

'BVAM' Mid Pressure

An economical low mass alternative for mainstream 2000 PSI applications ; Threaded models from 2½" to 6"
 Optional DMIC 'HSSW' System adapters for conversion to Flange and Socket Weld connection.



To meet customer price points, buyers of quality 6,000 PSI valves have sometimes had to compromise on the specification of 2,000 PSI valves. DMIC's 'BVAM' series provides a cost effective, durable, high quality ball valve solution for quality oriented 2,000 PSI systems.

- ☑ DMIC's leading quality-value profile in a purpose built 2,000 PSI valve
- ☑ **Built to take the pressure spikes, temperatures, & elevated demands of hydraulic service**
- ☑ Uses top grade **Delrin 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)

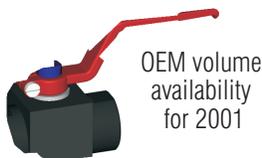
About 'BVAM' Series

The 'BVAM' series builds upon years of 'BVAL' field proven performance in an upsized steel version for 2000 PSI max. 'BVAM' valves use steel construction for an economical low mass option in large bore mid pressure 2000 PSI applications.



BVAM 2½" to 6"
 All new XL format design with unrestricted bore lower cost design. Panel mounting, actuation, full range of options. Offered in ESAE O-R Seal, expanded 6149, SAE and ANSI Flange models. Designed and Made in U.S.A. Max 2000 PSI. Call for dimensions of 5" and 6" sizes.

At this time we do not offer the smaller variations of 'BVAM' through Distribution because the economics relative to the 'BVH' / 'BVAH' series do not qualify it. Please see the 6000 PSI series, page 22.



OEM volume availability for 2001

BVAM ¼" to 1"
 Steel square body in the style of DMIC's 'BVH' high pressure valve. The ¼" and ⅜" sizes share ½" external dimensions.



OEM volume availability for 2001

BVAM 1¼" to 2"
 Round steel body in the style of DMIC's 'BVAH' high pressure series. A natural for panel mounting and actuation.

Common Dimensions

The following specifications are common to all 'BVAM' series valves regardless of connection style. For valve length 'A' and other specific dimensions, please see Dependent Dimensions table adjacent page.

BVAM Part Number	Port Size	Rated Pressure PSI (bar)	DIMENSIONS in (mm)					
			Valve Width B	Valve Bore C	Handle Length D			
BVAM-0250*-1111	¼"	2000 137.9	Available for large quantity OEMs. Please specify BVH/BVAH valves for small bore applications.					
BVAM-0375*-1111	⅜"	2000 137.9						
BVAM-0500*-1111	½"	2000 137.9						
BVAM-0750*-1111	¾"	2000 137.9						
BVAM-1000*-1111	1"	2000 137.9						
BVAM-1250*-1111	1¼"	2000 137.9						
BVAM-1500*-1111	1½"	2000 137.9						
BVAM-2000*-1111	2"	2000 137.9						
BVAM-2500*-1111	2½"	2000 137.9				5.50	2.50	10.00
BVAM-3000*-1111	3"	2000 137.9				6.50	3.00	10.00
BVAM-4000*-1111	4"	2000 137.9	7.50	4.00	10.00			
			139.7	63.5	200.4			
			165.1	76.2	224.8			
			190.5	101.6	224.8			



'BVAM' Mid Pressure

Dependent Dimensions

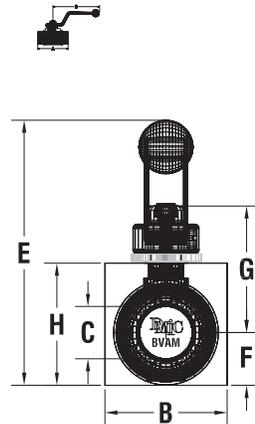
These are the valve dimensions that vary based on your selection of a connection style. Some connection styles provide additional dimensions to those published at left; see supplemental sketches next page.

'BVAM' valves with flange and socket weld connections are composite valves, built using threaded valves and 'HSSW' adapters. To harness the full capabilities of DMIC's 'SSW' Power Unit Layout system please call DMIC Helpline at 1-800-248-3642 to obtain the Designer's Guide.

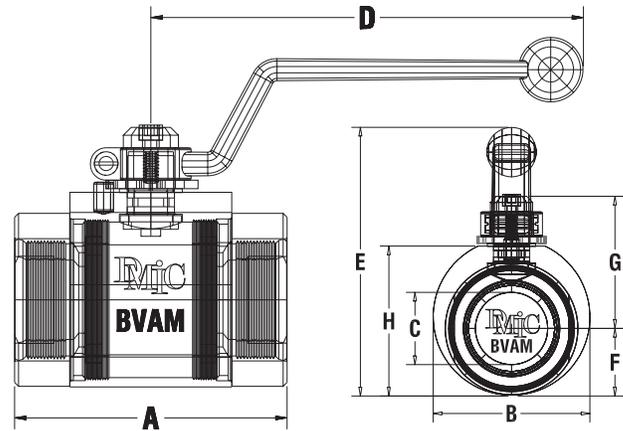
BVAM		Dependent Dimensions				
THREADED CONNECTION						
Dimension (inches)		A	E	F	G	H
Port Code(s)	Port Size	Overall Length	Overall Height	Bot to CtrLine	CtrlLine to Top	Valve Height
N S B I U A Threaded Connections	1/4"	Please specify BVH/BVAH for small bore applications				
	3/8"					
	1/2"					
	3/4"					
	1"					
	1 1/4"					
	1 1/2"					
	2"					
	2 1/2"					
	3"	5.97	9.28	2.75	4.19	6.16
	4"	8.87	11.29	3.75	5.20	8.17
SAE 4-BOLT FLANGE CONNECTION						
Dimension (inches)		A	A	-	-	-
Port Code(s)	Port Size	Overall Length FM/GM	Overall Length FL	Fig Pad Long	Fig Pad Short	UNC Bolt Thrd
FM GM FL SAE 4-Bolt Comp/Std Fig Conn	3/4"					
	1"					
	1 1/4"					
	1 1/2"					
	2"					
	2 1/2"					
	3"					
	4"	10.98	12.73	3.50	2.00	1/2"
	3"	12.76	15.26	4.19	2.44	5/8"
	4"	14.22	16.72	5.13	3.06	5/8"
SAE SPLIT FLANGE CONNECTION						
Dimension (inches)		A	-	-	-	A _{CM}
Port Code(s)	Port Size	Overall Length	O-Ring No.	DMIC Split Flange Kit	Length A (Combo)	
SM CM SAE Split & Combo Flange Connections	3/4"					
	1"					
	1 1/4"					
	1 1/2"					
	2"					
	2 1/2"					
	3"					
	4"	12.33	2-232	FSL-2500SK	11.66	
	3"	13.77	2-237	FSL-3000SK	13.27	
	4"	15.75	2-245	FSL-4000SK	14.98	
ANSI & DIN FLANGE CONNECTION						
Dimension (inches)		A	-	-	-	-
Port Code(s)	Port Size	Overall Length	For complete ANSI and DIN Flange selection specs, please see the ANSI/DIN tables in the 'BVAH' section.			
A* D* ANSI & DIN Flange Connections	1"					
	1 1/4"					
	1 1/2"					
	2"					
	2 1/2"					
	3"					
	4"	12.73				
	3"	15.26				
	4"	16.72				
SWIVEL SOCKET WELD CONNECTION						
Dimension (inches)		A	-	-	-	-
Port Code(s)	Port Size	Overall Length	Pipe OD	Socket Depth		
W4 Socket Weld Connections	3/4"					
	1"					
	1 1/4"					
	1 1/2"					
	2"					
	2 1/2"					
	3"	8.97	2.89	0.38		
	4"	10.66	3.51	0.50		
	4"	12.12	4.51	0.50		

Dimensional Sketches

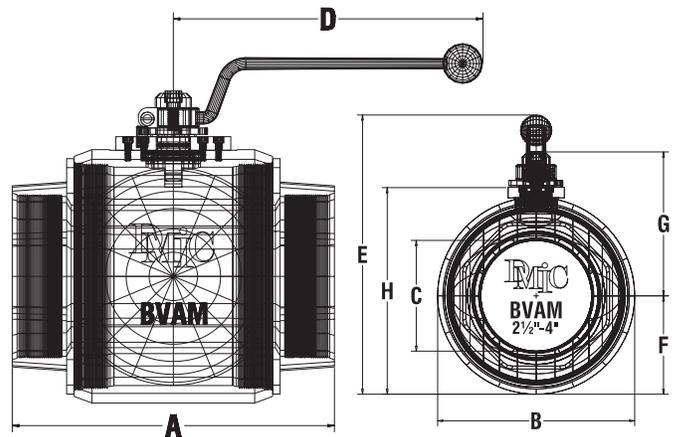
'BVAM' Block Body, 1/4" - 1"



'BVAM' Round Body, 1 1/4" - 2"



'BVAM' XL Round Body, 2 1/2" - 4"
(5" and up call Factory)



Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.



'BVAM' Mid Pressure

BVAM	Physical Construction
Parameter	Material
BODY	Steel Body & Endcaps
BALL	Steel, Chrome Plated
SPINDLE	Steel, Zinc Plated
STD HANDLE	Forged Steel, Nickel Plated
BALL SEALS	Delrin, optional Teflon and PEEK
O-RINGS	Buna-N standard, EPR/Viton quick del.
TEMP RANGE	-22°F to 212°F (-30°/100°C)
LIFE EXPECTANCY	Over 1,000,000 cycles

'BVAM' Accessories

DMIC 'BVAM' can be equipped with the industry's widest array of labor and cost-saving Ball Valve accessories, including:

- ☑ Locking Handles, OSHA type and Security
- ☑ Limit Switch Brackets, with one or two switches, and optional locking capability
- ☑ Various Panel and Substrate mounting options
- ☑ Turnkey Actuation Packages for Pneumatic, Electric, and Hydraulic applications

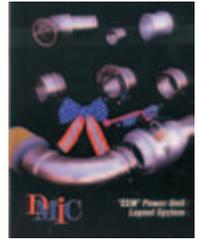
New Simplified Accessory Codes

For 2001, we've made it even easier to get exactly the Ball Valve you need for rapid delivery. Please see page 12.



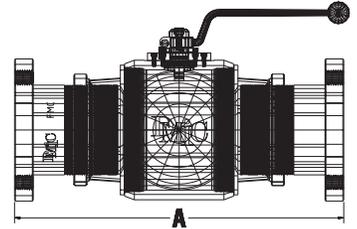
'HSSW' Possibilities

'BVAM' can be configured with Hose Barb, 4-Bolt/Split /ANSI Flange, and Swivel Socket Weld connections. You can route mechanically rigid 'HSSW' adapters in **Inline, 45°, and 90° degree** directions with dimensional tolerances previously only dreamed of. Also, you can interchangeably assemble Imperial and Metric standard power units to the same layout dimensions. **High pressure 'HSSW' adapters** are available in frequently ordered styles.



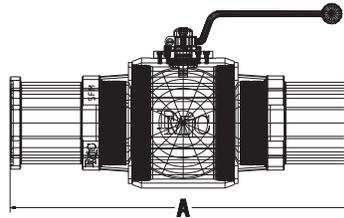
'BVAM' WITH C.61 4-BOLT FLANGE

Order 'BVAM' with connection code FM to receive Code 61 SAE 4-Bolt Companion connections. Order code GM for metric bolt holes, or code FL for C.61 Std. Flange (through bolt holes).



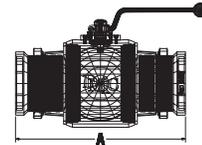
'BVAM' C.61 SPLIT FLANGE

Order HSSW connection code SM to receive Code 61 Split Flange Head connections rated to 2000 PSI. Rapid order a Split Flange kit with suffix /SFK.



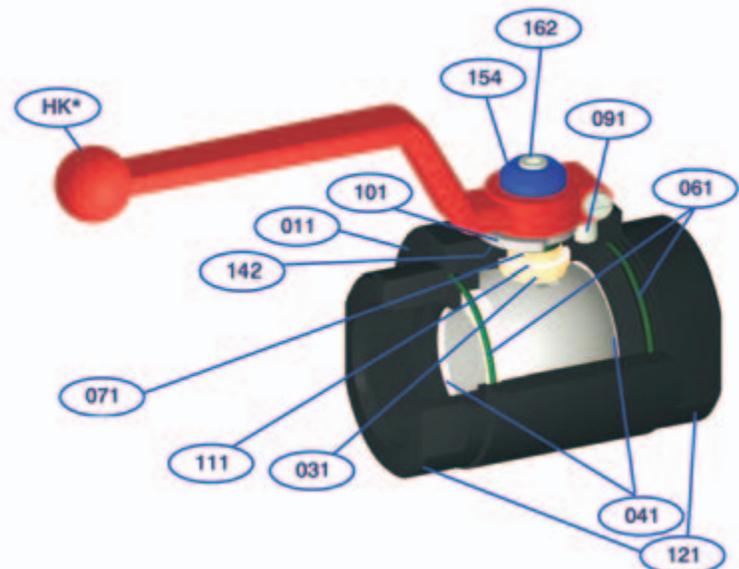
SWIVEL SOCKET WELD 'BVAM'

Order connection code W4 to receive adjustable "swivel" socket weld connections for pipe. HSSW up to 2000 PSI on



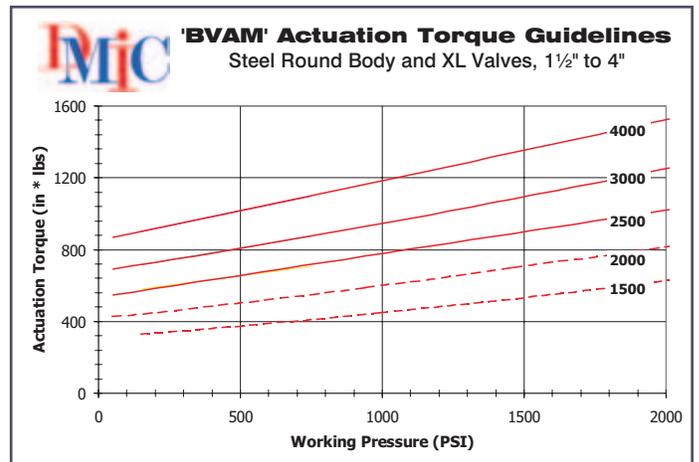
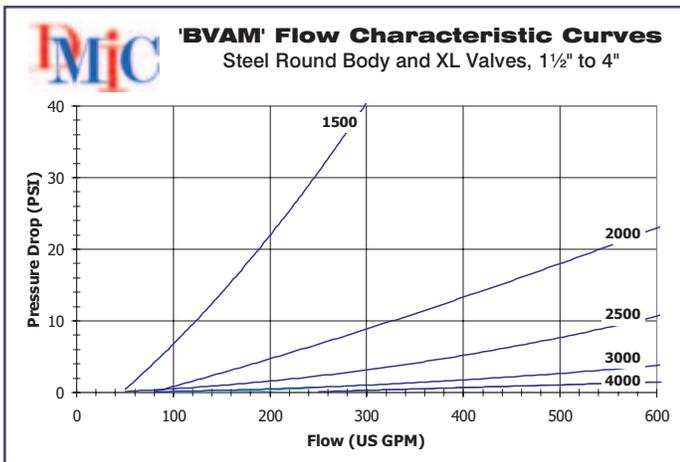
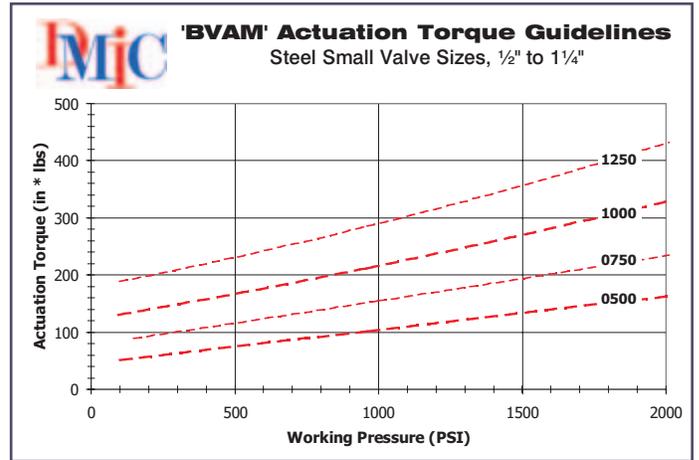
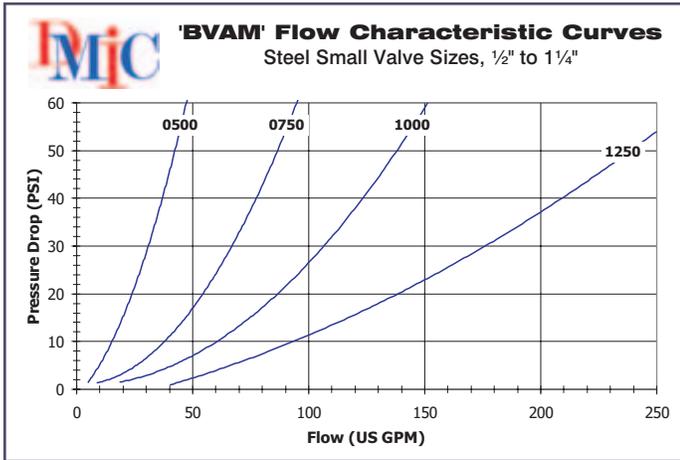
'BVAM' Service Parts BOM

BVAM		Service Parts BOM
Index	Qty	Description
011	1	Valve Body
021	1	Ball
031	1	Spindle, Steel
041	2	Ball Seal
061	2	Connection O-Ring
071	1	Spindle O-Ring
091	1	Stop Pin
101	1	Stop Washer
111	1	Internal Glide Brg
121	2	Connection End
142	1	Spindle Glide Brg
154	1	Color Code Cap
162	1	Handle Bolt
184	1	Top Cap (XL sizes only)
201	1	Top Cap O-R (XL sizes only)
231	6	Top Cap SHCS (XL sizes only)



'BVAM' Mid Pressure

'BVAM' Performance Curves



'BVAM' Ordering Codes Summary

BVAM - * * * * **S** - 1 1 1 1

Size Codes	
Code	Port Size
0250	Production quantities required for small 'BVAM' sizes in 2001
0375	
0500	
0750	
1000	
1250	
1500	
2000	2 1/2"
2500	3"
3000	4"
4000	
5000	5" - Call
6000	6" - Call

Connection Types	
IMPERIAL THREADS	
Code	Desc
S	SAE ORB
N	NPT
METRIC THREADS	
Code	Desc
B	BSPP
T	BSPT - special
ISO THREADS	
Code	Desc
IU	ISO6149
IA	ISO1179

DMIC 'BVAM' Ball Valves are manufactured in imperial "inch" and metric threads. HSSW "composite" valves are constructed from an (E)SAE O-Ring Threaded valve and 'HSSW' adapters. You can specify any ball valve using HSSW System "2+2" port codes (page 8) and expect the aggregate product/cost to be supplied.

O-Ring Material	
Code	Description
1	Buna-N (Standard)
2	EPR
3	Viton

Ball Seal Material	
Code	Description
1	Delrin
2	PTFE Teflon

Ball & Spindle Mat'l	
Code	Description
1	Carbon Steel

Body Material	
Code	Description
1	Carbon Steel
2	Stainless Steel

