# Fixed Flange Ball Valves Super Heavy Duty 400/3000/6000 PSI Ball Valves with SAE and non-SAE Flanges for reliable HP service; 3/4" to 6"

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.



DMIC's Fixed Flange Ball Valves in SAE, DM-Flange, ANSI, and DIN patterns solve the problem of derated SAE working pressures in large sizes. Standard production is up to 6" size, with special order valves available to 12 inch or more, with up to 6000 PSI working pressure.

This new series of Fixed Flange Ball Valves was built upon the family of 6000 PSI 'BVAH' Threaded and Rotating Flange valves. The standard equipment DMIC DM-Flange connection is engineered for generous design factor in large bore high pressure circuits where no readily available ANSI or ISO standard flange is defined.

DMIC's Fixed Flange Ball Valves bring a new level of flexibility to your ANSI or DIN Flange projects as well, with our fast delivery of U.S. Made valves, and the refreshing experience of doing business with a responsive company that takes great care of its customers.



DMIC welcomes your special and OEM inquiry, as a powerful, second source for so-called "proprietary" or long leadtime foreign valves and related products.



If you are currently using other Fixed Flange Ball Valves and Flanges, the time has come for DMIC to impress you with outstanding quality, exceptional value, and the benchmark of performance that makes us America's most innovative and responsive Ball Valve manufacturer.

#### 'BVSS' Dual Pattern SAE 4-Bolt BV, C.61& 62

Replaces expensive and long-delivery foreign valves; 6000 PSI; Sizes from 3/4" to 2"

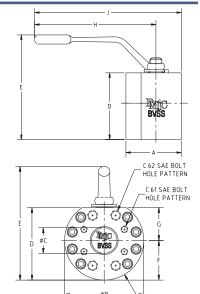


DMIC 'BVSS' covers all the bases in SAE 4-Bolt C.61 & 62 Flange connections, economically. This is the valve to stock if you can only keep one model, and it can bridge dissimilar flange standards.

☑ Spindle-Glide Design features low torque, high duty cycle durability ☑ Delrin Ball Seals and Buna-N standard elastomer seals, with all DMIC sealing options available for wide fluid compatibility range

☑ Unrestricted bore ball reduces pressure drop: Optional Stainless Steel

	Port Size		DIMENSIONS (inches)								
DMIC Part Number		PSI Rating	Α	В	φС	D	E	F	G	Н	J
			Valve Length	Valve Width	Valve Bore	Valve Height	Overall Height	Bot to PortCtr	PortCtr to Top	Handle Length	Overall Length
BVSS-** CODE 61 & 62 DUAL PATTERN FIXED FLANGE, 6000 PSI											
BVSS-07FH-1111	3/4"	6000 - PSI	3.15	3.50	0.78	3.26	5.70	1.75	1.51	7.00	8.38
BVSS-10FH-1111	1"		3.28	3.75	0.95	3.48	5.93	1.88	1.61	7.00	8.50
BVSS-12FH-1111	11/4"		4.06	4.44	1.25	4.18	7.30	2.20	1.96	10.00	12.04
BVSS-15FH-1111	11/2"		4.48	5.00	1.50	4.72	7.83	2.50	2.22	10.00	12.17
BVSS-20FH-1111	2"		4.57	6.00	1.94	5.50	8.63	3.00	2.50	10.00	12.10







#### **'BVFF' Fixed Flange Large Bore Ball Valves,** 400/3000/6000 PSI - DM-Flange, ANSI, DIN

Uses non-SAE high strength flanges for high working pressures; Sizes from 2½" to 6"; Standard with 6 bolt DM-Flange, optional ANSI/DIN flange; Custom order to 12"+



DMIC's 'BVFF' Series is poised to revolutionize the price-performance ratio of fixed flange large bore valves, just as our 'BVAH' series did for high pressure threaded ball valves.

The 'BVFF' family comprises aluminum, steel, and stainless steel versions, enabling DMIC to furnish large valves to any ANSI Flange class or DIN/ISO Flange standard, cost-effectively achieving the compatible connection, pressure rating, and sealing/material spec.

Standard 'BVFF' valves are equipped with DMIC DM-Flange connections in 3000 & 6000 PSI. ANSI Class or DIN Flanged valves are pressure rated according to the connection standard.

- Superior Field Proven Design features unrestricted bore, durability, and fast spare parts availability from our US Factory. DMIC affilliates worldwide provide offshore service capability.
- Delrin Ball Seals and Buna-N elastomer seals, with all DMIC sealing and valve material options available for wide fluid compatibility range. Stainless steel valves ship in days, not months.
- Complete array of DMIC pre-engineered accessories including locking kits, position sensing, and actuation compliment your project. Customized valve requests are welcome at DMIC.

		Uses DMIC Flange	PSI Rating	DIMENSIONS (inches)								
DMIC Valve Part Number	Port			Α	φВ	φС	D	E	F	G		
	Size			Overall Length	Valve Width	Valve Bore	Handle Length		PortCtr to Top	Overall Length		
BVFF FIXED FLANGE, ROUND BODY, ANSI 150#, to 400 PSI RATED												
The aluminum BVFF is perfect for lower pressure ANSI and DIN flange installations!												
BVFF-25AA-4111	21/2"	FAA-07W4-11	275 PSI (ANSI)	5.69	6.44	2.50	14.50	9.87	3.22	17.33		
BVFF-30AA-4111	3"	FAA-10W4-11		6.63	7.44	3.00	14.50	10.90	3.72	17.71		
BVFF-40AA-4111	4"	FAA-12W4-11	400	7.38	9.44	4.00	14.50	13.18	4.72	18.19		
BVFF-50AA-4111	5"	FAA-15W4-11	PSI	9.25	12.44	5.00	20.00	16.23	6.22	24.63		
BVFF-60AA-4111	6"	FAA-20W4-11	(Valve)	10.63	12.94	6.00	20.00	16.74	6.47	23.33		
BVFF FIXED FLANGE, ROUND BODY, DM-Flange, 3000 PSI RATED												
BVFF-25DM-1111	21/2"	FDM-07**-11		5.69	6.44	2.50	14.50	9.87	3.22	17.33		
BVFF-30DM-1111	3"	FDM-10**-11	3000 PSI	6.63	7.44	3.00	14.50	10.90	3.72	17.71		
BVFF-40DM-1111	4"	FDM-12**-11		7.38	9.44	4.00	14.50	13.18	4.72	18.19		
BVFF-50DM-1111	5"	FDM-15**-11	101	9.25	12.44	5.00	20.00	16.23	6.22	24.63		
BVFF-60DM-1111	6"	FDM-20**-11		10.63	12.94	6.00	20.00	16.74	6.47	23.33		
BVFF FIXED FLANGE, ROUND H.D. BODY, 6000 PSI												
BVFF-25DH-1111	21/2"	FDH-07**-11		6.19	7.44	2.50	14.50	10.75	3.72	17.71		
BVFF-30DH-1111	3"	FDH-10**-11	6000 PSI	7.38	7.94	3.00	14.50	11.41	3.97	18.19		
BVFF-40DH-1111	4"	FDH-12**-11		8.38	10.44	4.00	14.50	14.12	5.22	18.69		
BVFF-50DH-1111	5"	FDH-15**-11	. 0.	10.25	13.44	5.00	20.00	16.94	6.72	24.50		
BVFF-60DH-1111	6"	FDH-20**-11		11.81	14.94	6.00	20.00	18.74	7.47	25.89		

#### NOTE: (1) Please replace \*\* in flange part number with N=NPT, S=SAE, W4=Sch.40, W8=Sch. 80, WF=Sch. 160. 'BVFF' valves require a mating flange to be mounted in the fluid line.

#### **Specifying ANSI or DIN Flanges**

DMIC's 'BVFF' Ball Valve family is ideal for systems specifying ANSI or DIN flanged connections! Because our designs span three target pressure ranges, there is always a cost effective valve for your requirement. DMIC's flexible ordering system allows any flange standard to be applied to any valve sufficiently pressure rated. Please refer to the 'BVFF' Ordering Codes on the rear cover. When specifying ANSI or DIN Flange models, please request an updated dimensional print.

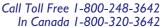
#### Fixed Flange Valves larger than 6"

An emerging market for DMIC is the manufacture of very large valves for process, petrochemical, and pipeline installations. In some large bore applications, we have saved charter customers close to 50% compared to the old school offering! If your organization is open to possibly substantial savings, over preserving the path of least resistance, consider partnering with DMIC on your next large scale project.

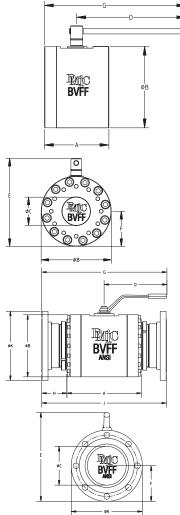


**BVFF-0401A-DRAFT** 

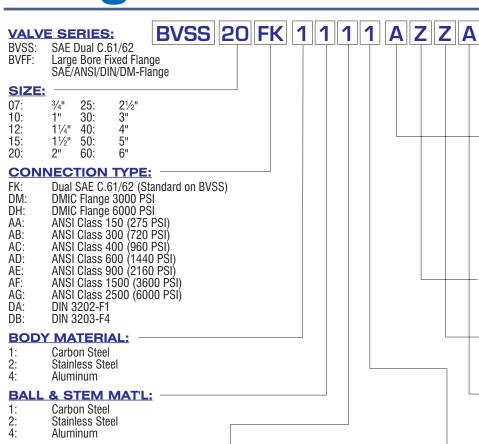
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## Mic Fixed SAE/ANSI/DIN/DM Flange Ball Valve Order Codes



#### O-RING SEALS:

1: Buna-N 2: EPR 3: Viton 4: High Temp

### COMMONLY ORDERED ACCESSORIES

For a complete listing of DMIC's comprehensive array of available valve options, please refer to our full line Ball Valve Catalog

#### GROUP I: LOCKING HANDLES & LIMIT SWITCH BRACKETS

Zero Accessory ("none") A: Locking Handle Security Locking Handle B: C/D: Limit Sw Brkt, Single/Dual Locking LimSw Brkt, Single/Dual E/F: G/H: Security Locking LSB, Single/Dual Limit Sw Brkt, SIngle/Dual w/Switch Locking LSB, Single/Dual w/Switch I/J: K/L: Security LLSB, Single/Dual w/Switch M/N:

#### **GROUP II: MOUNTING & PREP**

Z: Zero Accessory ("none")
B: Substrate Mounting Holes
G: Panel Mounting Holes

#### **GROUP III: ACTUATION**

Please consult factory for a customized actuated Ball Valve quotation. Codes A-L for Double Acting, codes M-X for Spring Return

#### **GROUP IV: HANDLE TYPE**

A: Handle, Crank, Steel Standard with BVSS D: Handle, High Torque Steel Standard with BVFF

#### **GROUP V: MOUNTING BRKTS**

Call Factory for application assistance

#### **GROUP VI: SURFACE FINISH**

Call Factory for available surface treatments

**Authorized Distributor:** 

**BALL SEALS:** 

1:

2:

4:

6:

Delrin

PTFE Teflon

High Temp

Ultra Low Friction

Glass Reinforced Teflon



**Full Member, NFPA**National Fluid Power
Association, U.S.A.





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