Fixed Flange Ball Valves
Super Heavy Duty 400/3000/6000 PSI Ball Valves with SAE and non-SAE Flanges for reliable HP service; ¾" 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 ¾" 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

<table>
<thead>
<tr>
<th>DMIC Part Number</th>
<th>Port Size</th>
<th>PSI Rating</th>
<th>DIMENSIONS (inches)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
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<tr>
<td>BVSS-** CODE 61 &amp; 62 DUAL PATTERN FIXED FLANGE, 6000 PSI</td>
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<tr>
<td>BVSS-07FH-1111</td>
<td>¾&quot;</td>
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<td>BVSS-20FH-1111</td>
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‘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 affiliates 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.

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.

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.

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 SAE/ANSI/DIN/DM Flange Ball Valve Order Codes

**VALVE SERIES:**
- **BVSS:** SAE Dual C.61/62
- **BVFF:** Large Bore Fixed Flange

**SIZE:**
- 07: ¾” 25: 2½”
- 10: 1” 30: 3”
- 12: 1¼” 40: 4”
- 15: 1½” 50: 5”
- 20: 2” 60: 6”

**CONNECTION TYPE:**
- **FK:** Dual SAE C.61/62 (Standard on BVSS)
- **DM:** DMIC Flange 3000 PSI
- **DH:** DMIC Flange 6000 PSI
- **AA:** ANSI Class 150 (275 PSI)
- **AB:** ANSI Class 300 (720 PSI)
- **AC:** ANSI Class 400 (960 PSI)
- **AD:** ANSI Class 600 (1440 PSI)
- **AE:** ANSI Class 900 (2160 PSI)
- **AF:** ANSI Class 1500 (3600 PSI)
- **AG:** ANSI Class 2500 (6000 PSI)
- **DA:** DIN 3202-F1
- **DB:** DIN 3203-F4

**BODY MATERIAL:**
- 1: Carbon Steel
- 2: Stainless Steel
- 4: Aluminum

**BALL & STEM MAT’L:**
- 1: Carbon Steel
- 2: Stainless Steel
- 4: Aluminum

**BALL SEALS:**
- 1: Delrin
- 2: PTFE Teflon
- 4: High Temp
- 6: Ultra Low Friction
- 7: Glass Reinforced Teflon

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

**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
- **D:** Handle, High Torque Steel

**GROUP V: MOUNTING BRKTS**
Call Factory for application assistance

**GROUP VI: SURFACE FINISH**
Call Factory for available surface treatments

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