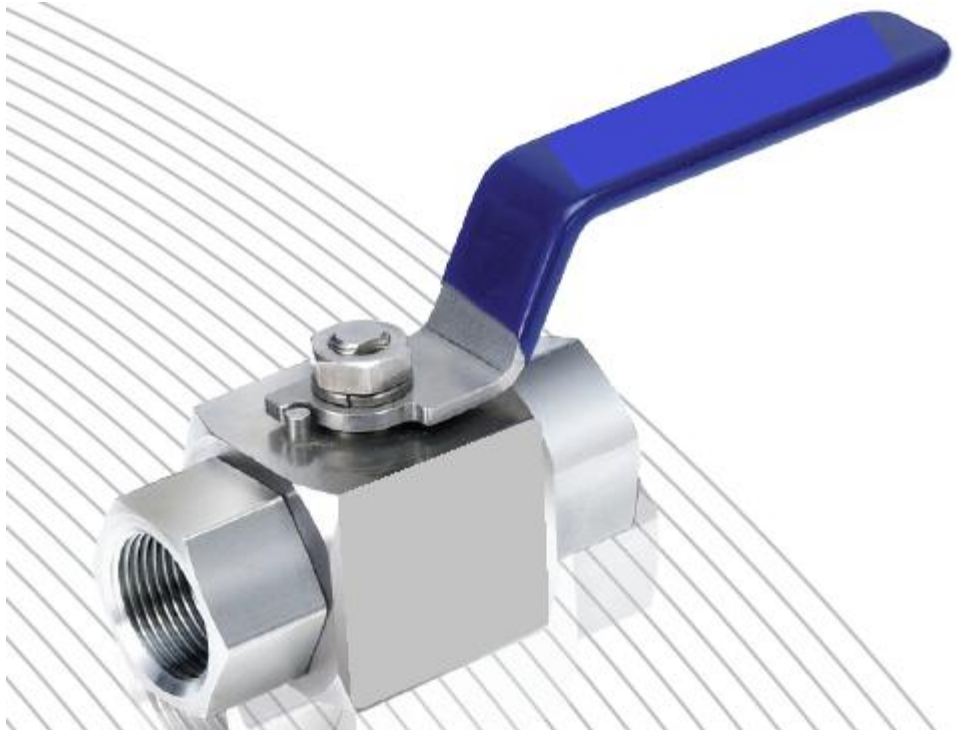




GBVH Series Ball Valves



Features

Pressure Rating	6000psig (414bar)@70°F (21°C)
Temperature rating	-22 to 265°F (-30 to 130°C) with PVDF seat -65 to 500°F (-54 to 260°C) with PEEK seat
Body Material	Stainless Steel 316
Port End Connections	1/4" to 1" and 6mm to 25mm
Orifice	10.0mm to 19.0mm

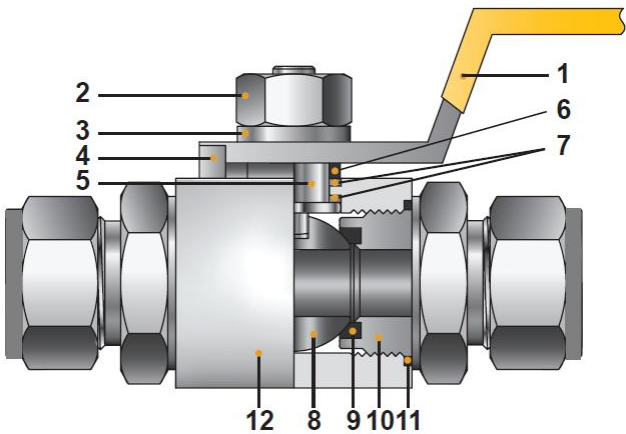
Testing

- Each Valve is tested with nitrogen at 1000psig(69bar) to maximum allowable leak rate of 0.1 SCCM
- Hydrostatic shell test is performed at 1.5 times of the working pressure. (OPTION)

Applications

Internally live loaded ball stem to ensure sealing at low and high pressure CNG application. PEEK and PCTFE seats are compatible with CNG. GBV61 series valves are requiring in a wide range onshore and offshore applications to offer a safe and reliable perform.

Material of Constructions



No	Description	Materials
1	Handle	SS304 Lever handle with PVC color coated
2	Lock Nut	Stainless Steel
3	Spring Washer	
4	Pin	
*5	Stem	SS316 / A479
6	Stem Washer	SS304 / A479
*7	Stem Packing	PTFE
*8	Ball	SS316 / A479
*9	Seat	PVDF (Standard)
*10	End Connector	SS316 / A479
*11	Connector Seal	PTFE
*12	Body	SS316 / A479

※ Wetted components are marked "*"

2-Way Valve

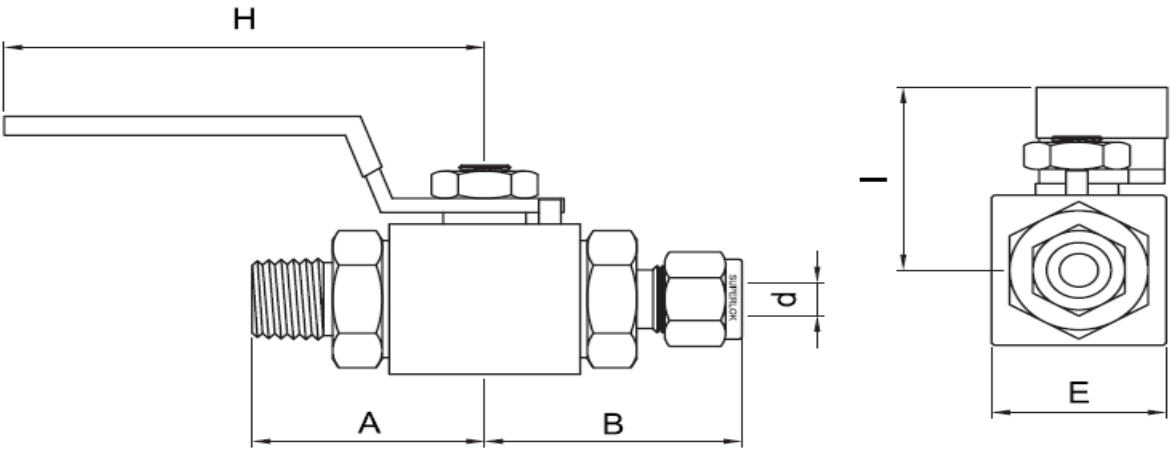


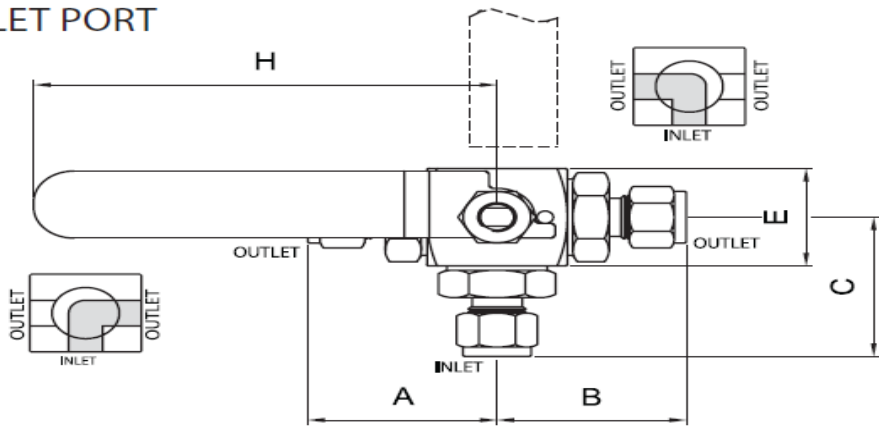
Table of Dimensions

Order Number		End Connections		Orifice (mm)	Cv	Dimensions (mm)				
Series	Part No.	Inlet	Outlet			A	B	I	H	d(min)
GBVH1	G-4T	1/4" GPI Lok		10.0	1.2	45.7	45.7	91.4	105.0	4.80
	G-6T	3/8" GPI Lok			3.7	47.5	47.5	94.4		7.10
	G-8T	1/2" GPI Lok			7.5	49.8	49.8	99.6		10.00
	F-4N	1/4" Female NPT				37.0	37.0	74.0		
	F-6N	3/8" Female NPT				38.0	38.0	76.0		
	F-8N	1/2" Female NPT				41.5	41.5	83.0		
	M-4N	1/4" Male NPT			3.7	42.1	42.1	84.2		7.10
	M-6N	3/8" Male NPT			7.2	42.1	42.1	84.2		9.65
	M-8N	1/2" Male NPT			7.5	47.0	47.0	94.0		10.00
GBVH2	F-8N	1/2" Female NPT		12.7	10.0	45.5	45.5	91.0	125.0	12.70
	F-12N	3/4" Female NPT				51.0	51.0	102.0		
	M-12N	3/4" Male NPT				52.5	52.5	105.0		
	G-10T	5/8" GPI Lok				54.0	54.0	108.0		
	G-12T	3/4" GPI Lok				54.0	54.0	108.0		
GBVH3	F-12N	3/4" Female NPT		19.0	30.0	54.0	54.0	108.0	149.0	20.00
	F-16N	1" Female NPT				62.5	62.5	125.0		
	G-12T	3/4" GPI Lok			1.0	61.9	61.9	123.8		15.74
	G-16T	1" GPI Lok			30.0	66.4	66.4	132.8		20.00
	M-12N	3/4" Male NPT			19.0	59.0	59.0	118.0		15.74
	M-16N	1" Male NPT			30.0	63.8	63.8	127.6		20.00

*Dimensions are for reference only, subject to change

3-Way Valve

SIDE INLET PORT



BOMTTOM INLET PORT

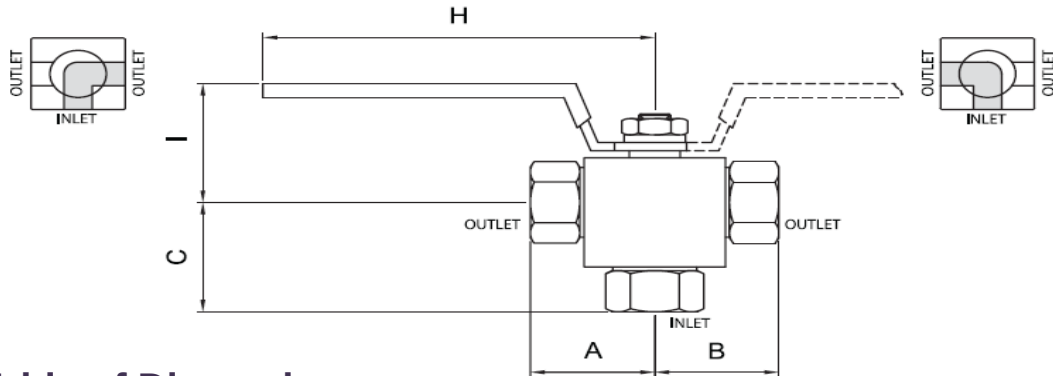


Table of Dimensions

Order Number		End Connections		Orifice (mm)	Dimensions (mm)				
Series	Part No.	Inlet	Outlet		A	B	I	H	C
GBVH1-3	G-4T	1/4" GPI Lok		10.0	45.7	45.7	91.4	105.0	53.3
	G-6T	3/8" GPI Lok			47.2	47.2	94.4		54.8
	G-8T	1/2" GPI Lok			49.8	49.8	99.6		54.0
	F-4N	1/4" Female NPT			37.0	37.0	74.0		36.5
	F-6N	3/8" Female NPT			38.0	38.0	76.0		40.0
	F-8N	1/2" Female NPT			41.5	41.5	83.0		44.0
GBVH2-3	G-10T	5/8" GPI Lok		12.7	54.0	54.0	108.0	125.0	65.3
	G-12T	3/4" GPI Lok			54.0	54.0	108.0		65.3
	F-8N	1/2" Female NPT			45.5	45.5	91.0		49.5
	F-12N	3/4" Female NPT			51.0	51.0	102.0		55.0
GBVH3-3	G-12T	3/4" GPI Lok		19.0	61.9	61.9	123.8	149.0	69.8
	G-16T	1" GPI Lok			66.4	66.4	132.8		69.8
	F-12N	3/4" Female NPT			59.0	59.0	118.0		56.5
	F-16N	1" Female NPT			63.8	63.8	127.6		60.6

*Dimensions are for reference only, subject to change

Pressure & Temperature Rating

Valve Series	Materials			Pressure Rating @-54°C to 21°C (-65°F to 70°F)	Temperature Rating
	Seat	Stem Packing	End Seal		
GBVH1	PVDF	PTFE	FKM	6000psig (413bar)	-30°C to 130°C (-22°F to 265°F)
	PCTFE				-30°C to 150°C (-22°F to 355°F)
	PEEK			10000psig (689bar)	-54°C to 230°C (-65°F to 446°F)
GBVH2 GBVH3	PVDF			5000psig (344bar)	-23°C to 191°C (-10°F to 375°F)
	PCTFE			6000psig (413bar)	
	PEEK				
GBVH1-3	PVDF	PTFE	FKM	4000psig(275bar)	-30°C to 130°C
	PCTFE			-30°C to 150°C	
	PEEK			6000psig(413bar)	-54°C to 230°C
GBVH2-3 GBVH3-3	PVDF			3000psig(206bar)	-23°C to 191°C (-10°F to 375°F)
	PCTFE			4000psig(275bar)	
	PEEK				

Ordering Information

GBVH



G



4T



PC

S



Valve Series	End Connection	Size	Seat Materials	Body Materials
GBVH1~3	G: Tube Fitting	▽	Nil: PVDF(Standard)	S: 316 Stainless Steel
GBVH1-3~3-3	F: Female NPT	▽	PC: PCTFE	
	M: Male NPT	▽	PK: PEEK	

Connection Type							
Fractional(Inch) Tube O.D. Designation							
Tube O.D	inch	1/4	3/8	1/2	5/8	3/4	1
O.D.	mm	6.35	9.52	12.7	15.87	19.05	22.22
Designator		4T	6T	8T	10T	12T	16T



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