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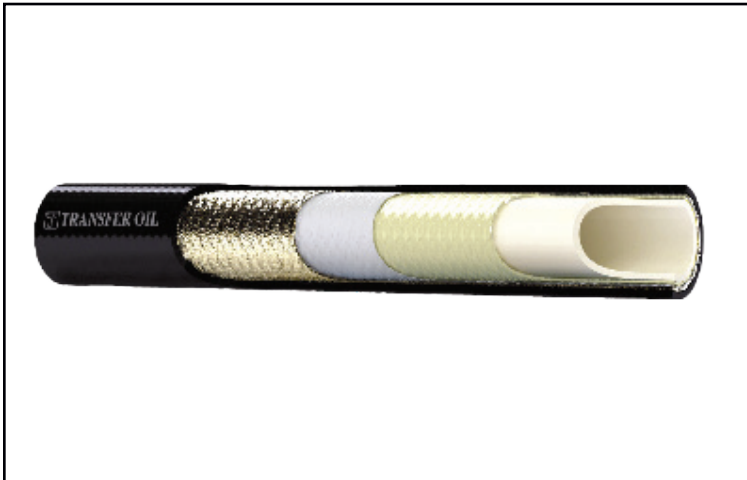
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High Pressure Hoses and Fittings

Thermoplastic - Single and Twin Line



040 - VHP 10,000 PSI



Inner Tube: Polyester elastomer

Reinforcement: Up to three braids of aramid fiber plus one braid of steel wire

Cover: Polyurethane-black-non pinpricked- white inkjet branding

Temperature: -40° F / +212° F,

Application: Off-shore and sub-sea high pressure systems- Pumps and valves-Bolt tensioning tools-Jacking and rerailling equipment

Key Note: 4 to 1 Safety Factor

Part Number	Hose I.D.	Hose O.D.		Max Working Pressure	Minimum Burst Pressure	Minimum Bend Radius		Weight	Termination
	(in)	(in)	(mm)	(psi)	(psi)	(in)	(mm)	(lbs/ft)	Couplings
VHP-041-04	.25	.50	12.70	10,000	40,000	1.38	35	.121	VHP

Available colors: red, black or yellow   
Other colors available upon request

041 - VHP 10,000 PSI TWIN



Inner Tube: Polyester elastomer

Reinforcement: One or two braids of aramid fiber plus one braid of steel wire

Cover: Polyurethane-black-non pinpricked- white inkjet branding

Temperature: -40° F / +212° F,

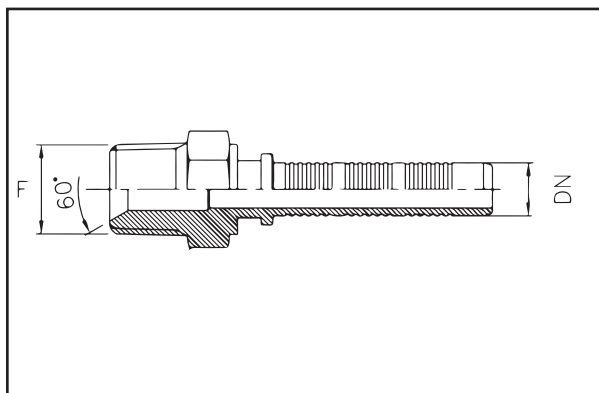
Application: Rescue and safety equipment - High pressure systems and pumps - Bolt tensioning tools - Jacking and rerailling equipment

Key Note: 4 to 1 Safety Factor

Part Number	Hose I.D.	Hose O.D.		Max Working Pressure	Minimum Burst Pressure	Minimum Bend Radius		Weight	Termination
	(in)	(in)	(mm)	(psi)	(psi)	(in)	(mm)	(lbs/ft)	Couplings
VHP-141-04	.25	.50	12.70	10,000	40,000	1.38	35	.242	VHP

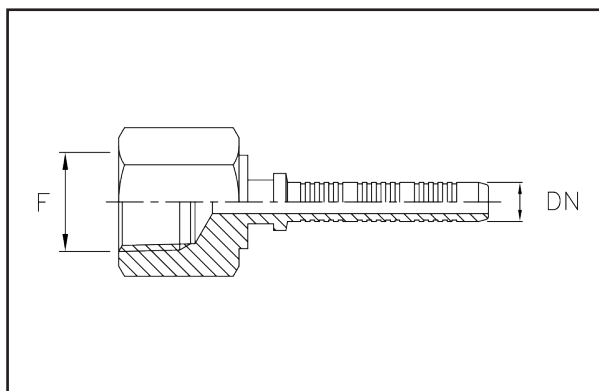
Available colors: red, black or yellow    
Other colors available upon request

VHP Male NPT



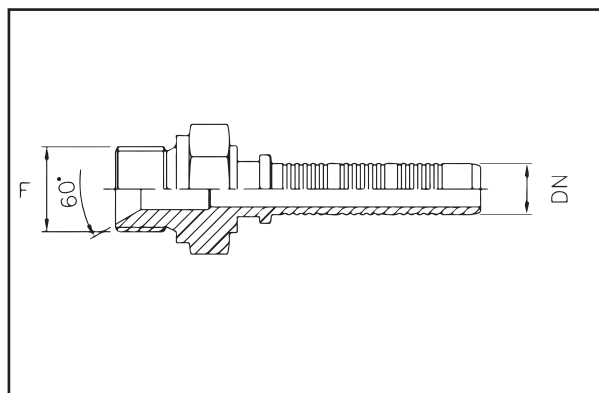
Part Number	Hose I.D. (in)	F
VHP-NPT-04-04	.25	1/4" Male NPT
VHP-NPT-04-06	.25	3/8" Male NPT

VHP Female Rigid NPT



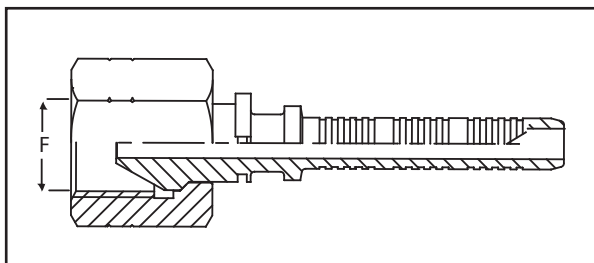
Part Number	Hose I.D. (in)	F
VHP-FNPT-04-04	.25	1/4" Female NPT
VHP-FNPT-04-06	.25	3/8" Female NPT

VHP Male BSPP



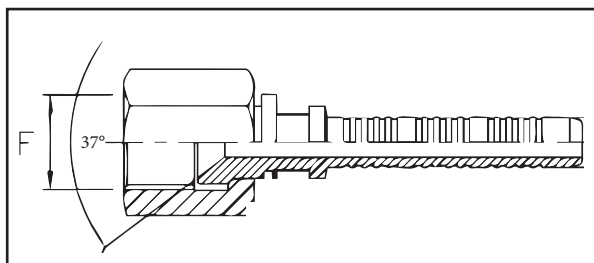
Part Number	Hose I.D. (in)	F
VHP-MBSPP-04-04	.25	1/4" Male BSPP
VHP-MBSPP-04-06	.25	3/8" Male BSPP

VHP Type M



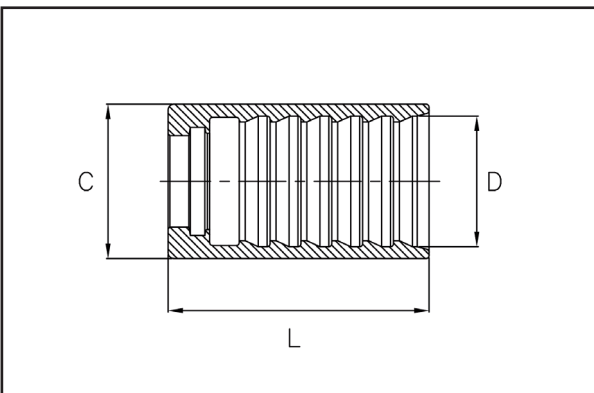
Part Number	Hose I.D. (in)	Material	F
VHP-M9FX-04	1/4"	Carbon Steel	9/16" Type M
VHP-M9FX-04-SS	1/4"	Stainless Steel	9/16" Type M

VHP Female JIC



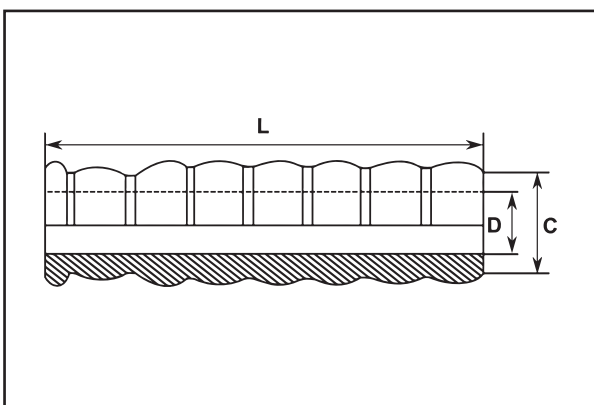
Part Number	Hose I.D. (in)	Material	F
VHP-FJX-04-04	1/4"	Carbon Steel	7/16"-UNF-20
VHP-FJX-04-06	1/4"	Carbon Steel	9/16"-UNF-18
VHP-FJX-04-04-SS	1/4"	Stainless Steel	7/16"-UNF-20
VHP-FJX-04-06-SS	1/4"	Stainless Steel	9/16"-UNF-18

VHP Ferrule



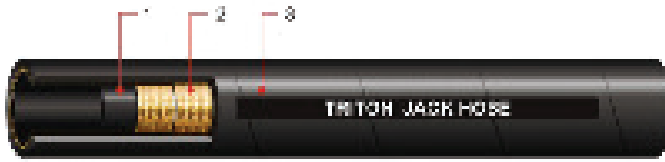
Part Number	Hose I.D. (in)	C	D	L
VHP-Ferrule-04	.25	.787	.59	1.51
VHP-Ferrule-04-SS	.25	.787	.59	1.51

VHP Bend Restrictor



Part Number	Hose I.D. (in)	Dimensions (mm)		
		L	C	D
VHP-BR-04-04	.25	118	29	16

JackHose 10,000 PSI



- 1- Synthetic Rubber Tube
- 2- Two High Tensile Steel Wire Spirals
- 3- Synthetic Rubber Cover

Tube: Oil resistant, synthetic rubber

Reinforcement: Two braids of high tensile steel wire

Cover: Oil and weather resistant synthetic rubber

Temperature: -40° F / +212° F, Intermittent use up to 250° F

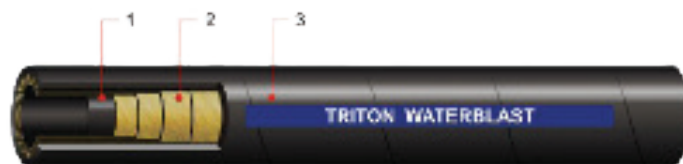
Application: Hydraulic oil, water

Termination: 200 series, bite to wire, 1-piece hose fittings

Key Note: 10,000 PSI static pressures, hydraulic lifting jacks, hydrostatic testing

Part Number	Hose I.D.	Hose O.D.		Max Working Pressure	Minimum Burst Pressure	Minimum Bend Radius		Weight	Termination
	(in)	(in)	(mm)	(psi)	(psi)	(in)	(mm)	(lbs/ft)	Fitting Type
jackhose-04	1/4"	.59	15	10,000	20,000	3.94	100	.22	200 series/1-piece
jackhose-06	3/8"	.74	18.9	10,000	20,000	5.12	130	.34	200 series/1-piece

WB-Waterblast Hose 15,000 PSI



- 1- Synthetic Rubber Tube
- 2- Four High Tensile Steel Wire Spirals
- 3- Synthetic Rubber Cover

Tube: Oil resistant, synthetic rubber

Reinforcement: Multiple Sprial Technology

Cover: Oil and weather resistant synthetic rubber

Temperature: -40° F / +213° F, Intermittent use up to 250° F

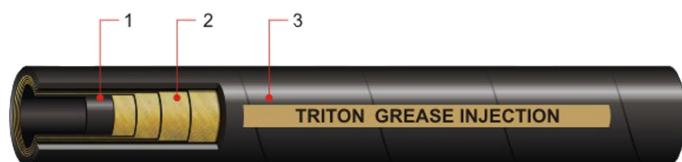
Application: Waterblasting market

Termination: WB series, interlock, external/internal skive 2-piece hose fitting

Key Note: Waterblasting market

Part Number	Hose I.D.	Hose O.D.		Max Working Pressure	Minimum Burst Pressure	Minimum Bend Radius		Weight	Termination
	(in)	(in)	(mm)	(psi)	(psi)	(in)	(mm)	(lbs/ft)	Fitting Type
WB-08-15K	1/2"	1.02	26	15,000	37,500	9.06	230	1.30	WB/2-piece

GI-Grease Injection Hose-15,000PSI



- 1- Synthetic Rubber Tube
- 2- Four High Tensile Steel Wire Spirals
- 3- Synthetic Rubber Cover

Tube: Oil resistant, synthetic rubber

Reinforcement: Multiple Spiral Technology

Cover: Oil and weather resistant synthetic rubber

Temperature: -40° F / +213° F, Intermittent use up to 250° F

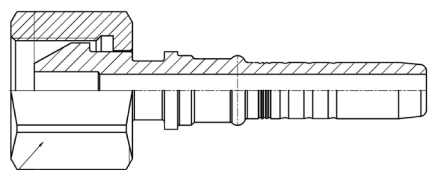
Application: Grease injection, glycol, traces of sour gas

Termination: GI series, interlock, external/internal skive 2-piece fitting

Key Note: Used in wireline market for grease injection services. Hose cover must be pin pricked when being used with sour gas

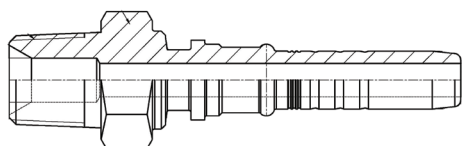
Part Number	Hose I.D.	Hose O.D.		Max Working Pressure	Minimum Burst Pressure	Minimum Bend Radius		Weight	Termination
	(in)	(in)	(mm)	(psi)	(psi)	(in)	(mm)	(lbs/ft)	Fitting Type
GI-08-15K	1/2"	1.02	26	15,000	37,500	9.06	230	1.30	GI/2-piece

GI / WB Series Hose Fittings



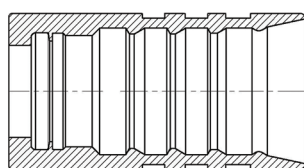
Grease Injection - Type M

Part Number	Hose I.D. (in)	Material	Thread
GI-NPT-08-08-15K	1/2"	Carbon Steel	1/2" NPT
GI-M16FX-08	1/2"	Carbon Steel	1" Type M Swivel
GI-NPT-08-08-15K-SS	1/2"	Stainless Steel	1/2" NPT
GI-M16FX-08-SS	1/2"	Stainless Steel	1" Type M Swivel



Waterblast - NPT

Part Number	Hose I.D. (in)	Material	Thread
WB-NPT-08-08-15K	1/2"	Carbon Steel	1/2" NPT
WB-M16FX-08	1/2"	Carbon Steel	1" Type M Swivel
WB-NPT-08-08-15K-SS	1/2"	Stainless Steel	1/2" NPT
WB-M16FX-08-SS	1/2"	Stainless Steel	1" Type M Swivel



Ferrule

Part Number	Hose I.D. (in)	Material
GI-Ferrule-08-15K	1/2"	Carbon Steel
GI-Ferrule-08-15K-SS	1/2"	Stainless Steel
WB-Ferrule-08-15K	1/2"	Carbon Steel
WB-Ferrule-08-15K-SS	1/2"	Stainless Steel

NV10 - 10,000 PSI

High Pressure Needle Valves



Specifications

Max Working Pressure
10,000 psi

Temperature Ratings:
0° to 800° F (-18° to 427° C)

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Other Options

- Angle w/ replaceable seat, 3-way and 3-way manifold available upon request

Notes:

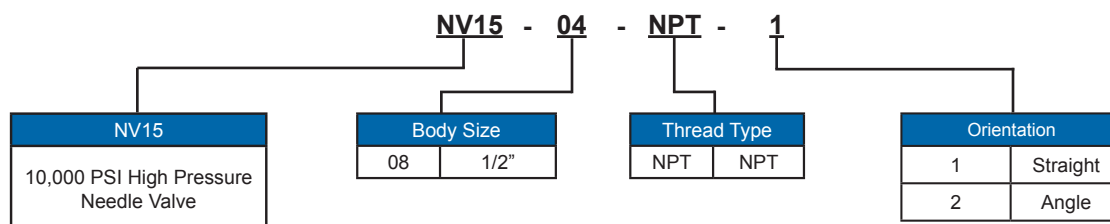
- The value of Cv shown are for 2-way straight valve pattern
- The value of Cv for 2-way angle pattern will be increase about 50% (Base on water)
- Extreme Temperatures
- PFTE is the standard packing material
- Normal Precise Metering valve with PFTE packing can be operated to 450°F (232°C)
- Normal Precise Metering valve with RPTFE glass packing can be operated to 600°F (316°C)
- Normal Precise Metering valve with Graphite packing can be operated to 800°F (427°C)

Features and Benefits

- Tubing sizes available for 1/4", 3/8", 1/2"
- Non-rotating stem and bar stock body design
- Metal-to-metal seating achieves ideal shutoff, longer stem/seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material
- Body material is 316 SS
- Stem material is 17-4PH SS
- Options for VEE or Regulating stem tips
- The locking device of packing gland is reliable
- 2-Way Straight

ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:





Specifications

Max Working Pressure
15,000 psi (1034 bar)

Temperature Ratings:
0° to 800° F (-18° to 427° C)

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Tubing sizes available for 1/4", 3/8", 1/2"
- Non-rotating stem and bar stock body design
- Metal-to-metal seating achieves ideal shutoff, longer stem/seal service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material
- Body material is 316 SS
- Stem material is 17-4PH SS
- Options for VEE or Regulating stem tips
- The locking device of packing gland is reliable
- 2-Way Straight

Other Options

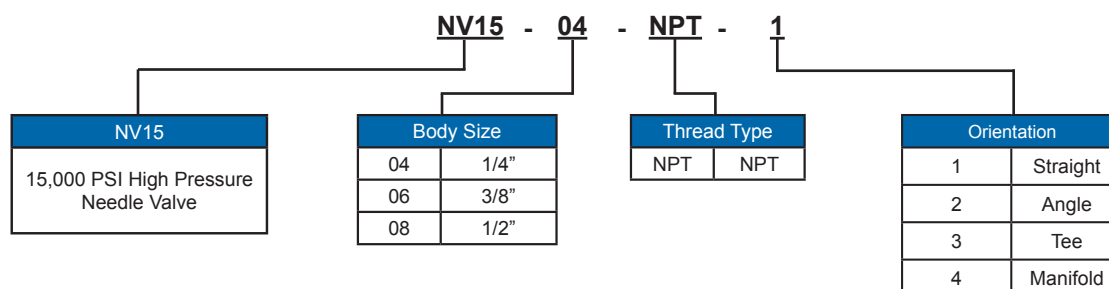
- Angle w/ replaceable seat, 3-way and 3-way manifold available upon request

Notes:

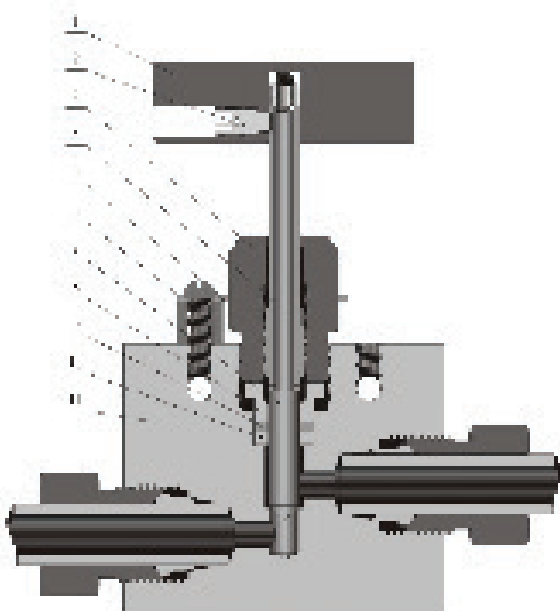
- The value of Cv shown are for 2-way straight valve pattern
- The value of Cv for 2-way angle pattern will be increase about 50% (Base on water)
- Extreme Temperatures
- PFTE is the standard packing material
- Normal Precise Metering valve with PFTE packing can be operated to 450°F (232°C)
- Normal Precise Metering valve with RPTFE glass packing can be operated to 600°F (316°C)
- Normal Precise Metering valve with Graphite packing can be operated to 800°F (427°C)

ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:

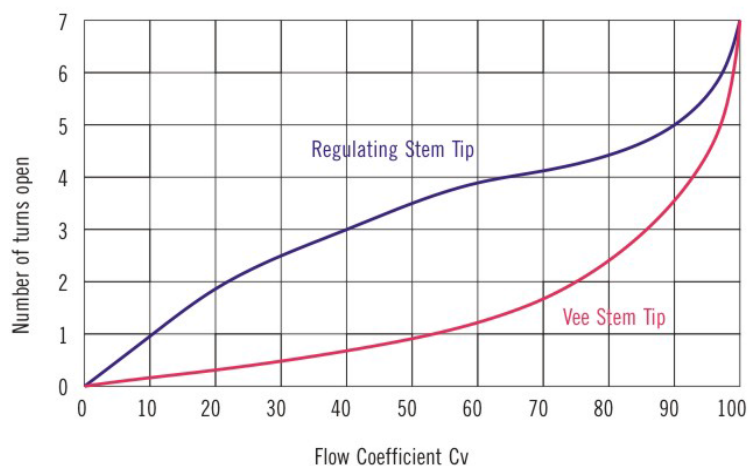


Standard Materials of Construction

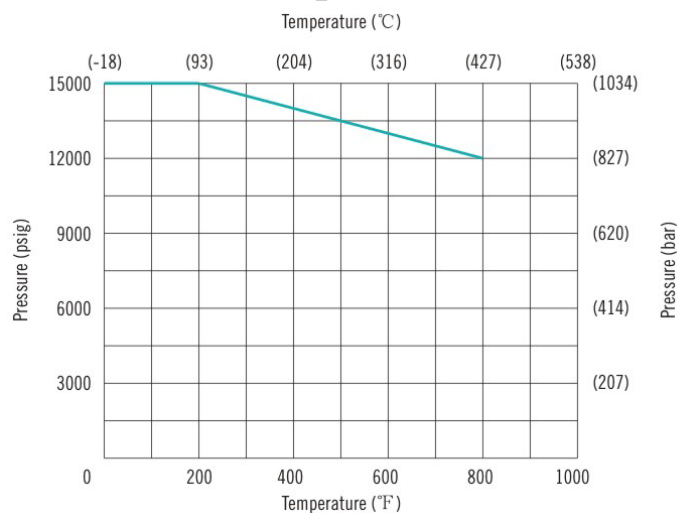


Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless Steel
2	Handle Screw	Stainless Steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless Steel
7	Stem	17-4PH/A564
8	Packing Ring	C63000/B150
9	Packing	PFTE/RPTFE/Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
Lubricant		Molybdenum disulfide

Flow Data at 100°F (38°C)



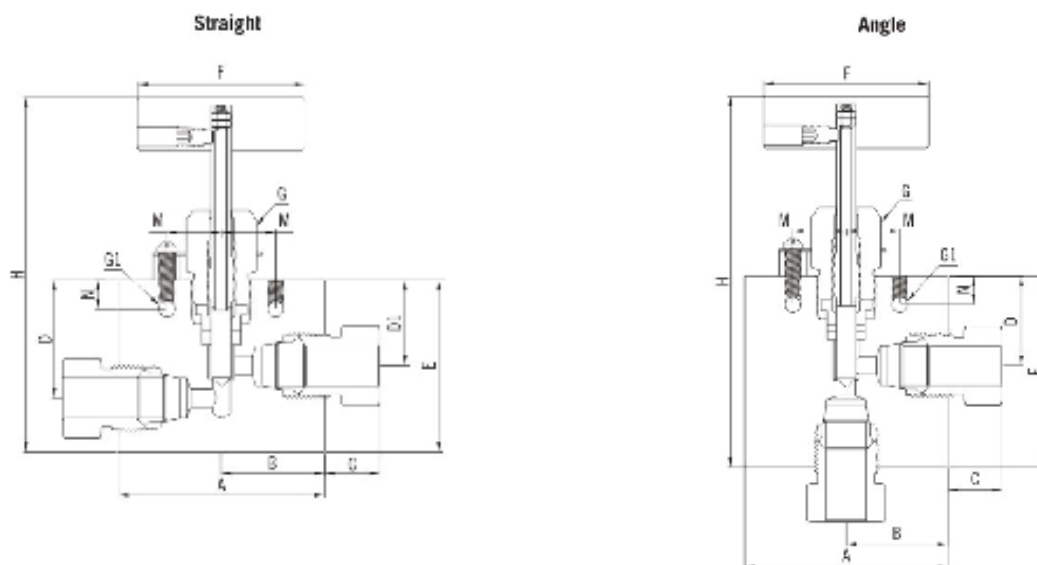
Pressure and Temperature



Technical Data

Tube O.D. in.	Orifice in. (mm)	Cv	Pressure @ Room Temperature psi (bar)
1/4	0.188 (4.77)	0.65	15,000 (1034)
3/8	0.250 (6.35)	0.95	15,000 (1034)
1/2	0.375 (9.53)	1.90	15,000 (1034)

Dimensions Straight and Angle



Dimensions (Straight)

Tube OD in.	Drift in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
1/4	0.188 (4.77)	2.30 (58.8)	1.00 (25.4)	0.44 (11.2)	1.62 (41.15)	1.19 (30.23)	2.00 (50.8)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.50 (114.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
3/8	0.250 (6.35)	2.30 (58.8)	1.00 (25.4)	0.53 (13.5)	1.62 (41.15)	1.19 (30.23)	2.00 (50.8)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.50 (114.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
1/2	0.375 (9.52)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	2.38 (60.45)	1.75 (44.45)	2.88 (73.15)	4.00 (101.6)	1.00 (25.4)	0.34 (8.54)	6.56 (167.3)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)

Dimensions (Angle)

Tube OD in.	Drift in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
1/4	0.188 (4.77)	2.30 (58.8)	1.00 (25.4)	0.44 (11.2)	1.19 (30.23)		2.19 (55.63)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
3/8	0.250 (6.35)	2.30 (58.8)	1.00 (25.4)	0.53 (13.5)	1.19 (30.23)		2.19 (55.63)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
1/2	0.375 (9.52)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	1.75 (44.45)		3.38 (85.85)	4.00 (101.6)	1.00 (25.4)	0.34 (8.54)	6.45 (163.8)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)



Specifications

Max Working Pressure
20,000 psi (1379 bar)

Temperature Ratings:
0° to 800° F (-18° to 427° C)

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Tubing sizes available for 1/4", 3/8", 9/16" and 3/4"
- Non-rotating stem and bar stock body design
- Metal-to-metal seating achieves ideal shutoff, longer stem/seal service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material
- Body material is 316 SS
- Stem material is 17-4PH SS
- Options for VEE or Regulating stem tips
- The locking device of packing gland is reliable

Other Options

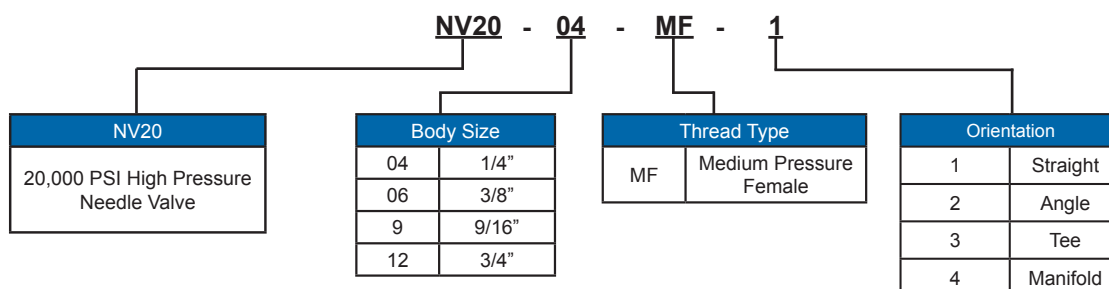
- Angle w/ replaceable seat, 3-way and 3-way manifold available upon request

Notes:

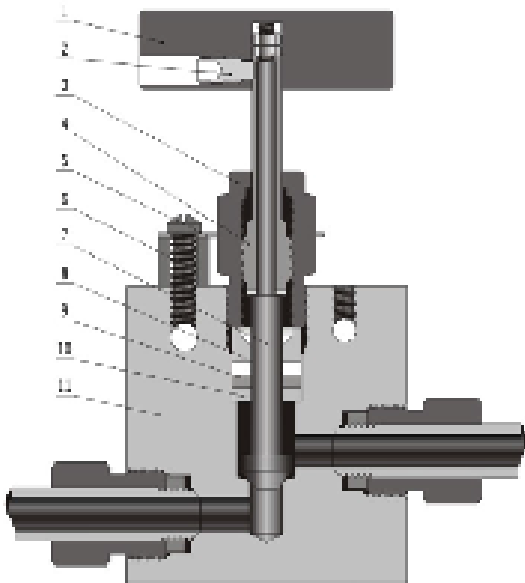
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- Normal Precise Metering valve with RPTFE glass packing can be operated to 600°F (316°C)
- Normal Precise Metering valve with Graphite packing can be operated to 800°F (427°C)

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DNP AMERICAS PART NUMBERING SYSTEM:

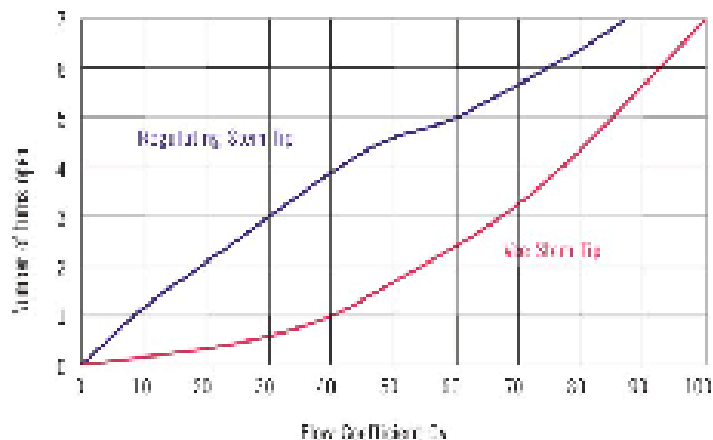


Standard Materials of Construction

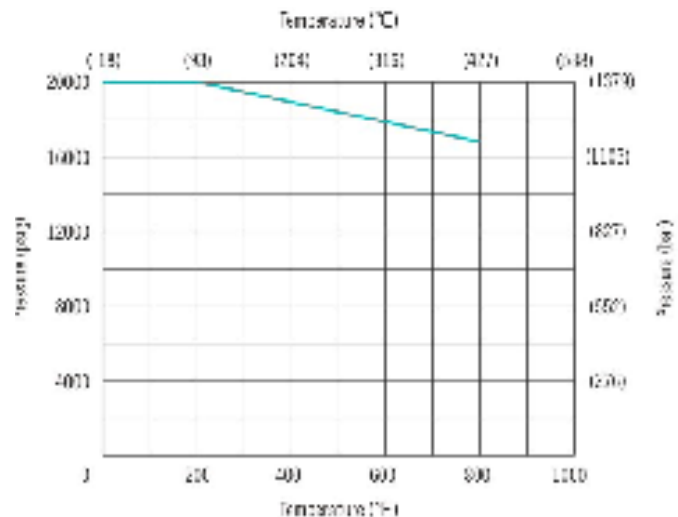


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1	Handle	Stainless Steel
2	Handle Screw	Stainless Steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless Steel
7	Stem	17-4PH/A564
8	Packing Ring	C63000/B150
9	Packing	PFTE/RPTFE/Extend stuffing box valve with of Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
Lubricant		Molybdenum disulfide

Flow Data at 100°F (38°C)



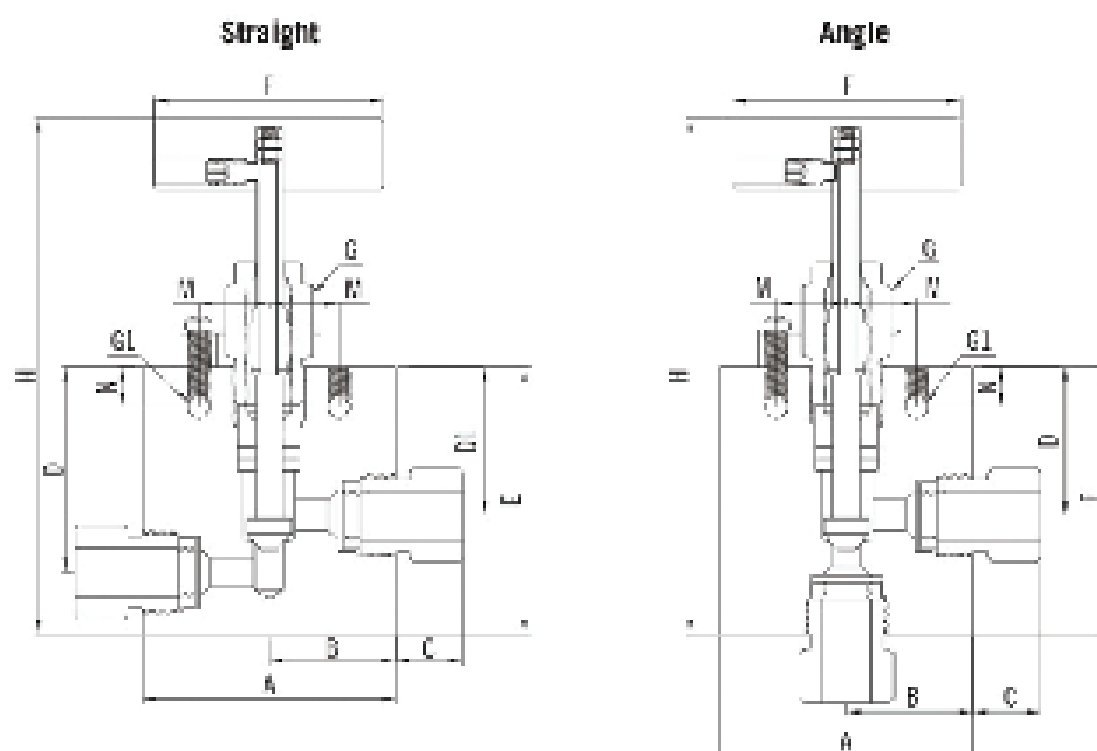
Pressure and Temperature



Technical Data

Tube O.D. in.	Orifice in. (mm)	Cv	Pressure @ Room Temperature psi (bar)
1/4"	0.125 (3.18)	0.31	20,000 (1.379)
3/8"	0.219 (5.56)	1.72	50,000 (3.379)
1/2"	0.312 (7.92)	3.00	50,000 (3.379)
3/4"	0.438 (11.13)	5.30	50,000 (3.379)
1"	0.562 (14.27)	8.40	20,000 (1.379)

Dimensions Straight and Angle



Dimensions (Straight)

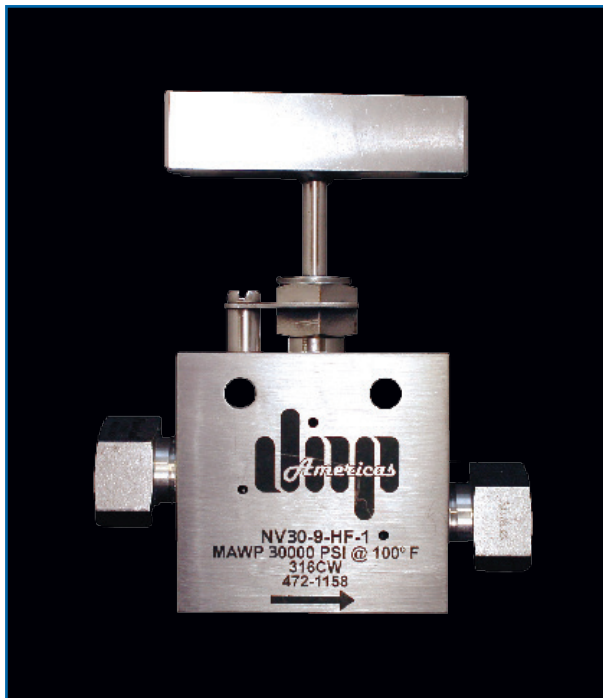
Outside Diameter Tube Size in.	Drill Size in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
14	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	1.30 (33.0)	1.62 (41.15)	1.19 (30.23)	2.44 (62.0)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.00 (101.6)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	1.47 (37.34)	1.62 (41.15)	1.19 (30.23)	2.44 (62.0)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.00 (101.6)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
1/2	0.312 (7.93)	2.00 (50.8)	1.25 (31.75)	1.63 (41.40)	2.34 (59.43)	1.75 (44.45)	2.44 (62.0)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	5.00 (127.0)	0.68 (17.28)	0.50 (12.7)	1.00 (25.4)
3/4	0.438 (11.13)	2.00 (50.8)	1.50 (38.1)	1.62 (41.27)	3.00 (76.2)	2.25 (57.15)	3.75 (95.25)	10.25 (260.4)	1.12 (28.4)	0.44 (11.18)	7.50 (191.5)	0.88 (22.3)	0.62 (15.8)	1.38 (35.05)
1	0.562 (14.27)	4.12 (104.5)	2.00 (50.8)	1.63 (41.27)	3.75 (95.25)	2.81 (71.37)	4.63 (117.6)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	9.00 (228.6)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

Dimensions (Angle)

Outside Diameter Tube Size in.	Drill Size in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
14	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	1.35 (34.3)	1.19 (30.23)		2.44 (62.0)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.00 (101.6)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	1.47 (37.34)	1.19 (30.23)		2.44 (62.0)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.00 (101.6)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
1/2	0.312 (7.93)	2.00 (50.8)	1.25 (31.75)	1.63 (41.40)	1.75 (44.45)		3.00 (76.2)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	5.00 (127.0)	0.68 (17.28)	0.50 (12.7)	1.00 (25.4)
3/4	0.438 (11.13)	2.00 (50.8)	1.50 (38.1)	1.62 (41.27)	2.25 (57.15)		4.25 (108.0)	10.25 (260.4)	1.12 (28.4)	0.44 (11.18)	7.50 (191.5)	0.88 (22.3)	0.62 (15.8)	1.38 (35.05)
1	0.562 (14.27)	4.12 (104.5)	2.00 (50.8)	1.63 (41.27)	2.81 (71.37)		5.13 (130.1)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	9.00 (228.6)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

NV30 - 30,000 PSI

High Pressure Needle Valves



Specifications

Max Working Pressure
30,000 psi (2068 bar)

Temperature Ratings:
0° to 800° F (-18° to 427° C)

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Tubing sizes available for 1/4" to 9/16"
- Non-rotating stem and bar stock body design
- Metal-to-metal seating achieves ideal shutoff, longer stem/seal service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material
- Body material is 316 SS
- Stem material is 17-4PH SS
- Options for VEE or Regulating stem tips
- The locking device of packing gland is reliable

Other Options

- Angle w/ replaceable seat, 3-way and 3-way manifold available upon request

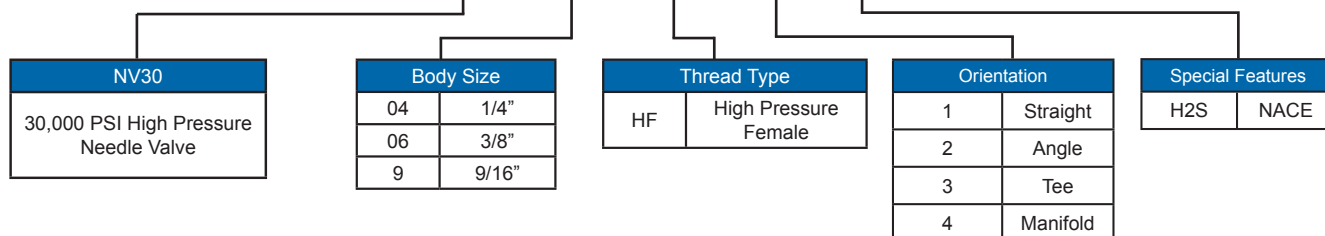
Notes:

- The value of Cv shown are for 2-way straight valve pattern
- The value of Cv for 2-way angle pattern will be increase about 50% (Base on water)
- Extreme Temperatures
- PFTE is the standard packing material
- Normal Precise Metering valve with PFTE packing can be operated to 450°F (232°C)
- Normal Precise Metering valve with RPTFE glass packing can be operated to 600°F (316°C)
- Normal Precise Metering valve with Graphite packing can be operated to 800°F (427°C)

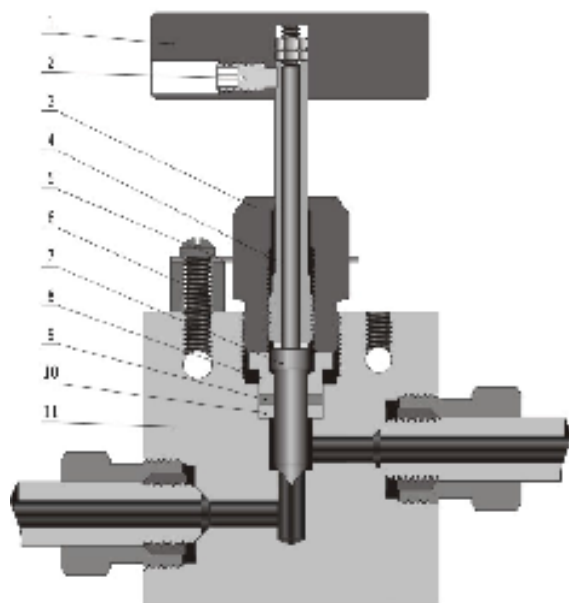
ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:

NV30 - 04 - HF - 1 - H2S

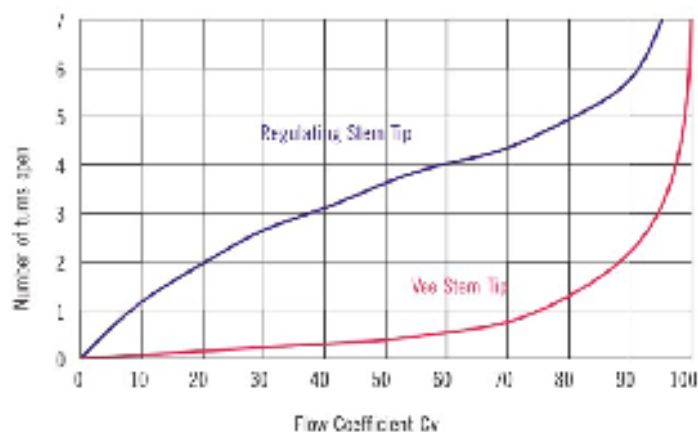


Standard Materials of Construction

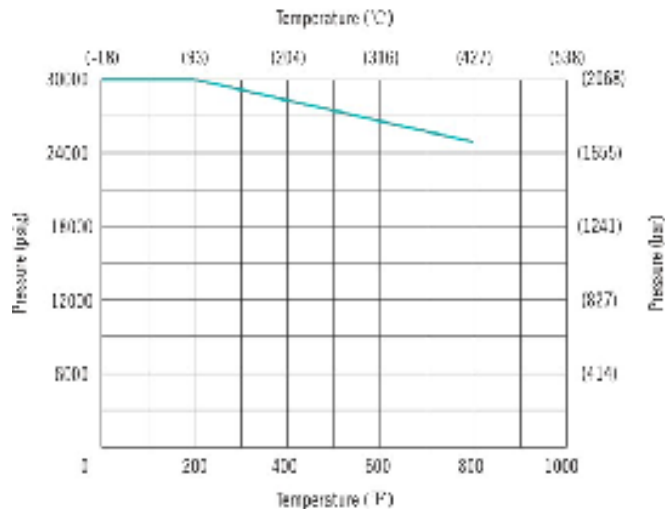


Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless Steel
2	Handle Screw	Stainless Steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless Steel
7	Stem	17-4PH/A564
8	Packing Ring	17-4PH/A564
9	Packing	PFTE/RPTFE/Extend stuffing box valve with of Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
Lubricant		Molybdenum disulfide

Flow Data at 100°F (38°C)



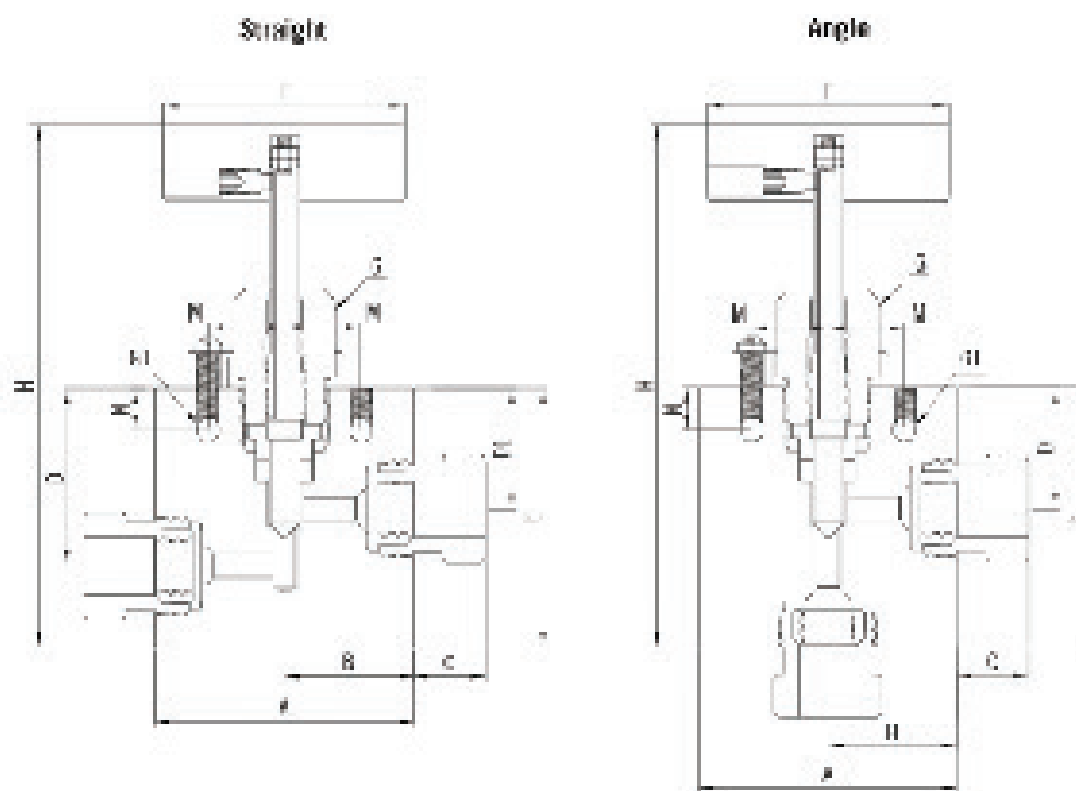
Pressure and Temperature



Technical Data

Tube O.D. in.	Orifice in. (mm)	Rated Cv	Pressure @ Room Temperature psi (bar)
1/4	0.094 (2.39)	0.12	30,000 (2068)
3/8	0.125 (3.18)	0.23	30,000 (2068)
9/16	0.125 (3.18)	0.33	30,000 (2068)

Dimensions Straight and Angle



Dimensions (Straight)

Tube OD in.	Orifice in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.00 (25.4)	1.12 (28.4)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	1.22 (30.9)	4.52 (114.4)	0.60 (15.3)	0.33 (8.6)	1.00 (25.4)
3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.00 (25.4)	1.12 (28.4)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	1.22 (30.9)	4.52 (114.4)	0.60 (15.3)	0.33 (8.6)	1.00 (25.4)
1/2	0.125 (3.18)	2.62 (66.5)	1.31 (33.2)	0.51 (12.9)	1.06 (26.9)	1.12 (28.4)	2.44 (61.9)	3.00 (76.2)	1.00 (25.4)	1.28 (32.5)	5.75 (145.8)	0.60 (15.3)	0.33 (8.6)	1.30 (33.0)

Dimensions (Angle)

Tube OD in.	Orifice in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.12 (28.4)		2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	1.22 (30.9)	4.52 (114.4)	0.60 (15.3)	0.33 (8.6)	1.00 (25.4)
3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.12 (28.4)		2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	1.22 (30.9)	4.52 (114.4)	0.60 (15.3)	0.33 (8.6)	1.00 (25.4)
1/2	0.125 (3.18)	2.62 (66.5)	1.31 (33.2)	0.51 (12.9)	1.12 (28.4)		2.44 (61.9)	3.00 (76.2)	1.00 (25.4)	1.28 (32.5)	5.75 (145.8)	0.60 (15.3)	0.33 (8.6)	1.30 (33.0)



Specifications

Max Working Pressure
60,000 psi (4137 bar)

Temperature Ratings:
0° to 800° F (-18° to 427° C)

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Tubing sizes available for 1/4" to 9/16"
- Non-rotating stem and bar stock body design
- Metal-to-metal seating achieves ideal shutoff, longer stem/seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material
- Body material is 316 SS
- Stem material is 17-4PH SS
- Options for VEE or Regulating stem tips
- The locking device of packing gland is reliable

Other Options

- Angle w/ replaceable seat, 3-way and 3-way manifold available upon request

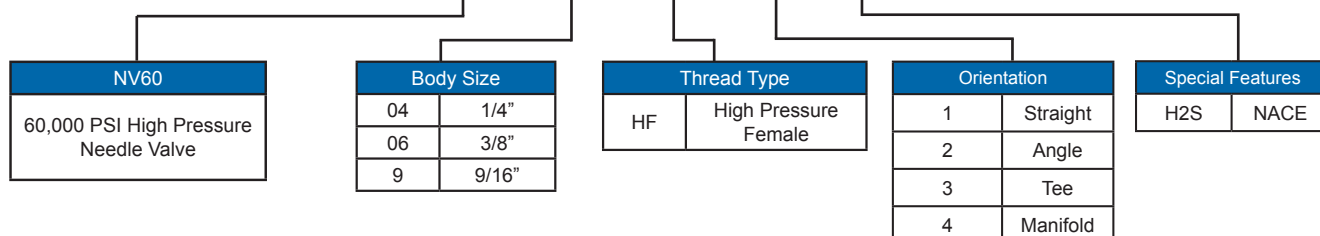
Notes:

- The value of Cv shown are for 2-way straight valve pattern
- The value of Cv for 2-way angle pattern will be increase about 50 (Base on water)
- Extreme Temperatures
- PFTE is the standard packing material
- Normal Precise Metering valve with PFTE packing can be operated to 450°F (232°C)
- Normal Precise Metering valve with RPTFE glass packing can be operated to 600°F (316°C)
- Normal Precise Metering valve with Graphite packing can be operated to 800°F (427°C)

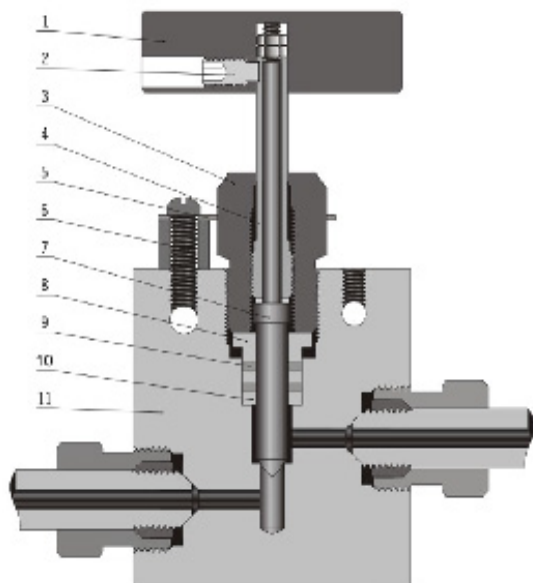
ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:

NV60 - 04 - HF - 1 - H2S

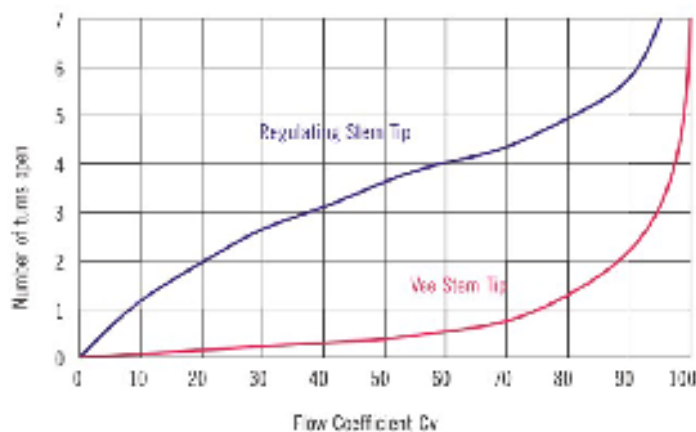


Standard Materials of Construction

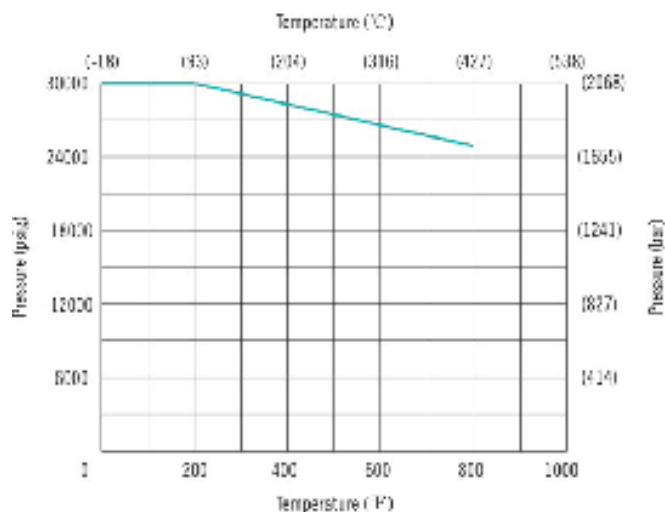


Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless Steel
2	Handle Screw	Stainless Steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless Steel
7	Stem	17-4PH/A564
8	Packing Ring	17-4PH/A564
9	Packing	PFTE/RPTFE/Extend stuffing box valve with of Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
Lubricant		Molybdenum disulfide

Flow Data at 100°F (38°C)



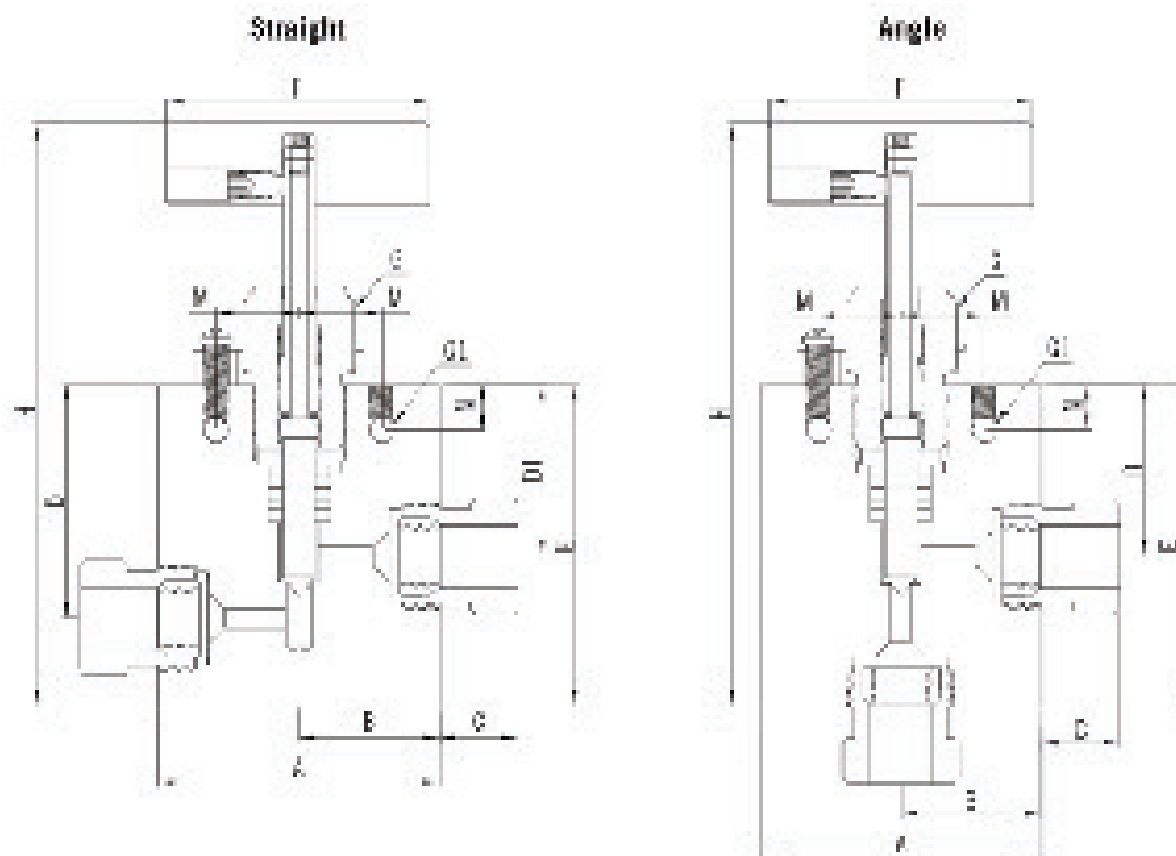
Pressure and Temperature



Technical Data

Tube O.D. in.	Orifice in. (mm)	Rated Cv	Pressure @ Room Temperature psi (bar)
1/4	0.062 (1.57)	0.08	60,000 (4137)
3/8	0.062 (1.57)	0.09	60,000 (4137)
9/16	0.078 (1.98)	0.14	60,000 (4137)

Dimensions Straight and Angle



Dimensions (Straight)

Tube OD in.	Orifice in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
1/4"	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	1.50 (38.1)	1.39 (35.3)	1.31 (33.3)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.75 (120.7)	0.65 (16.51)	0.38 (9.65)	1.00 (25.4)
3/8"	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	1.50 (38.1)	1.39 (35.3)	1.31 (33.3)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.75 (120.7)	0.65 (16.51)	0.38 (9.65)	1.00 (25.4)
1/2"	0.078 (1.98)	2.62 (66.5)	1.31 (33.3)	1.79 (45.4)	1.75 (44.4)	1.31 (33.3)	2.30 (58.4)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.13 (130.3)	0.65 (16.51)	0.38 (9.65)	1.00 (25.4)

Dimensions (Angle)

Tube OD in.	Orifice in. (mm)	A	B	C	D	D1	E	F	G	G1	H	M	N	Thickness
		in. (mm)												
1/4"	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	1.50 (38.1)	1.31 (33.3)		2.38 (60.4)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.73 (145.6)	0.65 (16.51)	0.38 (9.65)	1.00 (25.4)
3/8"	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	1.50 (38.1)	1.31 (33.3)		2.62 (66.5)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.25 (133.0)	0.65 (16.51)	0.38 (9.65)	1.00 (25.4)
1/2"	0.078 (1.98)	2.62 (66.5)	1.31 (33.3)	1.79 (45.4)	1.31 (33.3)		2.81 (71.3)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.41 (138.2)	0.65 (16.51)	0.38 (9.65)	1.00 (25.4)



Specifications

Max Working Pressure
10,000 psi (689 bar)

Temperature Ratings:
-50° to 450° F (-46° to 232° C)

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Tubing sizes available for 1/4" to 1"
- Free floating ball design provides seat wear compensation
- Bi-directional flow for 2-way valves
- Blow out resistant stem with self-sealing function
- PTFE is the standard packing material
- Body material is 316 SS
- Stem material is 316 SS
- Made in Canada

Other Options

- 2-Way and 3-Way available

Notes:

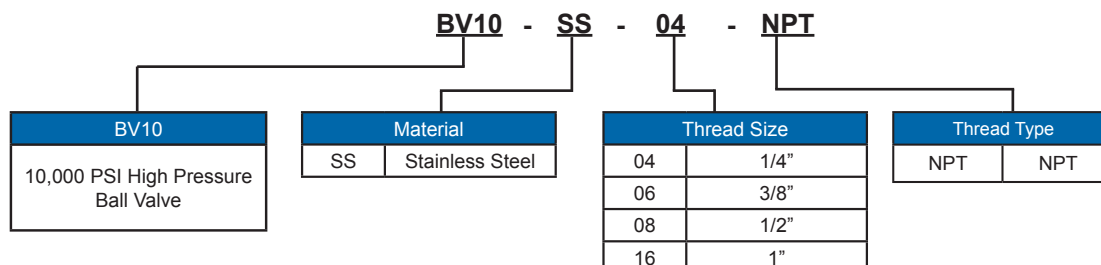
- Packing Materials PTFE, Buna-N, or Fluorocarbon FKM

Temperature Range:

- PTFE: -40° to 450° F (-40° to 232° C)
- Buna-N: -40° to 250° F (-40° to 121° C)
- Fluorocarbon FKM: -40° to 400° F (-40° to 204° C)

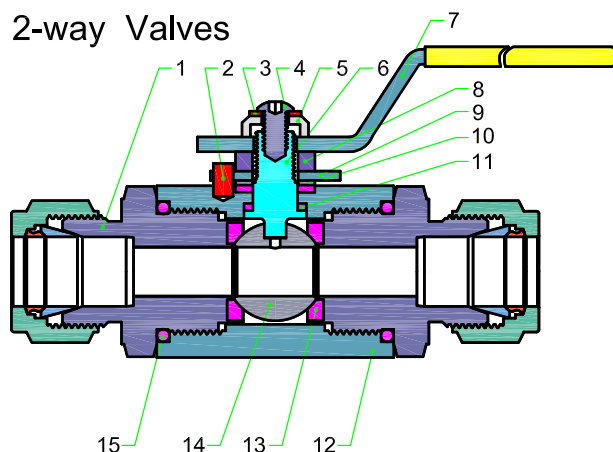
ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:

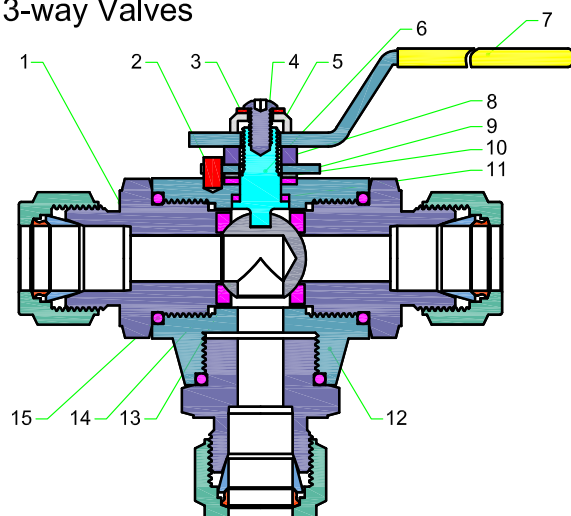


Standard Materials of Construction

2-way Valves

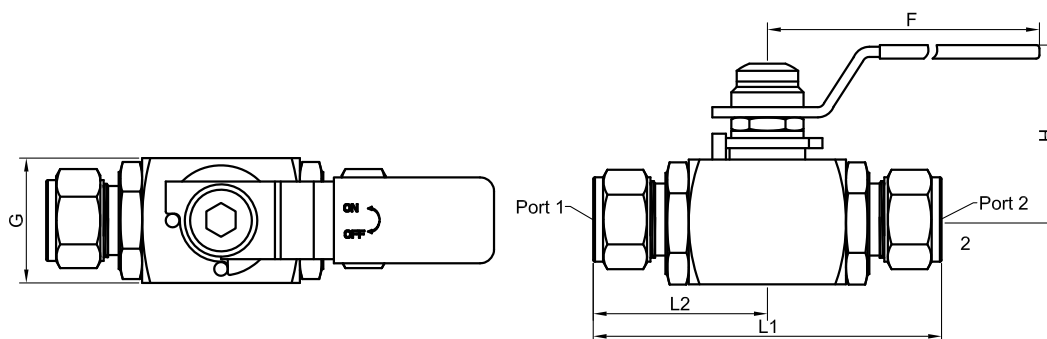


3-way Valves



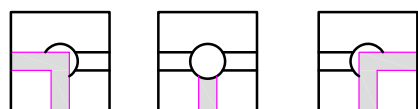
Item	Component	Body Materials		
		316 SS	321 SS	304 SS
1	End connectors	316 SS	321 SS	304 SS
2	Stop pin	Stainless steel		
3	Spring washer	316 SS/A276		
4	Bolt	Stainless steel		
5	Cover	316 SS/A276		
6	Stem	316 SS/A276		
7	Handle	Stainless Steel with vinyl cover		
8	Stem nut	Stainless steel		
9	Stop block	316 SS/A276		
10	Stem washer	316 SS/A276		
11	Stem packings	PTFE/Fluorocarbon FKM/Buna N		
12	Body	316 SS	321 SS	304 SS
13	Seats	PTFE/PCTFE/PEEK		
14	Ball	316 SS/A479		
15	End seals	PTFE/Fluorocarbon FKM/Buna-N		

Dimensions Two Way Ball Valves

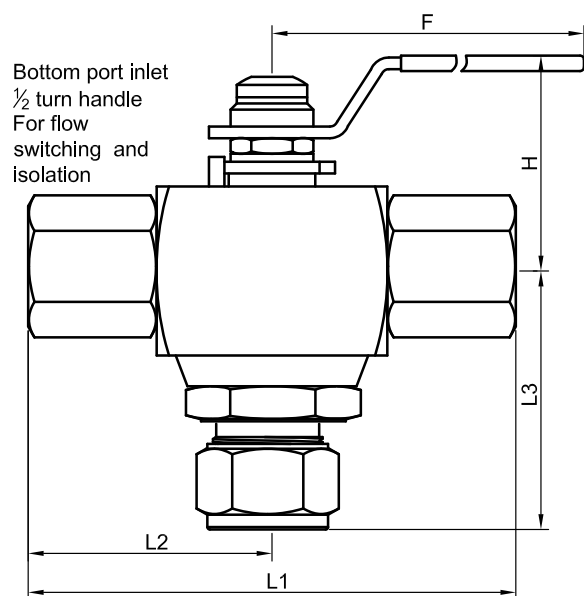


Tube OD	Orifice	L1	L2	F	H	G	NPT Size	Orifice	L1	L2	F	H	G
1/4"	0.39	3.54	1.77	5.12	1.73	1.30	1/4"	0.39	2.52	1.26	5.12	1.73	1.30
3/8"	0.39	3.72	1.86	5.12	1.73	1.30	3/8"	0.39	2.80	1.40	5.12	1.73	1.30
1/2"	0.39	3.92	1.96	5.12	1.73	1.30	1/2"	0.39	3.11	1.56	5.12	1.73	1.30
3/4"	0.50	4.36	2.18	5.71	1.89	1.50	3/4"	0.50	3.54	1.77	5.71	1.89	1.50
1"	0.75	5.11	2.66	6.3	2.08	1.96	1"	0.75	3.86	1.93	6.3	2.08	1.96

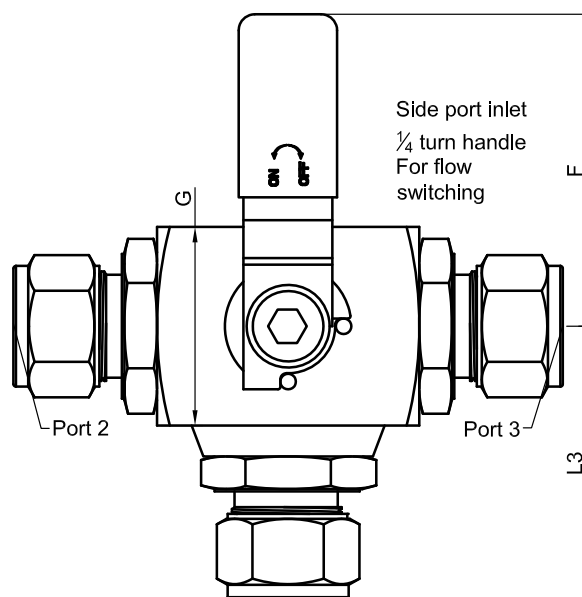
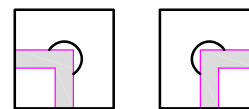
Dimensions Three Way Ball Valves



Isolation



Vertical Pattern



Horizontal Pattern

Size	Orifice (Cv)	L1	L2	F	H	G
1/4" Tube	0.39 (1.20)	3.54	1.77	5.12	1.73	1.3
3/8" Tube	0.39 (3.70)	3.72	1.86			
1/2" Tube	0.39 (7.50)	3.92	1.96			
3/4" Tube	0.50 (10.0)	4.36	2.18	5.71	1.89	1.5
1" Tube	0.75 (30.0)	5.11	2.66	6.3	2.08	1.96
1/4" NPT	0.39 (7.50)	2.52	1.26	5.12	1.73	1.3
3/8" NPT		2.8	1.4			
1/2" NPT		3.11	1.56			
3/4" NPT	0.50 (10.0)	3.54	1.77	5.71	1.89	1.5
1" NPT	0.75 (30.0)	3.86	1.93	6.3	2.08	1.96



Specifications

Max Working Pressure
15,000 psi (1034 bar)

Temperature Ratings:
0° to 400° F (-17.8° to 204° C)

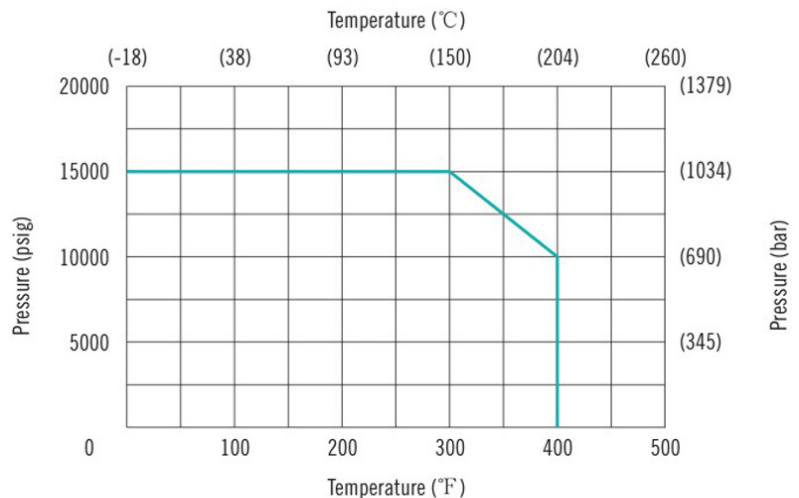
Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Sizes available 1/4" to 1/2"
- One-piece, trunnion mounted style, ideal for severe duty applications
- Two-way and three-way valve configurations
- PEEK seats offer excellent resistance to chemicals, heat, and wear/abrasion
- Full-port flow path minimizes pressure drop
- 316 cold worked stainless steel construction
- Viton o-rings available for high-temperature applications
- Wide selection of tube and pipe end fittings available

Pressure and Temperature



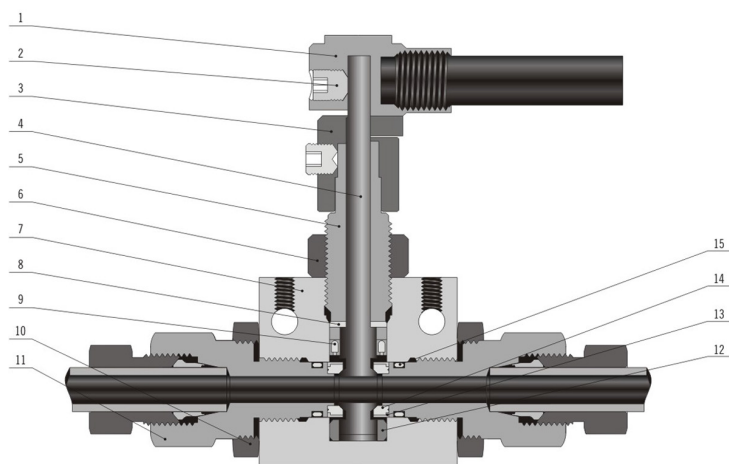
ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:

BV15 - SS - 04 - NF - 4 - 1

BV15 15,000 PSI High Pressure Ball Valve	Body Material SS - 316SS	Body Size		Connection		Orifice		Body Style	
		04	1/4"	NF	NPTF	2-Way		1	2-Way Straight
		06	3/8"	MF	Medium Pressure	4	1/4"	2	3-Way - 180° Turn
		08	1/2"	HF	High Pressure	6	3/8"	3	3-Way - 90° Turn
						3-Way			
						2	3/16"		
						6	3/8"		

Standard Materials of Construction



Item	Component	Valve Material
1	Handle	316 SS/A276
2	Set Screw	Stainless Steel
3	Stopping Device	316 SS/A276
4	Ball Stem	316 SS/A479
5	Packing Gland	316 SS/A479
6	Locking Piece	316 SS/A276
7	Valve Body	316 SS/A479
8	Thrust Washer	316 SS/A479
9	Spring Energized seal	Fluorocarbon FKM
10	Lock Nut	316 SS/A276
11	Seat Gland	316 SS/A479
12	Bearing	PEEK
13	Seat Retainer	316 SS/A479
14	Seat	PEEK
15	End Seal	Fluorocarbon FKM
Lubricant		Copper/molybdenum disulfide

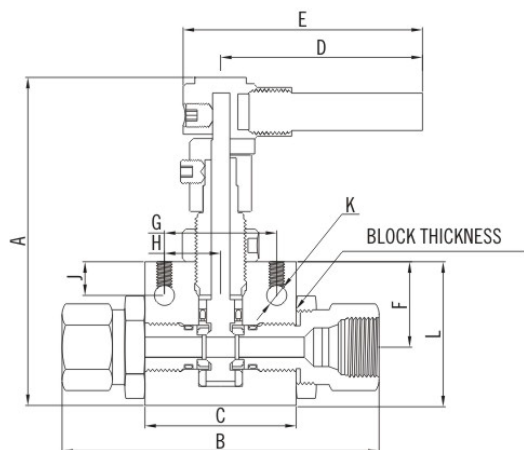
Technical Data

Tube O.D. in.	2-way Orifice Size in. (mm)	3-way Orifice Size in. (mm)	Rated Cv (2-WAY)	Rated Cv (3-WAY)	Pressure/Temperature Rating psi (bar) @ Room Temperature
1/4	0.128 (3.25)	0.128 (3.25)	0.65	0.26	15,000 (1034)
3/8	0.250 (6.35)	0.188 (4.77)	0.96	0.50	15,000 (1034)
1/2	0.250 (6.35)	0.188 (4.77)	1.51	0.50	15,000 (1034)

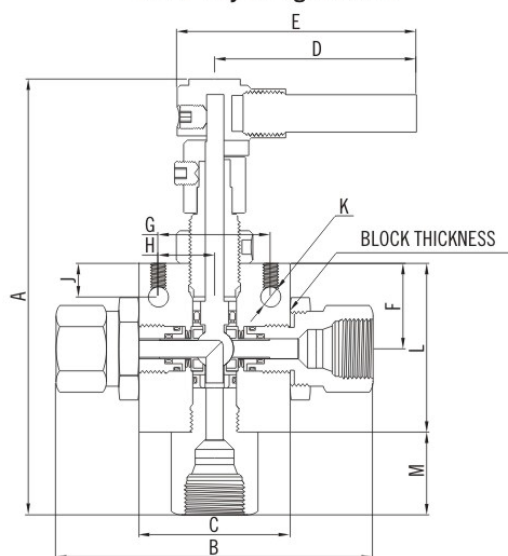
NPT	2-way Orifice Size in. (mm)	3-way Orifice Size in. (mm)	Rated Cv (2-WAY)	Rated Cv (3-WAY)	Pressure/Temperature Rating psi (bar) @ Room Temperature
1/8	0.250 (6.35)	0.188 (4.77)	1.51	0.50	15,000 (1034)
1/4	0.250 (6.35)	0.188 (4.77)	1.51	0.50	15,000 (1034)
3/8	0.250 (6.35)	0.188 (4.77)	1.51	0.50	15,000 (1034)
1/2	0.250 (6.35)	0.188 (4.77)	1.51	0.50	15,000 (1034)

Dimensions Two and Three Way Straight Valves

Two Way Straight Valves



Three Way Straight Valves



Two Way Straight Valves Dimensions

Tube OD in.	NPT Size	A	B	C	D	E	F	G	H	J	K	L	Block Thickness
		in. (mm)											
1/4	—	4.33 (109.99)	4.19 (106.49)	2 (50.8)	3.37 (85.55)	3.9 (99.02)	1.13 (28.58)	1.5 (38.1)	0.75 (19.05)	0.43 (10.92)	0.28 (7.11)	1.91 (48.41)	1 (25.4)
3/8													
1/2													
—	1/8												
	1/4												
	3/8												
	1/2												

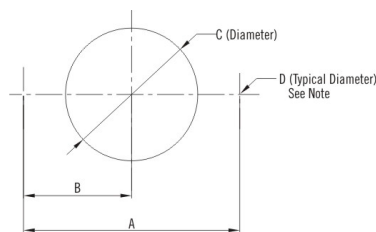
Three Way Valves Dimensions

Tube OD in.	NPT Size	A	B	C	D	E	F	G	H	J	K	L	M	Block Thickness
		in. (mm)												
1/4	—	5.64 (143.35)	4.72 (119.94)	2.5 (63.5)	3.37 (85.55)	3.9 (99.02)	1.13 (28.58)	1.5 (38.1)	0.75 (19.05)	0.43 (10.92)	0.28 (7.11)	2.25 (57.15)	0.97 (24.64)	1 (25.4)
3/8														
1/2														
—	1/8													
	1/4													
	3/8													
	1/2													

Ball Valve Panel Mounting Dimensions-inches (mm)

A	B	C	D
1.5 (38.1)	0.75 (19.05)	1.06 (26.92)	0.28 (7.11)

Note: Body mounting 1/4" - 20 thread



All dimensions are for reference only and are subject to change without notice.



Specifications

Max Working Pressure
20,000 psi (1379 bar)

Temperature Ratings:
0° to 400° F (-17.8° to 204° C)

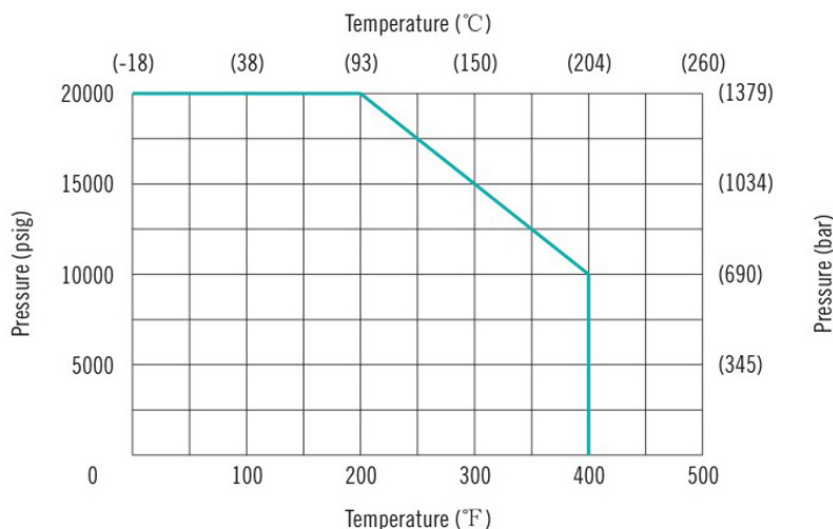
Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Features and Benefits

- Sizes available 1/4" to 9/16"
- One-piece, trunnion mounted style, ideal for severe duty applications
- Two-way and three-way valve configurations
- PEEK seats offer excellent resistance to chemicals, heat, and wear/abrasion
- Full-port flow path minimizes pressure drop
- 316 cold worked stainless steel construction
- Viton o-rings available for high-temperature applications
- Wide selection of tube and pipe end fittings available

Pressure and Temperature



ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:

BV20 - SS - 04 - MF - 4 - 1

BV20
20,000 PSI High Pressure Ball Valve

Body Material
SS - 316SS

Body Size	
04	1/4"
06	3/8"
08	1/2"
9	9/16"

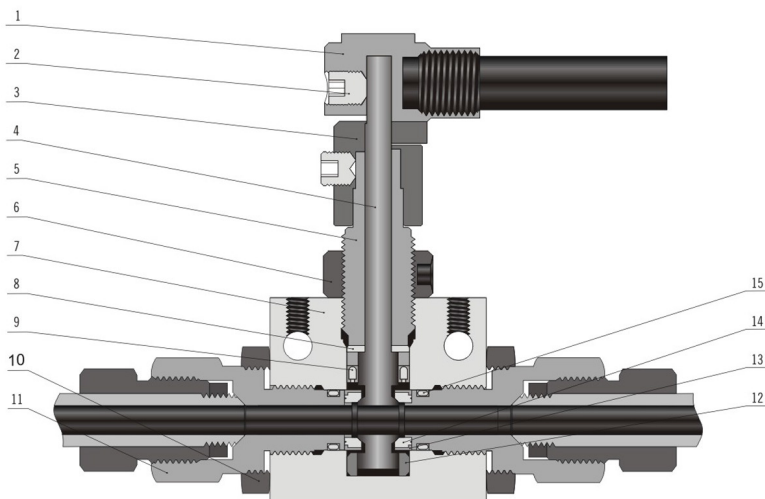
Connection	
MF	Medium Pressure
HF	High Pressure

Oriface	
2-Way	
4	1/4"
6	3/8"
3-Way	
2	3/16"
6	3/8"

Body Style	
1	2-Way Straight
2	3-Way - 180° Turn
3	3-Way - 90° Turn

*3/4" and 1" available upon request

Standard Materials of Construction



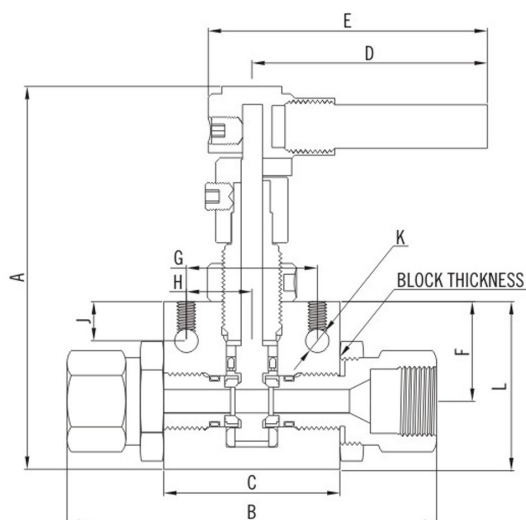
Item	Component	Valve Material
1	Handle	316 SS/A276
2	Set Screw	Stainless Steel
3	Stopping Device	316 SS/A276
4	Ball Stem	316 SS/A479
5	Packing Gland	316 SS/A479
6	Locking Piece	316 SS/A276
7	Valve Body	316 SS/A479
8	Thrust Washer	316 SS/A479
9	Spring Energized seal	Fluorocarbon FKM
10	Lock Nut	316 SS/A276
11	Seat Gland	316 SS/A479
12	Bearing	PEEK
13	Seat Retainer	316 SS/A479
14	Seat	PEEK
15	End Seal	Fluorocarbon FKM
Lubricant		Copper/molybdenum disulfide

Technical Data

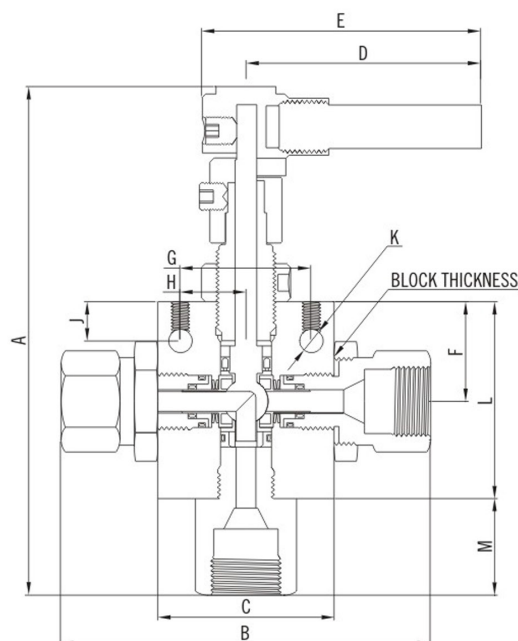
Tube O.D. in.	2-way Orifice Size in. (mm)	3-way Orifice Size in. (mm)	Rated Cv (2-WAY)	Rated Cv (3-WAY)	Pressure/Temperature Rating psi (bar) @ Room Temperature
1/4	0.109 (2.77)	0.109 (2.77)	0.65	0.26	20,000 (1379)
3/8	0.203 (5.16)	0.188 (4.77)	0.96	0.50	20,000 (1379)
9/16	0.250 (6.35)	0.188 (4.77)	1.51	0.50	20,000 (1379)

Dimensions Two and Three Way Straight Valves

Two Way Straight Valves



Three Way Straight Valves



Two Way Straight Valves Dimensions

Tube OD in.	A	B	C	D	E	F	G	H	J	K	L	Block Thickness
	in. (mm)											
1/4	4.33 (109.99)	4.19 (106.49)	2 (50.8)	3.37 (85.55)	3.9 (99.02)	1.13 (28.58)	1.5 (38.1)	0.75 (19.05)	0.43 (10.92)	0.28 (7.11)	1.91 (48.41)	1 (25.4)
3/8												
9/16												

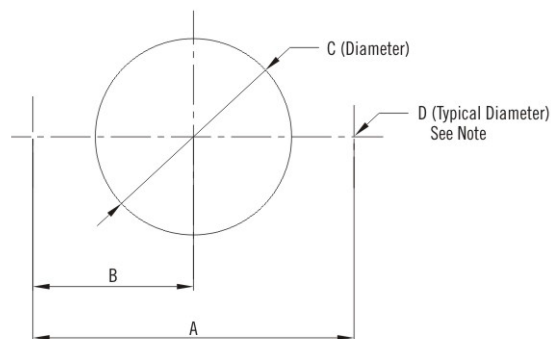
Three Way Valves Dimensions

Tube OD in.	A	B	C	D	E	F	G	H	J	K	L	M	Block Thickness
	in. (mm)												
1/4	5.64 (143.35)	4.72 (119.94)	2.5 (63.5)	3.37 (85.55)	3.9 (99.02)	1.13 (28.58)	1.5 (38.1)	0.75 (19.05)	0.43 (10.92)	0.28 (7.11)	2.25 (57.15)	0.97 (24.64)	1 (25.4)
3/8													
9/16													

Ball Valve Panel Mounting Dimensions-inches (mm)

A	B	C	D
1.5 (38.1)	0.75 (19.05)	1.06 (26.92)	0.28 (7.11)

Note: Body mounting 1/4" - 20 thread



CV15 -15,000 PSI

High Pressure Check Valves



Specifications

Max Working Pressure
15,000 psi (1034 bar)

Temperature Ratings:
-325° to 800° F (-198° to 472° C)

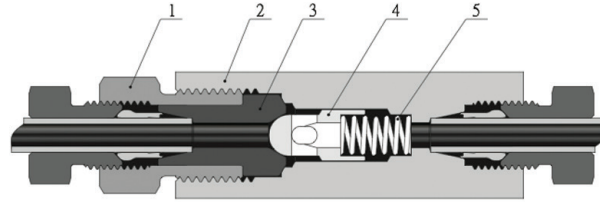
Features and Benefits

- Sizes for 1/4", 3/8" and 1/2"
- Prevents back-flow for non-leak-tight applications
- Ball poppet is designed to assure in-line seating without chatter and to allow maximum flow.

Typical Applications

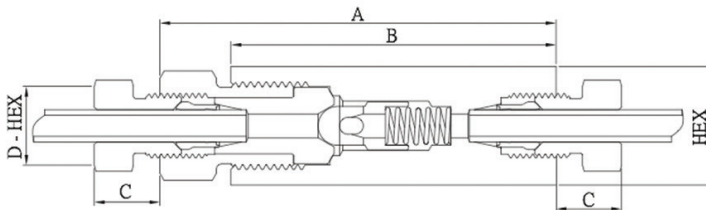
- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

Standard Materials of Construction



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	Ball Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

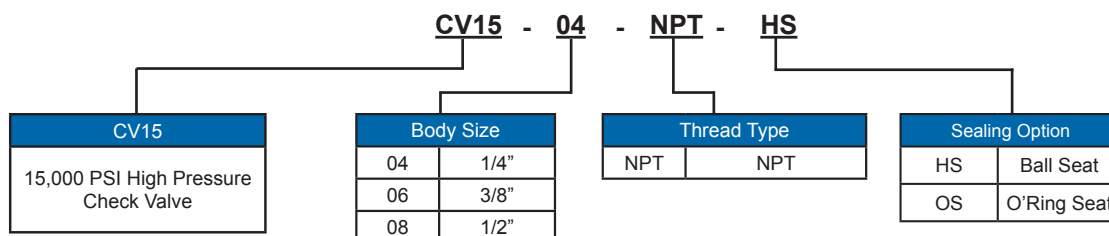
Dimensions



Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
		in. (mm)					
0.188 (4.78)	0.63	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (16.00)	0.81 (20.57)	15,000 (1034)
0.250 (6.35)	1.70	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	15,000 (1034)
0.375 (9.53)	3.40	4.18 (106.17)	3.50 (88.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)	15,000 (1034)

ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:





Specifications

Max Working Pressure
20,000 psi (1379 bar)

Temperature Ratings:
-423° to 1200° F (-252° to 649° C)

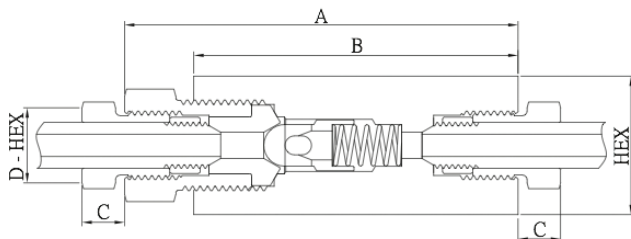
Features and Benefits

- Sizes for 1/4", 3/8", 9/16", 3/4" and 1"
- Prevents back-flow for non-leak-tight applications
- Ball poppet is designed to assure in-line seating without chatter and to allow maximum flow.

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

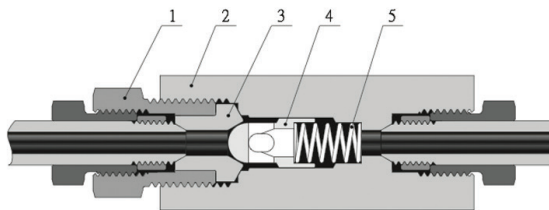
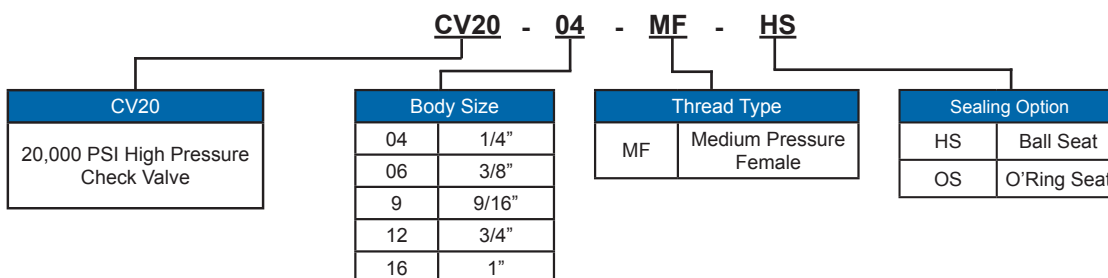
Dimensions



Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
		in. (mm)					
0.125 (3.18)	0.28	2.94 (74.68)	2.50 (63.50)	0.38 (9.65)	0.50 (12.70)	0.81 (20.57)	20,000 (1379)
0.218 (5.54)	0.84	3.12 (79.25)	2.62 (66.55)	0.47 (11.94)	0.62 (15.75)	1.00 (25.40)	20,000 (1379)
0.359 (9.12)	2.30	4.18 (106.17)	3.50 (88.90)	0.53 (13.46)	0.94 (23.88)	1.38 (35.05)	20,000 (1379)
0.516(13.11)	4.70	5.50 (139.70)	4.75 (120.65)	0.62 (15.75)	1.19 (30.23)	1.75 (44.45)	20,000 (1379)
0.688(17.48)	7.40	6.63 (168.40)	5.75 (146.05)	0.72 (18.29)	1.38 (35.05)	2.12 (53.85)	20,000 (1379)

ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	Ball Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

CV60 - 60,000 PSI

High Pressure Check Valves



Specifications

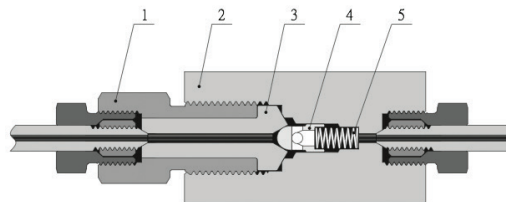
Max Working Pressure
60,000 psi (4137 bar)

Temperature Ratings:
-423° to 1200° F (-252° to 649° C)

Features and Benefits

- Sizes for 1/4", 3/8" and 9/16"
- Prevents back-flow for non-leak-tight applications
- Ball poppet is designed to assure in-line seating without chatter and to allow maximum flow.

Standard Materials of Construction

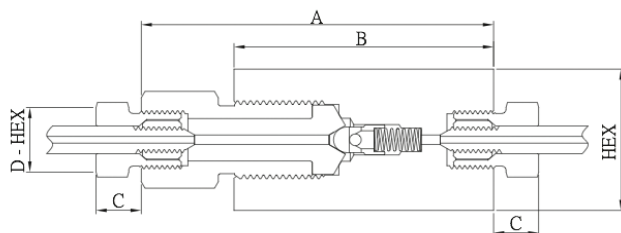


Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	Ball Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Typical Applications

- Hydrostatic Test Systems
- Waterblast Applications
- Hydraulic Control Panels
- Wire Line Applications
- Instrumentation

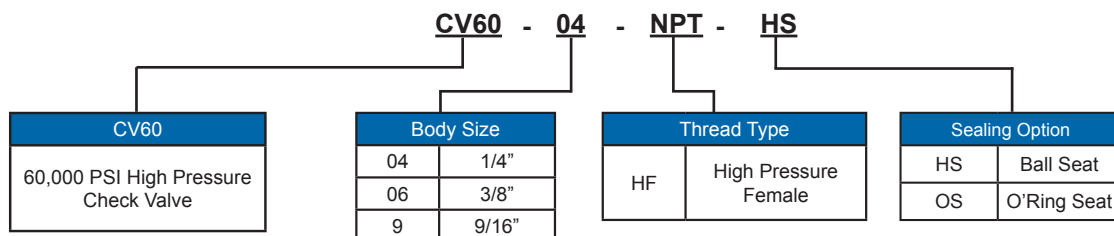
Dimensions



Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
		in. (mm)					
0.094 (2.39)	0.15	3.38 (85.85)	2.50 (63.50)	0.50 (12.70)	0.63 (16.00)	1.18 (29.97)	60,000 (4137)
0.125 (3.18)	0.28	3.75 (95.25)	2.62 (66.55)	0.53 (13.46)	0.75 (19.05)	1.18 (29.97)	60,000 (4137)
0.187(4.75)	0.63	4.62 (117.35)	3.38 (85.85)	0.81 (20.57)	1.12 (28.45)	1.50 (38.10)	60,000 (4137)

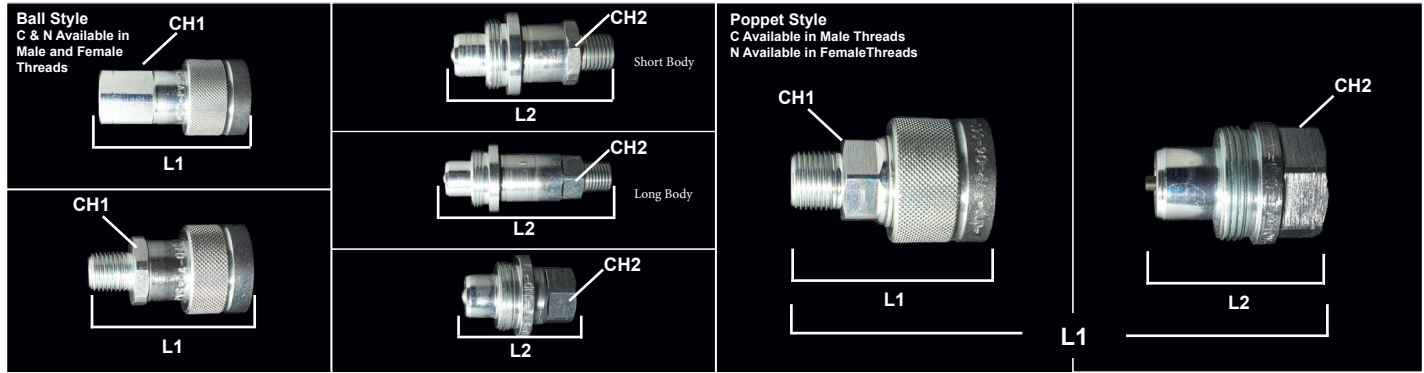
ORDERING INFORMATION

DNP AMERICAS PART NUMBERING SYSTEM:



PVS SERIES QUICK COUPLINGS

High Pressure - Screw Type



Features and Benefits

- Screw type
- 10,000 PSI
- Ball style / Poppet style

Applications

- High Pressure Jacks
- Torque Equipment

MATERIALS

Body: High Resistant Steel
 Finishing: ZN-Fe (CRIII) Plating
 Seals: NBR standard seals
 Threads: NPT & BSPP

DIMENSIONAL & PRESSURE RATING DATA

Male Threads

Body Size	CH1	CH2	OE	L1	L2	L3	Flow Rate @ 14.7 PSI (GPM)	Max Flow Rate (GPM)	Max Working (PSI)
04 (ball)	.866	.75	1.181	2.09	1.54	3.30	1.32	2.64	10,290
04 (poppet)	.866	.75	1.181	2.04	1.60	3.18	1.32	2.64	10,290
06 (ball)	.94	1.26	1.38	2.44	1.60	3.58	2.38	5.28	10,290
06 (poppet)	.94	1.26	1.38	2.19	1.67	2.87	2.38	5.28	10,290

Female Threads

04 (ball)	.87	.75	1.181	2.20	1.54	3.30	1.32	2.64	10,290
06 (ball)	.94	1.26	1.38	2.62	1.60	3.76	2.38	5.28	10,290

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

PVS - 04 - 04 - C - F - NPT

PVS/PVP SERIES	
PVS	Porta Power Coupling (Ball Style)
PVP	Porta Power Coupling (Poppet Style)

Body Size	
04	1/4"
06	3/8"

Thread Size	
04	1/4"
06	3/8"

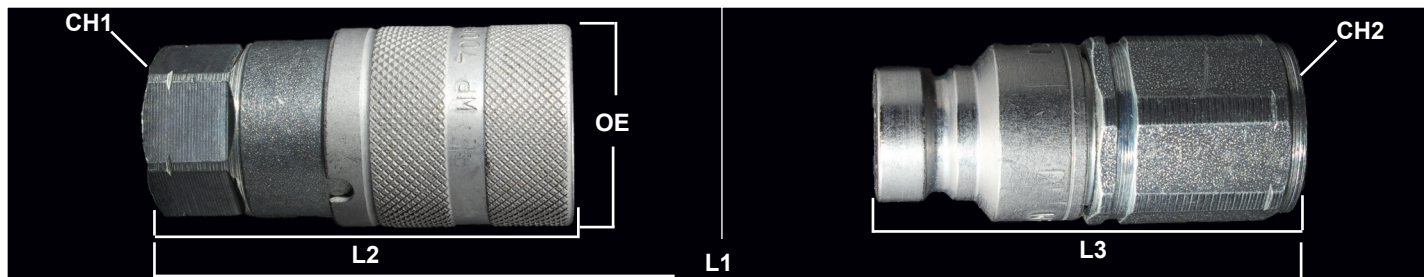
Coupler / Nipple	
C	Coupler
N	Nipple

Coupler Thread Gender	
(blank)	Male Thread
F	Female Thread
Nipple Thread Gender	
SM	Short Body
(blank)	Female Thread
M	Long Body

Thread Type	
NPT	NPT

FF-UHP7 SERIES QUICK COUPLINGS

Flush Face - Ultra High Pressure



Features and Benefits

- DNP Norm
- 10,000 PSI working pressure
- Will not interchange with ISO 16028 standard
- High resistance steel
- Sleeve locking device
- Locking radial balls
- Connection under pressure not allowed

Applications

- FF-UHP7 series is ideal for markets where flat face, non-spill couplings are a must.
- 10,000 PSI working pressure
- Torque tools
- Emergency systems
- High pressure jacks

MATERIALS

Body: Carbon Steel
Finishing: Zinc nickel plating
Seals: NBR standard seals
Threads: NPT & BSP

DIMENSIONAL & PRESSURE RATING DATA

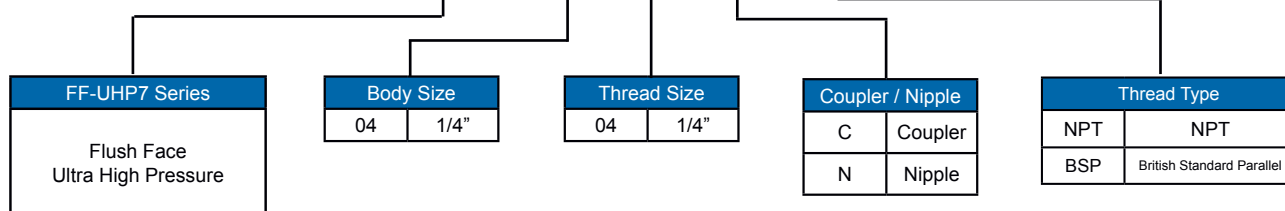
Body Size	CH1	CH2	OE	L1	L2	L3	Flow Rate @ 14.7 PSI (GPM)	Max Flow Rate (GPM)	Max Working (PSI)
04	.87	.87	1.10	4.0	2.30	2.10	6.35	6.34	10,000

units: inches

ORDERING INFORMATION

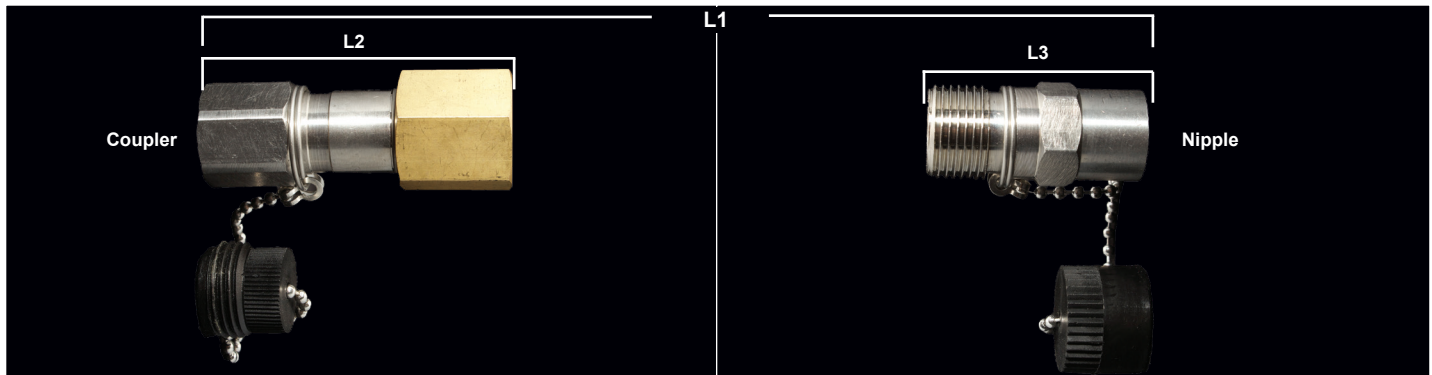
QUICK COUPLING PART NUMBERING SYSTEM:

FF-UHP7 - 04 - 04 - N - NPT



HPI SERIES QUICK COUPLINGS

High Pressure Screw Type



Features and Benefits

- Screw to connect
- 10,000 PSI

Applications

- Instrumentation
- Torque Gauges
- Dual Scale Gauges
- Hydraulics

MATERIALS

Body: 316 Stainless Steel body with brass hex sleeve

Accessories: Plastic cap and dust plug included

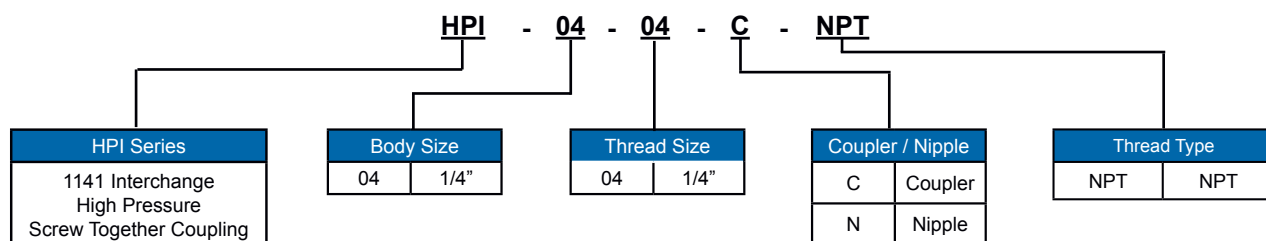
DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	L1	L2	L3	Flow Rate @ 14.7 PSI (GPM) (Connected)	Max Working (PSI)
04	.98	.87	4.68	2.70	1.98	3	10,000

units: inches

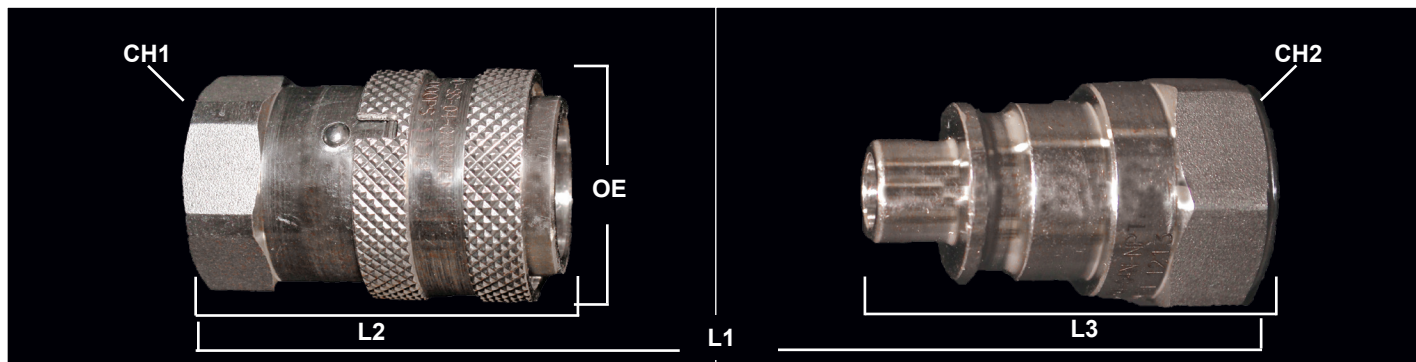
ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:



HO SERIES QUICK COUPLINGS

High Pressure - Unvalved - Stainless Steel



Features and Benefits

- 10,000 PSI to 15,000 PSI
- High Pressure
- Un-Valved Design
- Sleeve-lock to prevent accidental disconnection
- -40° to +250° F
- Unvalved - full flow

Applications

- Hydrostatic Testing
- Test Tools

MATERIALS

Body: 316 Stainless Steel
Finishing: 316 Stainless Steel
Seals: Buna with Teflon Ring
Threads: NPT

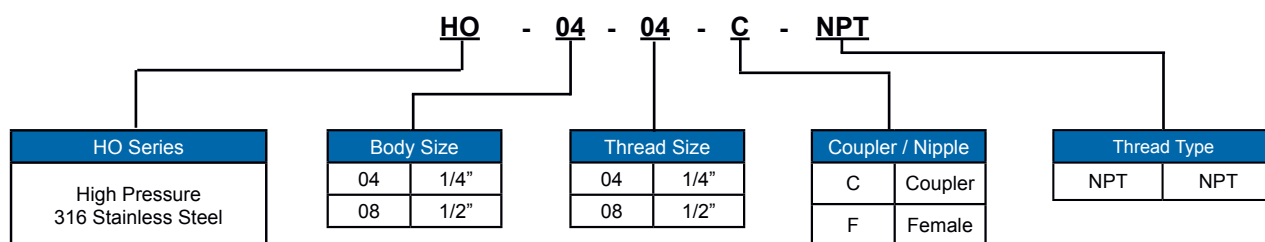
DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	L3	Flow Rate @ 14.7 PSI (GPM) (Connected)	Max Working (PSI)
04	.937	.802	1.07	1.67	1.41	2.32	unvalved	15,000
08	1.25	1.12	1.55	2.03	2.03	2.87	unvalved	10,000

units: inches

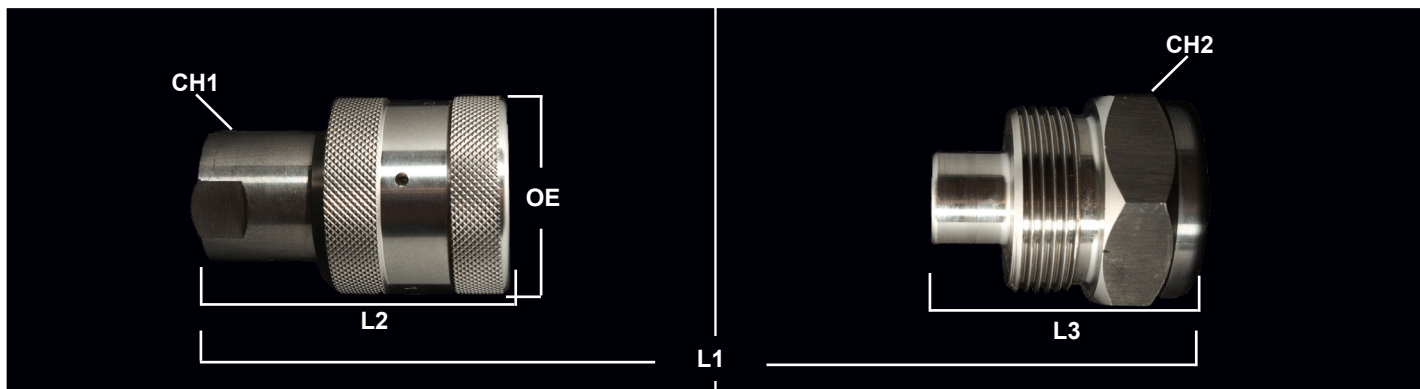
ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:



CRS SERIES QUICK COUPLINGS

Ultra High Pressure - Unvalved - Stainless Steel



Features and Benefits

- 15,000 PSI or 20,000 PSI
- 316 stainless steel
- Unvalved
- Screw type

Applications

- Waterblast
- Water Jetting
- Wireline - Grease Injection
- High Pressure

MATERIALS

Body: 316 Stainless Steel
 Seals: NBR standard seals
 Threads: 15K: NPT
 20K: 9/16" Medium Pressure Female

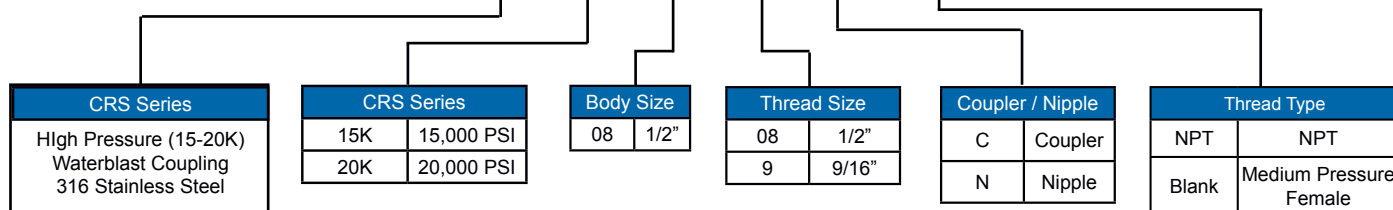
Body Size	CH1	CH2	CH3	L1	L2	L3	Flow Rate @ 14.7 PSI (GPM) (Connected)	Max Working (PSI)
08	1.130	1.625	1.860	3.773	2.910	2.040	Unvalved	15,000
08	1.130	1.625	1.860	3.773	2.910	2.040	Unvalved	20,000

units: inches

ORDERING INFORMATION

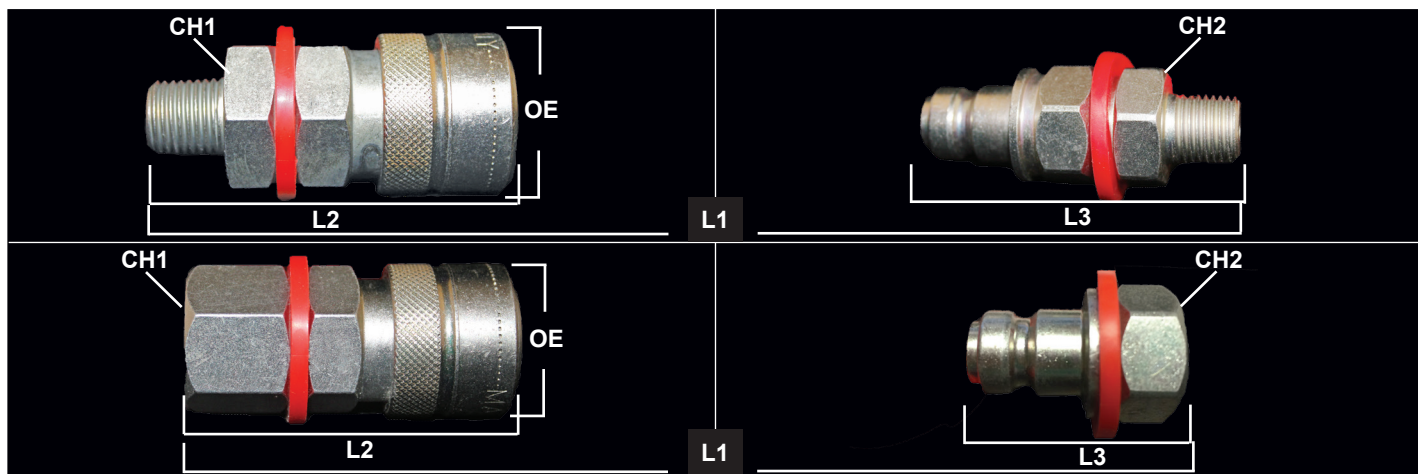
QUICK COUPLING PART NUMBERING SYSTEM:

CRS - 15K - 08 - 08 - C - NPT



115 UHP SERIES QUICK COUPLINGS

Ultra High Pressure



Features and Benefits

- 15,000 PSI
- High Pressure
- Flush Face (Non-Drip)
- Standard Cap and Plugs included
- NPT Threads
- Tested with Helium @ low and high pressure

Applications

- Torque Equipment
- High Pressure Tools

MATERIALS

Body: High Resistance Steel

Finishing: Zn-Fe (Cr111)

Seals: NBR

Threads: NPT

DIMENSIONAL & PRESSURE RATING DATA

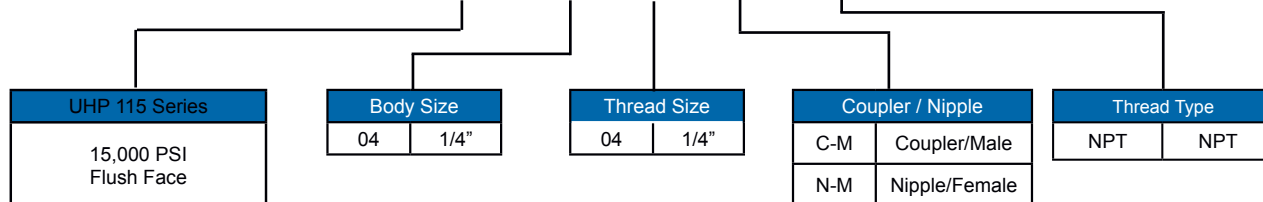
Body Size	CH1	CH2	OE	L1	L2	L3	Flow Rate (GPM)	Max Working (PSI)	End Type
1/4"	.944	.865	1.10	2.31	1.41	2.98	1.60	15,000 PSI	Female
1/4"	.944	.865	1.10	2.46	2.49	4.24	1.60	15,000PSI	Male

units: inches

ORDERING INFORMATION

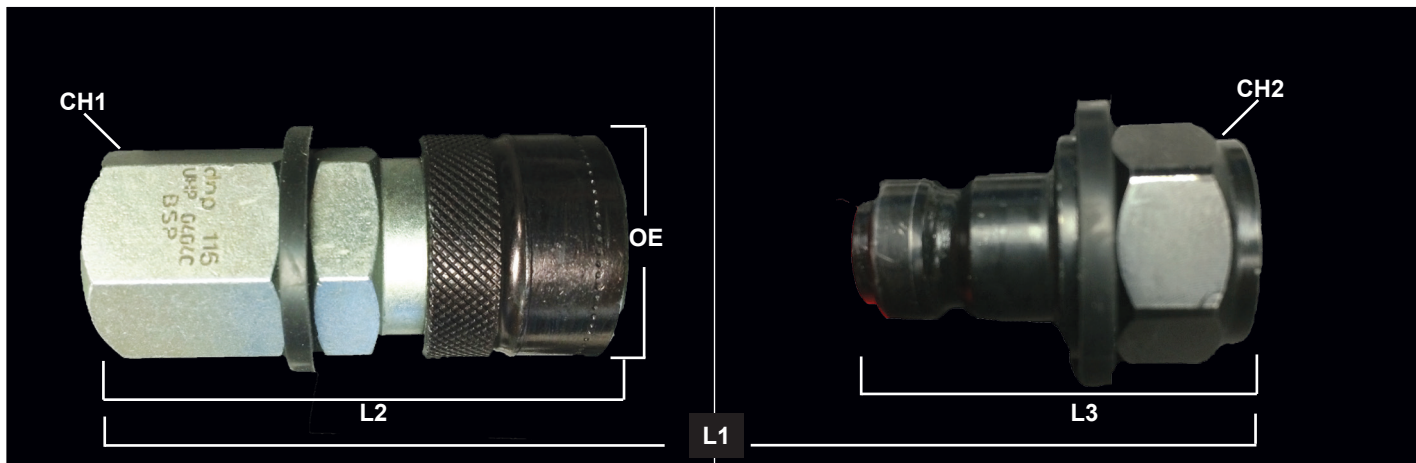
QUICK COUPLING PART NUMBERING SYSTEM:

UHP115 - 04 - 04 - C - NPT



116 UHP SERIES QUICK COUPLINGS

Ultra High Pressure



Features and Benefits

- 20,000 PSI
- High Pressure
- Flush Face (Non-Drip)
- Standard Caps and Plugs included
- BSPP Threads
- Tested with Helium @ low and high pressure

Applications

- Torque Equipment
- High Pressure Tools

MATERIALS

Body: High resistance steel
 Finishing: Zn-Fe (Cr111)
 Seals: NBR
 Threads: Female BSPP

DIMENSIONAL & PRESSURE RATING DATA

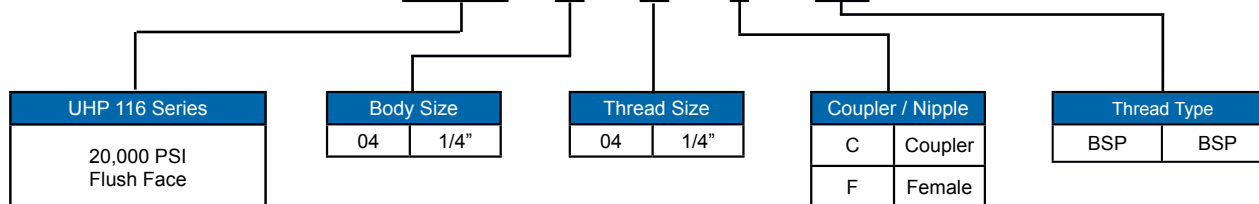
Body Size	CH1	CH2	OE	L1	L2	L3	Flow Rate (GPM)	Max Working (PSI)	End Type
1/4"	.944	.865	1.10	2.42	1.51	3.19	1.60	20,000	Female

units: inches

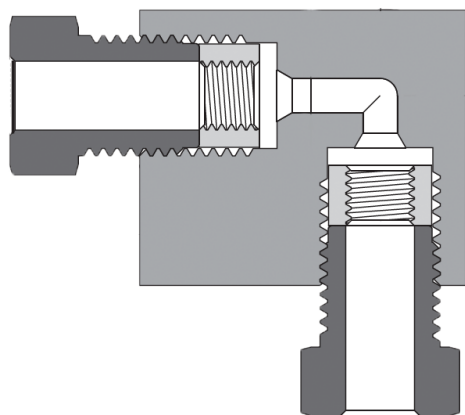
ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

UHP 116 - 04 - 04 - C - BSP

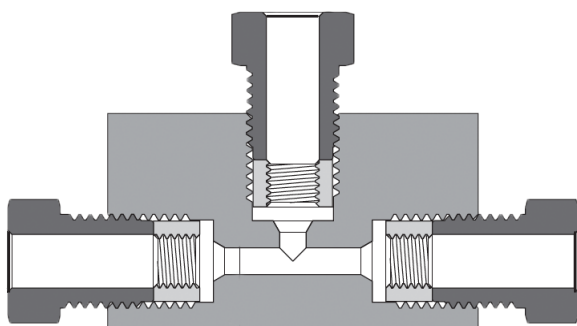


Flat Elbows



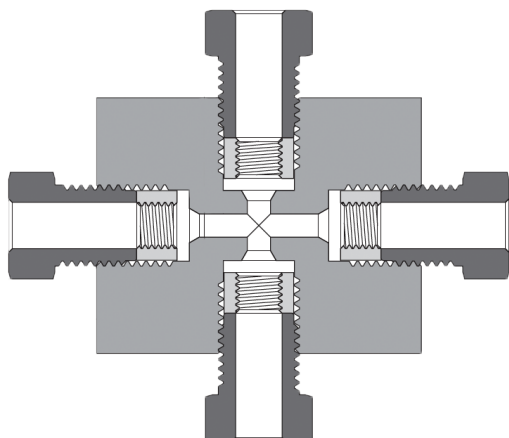
Tube Size	Part Number	Thread Type	Max Working Pressure
1/4"	L15NF4	NPT Female	15,000 PSI
3/8"	L15NF6	NPT Female	15,000 PSI
1/2"	L15NF8	NPT Female	15,000 PSI
1/4"	L20MF4	Medium Pressure Female	20,000 PSI
3/8"	L20MF6	Medium Pressure Female	20,000 PSI
9/16"	L20MF9	Medium Pressure Female	20,000 PSI
3/4"	L20MF12	Medium Pressure Female	20,000 PSI
1"	L20MF16	Medium Pressure Female	20,000 PSI
1/4"	L60HF4	High Pressure Female	60,000 PSI
3/8"	L60HF6	High Pressure Female	60,000 PSI
9/16"	L60HF9	High Pressure Female	60,000 PSI

Flat Tees



Tube Size	Part Number	Thread Type	Max Working Pressure
1/4"	T15NF4	NPT Female	15,000 PSI
3/8"	T15NF6	NPT Female	15,000 PSI
1/2"	T15NF8	NPT Female	15,000 PSI
1/4"	T20MF4	Medium Pressure Female	20,000 PSI
3/8"	T20MF6	Medium Pressure Female	20,000 PSI
9/16"	T20MF9	Medium Pressure Female	20,000 PSI
3/4"	T20MF12	Medium Pressure Female	20,000 PSI
1"	T20MF16	Medium Pressure Female	20,000 PSI
1/4"	T60HF4	High Pressure Female	60,000 PSI
3/8"	T60HF6	High Pressure Female	60,000 PSI
9/16"	T60HF9	High Pressure Female	60,000 PSI

Flat Crosses



Tube Size	Part Number	Thread Type	Max Working Pressure
1/4"	X15NF4	NPT Female	15,000 PSI
3/8"	X15NF6	NPT Female	15,000 PSI
1/2"	X15NF8	NPT Female	15,000 PSI
1/4"	X20MF4	Medium Pressure Female	20,000 PSI
3/8"	X20MF6	Medium Pressure Female	20,000 PSI
9/16"	X20MF9	Medium Pressure Female	20,000 PSI
3/4"	X20MF12	Medium Pressure Female	20,000 PSI
1"	X20MF16	Medium Pressure Female	20,000 PSI
1/4"	X60HF4	High Pressure Female	60,000 PSI
3/8"	X60HF6	High Pressure Female	60,000 PSI
9/16"	X60HF9	High Pressure Female	60,000 PSI

Threaded and Coned Nipples



Tube Size	Part Number	L (in)	Max Working Pressure
1/4"	TN4MP20-3.0	3.0	20,000 PSI
3/8"	TN6MP20-3.0	3.0	20,000 PSI
9/16"	TN9MP20-4.0	4.0	20,000 PSI
9/16"	TN9MP20-6.0	6.0	20,000 PSI
1"	TN16MP20-6.0	6.0	20,000 PSI
1/4"	TN4HP60-3.0	3.0	60,000 PSI
3/8"	TN6HP60-3.0	3.0	60,000 PSI
9/16"	TN9HP60-4.0	4.0	60,000 PSI
9/16"	TN9HP60-6.0	6.0	60,000 PSI

*** A wide variety of high pressure adapters available. Call for pricing and availability.**