

Medium and High Pressure Hoses

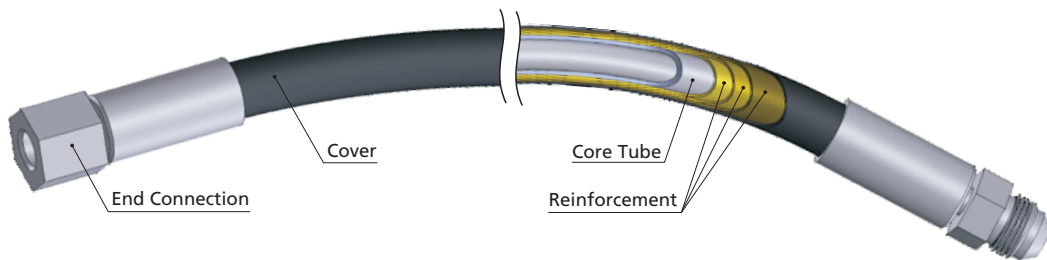
HPH Series

Features

- ⦿ Core tube materials: Polyoxymethylene or nylon
- ⦿ Reinforcement: Multi-layers of steel wire
- ⦿ Cover materials: Nylon or polyurethane, different color for different working pressure
- ⦿ Working pressure up to: 43500 psig (3000 bar)
- ⦿ Nominal hose sizes: DN4 ~ DN10
- ⦿ Working temperature: -40 °F ~ 212 °F (-40 °C ~ 100 °C)
- ⦿ Custom lengths and wide range of end connections available



Construction



Technical Data

Nominal Hose Size (DN)	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Core Tube Material	Reinforcement	Cover Material	Max. Working Pressure psig (bar)	Burst Pressure psig (bar)	Min. Inside Bend Radius in. (mm)	Weight lbs/ft (kg/m)	Color
4	0.16 (4)	0.30 (7.7)	POM	2 steel layers	Nylon	17400 (1200)	43500 (3000)	2.95 (75)	0.067 (0.10)	Yellow
	0.15 (3.9)	0.41 (10.4)	POM	4 steel layers	Nylon	31900 (2200)	79800 (5500)	3.94 (100)	0.141 (0.21)	Red
	0.15 (3.9)	0.45 (11.5)	POM	6 steel layers	Nylon	43500 (3000)	101500 (7000)	5.51 (140)	0.195 (0.29)	Blue
5	0.19 (4.9)	0.37 (9.5)	POM	2 steel layers	Nylon	21750 (1500)	54400 (3750)	3.74 (95)	0.094 (0.14)	Yellow
	0.19 (4.7)	0.45 (11.5)	POM	4 steel layers	Nylon	26100 (1800)	65300 (4500)	5.12 (130)	0.188 (0.28)	Red
	0.19 (4.7)	0.51 (13)	POM	6 steel layers	Nylon	36250 (2500)	90600 (6250)	6.89 (175)	0.276 (0.41)	Red
6	0.25 (6.3)	0.49 (12.4)	Nylon	2 steel layers + 2 synthetic layers	PU	10150 (700)	27000 (1860)	2.76 (70)	0.128 (0.19)	Black
	0.25 (6.3)	0.52 (13.3)	Nylon	4 steel layers	PU	14500 (1000)	46400 (3200)	3.15 (80)	0.208 (0.31)	Black
8	0.31 (8)	0.52 (13.3)	POM	2 steel layers	Nylon	13050 (900)	32600 (2250)	4.72 (120)	0.168 (0.25)	Black
	0.31 (8)	0.59 (15.1)	POM	4 steel layers	Nylon	21750 (1500)	54400 (3750)	6.89 (175)	0.296 (0.44)	Yellow
	0.31 (8)	0.67 (16.9)	POM	6 steel layers	Nylon	30450 (2100)	76100 (5250)	8.86 (225)	0.457 (0.68)	Red
10	0.38 (9.7)	0.71 (18)	Nylon	3 steel layers	PU	10150 (700)	31200 (2150)	4.72 (120)	0.336 (0.5)	Black
	0.38 (9.7)	0.76 (19.4)	Nylon	4 steel layers	Nylon	20300 (1400)	50800 (3500)	7.48 (190)	0.491 (0.73)	Yellow

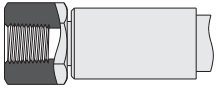
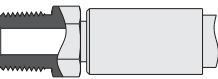
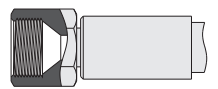
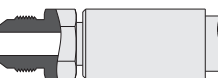
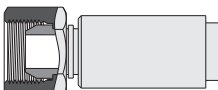
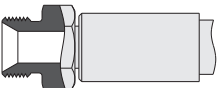
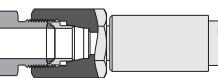
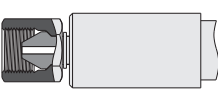

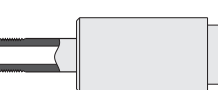
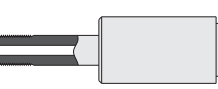
Notes:

1. POM means Polyoxymethylene; PU means Polyurethane.
2. Hose colors are in correspondence with maximum working pressure (MWP).
 - Black 10000 psig (690 bar) ≤ MWP ≤ 14500 psig (1000 bar)
 - Yellow 14500 psig (1000 bar) < MWP ≤ 24950 psig (1720 bar)
 - Red 24950 psig (1720 bar) < MWP ≤ 36300 psig (2500 bar)
 - Blue 36300 psig (2500 bar) < MWP ≤ 45000 psig (3100 bar)

Testing

Each hose assembly is pressure tested with pure water at 1.5 times the maximum working pressure.

End Connections

Diagram	End Connection Type (Designator)	End Connection Size in.	Max. Working Pressure psig (bar)
	Female NPT (FNS)	1/4 , 3/8 , 1/2	15000 (1034)
	Male NPT (NS)	1/4 , 3/8 , 1/2	15000 (1034)
	Female JIC (JF)	1/4 , 3/8 , 1/2 , 5/8 , 3/4	20000 (1379)
	Male JIC (JM)	1/4 , 3/8 , 1/2 , 5/8 , 3/4	20000 (1379)
	Female BSPP Swivel (SBP)	1/4 , 3/8 , 1/2	20000 (1379)
	Male BSPP (HBP)	1/4 , 3/8 , 1/2	20000 (1379)
	20D Series Tube Fittings (DFF)	1/4 , 3/8 , 1/2 , 9/16	20000 (1379)
	Female Type "M" Swivel (TMF)	9/16 , 3/4	60000 (4137)
	20M Series Medium Pressure Fittings (MF)	1/4 , 3/8 , 9/16 , 3/4	20000 (1379)
	Medium Pressure Coned and Threaded Nipples (MCT)	1/4 , 3/8 , 9/16 , 3/4	20000 (1379)
	High Pressure Coned and Threaded Nipples (HCT)	1/4 , 3/8 , 9/16	60000 (4137)

Options

PVC Sleeves

Transparent PVC sleeve provides effective protection for the hose to prevent surface abrasion or scratches. PVC sleeve is not a hose anti-burst layer thus can not be used as burst protection device to the operator.

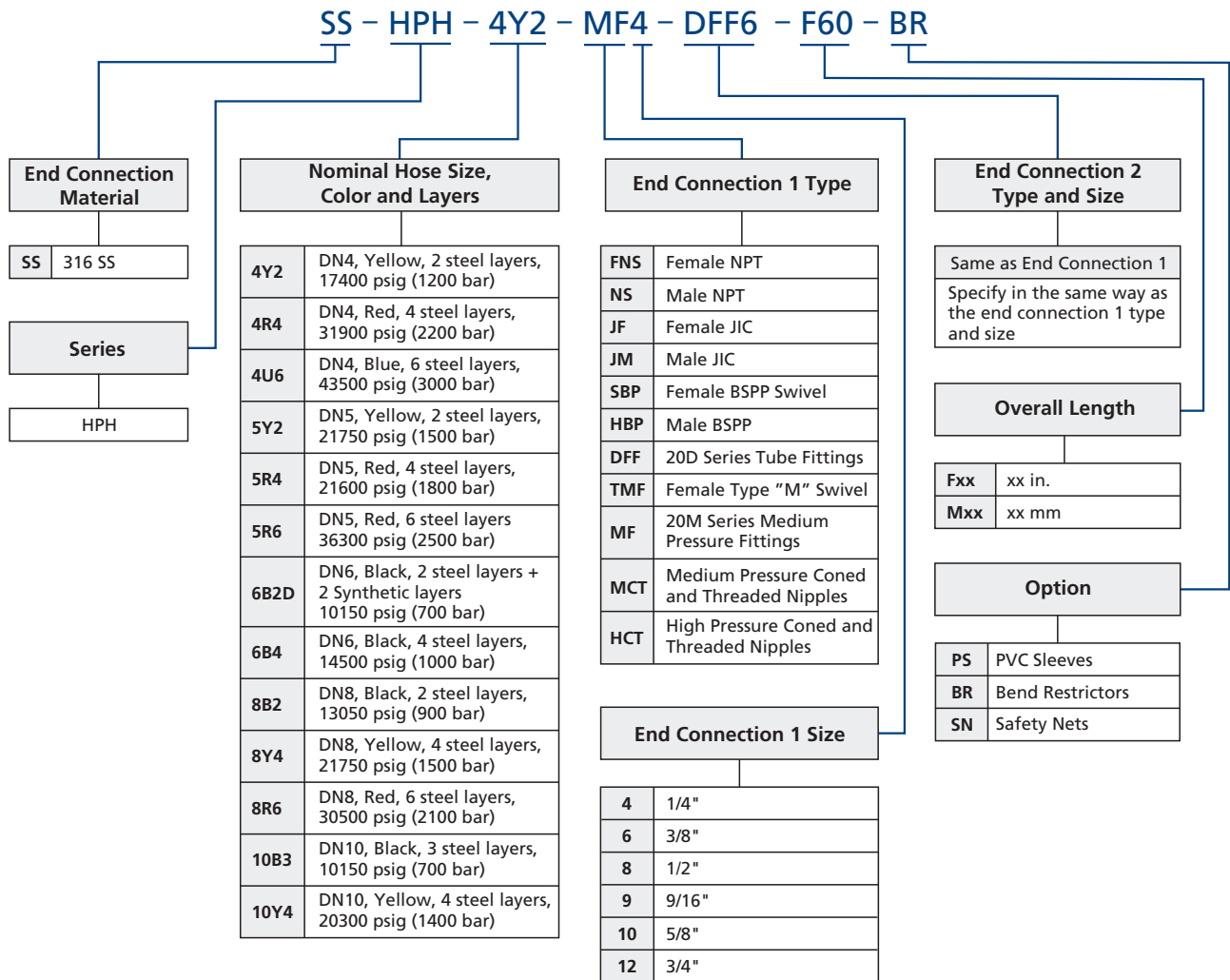
Bend Restrictors

Bend restrictors can avoid connection twisting or bending between hoses and hose connectors in harsh working conditions.

Safety Nets

Safety nets can limit hose whipping when the high pressure hoses burst to protect the operator and the surrounding equipment.

Ordering Number Description



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

info@fitokgroup.com
www.fitokgroup.com

