3.4	1104			
4SH-32	50.8	2	-32	68.1	280	4050	1120	16200	700	4.8	1104			



Type EN856 R13 / ISO 3862-1 R13 4/6 Layer Hydraulic Hose

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**







The combination of high temperature and high pressure reduces the hose's lifespan. The hose is not suitable for constant immersion in oil. Hoses and swaged couplings are also available with type approvals from a number of classification societies.

CONSTRUCTION:

Covering: Black synthetic rubber
Reinforcement: 4 or 6 layers steel wire spirals
Internal: Synthetic rubber

TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils
-40°C to +85°C for water
-40°C to +70°C for air

#														Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m				
R13-12	19.1	3/4	-12	32.1	345	5000	1380	20000	220	1.5		1104		
R13-16	25.4	1	-16	38.7	345	5000	1380	20000	280	2.2		1104		
R13-20	31.8	1.1/4	-20	49.8	345	5000	1380	20000	380	3.7		1306		
R13-24	38.1	1.1/2	-24	57.3	345	5000	1380	20000	480	4.8		1306		
R13-32	50.8	2	-32	71.1	345	5000	1380	20000	600	6.6		1306		

SEE CHAPTER 3 FOR COUPLINGS FOR THESE HOSES



Type R13 PUR ORANGE 4 Layer Hydraulic Hose

EXTRUDED COVER:

Thermoplastic Polyurethane.

Elastomer Extrusion offers:-

- Excellent wear resistance.
- Total assembly encapsulation with the prevention of sea water ingress, particularly from external pressure in deep water operation.
- Corrosion elimination.
- Resistant against microbial attack.
- Withstands repeated flexing.
- Flame proof – halogen free.

CONSTRUCTION:

Covering: Orange environment resistant synthetic cover rubber






Reinforcement: Four high tensile steel spirals

Internal: Oil resistant synthetic rubber

Cover Colour Identification : Orange

A HOSE DEVELOPMENT FOR A SPECIFIC APPLICATION

The hose and fitting that offers extended life, improved performance and total sealing capability.

#											Test Pressure	
Part No	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	bar	psi
2" R13 PUR Orange	50.8	2	78.0*	3*	350	5070	1500	21750	630	24.8	525	7605

* Approximate outside diameter – extruded cover thickness – 1.6/2.0mm



Type R15 / ISO 3862-1 R15 4/6 Layer Hydraulic Hose

APPLICATIONS:

High-pressure hose for petroleum-based hydraulic oils, *water-glycol and *water-oil hydraulic emulsions, grease, lubricants, crude oil, diesel, air and water. **The hose must be pin-prickled for air and gas applications over 17 bar (250psi).**

The combination of high temperature and high pressure reduces the hose's lifespan. The hose is not suitable for constant immersion in oil. Hoses and swaged couplings are also available with type approvals from a number of classification societies.

CONSTRUCTION:

Covering: Black synthetic rubber

Reinforcement: 4 or 6 layers steel wire spirals







Internal: Synthetic rubber

TEMPERATURE RANGE:

-40°C to +100°C for hydraulic oils

-40°C to +85°C for water

-40°C to +70°C for air

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
R15-10	15.9	5/8	-10	28.5	420	6000	1680	24000	225	1.4	1104
R15-12	19.1	3/4	-12	32.0	420	6000	1680	24000	280	1.7	1104
R15-16	25.4	1	-16	39.0	420	6000	1680	24000	300	2.3	1104
R15-20	31.8	1.1/4	-20	50.8	420	6000	1680	24000	400	3.8	1306
R15-24	38.1	1.1/2	-24	57.0	420	6000	1680	24000	500	4.8	1306
R15-32	50.8	2	-32	71.5	420	6000	1680	24000	700	7.0	1306

SEE CHAPTER 3 FOR COUPLINGS FOR THESE HOSES

BLOWOUT PREVENTER Firemaster API 16D Hydraulic Hose System

1



Fire rated hydraulic hose with permanently attached couplings.

CONSTRUCTION:

Covering: Extruded protective polyurethane (PU) sheath
Reinforcement: Four or six high tensile steel spirals
Internal: Synthetic, swelling resistant rubber tube

TEMPERATURES:

Service temperature range (°C): -40 to 121
Fire rating: Flame temperature
1,100°C for 5 minutes (API)

APPLICATIONS:

Flexible hose for hydraulic systems using mineral oils, glycols and aqueous emulsion oils in fire safety critical areas and for Blowout Preventer control.

SPECIFIED STANDARDS

- API 16D 1st Edition - Control Systems for Drilling Well Control Equipment
- Lloyds Register's Fire Tests for Flexible Hoses on Offshore Installations, OD 1000/499






The Firemaster 16D Hydraulic Hose System is the latest addition to the Hydrasun range of Fire Rated Hose Assemblies.

Developed primarily to address the stringent requirements demanded for Blowout Prevention and well control applications, the Firemaster 16D is also ideally suited for any high pressure hydraulic applications where there is a need for hoses to be Fire Rated and capable of working in extreme heat in the event of an emergency.

In addition to satisfying the requirements of the Lloyds Register Fire Test for Flexible Hoses on Offshore Installations - OD1000/499 which calls for the pressurised Hose Assembly to withstand temperatures of 1000 degrees C for 5 minutes, the Firemaster 16D also conforms with the API16D standard for Control Systems for Drilling Well Control Equipment.

Other key design features of the product include a heavy-duty cover that affords resistance to abrasion and weathering thus maximizing the life expectancy of the product. Additionally our specially designed integral fittings which are available in a range of materials and thread types provide a complete system solution that delivers the highest levels of technical integrity and reliability.



# Part No										
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
F5-04	1/4	6.4	1.09	27.80	7250	500	5.91	150	0.67	1.00
F5-06	3/8	9.5	1.12	31.30	6600	460	7.09	180	0.82	1.23
F5-08	1/2	12.7	1.35	34.40	6100	425	9.06	230	0.96	1.43
F5-12	3/4	19	1.65	42.00	6000	420	11.02	280	1.46	2.17
F5-16	1	25.4	1.89	48.10	5500	385	13.39	340	1.89	2.82
F5-20	1.1/4	31.8	2.36	60.00	5000	350	16.50	419	3.08	4.60
F5-24	1.1/2	38.1	2.64	67.20	5000	350	19.69	500	4.00	5.98
F5-32	2	50.8	3.22	81.80	5000	350	24.80	630	5.50	8.20

ASK US ABOUT COUPLING OPTIONS. HOSE AND COUPLINGS ARE ONLY SUPPLIED PREASSEMBLED.

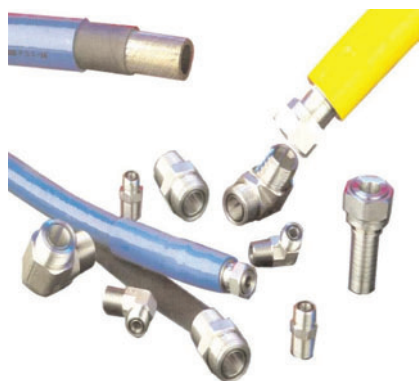
We offer fast track turnaround and delivery of finished product due to our extensive stockholding of specialist hydraulic control line hoses, combined with our in-house capability to manufacture bespoke or specialist end connections in both standard and exotic materials such as Monel, Inconel, 6MO, Super Duplex etc. All Hydrasun's manufacturing operations are approved to BS EN ISO 9001:2000 by LRQA.

A particular area in which we specialise is the short-length Umbilical market offering a custom-engineered service encompassing design, engineering, manufacturing, testing and installation together with back-up support and after-sales service that the medium/large manufacturers can not match.

Our Extrusion and Coatings service encompasses the encapsulation of both single hose and hose bundles with a Polymer or Elastomer cover that significantly increases hose service life whilst assuring operational reliability.

TYPICAL APPLICATIONS FOR HYDRASUN UMBILICALS AND JUMPERS

- IWOC Work over umbilicals
- Topside control umbilicals
- In field well head jumpers
- ROV fly to place jumpers
- Hydraulic control umbilicals
- Water jetting umbilicals
- Test tree control umbilicals
- Abandonment system umbilicals
- Service lines
- Gas umbilicals
- Wire line umbilicals
- Jacket Submergence umbilicals
- Chemical injection lines
- Calm Buoy umbilicals
- Subsea Umbilicals
- Subsea Jumpers
- Hydraulic Flying Leads



The hose and fitting that offers extended life, improved performance with total sealing capability.

Cover Colour Identification : Blue & Yellow
(Green available to special order)





SUBSEA BOP HOSE AND FITTINGS A Hose Assembly Development for a Specific Application

CONSTRUCTION:

- Tube:** Service compatible resistant synthetic tube.
Reinforcement: Four high tensile steel spirals.
Cover: Synthetic rubber cover.
Extra Extruded Cover: Thermoplastic Polyurethane.

Elastomer Extrusion - which offers:

- Excellent wear resistance.
- Total assembly encapsulation with the prevention of sea water ingress, particularly from external pressure in deep water operation.
- Corrosion elimination.
- Resistance against microbial attack.
- Withstands repeated flexing.
- Flame-proof - halogen free.

# Part No									Test Pressure	
	inch	mm	inch	mm	psi	bar	inch	mm	psi	bar
7KBP-04-Y\B	1/4	6.3	*0.86	*21.8	7000	480	5.9	150	10 500	724
5KBP-08-Y\B	1/2	12.7	*1.10	*28	6000	414	9.0	230	9000	620
5KBP-12-Y\B	**3/4	19	*1.40	*35.8	5500	380	12.0	300	8250	570
5KBP-16-Y\B	1	25	*1.70	*43	5000	345	15.0	340	7500	518
5KBP-24-Y\B	1 1/2	38	*2.40	*61.0	5000	345	20.0	508	7612	525

*Approximate outside diameter - extruded cover thickness - 1.6/2.0mm

** This size is made to special order due to market demand.

Colour Code:

Part number suffixed with Y = Yellow.
Part number suffixed with B = Blue.

ASK US ABOUT COUPLING OPTIONS. HOSE AND COUPLINGS ARE ONLY SUPPLIED PREASSEMBLED.

DRAG CHAIN HOSES

1



We are able to provide hoses for Drag Chain applications both low- and high pressure covering all services. Over the years we have established good relationships towards international manufactures of hoses and Drag Chains for offshore installations.

Hoses for Drag Chain applications are not standard and are made to order. It is extremely important to avoid elongation when hoses are pressurized and measure accurate length between hose connections. The most standard end connections are flanges or Weco unions. Various materials of hose couplings can be proposed upon request.

MOST FREQUENT SERVICES IN DRAG CHAIN:

- Mud
- Sea Water
- Fresh Water
- Instrument Air
- Heating Water
- Potable Water
- Cement
- Plant Air
- Completion Fluid
- Base Oil
- Hydraulic Oil
- Other services on request



Inspection of hoses in Drag Chain performed by one of our service technicians.



ROTARY DRILLING & ROTARY VIBRATOR HOSES

API Grade C
API Grade D
API Grade F

- Construction:** Synthetic rubber inside. Resistant to corrosion, wear and oil-containing drilling mud. Reinforced with several layers textile and steel wire, with high tensile strength. Synthetic rubber covering resistant to oils, ozone and wear and tear.
- Temp. range:** Operating temperature \div 45°C to + 82°C.
- Applications:** Rotary hoses are available in lengths up to 90 feet (27.5 m) over all length with built-in fittings with male API threads as default. Outside diameter of the fittings are virtually the same as the outside diameter of the hose. The inside connection between hose and fittings is plane.
- Pressure load:** Hoses installed offshore can not be pressure loaded higher than 1.25 x maximum working pressure.
- Note:** Other fittings available on request.

API Grade C

ID Inch	OD mm	Working Pressure		Test Pressure		Bend Radius mm	Weight kg/m	Weight kg/fittings pair	API Flange
		PSI	bar	PSI	bar				
2	96	4000	280	8000	560	900	11.0	17	2.1/2
2.1/2	110	4000	280	8000	560	1200	13.5	22	3
3	131	4000	280	8000	560	1200	19.6	48	4
3.1/2	145	4000	280	8000	560	1400	22.0	64	4
4	157	4000	280	8000	560	1400	26.4	53	5

API Grade D

ID Inch	OD mm	Working Pressure		Test Pressure		Bend Radius mm	Weight kg/m	Weight kg/fittings pair	API Flange
		PSI	bar	PSI	bar				
2	96	5000	350	10000	700	900	11.1	21	2.1/2
2.1/2	113	5000	350	10000	700	1200	15.4	26	3
3	145	5000	350	10000	700	1200	28.0	64	4
3.1/2	163	5000	350	10000	700	1400	37.0	92	4
4	175	5000	350	10000	700	1400	42.7	122	5

API Grade F

ID Inch	OD mm	Working Pressure		Test Pressure		Bend Radius mm	Weight kg/m	Weight kg/fittings pair	API Flange
		PSI	bar	PSI	bar				
2	98	10000	890	15000	1035	900	14.1	80	2.1/16
2.1/2	113	10000	890	15000	1035	1200	18.7	105	2.9/16
3	130	10000	890	15000	1035	1200	25.0	126	3.1/8
3.1/2	145	10000	890	15000	1035	1400	28.5	150	3.1/8
4	174	10000	890	15000	1035	1400	48.1	195	4.1/8

PROTECTIVE SPIRALS

1

Construction: Spiral made yellow polyethylene HDPE in dimensions 54 mm - 160 mm. Yellow polyethylene MDPE in dimension 32 mm.

Temperature range: -30°C to +180°C.

Applications: Wrap around hoses and cables to protect and keep them together.

Ext. dim mm	Part No	Standard length meter	Spiral thickness mm
32	BOV-6032	6	2.5
54	BOV-6054	6	3.5
75	BOV-6075	6	5.5
110	BOV-6110	6	6.5
160	BOV-6160	6	6.5



Construction: Spiral made of black tempered PVC, hardness SHORE D. Flame-resistant according to UL 94V0.

Temperature range: -10°C to +60°C.

Applications: Wrap around hoses and cables to protect and keep them together.

Part No	ID/OD mm	Std. length meter	Spiral thickness mm	For OD mm
SSW-16	13 / 16	20	1.6	12 - 18
SSW-20	16 / 20	20	1.7	16 - 26
SSW-25	20 / 25	20	2.1	20 - 27
SSW-32	27 / 32	20	2.6	27 - 35
SSW-40	35 / 40	20	2.8	35 - 60
SSW-50	44 / 50	20	3	35 - 75
SSW-75	65 / 75	20	4.3	60 - 120
SSW-90	80 / 90	20	5	75 - 200



HOSE STRAPS "FLUID CONTROL"

Construction: Sturdy, black polyester with zinc-plated chromated safety lock. Width 25 mm. Thickness approx. 1.5 mm.

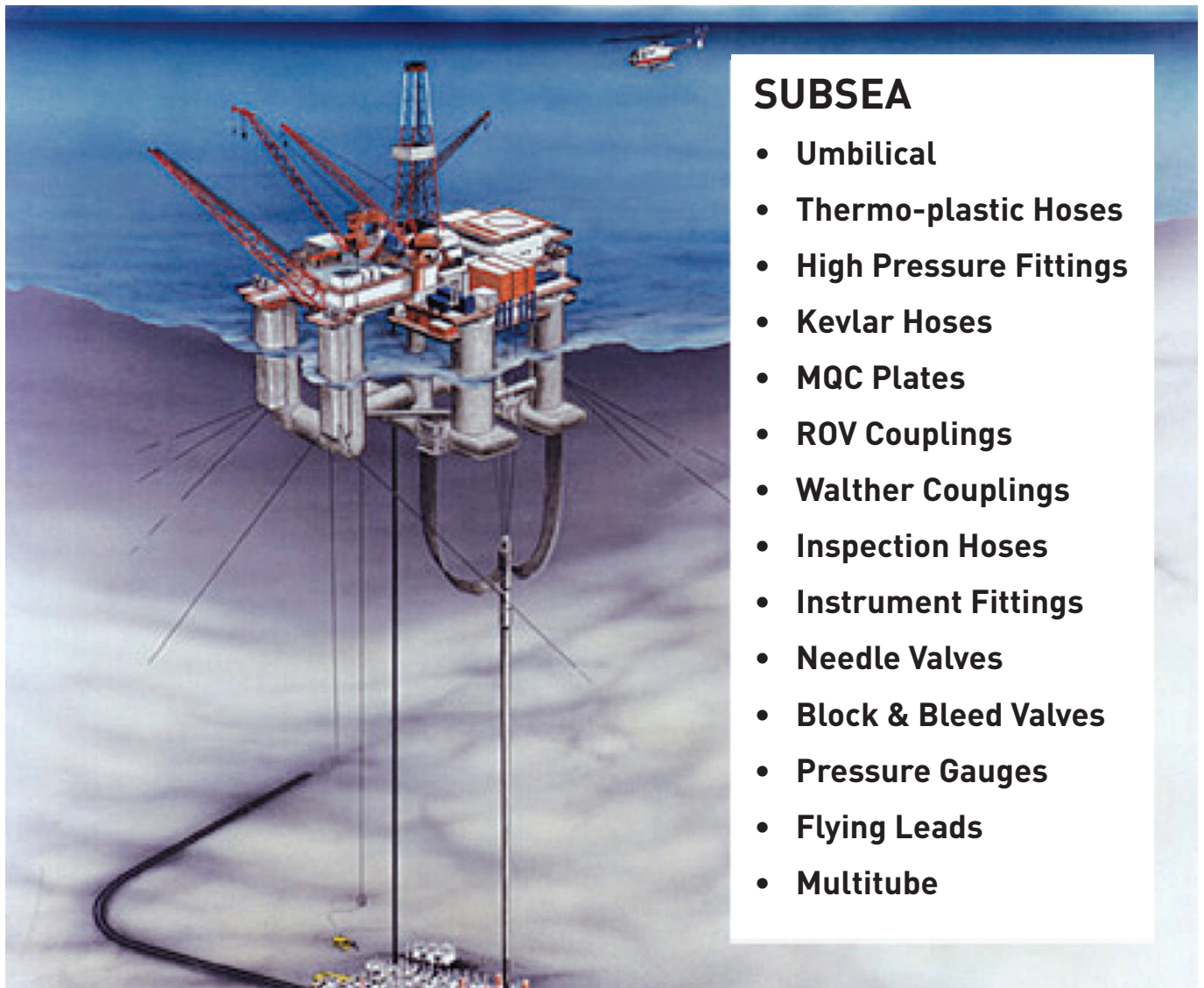
Tensile strength: 250 kg.

Applications: Used for attachment of hoses and cables etc.

Length	500 mm	Part No REIM-0500
Length	750 mm	Part No REIM-0750
Length	1000 mm	Part No REIM-1000
Length	1500 mm	Part No REIM-1500
Length	2000 mm	Part No REIM-2000

Also available in red and green.





SUBSEA

- Umbilical
- Thermo-plastic Hoses
- High Pressure Fittings
- Kevlar Hoses
- MQC Plates
- ROV Couplings
- Walther Couplings
- Inspection Hoses
- Instrument Fittings
- Needle Valves
- Block & Bleed Valves
- Pressure Gauges
- Flying Leads
- Multitube