

BVQW SUBSEA BALL VALVE

Subsea Ball Valve

High Quality Stainless Steel Fluid & Gas Valves ½" to 6"

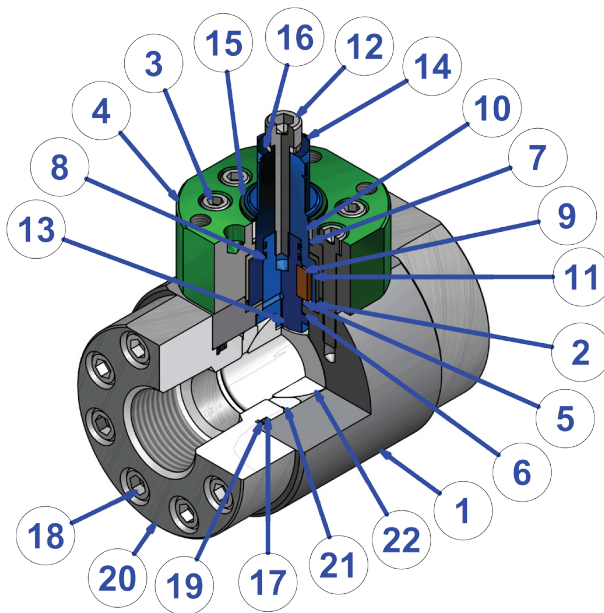
BVQW ~ Subsea Applications



- DMIC's highest quality stainless steel ball valve for deep sea service up to 10,000ft deep
- Derived from DMIC's superior BVQ/BVQG high quality stainless steel valve series
- Standard sizes range from ½" - 6", call for sizes greater than 2½"
- Available with Threaded, Welded, or API-Length ANSI Flanged end connections
- Isolated 316 Spindle increases durability, ideal for applications requiring an Actuator
- Suitable for sour gas service in compliance with NACE MR0175
- Ships standard with High-Temperature PEEK seals and Viton™ O-Rings. Higher temperature materials available upon request
- Inconel and Duplex stainless steel available upon request call factory

Service Parts BOM

BVQW	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Top Cap O-Ring
3	Varies	Top Cap Bolt
4	1	Top Cap
5	1	Thrust Washer (External)
6	1	Thrust Washer
7	1	Spindle O-Ring (External)
8	2	Spindle O-Ring
9	2	Spindle Key
10	1	Spindle Bushing (Upper)
11	1	Spindle Bushing (Lower)
12	1	Spindle Bolt
13	1	Spindle (Upper)
14	1	Spindle (Lower)
15	1	Snap Ring
16	1	Lock Washer
17	2	End Connection O-Ring
18	Varies	End Connection Bolt
19	2	End Connections Backup Ring
20	2	End Connection
21	2	Ball Seal
22	1	Ball



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Ordering Codes Summary

See page 14 for accessory codes

Size Codes	
Code	Port Size
0500	½"
0750	¾"
1000	1"
1250	1 ¼"
1500	1 ½"
2000	2"
2500+	2 ½"-Call

***All sizes are reduced Bore please check dimensional chart.**

Call Factory for larger sizes 18"+

BVQW ******** **S** **2** **2** **4** **3** ***** ***** ***** ***** ***** *****

Connection Types	
Imperial Threads	
Code	Description
S	SAE ORB
N	NPT
MP	Medium Pressure Coned Port
Metric Threads	
B	BSPP
ISO Threads	
IU	ISO6149
Welded	
W*	Socket Weld
WB*	Butt Weld
Flanged	
A*	ANSI Flanges
F*	SAE 4-Bolt UNC
G*	SAE 4-Bolt Metric
S*	SAE Split

O-Rings	
Code	Description
1	Buna-N
2	EPR
3	Viton™ (std)
5	Chemraz™
6	Kalrez
7	Buna-3716 (Low Temp)

Seals, Bushings, Washers	
Code	Description
1	Delrin™
4	High Temp Peek (std)
6	Delrin™ AF (low Friction)

Ball & Spindle	
Code	Description
2	Stainless Steel - 316 (std)
9	Inconel 625
D	Duplex S.S - 2205

Body & End Connections	
Code	Description
2	Stainless Steel - 316 (std)
9	Inconel 625
D	Duplex S.S - 2205

Note: Changes to Sealing Materials may result in changes to temperature and/or pressure rating.

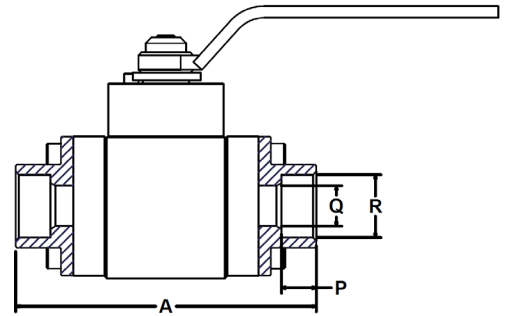
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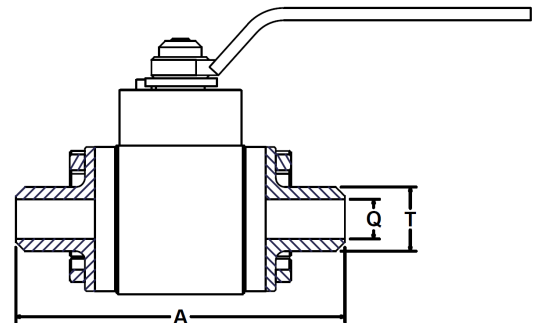
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BVQW	Port Size	A	B	ØC	D	E	F	G
		Overall Length	Body Diameter	Bore	Handle Length	Height	Bottom to Center	Bottom to Cap
For Threaded Connection Type								
N S B IU MP	½"	3.75	2.50	0.50	4.53	4.76	1.13	3.14
	¾"	4.25	3.00	0.75	7.19	5.55	1.31	3.88
	1"	5.5	3.50	0.88	7.19	5.86	1.54	4.20
	1¼"	6.25	4.50	1.13	12.00	8.23	2.00	5.42
	1½"	7.00	4.97	1.31	12.00	8.88	2.49	6.06
	2"	7.25	5.50	1.75	12.00	9.44	2.75	6.62
Socket Weld Connections								
Port Code(s)	Port Size	A	C	P	Q	R		
		Overall Length	Bore Size (Ball)	Socket Depth	Connection Inside Diameter	Inside Socket Outer Diameter		
W* *4-SCH 40 *8-SCH 80 *F-SCH 160 *G-XXS More Sizes Available Upon Request	½"	5.00	0.50	0.75	Based Upon Pipe Schedule	0.88		
	¾"	5.75	0.75	0.75		1.09		
	1"	6.50	0.88	0.75		1.36		
	1¼"	7.50	1.13	0.75		1.70		
	1½"	7.50	1.31	0.75		1.95		
	2"	8.75	1.75	1.00		2.50		
Fixed Butt-Weld Connections								
Port Code(s)	Port Size	A	C	Q	T			
		Overall Length	Bore Size (Ball)	Connection Inside Diameter	Weld Neck Outer Diameter			
WB* *4-SCH 40 *8-SCH 80 *F-SCH 160 *G-XXS More Sizes Available Upon Request	½"	5.25	0.50	Based Upon Pipe Schedule	0.84			
	¾"	6.25	0.75		1.05			
	1"	6.75	0.88		1.31			
	1¼"	8.75	1.13		1.66			
	1½"	9.50	1.31		1.91			
	2"	10.75	1.75		2.38			

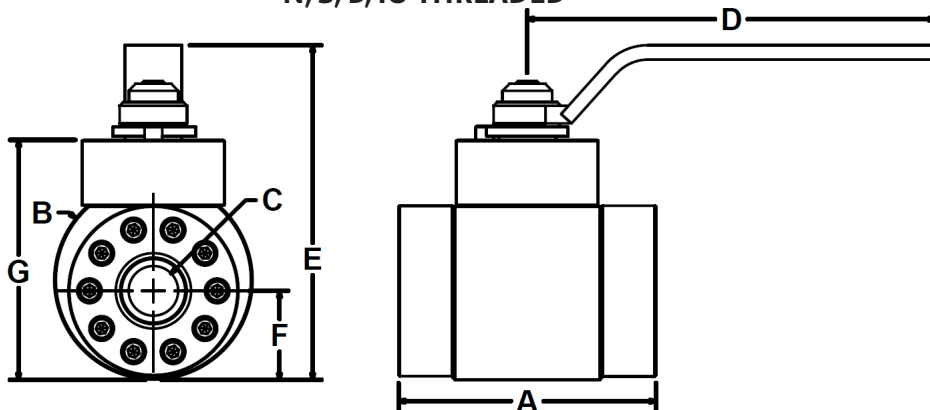
W(*) FIXED SOCKET WELD
(*) PIPE SCHEDULE CHARACTER



WB(*) FIXED BUTT WELD
(*) PIPE SCHEDULE CHARACTER



N, S, B, IU THREADED

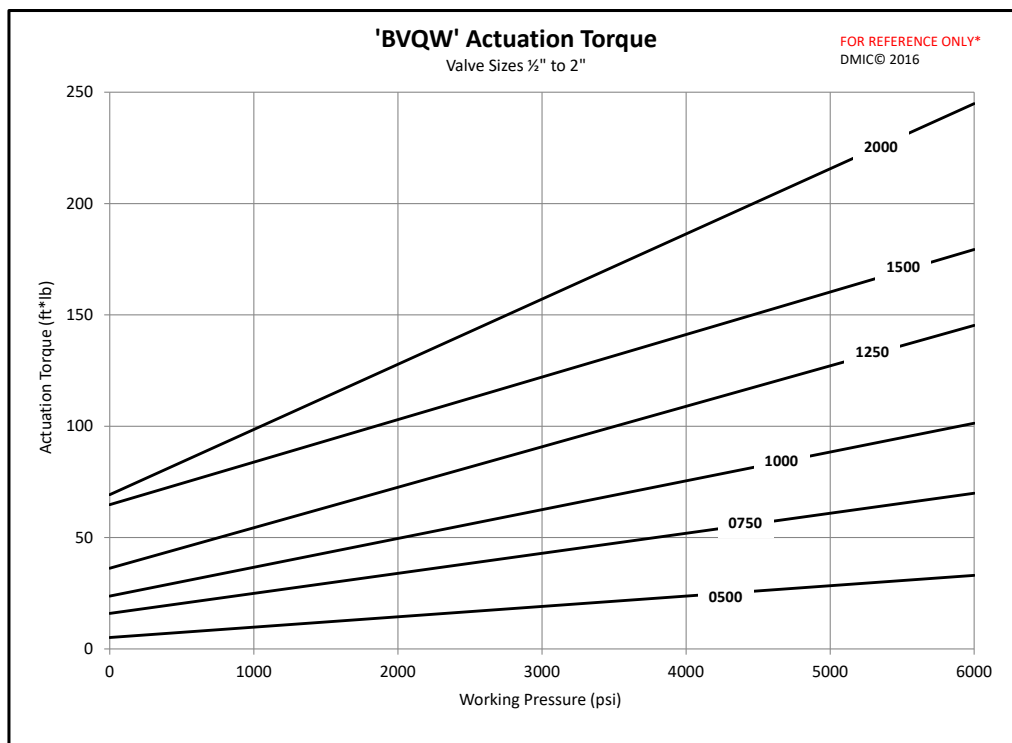
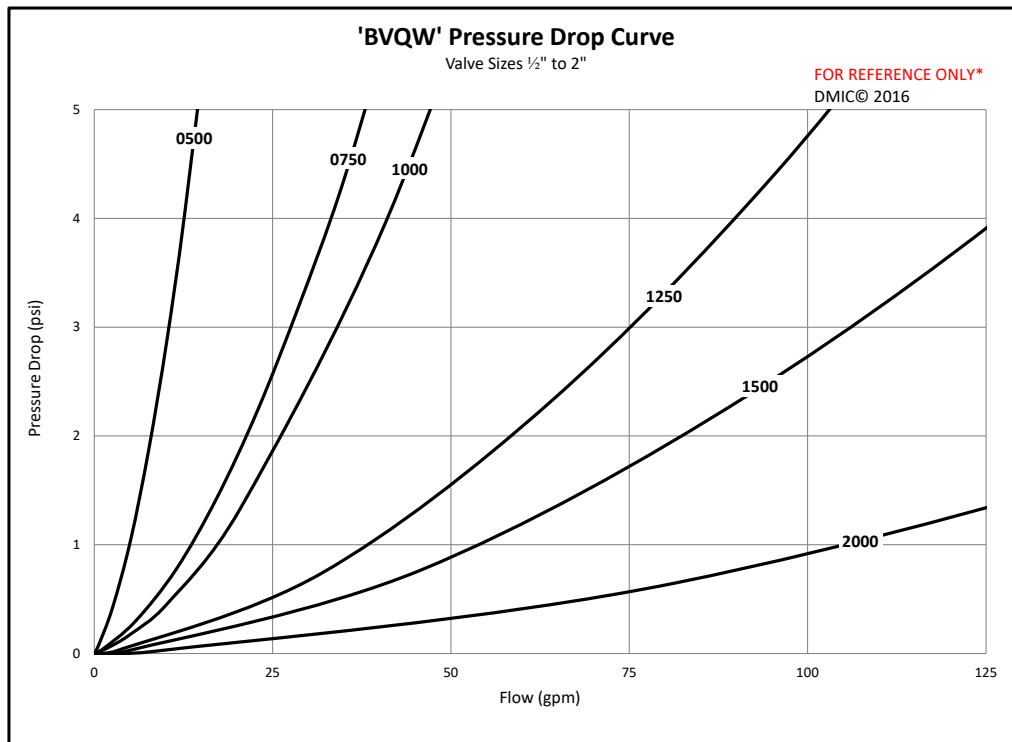


****Larger sizes available upon request****



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Flow Characteristic and Actuation Torque Curves



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