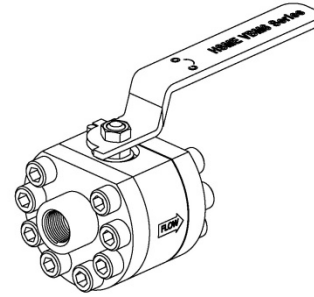


Features

- Designed for uni-directional flow control.
- Designed to ASME B16.34 Class 2500.
- Outstanding leak-tight range from vacuum 10⁻⁶ Torr to 5000 psi (344 bar).
- VBM5 Series for high temperature up to 622 °F (350 °C).
- VBM5H Series for extreme high temperature application up to 850 °F (454 °C).
- 3-piece Stainless Steel construction.
- Lever handle actuation, optional pneumatic actuation.
- Fire safe tested to API 607.
- Pressure test to EN12266-1.



Pressure-Temperature Ratings

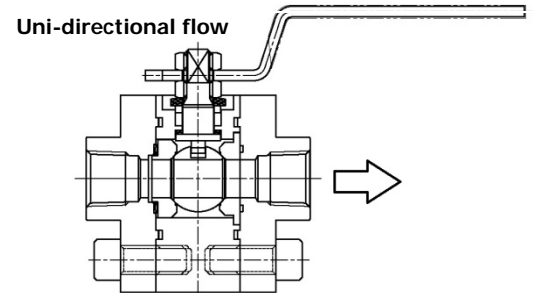
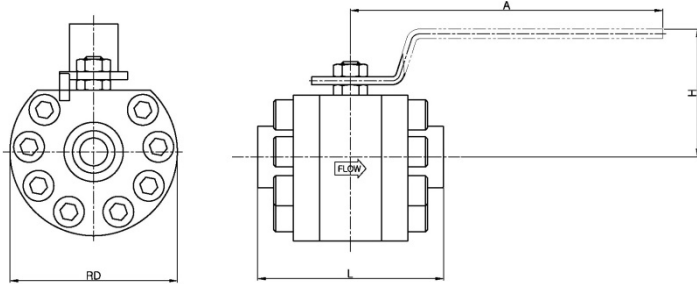
VBM5 Series

Body Material		SS316	
ASME Material Group		TABLE 2-2.3	
ASME CLASS Rating		2500	
Seat		SS316L	
Temp.	Pressure	Temp.	Pressure
°C (°F)	bar	°F (°C)	psi
-29 to 38 (-20 to 100)	344.7	-20 to 100	5000
50 (122)	333.5	200 (93)	4260
100 (212)	289.9	300 (148)	3800
150 (302)	261.6	400 (204)	3500
200 (392)	243.0	500 (260)	3280
250 (482)	228.9	600 (315)	3100
300 (572)	217.2	650 (343)	3040
325 (617)	212.3	-	-
350 (662)	208.9	-	-

VBM5H Series

Body Material		SS316	
ASME Material Group		TABLE 2-2.3	
ASME CLASS Rating		2500	
Seat		SS316L	
Temp.	Pressure	Temp.	Pressure
°C (°F)	bar	°F (°C)	psi
-29 to 38 (-20 to 100)	344.7	-20 to 100	5000
50 (122)	333.5	200 (93)	4260
100 (212)	289.9	300 (148)	3800
150 (302)	261.6	400 (204)	3500
200 (392)	243.0	500 (260)	3280
250 (482)	228.9	600 (315)	3100
300 (572)	217.2	650 (343)	3040
325 (617)	212.3	700 (371)	3000
350 (662)	208.9	750 (398)	2940
375 (707)	206.3	800 (426)	2880
400 (752)	202.5	850 (454)	2820
425 (797)	198.8	-	-
450 (842)	195.1	-	-

Ordering Information and Dimensions



Ordering Number	End Connections	Orifice, mm	Dimensions, mm				
			L	H	A	RD	
VBM5-	F6N-SS	3/8 in. Female NPT	14.3	85	63	180	86
	F8N-SS	1/2 in. Female NPT					
	F12N-SS	3/4 in. Female NPT					
VBM5H-	F6N-SS	3/8 in. Female NPT					
	F8N-SS	1/2 in. Female NPT					
	F12N-SS	3/4 in. Female NPT					

- Valve with M Tube Fitting ends are available.

Valve Torque: 0 bar/16.7 Nm, 344.7 bar/26.6 Nm

Net Weight: 2.8 kg/valve

Factory test: Every valve is tested to 1.1 times working pressure at N2 for no visually detectable leakage as per EN12266-1 standard.

Ball Surface Treatment

VBM5 Series

Nitriding heat-treatment on ball & seats for temperature up to 350 °C application.

VBM5H Series

Tungsten Carbide coating on ball & seats for temperature Up to 454 °C application.