PRECISION
HIGH
PRESSURE

Premier Manufacturer of High Pressure
Valves, Fittings, Tubing, and Accessories

www.precisionhighpressure.com

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PRECISION
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Precision High Pressure is the premier manufacturer of high pressure valves, fittings, tubing, and accessories with pressures up to 100,000 PSI.

PHP specializes in the oil and gas and waterjet markets with typical applications including Hydrogen, Subsea & Surface, Chemical Injection Systems, Process Control Systems, Control Panels, Hydraulic Power Units (HPUs), Hydrostatic Test Systems, Water Blasting and Waterjet Cutting.

With over 60 years of cumulative experience in design and manufacturing of various high tech products, the PHP team looks forward to continuing our tradition of delivering high quality products and dependable services to our customers across the globe.

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Specifications

- MAWP up to 100,000 PSI (6895 bar).
- Temperature Ratings
  Metal Seat: -420˚F to 1200˚F (-251˚C to 648˚ C)
  Soft Seat: -65˚F to 250˚F (-54˚C to 121˚C).
  Nominal Cracking Pressure: 15 PSI (1 bar).
- Female Cone and Thread connections
- are standard.

Features

- Prevents reverse flow which may cause damage to a pressure system.
- Metal Seat offers metal-to-metal seat for rapid cycling or severe environments.
- Soft Seat offers PEEK seat with metal back-up for fast shutoff and reliable seal.
- Can be manufactured to meet NACE MR-01-75.

Materials

- 316 cold worked stainless steel is standard.
- PEEK 450G is standard material of soft seat poppet seal.

End Connection Size in.	Connection Type	Pressure Rating	Part Number Metal Seat	Part Number Soft Seat	Orifice in. (mm)	Dimension in. (mm) A	B	C	Valve Dimensions
MEDIUM PRESSURE									
1/4	Medium Pressure Cone & Thread	20,000 PSI	20CV4MFM	20CV4MFS	0.125 (3.18)	3.07 (78.0)	2.50 (63.5)	1.00 (25.4)	See Figure 1
3/8			20CV6MFM	20CV6MFS	0.219 (5.56)	3.48 (88.4)	2.66 (66.0)	1.13 (28.7)	
9/16			20CV9MFM	20CV9MFS	0.359 (9.12)	4.76 (120.9)	3.50 (88.9)	1.38 (35.1)	
3/4			20CV12MFM	20CV12MFS	0.516 (13.11)	5.63 (143.00)	4.38 (111.25)	1.75 (44.45)	
1			20CV16MFM	20CV16MFS	0.688 (17.48)	7.00 (177.8)	5.25 (133.35)	2.13 (54.10)	
HIGH PRESSURE									
1/4	High Pressure Cone & Thread	60,000 PSI	60CV4HFM	60CV4HFS	0.094 (2.39)	3.26 (82.8)	2.50 (63.5)	1.25 (31.8)	See Figure 2
3/8			60CV6HFM	60CV6HFS	0.125 (3.18)	3.75 (95.25)	2.75 (69.9)	1.25 (31.8)	
9/16			60CV9HFM	60CV9HFS	0.188 (4.78)	4.63 (117.6)	3.38 (85.9)	1.50 (38.1)	

Dimensions, in inches (millimeters), are for reference only and are subject to change.

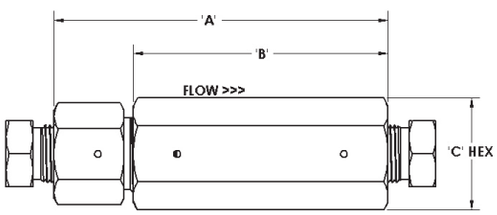

Figure 1

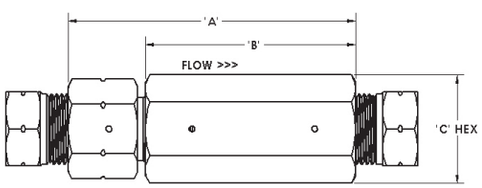

Figure 2

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