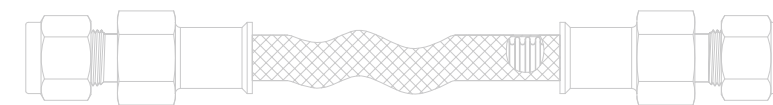
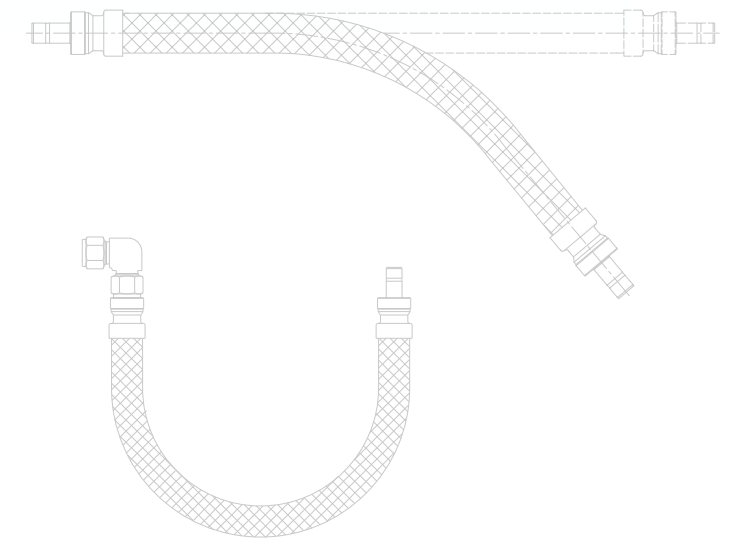


Flexible Hoses



Chemical & Petrochemical
Oil & Gas
Process Control
Power Plant
Hydraulics
Instrumentation
Alternative Energy



VFK

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VFK
Advanced Fluid Control

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Metal Hoses
92M & 92H Series



Features

- Stainless steel constructions increase corrosion resistance
- Maximum working pressure: 92H 3000 psig (207 bar)
92M 1600 psig (160 bar)
- Working temperature: -325°F to 800°F (-200°C to 426°C)
- 316 or 316L stainless steel annular convoluted core
- Single/double braided layer of 304 or 316 stainless steel
- Variety of end connections and materials available
- Every hose is 100% factory tested with water for leak tight performance at 1.5 times the working pressure.

Technical Data

92H Series

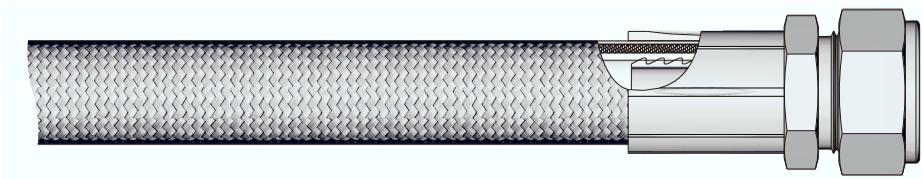
Hose Series & Nominal Hose Size Designator	Nominal Hose Size	Min. Bend Radius in. (mm)		Working Pressure 70°F(20°C)	Burst Pressure 70°F(20°C)
		Static	Dynamic	psig(bar)	psig(bar)
□□92H4-	1/4"	1.5(38)	5.5(140)	3000(207)	12000(828)
□□92H6-	3/8"	2.5(64)	7.0(178)	2000(138)	8000(551)
□□92H8-	1/2"	3.0(76)	8.0(203)	1800(124)	7200(496)
□□92H12-	3/4"	4.0(102)	10.0(254)	1400(97)	5600(390)
□□92H16-	1"	5.0(127)	11.0(279)	1080(75)	4300(300)

92M Series

Hose Series & Nominal Hose Size Designator	Nominal Hose Size	Min. Bend Radius in. (mm)		Working Pressure 70°F(20°C)	Burst Pressure 70°F(20°C)
		Static	Dynamic	psig(bar)	psig(bar)
□□92M4-	1/4"	0.98(25)	4.35(110)	1600(110)	6400(440)
□□92M6-	3/8"	1.50(38)	5.90(150)	1470(101)	6000(413)
□□92M8-	1/2"	1.77(45)	6.5(165)	1110(76.4)	4500(310)
□□92M12-	3/4"	2.76(70)	8.86(225)	860(59.2)	3500(241)
□□92M16-	1"	3.35(85)	10.2(260)	680(46.8)	2680(184)

PTFE lined Metal Hoses

92T Series



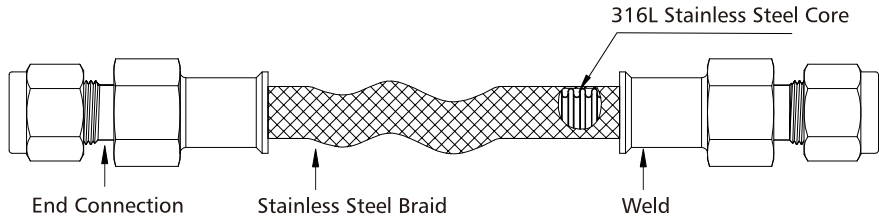
Pressure vs. Temperature

Temperature, °F	-325 to 300	400	500	600	700	750	800
Temperature, °C	-200 to 148	204	260	315	371	398	426
Factors	1	0.93	0.86	0.81	0.77	0.75	0.74

To determine an allowable pressure at a specific temperature, multiply the working pressure by an factor shown on table above.

Example : 92M4 Series at 500°F(260°C). 1600 psig x 0.86 = 1,376psig

Standard Materials of Construction



Wire Braid	304, 316/ASTM A313
Core Bellows Tube	316L/ASTM A240
End Connection	304, 316/ASTM 276

Features

- Sintered PTFE hose with improved permeation-resistance
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -65°F to 500°F (-54°C to 260°C)
- Single braided layer of 304 or 316 stainless steel
- Meet/Exceeds SAE J517-100R14
- Variety of end connections and materials available
- Every hose is 100% factory tested with water for leak tight performance at 1.5 times the working pressure.

Technical Data

Nominal Hose Size Designator	Dash Size	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Min. Bend Radius in. (mm)	Working Pressure 70°F(20°C) psig(bar)	Burst Pressure 70°F(20°C) psig(bar)
□□92T3	3	1/8(3.35)	0.252(6.4)	1.6(40)	3260(225)	12000(828)
□□92T4	4	3/16(4.83)	0.300(7.6)	2.0(50)	3000(210)	12000(840)
□□92T5	5	1/4(6.48)	0.380(9.7)	3.0(75)	3000(210)	12000(840)
□□92T6	6	5/16(8.00)	0.440(11.2)	4.0(100)	2500(175)	10000(700)
□□92T7	7	3/8(9.65)	0.495(12.6)	5.0(125)	2400(165)	9600(660)
□□92T8	8	13/32(10.41)	0.543(13.8)	5.3(135)	2000(140)	8000(560)
□□92T10	10	1/2(12.83)	0.650(16.5)	6.5(165)	1750(120)	7000(480)
□□92T12	12	5/8(16.00)	0.780(19.8)	8.0(200)	1270(88)	5080(352)
□□92T14	14	3/4(19.18)	0.900(22.9)	9.1(230)	1100(75)	4400(300)
□□92T16	16	7/8(22.23)	1.030(26.2)	9.1(230)	900(62)	3600(248)
□□92T18	18	1(25.53)	1.160(29.5)	11.8(300)	900(62)	3600(248)

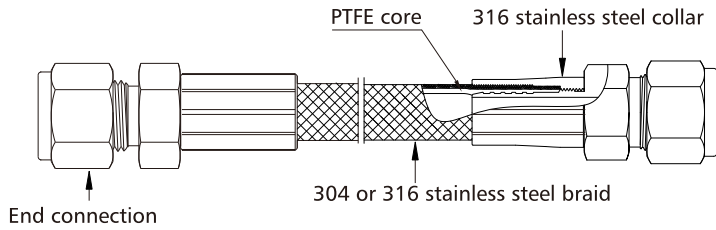
Pressure vs. Temperature

Temperature, °F	-65	0	100	200	300	400	500
Temperature, °C	-53	-17	37	93	148	204	260
Factors	1	1	1	0.58	0.52	0.48	0.45

To determine an allowable pressure at a specific temperature, multiply the working pressure by an factor shown on table above.

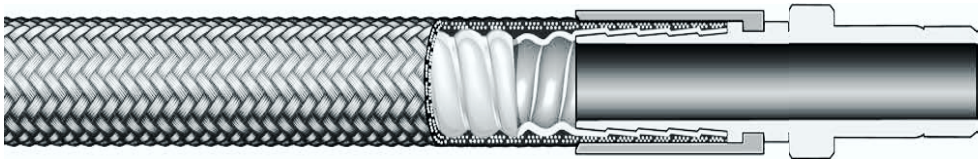
Example : 92T8 Series at 200°F(93°C). 2000 psig x 0.58 = 1,160psig

Standard Materials of Construction



Wire Braid	304, 316/ASTM A313
Core Bellows Tube	Sintered PTFE
End Connection	304, 316/ASTM 276

PTFE Convoluted Metal Hoses
92C Series



Features

- Helically convoluted sintered PTFE hose with improved permeation-resistance
- Maximum working pressure: 2500 psig (175 bar)
- Working temperature: -65°F to 500°F (-54°C to 260°C)
- Single braided layer of 304 or 316 stainless steel
- Variety of end connections and materials available
- Every hose is 100% factory tested with water for leak tight performance at 1.5 times the working pressure.

Technical Data

Nominal Hose Size Designator	Dash Size	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Min. Bend Radius in. (mm)	Working Pressure 70°F(20°C) psig(bar)	Burst Pressure 70°F(20°C) psig(bar)
□□92C4-	4	1/4(6.60)	0.41(10.4)	0.8(20)	2500(175)	10000(700)
□□92C5-	5	5/16(8.18)	0.49(12.4)	0.8(20)	2300(160)	9200(640)
□□92C6-	6	3/8(9.65)	0.54(13.7)	0.8(20)	2200(150)	8800(600)
□□92C8-	8	1/2(12.83)	0.73(18.4)	1.0(25)	1960(135)	7840(540)
□□92C10-	10	5/8(16.00)	0.83(21.0)	2.0(50)	1450(100)	5800(400)
□□92C12-	12	3/4(19.18)	1.02(25.9)	2.6(65)	1160(80)	4640(320)
□□92C14-	14	7/8(22.23)	1.17(29.7)	3.1(80)	870(60)	3480(240)
□□92C16-	16	1(25.53)	1.33(33.8)	3.6(90)	800(55)	3200(220)

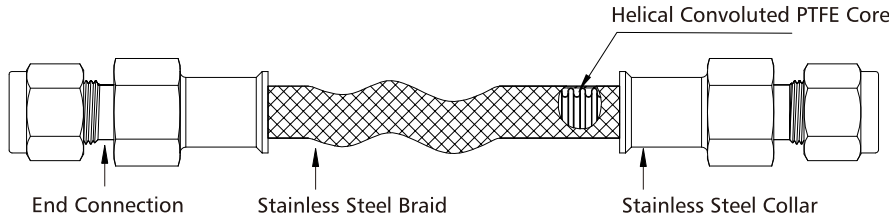
Pressure vs. Temperature

Temperature, °F	-65	0	100	200	300	400	500
Temperature, °C	-53	-17	37	93	148	204	260
Factors	1	1	1	1	1	0.75	0.65

To determine an allowable pressure at a specific temperature, multiply the working pressure by an factor shown on table above.

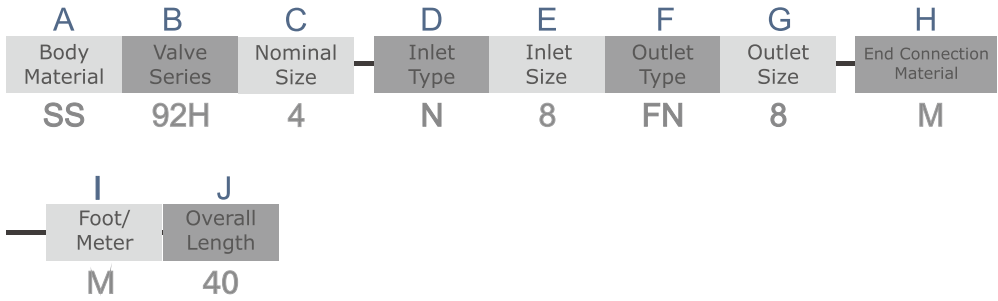
Example : 92C8 Series at 400°F(204°C). 1960 psig x 0.75 = 1,470psig

Standard Materials of Construction



Wire Braid	304 & 316/ASTM A313
Core Bellows Tube	Sintered PTFE
End Connection	304,316/ASTM 276

92 Series Hose How to Order



A	Braid Material
SS	316 SS
S4	304 SS

B	Valve Series
92H	92H Series Hose
92M	92M Series Hose
92T	92T Series Hose
92C	92C Series Hose

C	Nominal Size
3	1/8"
4	3/16"
5	1/4"
6	5/16"
7	3/8"
8	13/32"
10	1/2"
12	5/8"
14	3/4"
16	7/8"
18	1"

D	End Connection Material
	316 SS
6L	316L SS
S4	304 SS
4L	304L SS
M	Monel 400
HC	Hasterlloy C-276
D5	Duplex 2205
D7	Duplex 2507

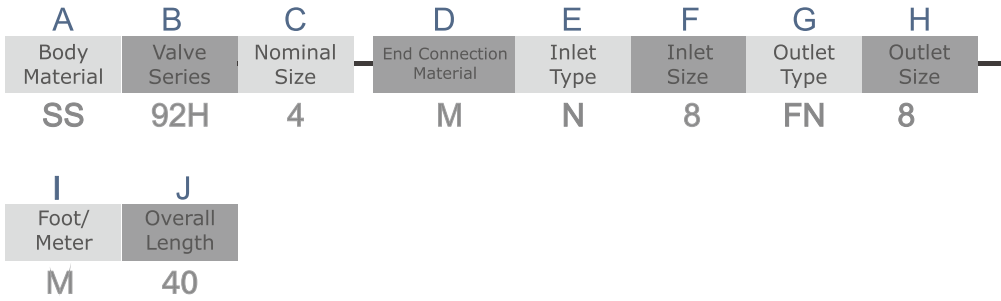
EG	Inlet/Outlet Type
FN	Female NPT
N	Male NPT
FR	Female BSPT
R	Male BSPT
FM	Female ISO (For MRP)
MS	Male ISO (For MRG)
FP	Female BSPP (For MRP)
BP	Male BSPP (For MRG)
FX	Fractional Tube
MX	Metric Tube
FT	Fractional Tube Adapter
MT	Metric Tube Adapter

FH	Port Size
2	1/8"
4	1/4"
6	3/8" or 6 mm
8	1/2" or 8 mm
10	10 mm
12	3/4" or 12 mm
14	14 mm or M14 x 1.5
16	1" or 16 mm

I	Foot/Meter
F	Inch
M	Centimeter

J	Overall Length
XX	Could be specific length at cm or inch

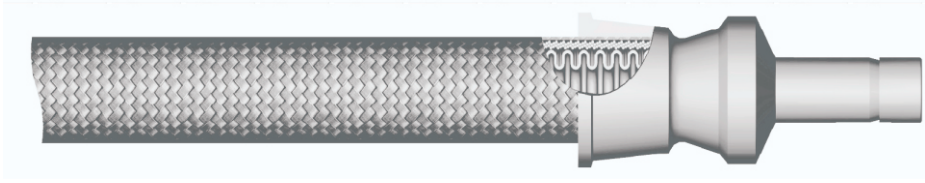
92 Series Hose How to Order



A	Braid Material	C	Nominal Size	EG	Inlet/Outlet Type	FH	Port Size
SS	316 SS	3	92H Series Hose	FN	Female NPT	2	1/8"
S4	304 SS	4	92M Series Hose	N	Male NPT	4	1/4"
		5	92C Series Hose	FR	Female BSPT	6	3/8" or 6 mm
		6	92C Series Hose	R	Male BSPT	8	1/2" or 8 mm
		7	92C Series Hose	FM	Female ISO (For MRP)	10	10 mm
		8	92C Series Hose	MS	Male ISO (For MRG)	12	3/4" or 12 mm
		10	92C Series Hose	FP	Female BSPP (For MRP)	14	14 mm or M14 x 1.5
		12	92C Series Hose	BP	Male BSPP (For MRG)	16	1" or 16 mm
		14	92C Series Hose	FX	Fractional Tube		
		16	92C Series Hose	MX	Metric Tube	I	Foot/Meter
		18	92C Series Hose	FT	Fractional Tube Adapter	F	Foot
				MT	Metric Tube Adapter	M	Meter
B	Valve Series					J	Overall Length
92H	92H Series Hose					XX	Could be specific length at cm or inch
92M	92M Series Hose						
92C	92C Series Hose						

Metal Hoses

92M & 92H Series



Features

- Stainless steel constructions increase corrosion resistance
- Maximum working pressure: 92H 3000 psig (207 bar)
92M 1600 psig (160 bar)
- Working temperature: -325°F to 800°F (-200°C to 426°C)
- 316 or 316L stainless steel annular convoluted core
- Single braided layer of 304 or 316 stainless steel
- Variety of end connections and materials available
- Every hose is 100% factory tested with nitrogen for leak tight performance at maximum working pressure.

Specifications

92H Series

Hose Series & Nominal Hose Size Designator	Nominal Hose Size	Min. Bend Radius in. (cm)		Working Pressure 70°F(20°C)	Burst Pressure 70°F(20°C)
		Static	Dynamic	psig(bar)	psig(bar)
□□92H4-	1/4"	2.25(57.2)	10(25.4)	3000(207)	12000(828)
□□92H6-	3/8"	3.0(76.2)	12(30.5)	2000(138)	8000(551)
□□92H8-	1/2"	4.5(114.3)	16(40.6)	1800(124)	7200(496)
□□92H12-	3/4"	6.0(152)	17(43.2)	1500(103)	6000(413)
□□92H16-	1"	6.75(171)	20(50.8)	1200(82.6)	4800(330)

92M Series

Hose Series & Nominal Hose Size Designator	Nominal Hose Size	Min. Bend Radius in. (cm)		Working Pressure 70°F(20°C)	Burst Pressure 70°F(20°C)
		Static	Dynamic	psig(bar)	psig(bar)
□□92M4-	1/4"	0.75(19.0)	4.35(110)	1600(110)	6400(440)
□□92M6-	3/8"	0.87(22.1)	5.90(150)	1470(101)	6000(413)
□□92M8-	1/2"	1.05(26.4)	6.5(165)	1110(76.4)	4500(310)
□□92M12-	3/4"	1.60(40.9)	8.86(225)	860(59.2)	3500(241)
□□92M16-	1"	1.90(48)	10.2(259)	680(46.8)	2680(184)

Temperature, °F	-325 to 300	400	500	600	700	750	800
Temperature, °C	-200 to 148	204	260	315	371	398	426
Factors	1	0.93	0.86	0.81	0.77	0.75	0.74

To determine an allowable pressure at a specific temperature, multiply the working pressure by an factor shown on table above.

Example : 92M4 Series at 500°F(260°C). 1600 psig x 0.86 = 1,376psig