BVEM Mid Pressure

An economical, low mass, and efficiently designed ball valve for 3000 PSI Max applications.

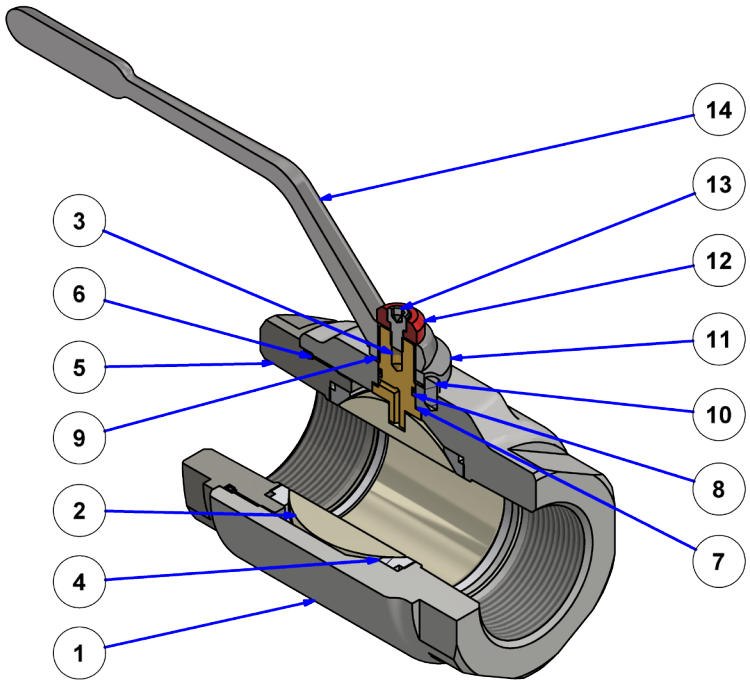
From 2½" to 4" and UP

DMIC's **BVEM** series provides a cost effective, durable, high quality ball valve solution for quality 3,000 PSI systems where the budget can't support a 6000 PSI valve·

- DMIC's leading quality-value profile in a purpose built 3,000 PSI valve
- **Built to take the pressure spikes, temperatures, & elevated demands of hydraulic service**
- Uses top grade **ball seals**, with **O-Ring sealing** throughout
- **Suitable for actuation and panel mounting**, accepts the full range of DMIC High Pressure Ball Valve Accessories & Actuation Packages
- **A reliable choice for Phosphate Esters**, Water Glycols, and other unusual media (may require optional materials; ships with std. Buna-N seals)

Service Parts BOM

BVEM	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	1*	End Connection
6	1*	End Connection O-Ring
7	1	Internal Thrust Washer
8	1	Spindle O-Ring(s)
9	1	External Glide Washer
10	1	Stop Pin
11	1	Stop Washer
12	1	Color Code Cap
13	1	Handle Screw
14	1	Handle
*Quantity depends on size and configuration		



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BVEM Mid Pressure

Ordering Codes Summary

See page 14 for accessory codes

BVEM	****	S	1	1	1	1	*	*	*	*	*	*

Size Codes

Code	Port Size
2500	2½"
3000	3"
4000	4"
5000	5"-Call
6000	6"-Call

Call Factory for larger sizes 18"+

Connection Types

Imperial Threads	
Code	**Description**
S	SAE ORB
N	NPT
Metric Threads	
B	BSPP
T	BSPT (Tapered Pipe)
ISO Threads	
IU	ISO6149

O-Ring Material

Code	Description
1	Buna-N (Standard)
2	EPR
3	Viton™

Ball Seal Material

Code	Description
1	Delrin™
2	PTFE Teflon™ (1500 PSI MAX)
4	High Temp Peek

Ball & Spindle Mat'l

Code	Description
1	Carbon Steel
2	316 Stainless Steel
6	416 Stainless Spindle 316 Stainless Ball

Body Material

Code	Description
1	Carbon Steel

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

Additional Note:
2-½" & 3" ship standard with a Crank Handle. Whereas the 4" and larger ships with a High Torque Handle.

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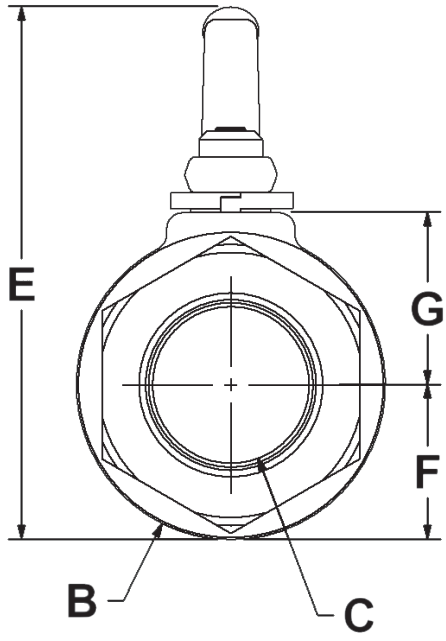
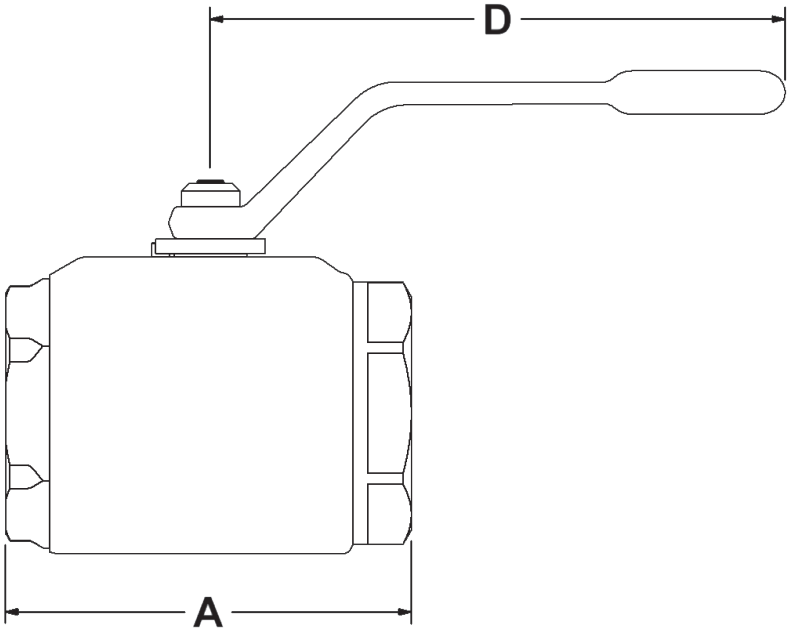
BVEM	Dependent Dimensions				
Threaded Connection					
Dimension (Inches)		A	E	F	G
Port Code(s)	Port Size*	Overall Length	Overall Height	Bot to CtrLine	Port Ctr to Top
N S B IU Threaded Connections	2½"	6.96	8.29	2.38	2.68
	3"	8.26	9.60	3.38	3.20
	4"	9.98	12.17	4.00	4.29



BVEM Part Number	Common Dimensions				
	Port Size	Rated Pressure PSI	Dimensions IN		
			Valve Width B	Valve Bore C	Handle Length D
BVEM-2500****	2½"	3000	4.75	2.44	9.86
BVEM-3000****	3"	3000	6.76	2.94	12.00
BVEM-4000****	4"	3000	8.00	3.94	14.50



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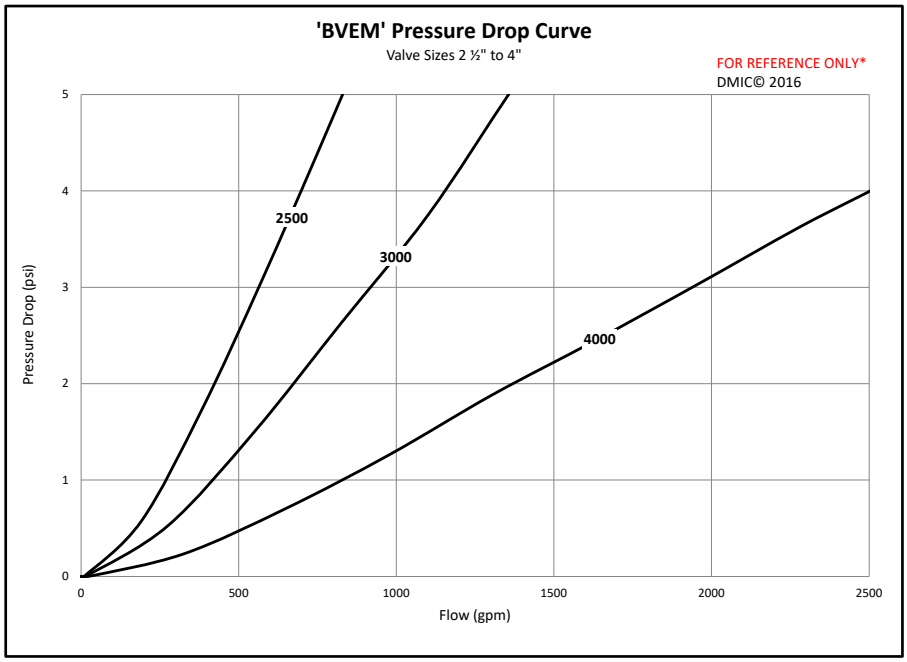
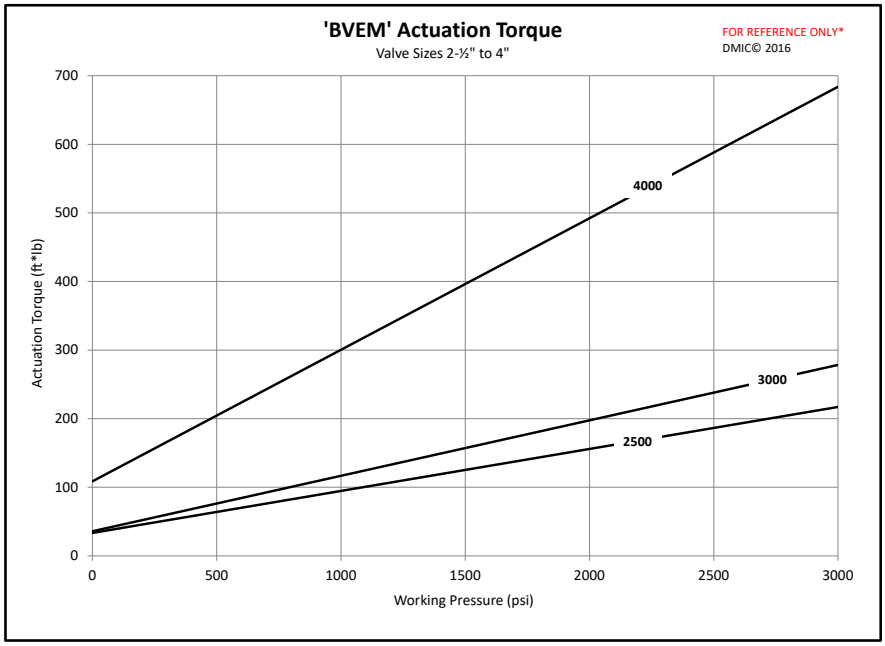
Flow Characteristic and Actuation Torque Curves





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