

## High Pressure Hoses & Fittings (DN 10 - DN 25)

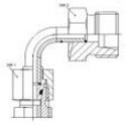


ID (mm)	Maximum Operating pressure PSI (bar)	O.D. ø (mm)	Fitting Cap Nut, f.	Length ft. (m)	Part No.	Part No. Rotoblast
10	12,475 (860) Polyamid	18.0	M 22 x 1.5 DKO SW = 27	6.6 (2)	7000472	xxx
				16.4 (5)	7000473	xxx
				65.6 (20)	7000474	xxx
				131.2 (40)	7000475	xxx
	18,130 (1250) Rubber	20.4	M 24 x 1.5 DKO SW = 32	6.6 (2)	7002966	xxx
				16.4 (5)	7002967	xxx
				65.6 (20)	7002968	xxx
				131.2 (40)	7002969	xxx
	20,305 (1400) Polyamid	19.4	M 24 x 1.5 DKO SW = 30	6.6 (2)	7002970	xxx
				16.4 (5)	7002971	xxx
				65.6 (20)	7002972	xxx
				131.2 (40)	7002973	xxx
12/13	10,880 (750) Rubber	24.6	M 22 x 1.5 DKL SW = 27	6.6 (2)	7000489	xxx
				16.4 (5)	7000490	xxx
				65.6 (20)	7000491	xxx
				131.2 (40)	7000492	xxx
	16,000 (1100) Rubber	24.5 Rotoblast	M 24 x 1.5 DKO SW = 32	6.6 (2)	7002978	7000493
				16.4 (5)	7002979	7000494
				32.8 (10)	7009058	7009339
				49.2 (15)	xxx	7011070
				65.6 (20)	7002980	7000495
				131.2 (40)	7002981	7000496
	21,030 (1450) Rubber	28.9	M 24 x 1.5 DKO SW = 30	6.6 (2)	7002982	xxx
				16.4 (5)	7000498	xxx
				65.6 (20)	7000499	xxx
				131.2 (40)	7000500	xxx
	26,105 (1800) Polyamid	24.5	M 24 x 1.5 DKO SW = 32	6.6 (2)	7000501	xxx
				16.4 (5)	7000502	xxx
65.6 (20)				7000503	xxx	
131.2 (40)				7000504	xxx	
19/20	15,000 (1000) Rubber	32.0	M 36 x 2 DKO SW = 46	6.6 (2)	7000517	xxx
				16.4 (5)	7000518	xxx
				65.6 (20)	7000519	xxx
				131.2 (40)	7000520	xxx
	20,305 (1400) Polyamid	33.0	M 36 x 2 DKO SW = 46	6.6 (2)	7002986	xxx
				16.4 (5)	7002987	xxx
				65.6 (20)	7002988	xxx
				131.2 (40)	7002989	xxx

# High Pressure Hoses & Fittings (ID 10 - ID 25)

ID (mm)	Maximum Operating pressure PSI (bar)	O.D. ø (mm)	Fitting Cap Nut, f.	Length ft. (m)	Part No.	Part No. Rotoblast
25	13,055 (900) Polyamid	37.0	M 42 x 2 DKO SW = 50	6.6 (2)	7000529	xxx
				16.4 (5)	7000530	xxx
				65.6 (20)	7000531	xxx
				131.2 (40)	7000532	xxx
	17,405 (1200) Polyamid	40.0	M 42 x 2 DKO SW = 55	6.6 (2)	7002990	xxx
				16.4 (5)	7002991	xxx
				65.6 (20)	7002992	xxx
				131.2 (40)	7002993	xxx

Double Nipple + Red. Double Nipple	ID (mm)	Pressure PSI (bar)	Part No.
M 22 x 1.5 DKL	13	15,000 (1000)	1051631
M 22 x 1.5 DKO		21,755 (1500)	7004137
M 24 x 1.5 DKO		21,755 (1500)	1050671
M 36 x 2 DKO	20	21,755 (1500)	1050672
M 42 x 2 DKO	25	9430 (650)	5040190
M 22 x 1.5 DKL - M 24 x 1.5 DKO	13	21,755 (1500)	7001628
M 24 x 1.5 DKO - M 36 x 2 DKO		21,755 (1500)	1050673
M36 x 2 DKO - M 42 x 2 DKO		15,000 (1000)	1051709
M 22 x 1.5 Ansatz - M 22 x 1.5 DKL	13	15,000 (1000)	1050014
M 22 x 1.5 Ansatz - M 24 x 1.5 DKO		21,755 (1500)	1050340
M 22 x 1.5 Ansatz - M 36 x 2 DKO		21,755 (1500)	1050548
M 22 x 1.5 Ansatz - M 42 x 2 DKO		15,000 (1000)	7001878
M 30 x 1.5 Ansatz - M 22 x 1.5 DKO	13	21,755 (1500)	7016668
M 30 x 1.5 Ansatz - M 24 x 1.5 DKO		21,755 (1500)	1050648
M 30 x 1.5 Ansatz - M 36 x 2 DKO	20	21,755 (1500)	1050571
M 30 x 1.5 Ansatz - M 42 x 2 DKO		21,755 (1500)	1051726
M 38 x 1.5 Ansatz - M 36 x 2 DKO	25	15,000 (1000)	7004182
M 38 x 1.5 Ansatz - M 42 x 2 DKO		15,000 (1000)	1051062
M 38 x 1.5 Ansatz - G 1" DK		15,000 (1000)	1050844

Spacer	Fitting I + II Cap nut - male	PN PSI (bar)	ID (mm)	Bend °	Part No.
	M 24 x 1.5 DKO-S - AG 24°	20,305 (1400)	13	45	7009368
				90	7009367
	M 36 x 2 DKO-S - AG 24°	15,000 (1000)	20	45	7008462
				90	7008461

Hose Safety Devices	Hose ID (mm)	Part No.
Steel wire loop & spring system	10 - 20	7002804
	25	7002805
Aluminum half-shells	13	7002806
	20 - 25	7002807

## Pressure loss in high pressure hoses

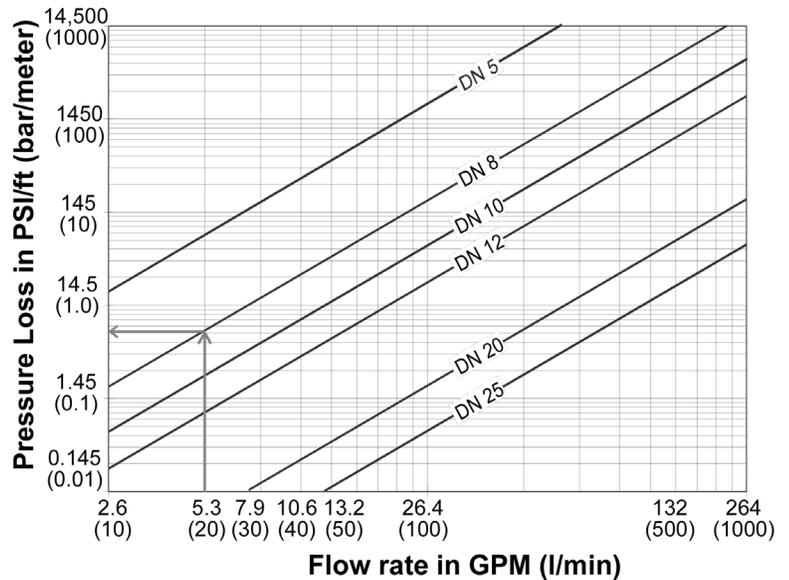
Calculated data is based on hose length of 3.28 feet (1 m)

With the aid of the diagram approximate values for the relative pressure loss in a straight hose line - without taking hose fittings into consideration - can be estimated, in relation to the flow and hose diameter. The diagram is based on a given hose length of 3.28 feet (1 m).

**Example:** Capacity = 5.3 GPM (20 L/min)  
Hose ID = 8 mm  
Hose length = 65.6 feet (20 m)

**Solution:** According to the diagram, pressure loss is:  
7.25 / 3.28 ft. (0.5 bar / m)

Therefore, total pressure loss will be:  
7.25 / 3.28 ft. x 65.6 ft. = 145 PSI  
(0.5 bar / m x 20 m = 10 bar)



## High Pressure Hoses Lines

36,250 PSI (2500 bar) / 43,500 PSI (3000 bar) / 58,000 PSI (4000 bar)

### Component group includes:

- Hose line with fitting M14 x 1.5 left hand male
- Protective hose
- See next page

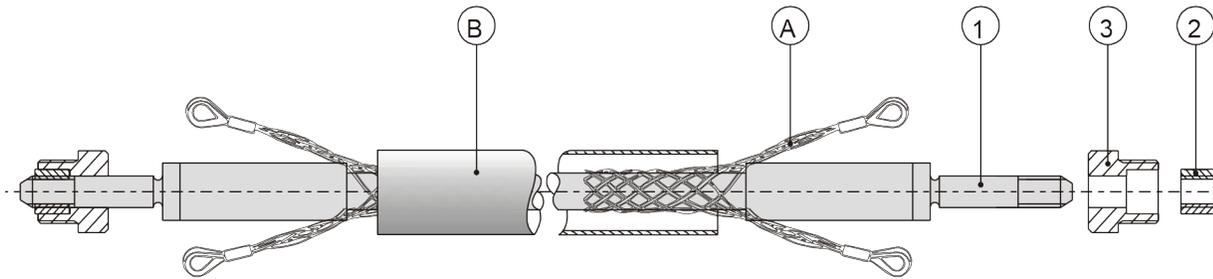
- Working pressure: 36,250 / 43,500 PSI (2500 / 3000 bar)
- Hose inner layer: Polyoxymethylene (POM)
- Pressure hose section: 6 layers of steel wire of highest tensile strength
- Hose outer layer: Polyamide (PA)
- Fitting: High pressure fitting (steel) with 59° cone



ID (mm)	Maximum Pressure PSI (bar)	Outer Diam. Hose ø Sleeve ø (mm)	Fitting male both ends	Bending Radius (mm)	with protection hose Y / N	Length ft (mm)	Part No.
5	36,250 (2500)	13.0 18.6	M 14 x 1.5 LH	175	Y	16.4 (5)	7015603
						32.8 (10)	7006367
						49.2 (15)	7006368
						65.6 (20)	7006369
	43,500 (3000)	13.3 18.6	M 14 x 1.5 LH	200	Y	65.6 (20)	7000471
58,000 (4000)	15.0 19.6	M 14 x 1.5 LH	200	N	16.4 (5)	7022328	
					32.8 (10)	7027605	
					Y	65.6 (20)	7020428
8	36,250 (2500)	17.2 22.8	M 14 x 1.5 LH	200	Y	32.8 (10)	7006370
						49.2 (15)	7006371
						65.6 (20)	7006372
8	43,500 (3000)	19.5 24.0	M 14 x 1.5 LH	250	Y	65.6 (20)	7000476
						36,250 (2500)	29.8 33.8
12	43,500 (3000)	29.9 33.8	M 18 x 1.5 LH	350	Y	65.6 (20)	7002976

# High Pressure Hose - Components

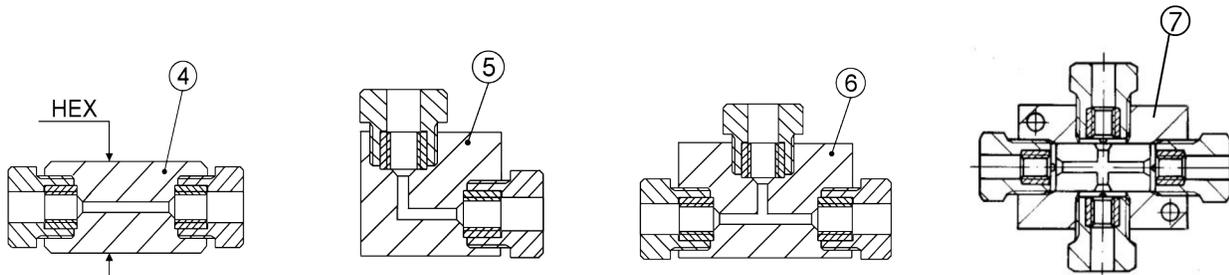
## Assembly



The component group "High Pressure Hose: includes

- High pressure hose (Item 1)
- Hose security (Item A)
- Protective hose (Item B)

## Connection elements



Item	Description	Fitting	Part No.
1	High pressure hose (includes items A and B)	M 14 x 1.5 LH	see previous page
2	Pressure ring	M 14 x 1.5 LH 9/16"-18 UNF LH	7006365 7006966
3	Pressure screw	M 26 x 1.5	7006364
4	Connector ID 5 (includes 2 each of items 2 and 3)	M 26 x 1.5	7006361
5	Elbow 90° ID 5 (includes 2 each of items 2 and 3)	M 26 x 1.5	7006362
6	T-piece (includes 3 each of items 2 and 3)	M 26 x 1.5	7006363
7	Cross piece (includes 4 each of items 2 and 3)	M 26 x 1.5	7011517



**WARNING:** This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**GIANT**  
Performance Under Pressure

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