# **'BVAL' Low Pressure**

# Ideal from suction to 400 PSI; NPT/SAE/6149/BSP PTFE Ball Seals; Optimized for DMIC's 'SSW' System

This series upgrades the old 'BVL', 'BVM', 'BVUM' brass valves; all sizes unrestricted bore.



Most large bore valves sold in the hydraulic market today are simply "plumbing" valves, suitable primarily for low pressure, cold water use.

<u>DMIC's 'BVAL' is the first ball valve of its kind</u>, specifically designed for leak-free Hydraulic Suction & Return line durability to 6" full bore. Again, we've redefined the standard of quality ... in large bore valves.

- ☑ Built to take the pressure spikes, temperatures, & elevated demands of hydraulic service
- ✓ Uses top grade Teflon ball seals, with O-Ring sealing throughout
- ☑ Suitable for actuation and panel mounting, accepts the full range of DMIC Ball Valve Accessories & Actuation Packages
- A reliable choice for Phosphate Esters, Water Glycols, and other unusual media (std model ships with Teflon ball seals / Buna-N O-rings)

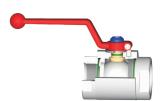
#### **About 'BVAL' Series**

The 'BVAL' series is built from three geometries to span our largest production size range from 1/4" to 6" unrestricted bore. All 'BVAL' valves use aluminum valve bodies for low mass and strength in suction to 400 PSI applications Please call DMIC for latest dimensions and delivery of 5" and 6" models.



#### BVAL 1/4" to 1"

Square body in the style of DMIC's 'BVH' high pressure valve. The ¼" and ¾" sizes share the ½" model's external dimensions.



#### BVAL 11/4" to 2"

Round body in the style of DMIC's 'BVAH' high pressure series. A natural for panel mounting and actuation.



#### BVAL 2½" to 6"

All new XL format design with unrestricted bore lightweight 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.

#### **Common Dimensions**

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

Common Dimensions				
	Rated	Rated DIMENSIONS in (mm)		
Port Size	Pressure	Valve	Valve	Handle
	PSI	Width	Bore	Length
	(bar)	В	С	D
1/4"	400	1.50	0.25	3.37
	27.6	38.1	6.4	65.8
3/8"	400	1.50	0.38	3.37
	27.6	38.1	9.5	65.8
1/2"	400	1.50	0.50	3.37
	27.6	38.1	12.7	65.8
3/4"	400	1.75	0.75	5.12
	27.6	44.5	19.1	95.8
1"	400	2.00	1.00	5.12
	27.6	50.8	25.4	102.1
4470	400	2.75	1.25	6.81
1 1/4"	27.6	69.9	31.8	129.8
11/2"	400	3.25	1.50	6.81
	27.6	82.6	38.1	142.2
2"	400	4.00	2.00	6.81
	27.6	101.6	50.8	159.3
21/2"	400	5.00	2.50	8.75
	27.6	127.0	63.5	200.4
	400	6.00		8.75
3"			76.2	224.8
	400	7.00	4.00	8.75
l 4"	27.6	177.8	101.6	224.8
	Size   1/4"   3/8"   1/2"   3/4"   1"   11/4"   11/2"   2"	Port Size PSI (bar)  1/4" 400 27.6  3/8" 400 27.6  1/2" 27.6  400 27.6  1" 400 27.6  1" 400 27.6  11/4" 400 27.6  11/2" 400 27.6  21/2" 400 27.6  21/2" 400 27.6  21/2" 400 27.6  21/2" 400 27.6  21/2" 400 27.6  400 27.6  400 27.6  400 27.6  400 27.6  400 27.6  400 27.6  400 27.6  400 27.6	Rated   Pressure   PSI   (bar)	Rated   Pressure   Size   PSI   (bar)     Width   Bore   C

# **BVAL' Low Pressure**

## **Dependent Dimensions**

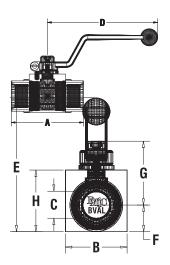
These are the valve dimensions that vary based on your selection of a connection style. Some connection styles provide additional dimensions to those published at left; see supplemental sketches next page.

'BVAL' valves with flange and socket weld connections are composite valves, built using threaded valves and 'SSW' 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.

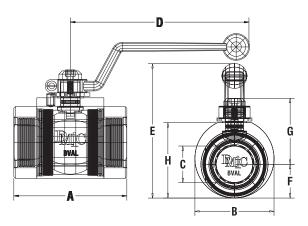
BVAL		Dep	endent	Dimens	ions	
THREADED CONNECTION						
Dimension (i		Α	Е	F	G	Н
Port Code(s)	Port	Overall	Overall	Bot to	PortCtr	Valve
10110000(3)	Size	Length	Height	PortCtr	to Top	Height
N	1/4"	2.63	2.59	0.63	1.31	1.50
	3/8"	2.63	2.59	0.63	1.31	1.50
S	1/2" 3/4"	2.63 3.28	2.59 3.77	0.63 0.76	1.31	1.50 1.75
В	1"	3.48	4.02	0.76	1.43	2.00
_	11/4"	3.90	5.11	1.14	2.12	2.61
IU	11/2"	4.32	5.60	1.39	2.36	3.10
IA	2"	4.90	6.33	1.82	2.65	3.83
Threaded	21/2"	6.00	7.89	2.50	3.63	5.35
Connections	3"	7.31	8.85	3.00	4.09	6.31
	4"	8.89	9.90	3.50	4.63	7.36
		LT FLA	NGE CC	NNECT	ION	
Dimension (ii	nches)	Α	Α	-	-	-
Dort Cada(a)	Port	Overall	Overall	Flg Pad	Flg Pad	UNC Bolt
Port Code(s)	Size	Length FM/GM	Length FL	Long	Short	Thrd
ENA	3/4"	7.65	8.78	1.88	0.88	3/8"
FM	1"	7.85	9.09	2.06	1.03	3/8 <sup>II</sup>
GM	11/4"	8.50	9.76	2.31	1.19	<sup>7</sup> / <sub>16</sub> "
FL	11/2"	8.92	10.68	2.75	1.41	1/2 "
SAE 4-Bolt	2"	9.52	11.15	3.06	1.69	1/2"
Comp/Std	21/2"	11.01	12.76	3.50	2.00	1/2"
Fig Conn	3" 4"	12.66	15.16 16.74	4.19	2.44	5/8"
	-	14.24 IT FLAN		5.13	3.06	5/8"
Dimension (ii			IGE CO	MINECTI	OIN	Α
`	Port	A Overall	O-Ring	DMIC	- Snlit	A <sub>CM</sub> Length A
Port Code(s)	Size	Length	No.	Flang		(Combo)
	3/4"	8.08	2-214	FSL-0	750SK	7.86
	/4	0.00		FSL-1	OOOCV	0.00
SM	1"	8.28	2-219			8.06
	1" 11/4"	8.28 9.34	2-222	FSL-1	250SK	8.92
CM	1" 11/4" 11/2"	8.28 9.34 9.76	2-222 2-225	FSL-1	250SK 500SK	8.92 9.21
CM SAE Split &	1" 1½" 1½" 2"	8.28 9.34 9.76 10.84	2-222 2-225 2-228	FSL-1 FSL-1 FSL-2	250SK 500SK 000SK	8.92 9.21 10.18
<b>CM</b> SAE Split & Combo Flange	1" 11/4" 11/2" 2" 21/2"	8.28 9.34 9.76 10.84 12.36	2-222 2-225 2-228 2-232	FSL-1 FSL-1 FSL-2 FSL-2	250SK 500SK 000SK 500SK	8.92 9.21 10.18 11.69
CM SAE Split &	1" 1½" 1½" 2"	8.28 9.34 9.76 10.84 12.36 13.67	2-222 2-225 2-228 2-232 2-237	FSL-1 FSL-2 FSL-2 FSL-2 FSL-3	250SK 500SK 000SK 500SK 000SK	8.92 9.21 10.18
CM SAE Split & Combo Flange Connections	1" 1½" 1½" 2" 2½" 3" 4"	8.28 9.34 9.76 10.84 12.36 13.67	2-222 2-225 2-228 2-232 2-237 2-245	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4	250SK 500SK 000SK 500SK 000SK	8.92 9.21 10.18 11.69 13.17 15.01
<b>CM</b> SAE Split & Combo Flange	1" 1½" 1½" 2" 2½" 3" 4" NGE CO	8.28 9.34 9.76 10.84 12.36 13.67	2-222 2-225 2-228 2-232 2-237 2-245 N also	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4	250SK 500SK 000SK 500SK 000SK 000SK	8.92 9.21 10.18 11.69 13.17 15.01 0.24)
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (ii	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE CC	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D	2-222 2-225 2-228 2-232 2-237 2-245 N also	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab	250SK 500SK 000SK 500SK 000SK 000SK le, see   # FLANG Bolthole	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt
CM SAE Split & Combo Flange Connections ANSI FLAI	1" 11/4" 11/2" 2" 2"/2" 3" 4" NGE COnches) Port	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D A Overall Length	2-222 2-225 2-228 2-232 2-237 2-245 N also	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1507 B/Ctr Diam	250SK 500SK 000SK 500SK 000SK 000SK le, see   # FLANG BoltHole	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (ii	1" 11/4" 11/2" 2" 2"/2" 3" 4" NGE COnches) Port Size 3/4"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D A Overall Length 7.02	2-222 2-225 2-228 2-232 2-237 2-245 N also A Flg Diam 3.87	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1509 B/Ctr Diam 2.75	250SK 500SK 000SK 500SK 000SK 000SK e, see   # FLANG BoltHole Dia 0.63	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (ii	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE CC nches) Port Size 3/4" 1"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DIA Overall Length 7.02 7.36	2-222 2-225 2-228 2-232 2-237 2-245 N also A Flg Diam 3.87 4.25	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1509 B/Ctr Diam 2.75 3.13	250SK 500SK 000SK 500SK 000SK 000SK e, see   # FLANG BoltHole Dia 0.63	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4
CM SAE Split & Combo Flange Connections  ANSI FLA Dimension (in	1" 11/4" 11/2" 2" 2"/2" 3" 4" NGE COnches) Port Size 3/4"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D A Overall Length 7.02	2-222 2-225 2-228 2-232 2-237 2-245 N also A Flg Diam 3.87	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1509 B/Ctr Diam 2.75	250SK 500SK 000SK 500SK 000SK 000SK e, see   # FLANG BoltHole Dia 0.63	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (iii Port Code(s)	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE CC nches) Port Size 3/4" 1" 11/4"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DIA Overall Length 7.02 7.36 8.27	2-222 2-225 2-228 2-232 2-237 2-245 N also A Flg Diam 3.87 4.25 4.63	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1507 B/Ctr Diam 2.75 3.13	250SK 500SK 000SK 500SK 000SK 000SK 000SK e, see   # FLANG Bolthole Dia 0.63 0.63	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (in Port Code(s)  AA ANSI 150# Flange Connections	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE CC nches) Port Size 3/4" 1" 11/4" 11/2"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DIA Overall Length 7.02 7.36 8.27 8.83	2-222 2-225 2-228 2-232 2-237 2-245 N also A FIg Diam 3.87 4.25 4.63 5.00	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1509 B/Ctr Diam 2.75 3.13 3.50	250SK 500SK 000SK 500SK 000SK 000SK  e, see   # FLANG Bolthole Dia 0.63 0.63 0.63	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (in Port Code(s)  AA ANSI 150# Flange	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE COnches) Port Size 3/4" 1" 11/4" 11/2" 2" 21/2" 3"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DIA) A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94	2-222 2-225 2-228 2-232 2-237 2-245 IN also Fig Diam 3.87 4.25 4.63 5.00 6.00 7.00 7.50	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1509 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00	250SK 500SK 000SK 500SK 000SK 000SK 000SK 1e, see     # FLANG BoltHole Dia 0.63 0.63 0.63 0.63 0.75 0.75	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (in Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE CC nches) Port Size 3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4"	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76	2-222 2-225 2-228 2-232 2-237 2-245 IN also Fig Diam 3.87 4.25 4.63 5.00 6.00 7.50 9.00	FSL-1 FSL-2 FSL-2 FSL-3 FSL-3 availab NSI 1507 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (in Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE COnches) Port Size 3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4" IVEL SO	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DI A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 DCKET	2-222 2-225 2-228 2-232 2-237 2-245 IN also Fig Diam 3.87 4.25 4.63 5.00 6.00 7.50 9.00	FSL-1 FSL-2 FSL-2 FSL-3 FSL-3 availab NSI 1507 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (in Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE CC nches) Port Size 3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4" IVEL SC nches)	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DIA Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 DKET \	2-222 2-225 2-228 2-232 2-237 2-245 IN also A Fig Diam 3.87 4.25 4.63 5.00 6.00 7.50 9.00 WELD C	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1507 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (in Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE C Conches) Port Size 3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4" IVEL SConches) Port	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D) A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 OKET \	2-222 2-225 2-228 2-232 2-237 2-245 N also A Fig Diam 3.87 4.25 4.63 5.00 6.00 7.50 9.00 VELD C	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 available NSI 1507 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50 ONNEC	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (ii Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)  SW Dimension (iii	1" 11/4" 11/2" 2" 2" 3" 4" NGE CC nches) Port Size 3/4" 1" 11/4" 2" 2" 21/2" 3" 4" IVEL SC nches)	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DI A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 OVERALL A OVERALL A OVERA	2-222 2-225 2-228 2-232 2-237 2-245 N also A Flg Diam 3.87 4.25 4.63 5.00 6.00 7.00 7.50 9.00 VELD C	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1507 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50 ONNEC	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (ii Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)  SW Dimension (iii	1" 11/4" 11/2" 2" 21/2" 3" 4" NGE C Conches) Port Size 3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4" IVEL SConches) Port	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (D) A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 OKET \	2-222 2-225 2-228 2-232 2-237 2-245 N also A Fig Diam 3.87 4.25 4.63 5.00 6.00 7.50 9.00 VELD C	FSL-1 FSL-2 FSL-2 FSL-3 FSL-4 available NSI 1507 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50 ONNEC	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4 4
CM SAE Split & Combo Flange Connections  ANSI FLAI Dimension (ii Port Code(s)  AA ANSI 150# Flange Connections (300 PSI nominal)  SW Dimension (iii	1" 11/4" 11/2" 2" 2½" 4" NGE CC nches) Port Size 3/4" 11/4" 11/2" 2" 21/2" 3" 4" IVEL SC nches) Port Size	8.28 9.34 9.76 10.84 12.36 13.67 15.77 DNN. (DI A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 OKET \ A Overall Length 7.02 7.36 8.27 8.83 9.65 11.24 12.94 14.76 OKET \ A	2-222 2-225 2-228 2-232 2-237 2-245 N also A Flg Diam 3.87 4.25 4.63 5.00 6.00 7.00 7.50 9.00 WELD C - Pipe OD 1.06	FSL-1 FSL-2 FSL-2 FSL-2 FSL-3 FSL-4 availab NSI 1509 B/Ctr Diam 2.75 3.13 3.50 3.87 4.75 5.50 6.00 7.50 ONNEC	250SK 500SK 000SK 500SK 000SK 000SK 000SK   e, see     FLANG	8.92 9.21 10.18 11.69 13.17 15.01 0.24) E # Bolt Holes 4 4 4 4 4

### **Dimensional Sketches**

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

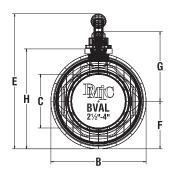


'BVAL' Round Body, 11/4" - 2"



'BVAL' XL Round Body, 21/2 - 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.





# **'BVAL' Low Pressure**

BVAL	Physical Construction
Parameter	Material
BODY	Aluminum Body & Endcaps
BALL	Brass, Chrome Plated
SPINDLE	Brass, Oversize Area
STD HANDLE	Aluminum Offset, Anodized
BALL SEALS	PTFE (Teflon) standard
O-RINGS	Buna-N standard, EPR/Viton quick del.
TEMP RANGE	-22°F to 212°F (-30°/100°C)
LIFE	Over 1 000 000 evelos
EXPECTANCY	Over 1,000,000 cycles

## **'BVAL' Accessories**

DMIC 'BVAL' 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.

#### 'SSW Possibilities

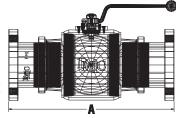
'BVAL' from 3/4" to 6" size can be configured with Hose Barb, 4-Bolt/Split /ANSI Flange, and Swivel Socket Weld connections. You can route mechanically rigid 'SSW' adapters in Inline, 45°, and 90° degree directions with dimensional tolerances previously only dreamed of. Also, you can interchangeably assemble Imperial and Metric standard power units to the same layout dimensions. Please call DMIC HelpLine at



1-800-248-3642 to obtain the 'SSW' Power Unit Layout Catalog.

#### 'BVAL' WITH C.61 4-BOLT FLANGE

Order 'BVAL' 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).

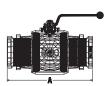


#### 'BVAL' C.61 **SPLIT FLANGE**

Order connection code SM to receive Code 61 Split Flange Head connections rated to 400 PSI. Rapid order a Split Flange kit with suffix /SFK.

#### **SWIVEL SOCKET** WELD 'BVAL

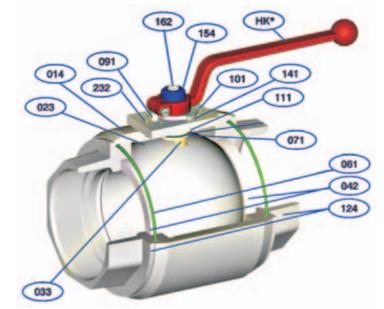
Order connection code W4 to adjustable "swivel" receive socket weld connections for Sch. 40 pipe. Rated to 400 PSI.





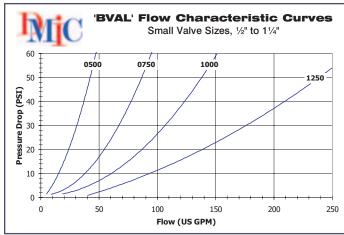
## **'BVAL' Service Parts**

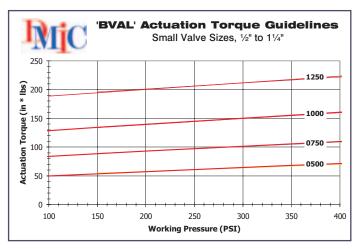
BVAL		Service Parts BOM
Index	Qty	Description
014	1	Valve Body
023	1	Ball
033	1	Spindle, Brass
042	2	Teflon Ball Seal
061	2	Connection O-Ring
071	1	Spindle O-Ring
091	1	Stop Pin
101	1	Stop Washer
111	1	Internal Glide Brg
124	2	Connection End
142	1	Spindle Glide Brg
154	1	Color Code Cap
162	1	Handle Bolt
184	1	Top Cap (XL sizes only)
201	1	Top Cap O-R (XL sizes only)
232	6	Top Cap SHCS (XL sizes only)

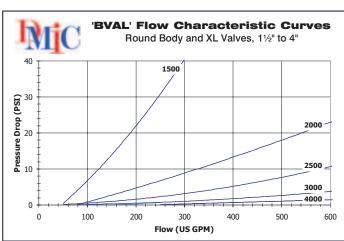


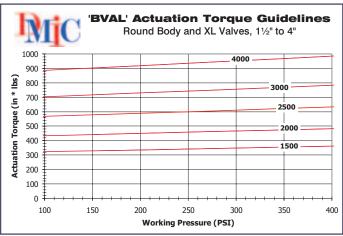
# 'BVAL' Low Pressure

#### **'BVAL' Performance Curves**

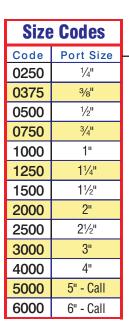








# **'BVAL' Ordering Codes Summary**



<b>Connection Types</b>		
IMPERIAL THREADS		
Code	Desc	
S	SAE ORB	
N	NPT	
METR	METRIC THREADS	
Code	Desc	
В	BSPP	
Т	BSPT - special	
ISO	ISO THREADS	
Code	Desc	
IU	ISO6149	
IA	IS01179	
_		

\* \* \*

DMIC 'BVAL' Ball Valves are manufactured in imperial "inch" and metric threads.

SSW "composite" valves are constructed from an (E)SAE

O-Ring Threaded valve and 'SSW' adapters. You can specify

constructed from an (E)SAE O-Ring Threaded valve and 'SSW' adapters. You can specify any ball valve using SSW System "2+2" port codes (page 8) and expect the aggregate product/cost to be supplied.

DBV-0101E Page 17 Call Toll Free 1-800-248-3642 In Canada 1-800-320-3642

**O-Ring Material** 

**Ball Seal Material** 

**Ball & Spindle Mat'l** 

**Body Material** 

Code

2

3

Code 2

Code

3

Code

Description

**Buna-N (Standard)** 

**EPR** 

Viton

Description

**PTFE Teflon** 

Description

**Brass** 

Description

Aluminum (standard)

