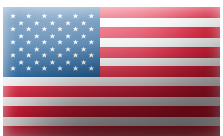
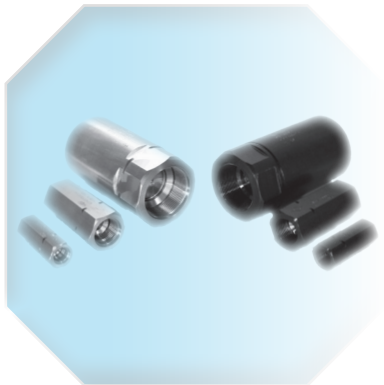
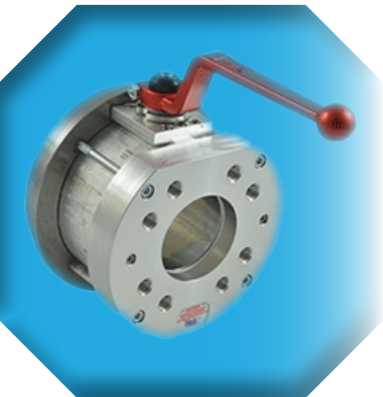




BALL VALVE CATALOG

YOUR CHOICE FOR HYDRAULIC COMPONENTS



BALL VALVES

www.DMIC.com

Continuing to Redefine the Benchmark of Quality in Low, Medium, and High Pressure Ball Valves

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.

Globalization of industry in the new millennium gives Buyers more sourcing choices, predominantly in the "low cost" arena. New brands have entered the marketplace and currency fluctuations have transformed bargains into liabilities. In this transformed industrial landscape, DMIC Ball Valves are the preferred choice for OEMs and Designers who value **quality, assured supply availability, and stability of design.**

DMIC's design discipline allows buyers to specify inch or metric version valves that share common external dimensions, or flanged valves in their choice of UN or Metric bolt threads. When your product is ready to be marketed internationally, DMIC is there for you with dimensionally compatible inch/metric products and a wide selection of layout tools, pre-engineered accessories and service parts that eliminate sourcing, redesign, and warranty headaches.

Introduction to DMIC Ball Valves & Spool Valves

Buyer's Resource Guide introduces expanded Ball Valve offerings and Factory Pre-Engineered Accessories

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Guide to DMIC Ball Valve Accessories

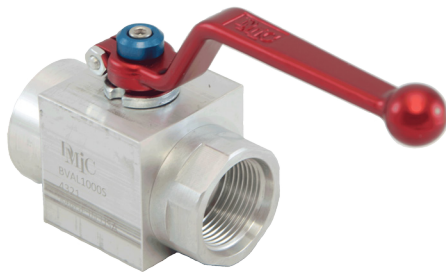
The industry's most comprehensive lineup of options and accessories saves you time, money, and headaches



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Low Pressure & Suction Valves

Premium quality full bore ball valves with wide range of connection options; full compatibility with "SSW" System; PTFE ball seals; Sizes from ¼" to 6" + Rated 29"Hg-600 PSI.



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Medium Pressure 3000 PSI

DMIC's medium pressure valves save mass when a full pressure valve is not needed; Sizes from 2½"-6".



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High Pressure for 7500/6000 PSI

The Benchmark of Quality in High Pressure Valves
Upgraded stainless steel design ; To 6" standard size.



BVH	Block Body Ball Valves for ¼"-1"	28
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Super High/Ultimate Pressure 10000/15000 PSI

Redesigned and substantially strengthened for enhanced design factor at elevated operating pressures.



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All DMIC valves are available in larger sizes and with custom features, on request.





BVQ/BVQG High Pressure/High Temp 6000 PSI

Revolutionary Ultimate Quality DMIC Original Design for the most demanding applications; Engineered for high duty cycle actuation.

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Multiway Diverter Valves, Low/Mid Pressure

Exclusive offset design eliminates welded/brazed 3rd port; Optional Stainless Steel Construction: Sizes from ¼"-3".

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BV3V Floating Ball Multiway

Exclusive DMIC Design! Innovative design and manufacturing makes a T-bore floating ball valve possible

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BV3H & BV4H True Multiway, 6000 PSI

Trunnion Ball 3-Way & 4-Way Ball Valves with choice of Ball Pattern, accept high port-to-port ΔP without leakage.

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BVMM Manifold Mounted

Manifold Mounted 2-Way & 3-Way High Pressure Valves with 4th generation design for low ΔP & high energy efficiency.

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Fixed Flange XL Valves, 3000 & 6000 PSI

Large bore Fixed Flange mount ; Double Block & Bleed large bore.

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Direct Mount Valves 3000 & 6000 PSI

DMIC Made in USA Quality and Innovation, in standard and new Captive Direct Mount Valves; Aluminum, Carbon, SS.

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Insert Valves for Manifold Cavity

Ingenious DMIC design permits you to install a quality 2 or 3 way valve using an easy to machine blind hole cavity !

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DMIC Actuators

An ultra compact Hydraulic Alternative to standard electric or pneumatic. Made in USA.

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ABOUT BALL VALVES

ISO 9001 CERTIFIED

DMIC's continuous development yields enhanced durability and functional improvements

Best-of-Brand Valve

Continuous improvement to DMIC Ball Valves has furthered our design leadership in the marketplace and the field. DMIC full port unrestricted bore ball valves have led the way in innovative design, practical engineering & technical excellence since 1985. DMIC's expanded series continue to offer buyers the next level of innovation, technical achievement, and engineering excellence, continuing to set and elevate the standards by which competing Ball Valves are judged. Expanded valve size range for non-fluid power markets allow DMIC to furnish valves to 18" and beyond.

Special and Custom Products

DMIC is one of the few companies in the hydraulic valve business today that still maintains a Custom Shop. We are able to produce a low production run or even a one-off valve, and do so cost-effectively. In the DMIC Custom Shop, engineers and craftsmen with decades of experience assemble and test low volume products to ensure that they meet every operational requirement. Our customers' Special and Custom Valves receive the same attention to detail and perfection in execution, as do DMIC's own prototypes, all of which benefit from the latest CAD, FEA, and CNC machining resources available today.

Perhaps this is why DMIC is selected as the contractor for esoteric valve projects by the world's most respected military, aerospace, civil aviation, research, and manufacturing organizations. DMIC's roots run deep with the pride of not only crafting a better product, but a better value. DMIC people are perfectionists: an aspiration we hope you'll recognize in each DMIC product we offer for sale.

Multi-Stage Quality Control

Each DMIC Ball Valve undergoes very strict quality assurance checks during the manufacturing process, assembly, and at shipping. The result is a product of consistent quality, infrequent warranty returns, and reduced downtime & back-shipping expense for the Buyer.

Extensive In-House Capabilities Expand Innovation

DMIC's leadership in the Engineering arena is known throughout industrial sectors where fluid control valves are used. Our passion for excellence saves you time, money, and headaches. Because we are constantly refining our products, your valve may incorporate improvements that were not in the production channel when the catalog was printed. Running improvements are part of our continual product development. **Consistent with our policy for continuous improvement, please request a certified print.**

Thinking Like Our Customers

The DMIC Distributor and OEM is our partner in quality. Some Fluid Power houses resell whichever brand results in the largest profit margin. **The DMIC Factory refers End-User inquiries to true Distributors who promote DMIC's quality objectives wholeheartedly.** We protect and support your local Stocking Distributor with comprehensive inventory, direct line to in-house Technical Sales & Engineering, drop shipment capability, and same-day shipping of most orders. Your DMIC Distributor is the **best in the business** ... in your locale.



Respect for the Environment

All DMIC valves are tested, cleaned, and plugged air & oil-tight before they are made available for shipment. DMIC supports the environment by using only biodegradable, recyclable paper packaging. Wasteful packaging is minimized in favor of "peanut-free" shipments that arrive in excellent condition. We also offer Chromium-6 Free plating, a technically superior product that is safer for the environment, and DFAR compliant valves that assure sources of material supply that respect modern environmental custodianship.



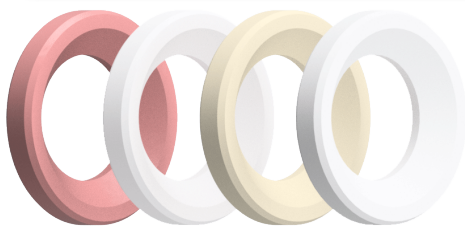
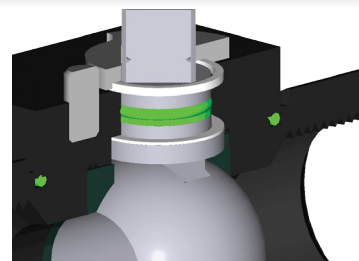
STANDARD FEATURES

**"Innovation Through Dedication" yields
a consistently high quality product, priced competitively**

America once said, "We choose to go to the moon..., not because [it is] easy – but because [it is] hard." Taking the high road has its rewards, not the least of which is the pride & satisfaction of making a product that improves the quality of life for someone, somewhere - whether that be a child at Disney World, an automaker whose production line stays up due to the absence of quality problems, or an American worker who has a job because we've chosen to do it the hard way.

Spindle-Glide™ Construction (Eliminates metal to metal-to-metal contact)

This DMIC innovation utilizes polyamide thrust bearings both inside the valve as well as between the stop washer and body to reduce wear & friction during valve actuation. With the genuine DMIC Locking Handle Kit option, an auxiliary bearing is also installed between the base and lever plates. A factory application of synthetic lubricant* inside the valve during manufacturing, as well as within the sealed **Spindle-Glide™** system, ensures that the valve will be as smooth to operate years after it is set as it was when it was new, because you can never predict when there will be an emergency. **NOTE (*): Synthetic Lubricant deleted on EPR-optional valves.**



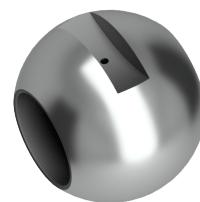
Wide Selection of Ball Seals

DMIC's optional ball seal thermoplastic formulation reduces actuation torque, while increasing longevity of the ball seals, resulting in reduced friction between the ball and the seals during actuation. DMIC is an innovator in researching, testing, and deploying the most modern composite and next generation thermoplastics for demanding applications. See page 13 for a selection of frequently requested sealing materials.



Pressure Balancing Orifice

DMIC refines the sealing principle of our original "floating ball" valve design by providing an orifice at the stem slot, which improves sealing while providing internal lubrication.



Color Coded By Port Thread

To simplify identification of genuine DMIC High Pressure Ball Valves in the stockroom and in the circuit, valves are factory coded according to the port thread.

Unrestricted Bore Designs

Nearly every 2-way DMIC Ball Valves are designed with an unrestricted "full" bore including unrestricted 2" models relative to the cross-sectional area of fluid lines connected to the valve. Additionally, DMIC only uses a **STRAIGHT bore passage** in every valve model to aid laminar flow (some brands use a concave, hollow ball). The result is that the **Coefficient of Flow (Cv) and Pressure Drop (ΔP)** of a DMIC Ball Valve very closely approximates a like length section of fluid line. Except in fancy circuits, you can treat our valves as just the same length of pipe, due to the unrestricted bore.

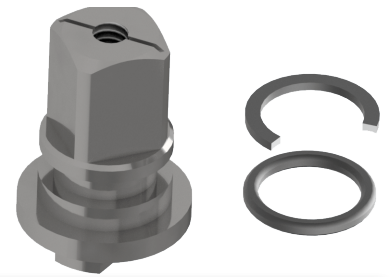


O-Ring + Backup Sealing

DMIC is one of the few manufacturers to incorporate backup rings at the stem & connection* seals, in addition to a premium brand O-Ring, in all steel Ball Valves.

The reason for deleting this very critical component is primarily cost - it takes twice the time to install **two** seals carefully. A DMIC craftsman fits each premium brand O-ring and backup by hand, while individually inspecting components for defects as the parts are matched. A factory application of synthetic lubricant during parts matching eliminates damage to stem seals, and keeps the valve internally lubricated while it awaits initial service.

NOTE (*): Connection backups standard on valves 1½" and larger



Comprehensive variety of mountings

DMIC is the leading supplier of panel mounting HP ball valves in North America.

DMIC's In-House Manufacturing results in fast delivery of Panel Mount, Substrate mount, and Actuator-prepped Ball Valves for industry. The design of DMIC High Pressure valves allows every model to be panel mounted.

When designing products using DMIC Panel/Substrate Mount or Actuator-Prep Ball Valves, please call DMIC Help Line for mounting dimension prints and important information regarding valve warranty on non-DMIC actuation.



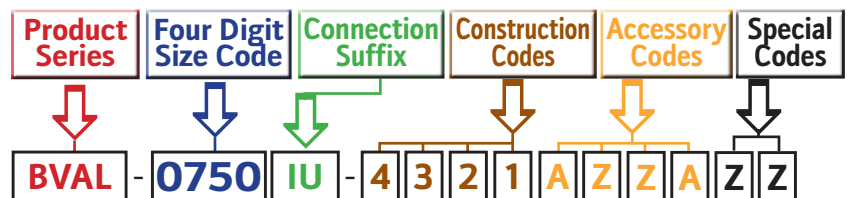
Cross-Series Accessory Solutions

DMIC's engineering excellence has resulted in the industry's largest collection of original Pre-Engineered accessories such as Locking Handles, Limit Switch Brackets, Rotary Actuation packages, and innovative solutions for esoteric application problems.

Buyers of DMIC Ball Valves can now leverage this time and labor saving resource across the entire project, rather than just on a few high pressure valves. All DMIC Valves share many key attributes, allowing the full range of accessories to be fitted to every series. Greater commonality and fewer part numbers to stock mean your design gets a little simpler, more elegant, and most importantly, cost efficient. **When quality overrides price in your project, insist on "DMIC - No Substitute".**

BALL VALVE ORDERING CODES

DMIC Ordering Codes allow the Buyer to easily specify any Ball Valve that is possible to manufacture. Each DMIC part number is made up of **PRODUCT SERIES, SIZE, CONNECTION, CONSTRUCTION CODE** and optional **ACCESSORY CODES**.



Product Series – PAGE 9

The entire DMIC product line is encoded to sort by product series, in increasing order of size, for easy part number searches. Each series code is a mnemonic of the item it represents, such as **BVH** for **B**all **V**alve **H**igh Pressure or **Spool Valve 3-way Cartridge**.

Four-Digit Standard, and [2+2] Size Codes – PAGE 10

DMIC's four-digit size code, in 1/1000ths of an inch, provides an easy "double-check" at-a-glance, of correct port sizing and connection thread on your BOM or P/O. For valves made to imperial units, the size code is delimited by a dash (eg. **BVAH-1500N-1113**).

Connection Suffix – PAGE 11

All DMIC Ball Valves utilize a Connection Suffix. Please see the **expanded availability of Flange types, Socket Weld and Butt Weld Connections for all currently recognized U.S. and metric pipe standards, as well as GrayLoc™ connections**. If you don't see what you need, DMIC can make it, because we **are** the Factory - please call for a quotation.

Construction & Accessory Codes – PAGES 10-13

The Buyer can specify valve options by changing the standard "-1111" suffix code. For standard ball valves, no Accessory Code is required.

The six-character Accessory Code allows Buyers to easily option a valve to their exact requirement



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PAGE 8

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IN CANADA 1-800-320-3642



VALVE SERIES SELECTION

DMIC Products are grouped by Series code, which provides a mnemonic indication of their intended application

BVAL - 0750 IU - 4 3 2 1

PREMIUM QUALITY BALL VALVES - MADE IN U.S.A.																									
Valve Series	MAX Working PSI	SIZE AVAILABILITY BY VALVE SERIES													CONNECTIONS										
		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" and Above	NPT / SAE / BSPP	BSPT / M-NPT	M-SAE ORB / M-SAE ORFS	Socket Butt Weld	ISO 6149	SAE 4-BOLT FLG	SAE SPLIT FLG	ANSI / DIN FLG	MANIFOLD MOUNT	
Symbol Legend : ☺ - In stock, same day ship ☑ - Ships within few days ☹ - Available with lead time ⇄ - Connection option available with SSW components (Back Page)																									
BVAL Low Pressure	600 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☑	☑	☹	☺	☑	☑	⇄	☑	⇄	⇄	⇄	N/A	
BVALP Low Profile	250 PSI	N/A									☺	☺	☺	☹	☹	☹	⇄				☺	☑	☑	N/A	
BVAH Large Bore H.P.	6000 PSI	N/A					☺	☺	☺	☺	☺	☺	☑	☑	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A	
BVH Block Body H.P.	6000 PSI	☺	☺	☺	☺	☺	☹ 1" T Reduction	N/A							☺	☑	☑	☺	☑	☺	☺	☺	☺	☺	N/A
BVHS Stainless Steel	6000 PSI	N/A				☺	☺	☺	☺	☺	☺	☑	☑	☑	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A	
BVHH Super High Pressure	10000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	N/A		☑	N/A	
BVHHH Ultra Pressure	15000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	N/A		☺	N/A	
BVQ BVQG High Pressure	6000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A	
BV3L BV3LZ Aluminum Diverter	600 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	⇄	⇄	⇄	N/A	
BV3D BV3DZ Steel Diverter	3000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A	
BV3V Diverter	5000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A	
BV3H BV4H Trunnion Multi way	6000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A	
BVMM Manifold Mount	3000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☹	☹	N/A									☺
	6000 PSI																								
BVFD Double Block & Bleed	3000 PSI	☹	☹	☹	☹	☹	☹	☺	☺	☺	☺	☺	☺	☹	☺	☑	☑	☺	☑	☺	☺	☺	N/A		
	6000 PSI																								
BVFF Fixed Flange	3000 PSI	N/A									☺	☺	☺	☺	☹	N/A				☺	N/A	☺	N/A		
	6000 PSI																								
DBBV FL/S9 Flange Mount	5000 PSI	N/A									☺	☺	☺	☹	N/A	N/A									
BVDM Direct Mount	3000 PSI	N/A	☺	☺	☺	☺	☺	☺	☺	☹						☹	☹	☹	N/A	N/A				☺	N/A
	6000 PSI																								
BVDMF Captive Direct Mount	3000 PSI	N/A	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	N/A	N/A				☺	N/A	☺	N/A			
	6000 PSI																								
BVSS Dual Pattern SAE 4-Bolt	6000 PSI	N/A			☺	☺	☺	☺	☹	☹	☹	☹	N/A	N/A				☺	N/A						
SV2C / SV3C Intra-Manifold	6000 PSI	☹	☺	☺										☺	☺	☺	☺		☑	☹	☹	☹	☹	N/A	
BVFQ Fire Safe	6000 PSI	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☹	☹	☹	☹	☺	☹	☹	☺	☹	☹	☹	☺	N/A	
Symbol Legend : ☺ - In stock, same day ship ☑ - Ships within few days ☹ - Available with lead time ⇄ - Connection option available with SSW components (Back Page)																									

All standard DMIC Ball Valve options including Factory Actuation and special mountings can be specified through Construction and Accessory codes. Please see pages 10 through 13.



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PAGE 9

CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



VALVE SIZE SELECTION

Stock sizes ranging from ¼" to 6"
Custom Order of ANSI & API-Cert models to 12" and above

BVAL - 1000 SM - 4 3 2 1

DMIC Ball Valves offer the industry's most flexible size range with deliveries that are often a fraction of what you would expect.

Custom and Special Purpose Valves from DMIC

When your need for a specialty ball valve meets our very reasonable production criteria, we will gladly design, prototype, test, and warranty the subject valve on an OEM basis.

The result is reduced delivery times, development expense, and a direct partnership with the manufacturer which DMIC customers value greatly in those rare instances where the need for troubleshooting and corrections arise.

DMIC especially welcomes users of high volume designs, users with difficult requirements, and users of large bore valves needing API Certification. If DFAR is needed, DMIC products are a natural choice.

Symbol Legend

- ☑Standard feature for this series
- ⚡Rapid Delivery Option
- ☎Please call to confirm lead time
- ☒Not Available

Valve Size			Size Availability By Valve Series											
Nominal			Valve Series Group											
Inch	Order Code	Metric Equiv	BVAL	BV3L BV3LZ	BVH BV4H	BVHS	BVHH BVHHH	BVG BVQG	BV3D BV3DZ	BV3H BV4H	BVMM	BVDM BVDMF BVSS	BVFF BVFFV BVFD	SV2C SV3C
¼"	0250	6mm	☑	☑	☑				☑	☑	☑			
⅜"	0375	10mm	☑	☑	☑				☑	☑	☑			
½"	0500	12mm	☑	☑	☑		☑	☑	☑	☑	☑	☑		☑
¾"	0750	20mm	☑	☑	☑		☑	☑	☑	☑	☑	☑		☑
1"	1000	25mm	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑
1¼"	1250	32mm	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑
1½"	1500	40mm	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑
2"	2000	50mm	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑
2½"	2500	63.5mm	☑	☑	☑	☎	☎	☎	☎			☑	☑	☎
3"	3000	76mm	☑	☑	☑	☎	☎	☎	☎			☎	☑	☎
4"	4000	101.6mm	☑	☎	☑	☎	☎	☎	☎			☎	☑	
5"	5000	127mm	☑	☎	☎	☎	☎	☎	☎			☎	☑	
6"	6000	152mm	☑	☎	☎	☎	☎	☎	☎			☎	☑	
8"	8000	203mm	☎	☎	☎	☎		☎	☎				☎	
10"	A000	254mm	☎	☎	☎	☎		☎	☎				☎	
12"	C000	304mm	☎	☎	☎	☎		☎	☎				☎	

CUSTOMIZING DMIC VALVE CONNECTIONS

To specify "unlike connection" or step-size custom order valves, use DMIC "2+2" Ordering Codes

DMIC customers enjoy unparalleled availability of specialized and custom valves, in addition to stock offerings. We devised the "2+2 code" system to allow Buyers to uniformly specify unlike connections on otherwise standard valves.

Suppose you require a BV3D-1000 3-way diverter with one C.61 Split Flange connection for rigid mounting, one C.61 4-Bolt Companion port, and an ISO6149 Threaded port. Specifying this valve could become a nightmare (let alone the delivery waiting time from overseas), but not for DMIC customers.

Please follow the example at right to see how this valve is requested, and how your quotation and production will proceed using the 2+2 codes and SAN system. To formulate a "2+2" code, take the FIRST TWO digits of the SIZE and append the CONNECTION CODE (next page).

- Determine the size and connection for each port of the valve. Contract into 2+2 codes:

1000 SM → **10 SM**
1000 FM → **10 FM**
1000 IU → **10 IU**

It's easy!
 Just chop the last two digits of the size code off and join up with the connection code.

- Collate the connection codes (for multiway valves, in the published port sequence for accurate positioning at the Factory):

BV3D - 10 SM - 10 FM - 10 IU
 Port 1 Port 2 Port 3

- Call your distributor or DMIC with the composite valve p/n. We will search the database and quote pricing/delivery. With your PO, if a SAN is req'd, one will be assigned, and your valve is on the way!



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 IN CANADA 1-800-320-3642



ISO 9001 CERTIFIED

CONNECTION AVAILABILITY

Symbol Legend

- ☑Standard feature for this series
- ☺Rapid Delivery Option
- ☎Please call to confirm lead time
- ☒Not Available
- ☐Composite valve assembly

The widest variety of ball valve connection options offered in the world

**** Please note: Our valve may be rated for more PSI, but we always suggest you operate your system according to pipe schedule, ANSI, or DIN specification.**

BVAL - 1000 SM - 4 3 2 1

Connection Style			Connection Availability By Valve Series										
			Valve Series Group										
	Code	Description	BVAL	BV3L BV3LZ	BVH BVAH	BVHS	BVHH BVHHH	BVQ BVQG	BV3D BV3DZ	BV3H BV4H	BVDM BVDMF BVSS	BVFF DBBV BVFD	
THREADED CONNECTIONS	Female Threaded Connections												
	S	SAE-F ORB	✓	✓	✓	✓	✓	✓	✓	✓		☎	
	N	NPT-F	✓	✓	✓	✓	✓	✓	✓	✓		☎	
	IU	ISO6149	✓	✓	✓	☞	☞	☞	✓	✓		☎	
	B	BSPF-F / ISO 1179 / G-Thread	✓	✓	✓	✓	✓	✓	✓	✓		☎	
	T	BSPT (Tapered Pipe)	☞	☞	☞	☞	☞	☞	☞	☞		☎	
	MP	Medium Pressure Coned Port					☞						
	UMR	AS5202	✓	✓	✓	✓	✓	✓	✓	✓			
	Male Threaded Connections												
	J	JIC-Female	☎	☎	✓	☞	☞	☞	✓	☞			
	MJ	JIC-Male	☎	☎	✓	☞	☞	☞	✓	☞			
	MD	DIN2353-M Tube (Please Call)	☎	☎	☎	☎	☎	☎	☎	☎			
MS	SAE-M ORB (Custom Order)	☎	☎	☎	☎	☎	☎	☎	☎				
MN	NPT-M	☎	☎	✓	☞	☞	☞	☞	✓	☞			
FLANGED CONNECTIONS	SAE 4-Bolt Companion Flange												
	FM	C.61 Companion, UNC Bolt Holes	☎	☎	✓	✓	☎	☎	✓	✓	✓	☎	
	FH	C.62 Companion, UNC Bolt Holes			✓	✓	☎	☎	✓	✓	✓	☎	
	GM	C.61 Companion, Metric B/H	☎	☎	✓	✓	☎	☎	✓	✓		☎	
	GH	C.62 Companion, Metric B/H			✓	✓	☎	☎	✓	✓		☎	
	SAE 4-Bolt Standard Flange												
	FL	Universal C.61 Std., Thru B/H	☎	☎	☎	☎	☎	☎	☎	☎	✓		
	FK	Universal C.62 Std., Thru B/H			☎	☎	☎	☎	☎	☎	✓		
	SAE Split Flange Head												
	SM	SAE C.61 Split Flg Head	☎	☎	✓	✓	☎	☎	✓	✓			
	SH	SAE C.62 Split Flg Head	☒	☒	✓	✓	☎	☎	✓	✓			
	ANSI Flange (quoted pressure ratings by standard ANSI B16.5 - 1988)												
	AA	Class 150 (290 PSI @ 100°F)	☎	☎	☎	☎	☎	☎	☎	☎	☎		
	AB	Class 300 (750 PSI @ 100°F)			☎	☎	☎	☎	☎	☎	☎		
	AC	Class 600 (1500 PSI @ 100°F)			☎	☎	☎	☎	☎	☎	☎		
	AD	Class 900 (2250 PSI @ 100°F)			☎	☎	☎	☎	☎	☎	☎		
	AE	Class 1500 (3750 PSI @ 100°F)			☎	☎	☎	☎	☎	☎	☎		
	AF	Class 2500 (6250 PSI @ 100°F)			☎	☎	☎	☎	☎	☎	☎		
	DIN Flange												
	DA	DIN 3202-F1 Flange, 4/8 Bolt	☎	☎	☎	☎	☎	☎	☎	☎	☎		
	DB	DIN 3202-F4 Flange, 4/8 Bolt	☎	☎	☎	☎	☎	☎	☎	☎	☎		
SOCKET WELD	Socket Weld Connection												
	Pipe	Tube											
	WA	WTA			☞	☞	☞	☞	☞	☞		☞	
	W4	WT4	☎	☎	✓	✓	✓	☞	✓	✓		☞	
	WB	WTB			☞	☞	☞	☞	☞	☞		☞	
	W8	WT8			✓	☞	☞	☞	☞	☞		☞	
	WD	WTD			☞	☞	☞	☞	☞	☞		☞	
	WF	WTF			✓	☞	☞	☞	☞	☞		☞	
WG	WTG			☞	☞	✓	☞	☞	☞		☞		
BUTT WELD	Butt Weld Connection												
	WBA	Standard Pipe			☞	☞	☞	☞	☞	☞		☞	
	WB4	Schedule 40			✓	☞	☞	☞	☞	☞		☞	
	WBB	Extra Strong (XS)			☞	☞	☞	☞	☞	☞		☞	
	WB8	Schedule 80			✓	☞	☞	☞	☞	☞		☞	
	WBD	Schedule 120			☞	☞	☞	☞	☞	☞		☞	
	WBF	Schedule 160			✓	☞	☞	☞	☞	☞		☞	
WBG	Double Extra Strong (XXS)			✓	☞	☞	☞	☞	☞		☞		
MANIFOLD MOUNTED	Manifold Mount, 2- and 3-Way												
			DMIC 2-/3-Way Industry Std. Pad		See specifications for connection details								
			DMIC Intramanifold Cavity										



CONSTRUCTION CODES

Buyers may easily specify optional material and physical features with the 4-digit construction code suffix

DMIC Construction Codes are designed to be as universal as possible across the Ball Valve product line. Each of four positions determines the construction of a particular part of the valve.

Refer to Spec Sheets for Standard Configuration by Valve Series

Standard materials are demonstrated in the Ordering Codes Summary for each series. Based on the service pressure and design intent of a particular valve model, DMIC supplies valves made from a wide variety of materials.

Buna-N elastomer seals are standard on most DMIC Ball Valves except valves intended for weld application, which utilize Viton™.

BVAL - **1000** **SM** - **4** **3** **2** **1**

Body Material _____
 Ball & Spindle Material _____
 Ball Seal Materials _____
 O-Ring & Back-up Seal Materials _____

Symbol Legend

- ☑Standard feature for this series
- ☞Rapid Delivery Option
- ☎Please call to confirm lead time
- ☒Not Available

Material Description		Availability By Product Series											
		Low Pressure				High Pressure							
Description	Code	BVAL	BV3L BV3LZ	BVH BVAH	BVHS	BVHH BVHHH	BVQ BVQG	BV3D BV3DZ	BV3H BV4H	BVMM	BVDM BVDMF BVSS	BVFF DBBV BVFD	SV2C SV3C
Body Material – Position 1													
Carbon Steel	1	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
Stainless Steel 316	2	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
Aluminum 6061-T6	4	☑	☑	☎	☎	☎	☎	☎	☎	☑	☎	☎	☎
Monel 400	7	☑	☑	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎
Ball and Spindle Material – Position 2													
Carbon Steel	1	☎	☎	☑	☒	☑	☑	☑	☑	☑	☑	☑	☑
Stainless Steel 316	2	☎	☎	☑	☑	☑	☑	☑		☑	☑	☞	☑
Brass or Bronze	3	☑	☑	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎
Aluminum 6061-T6	4	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎
Stainless Steel 416*	6	☎	☎	☑	☑	☞	☞	☑	☑	☑	☑	☞	☞
Monel 400	7	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎
*Position 2, option 6 specifies 316 SS ball, 416 Spindle													
Thermoplastic Ball Seal Material – Position 3													
Delrin™	1	☞	☞	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
PTFE Teflon™ (1500 PSI max)**	2	☑	☑	☞	☞	☒	☞	☞	☞	☞	☞	☞	☞
PEEK High Temp	4	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
Delrin™ AF	6	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
Glass Reinforced Teflon™ (2000 PSI max)	7	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎
Aluminum Bronze	8	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎	☎

****Note:** Consult Factory for max pressure rating by application.



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Material Description		Availability By Product Series											
		Low Pressure				High Pressure							
Description	Code	BVAL	BV3L BV3LZ	BVH BVAH	BVHS	BVHH BVHHH	BVQ BVQG	BV3D BV3DZ	BV3H BV4H	BVMM	BVDM BVDMF BVSS	BVFF DBBV BVFD	SV2C SV3C
Hostile Media	9												
Carbon Reinforced PEEK	C												
PCTFE (KEL-F)	K												
Nylon	N												
Glass Reinforced PEEK	P												
Steel (4340)	S												
Vespel SP-21	V												
Elastomer O-Ring Seal Material – Position 4													
Buna-N	1	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
EPR	2												
Viton™	3						☒					☒	
Teflon™	4												
Chemraz™	5												
Kalrez	6												

Sealing Materials Technical Data

Order Code	DMIC Description	Temperature Range		Seal Compound Identification	Acronym	Classification Synthesis	Trade Names	Chemical Resistance Examples	
		°F	°C					Suitable	Not Suitable
Ball Seal Materials (Digit 3)									
1	Delrin™	-40°F to 180°F	-40°C to 82°C	Delrin™ Polyoxymethylene	DM POM	Thermoplastic Saturated heteropolymer of heterogeneous polymer chains	Delrin™	Hydraulic Fluids Water Inert Gases Air Alcohols Glycols Petroleum based fluids	High molar acids & alkalis Fluorines Liquids for human consumption
2	PTFE Teflon™	-300°F to 450°F	-184°C to 232°C	Polytetra fluoroethylene	PTFE	Thermoplastic Homogeneous, pure polymer chains, containing fluorine	Teflon™ Hostaflon Fluon	Foodstuffs Acids & Alkalis Organic & Inorganic Solvents	Fluorines Liquid alkali metals
4	PEEK Hi-Temp	-60°F to 480°F	-60°C to 248°C	Polyether-ether-ketone	PEEK	Thermoplastic Aromatic Linear Polymer	Victrex	Most fluids acceptable with Delrin™ Moly Radioactive use	High molar acids & alkalis
6	Delrin™ AF Low Friction	-40°F to 180°F	-40°C to 82°C	Proprietary	PAI	Thermoplastic Combination of Teflon™ fibers uniformly dispersed in Delrin™ acetal resin.	Delrin™ AF	Hydraulic fluids Many acids Alcohols & organic solvents	Hot water Steam, Strong alkalis
9	Ferrous Special Applications	Call DMIC						Call DMIC	
O-Ring & Backup Seal Materials (Digit 4)									
1	Buna-N	-40°F to 200°F	-40°C to 93°C	Nitrile Butadiene rubber	NBR	Elastomer Unsaturated heteropolymer of heterogeneous polymer chains	Nitrile Perbunan Chemigum Elaprim Krynac	Petroleum based fluids Water Air Water-glycol	Phosphate esters
2	EPR	-70°F to 302°F	-57°C to 150°C	Ethylene-propylene-diene rubber	EPR EPDM	Elastomer Saturated heteropolymer utilizing double valence bands outside the primary chain	Buna AP Dutral Epcar Keltran Nordel	Phosphate esters Brake Fluid Acids & Alkalis	Petroleum based oil & grease Chlorinated hydrocarbons
3	Viton™	-15°F to 400°F	-26°C to 204°C	Flurocarbon	FKM	Elastomer Multiple monomers & fluorine compounded into saturated heteropolymer	Viton™ Fluorel Technoflon	NBR compatible fluids Acids & alkalis	Phosphate esters
4	Teflon™ PTFE	-300°F to 450°F	-184°C to 232°C	Polytetrafluoroethylene	PTFE	Thermoplast Homogeneous, pure polymer chains, containing fluorine.	Teflon™ Hostaflon Fluon	Foodstuffs Organic & Inorganic Solvents	Fluorines Liquid alkali metals
5	Chemraz™ 510	-22°F to 446°F	-30°C to 230°C	Proprietary	FFKM	Perfluorolastomer Polymers of three or more monomers in which all hydrogen positions have been replaced with flourine	Chemraz™	Acids Caustics Aldehydes Esters Aromatics Methanol	Fluorinated Refrigerants Perfluorinated Lubricants



ACCESSORY CODES

Virtually any imaginable DMIC valve, complete with options, can be specified, Factory-built, and then later re-ordered exactly the same ... with DMIC Accessory Codes

DMIC Pre-Engineered Ball Valve Accessories feature interchangeability as a hallmark of their design. The DMIC Factory furnishes valves and accessories for your most demanding applications.

DMIC products save you time and money when anything more than a cookie-cutter offshore valve with limited/zero factory support, is needed.

By adding the additional "bank" of Accessory Codes, as demonstrated on the next page, you can now directly specify the complete array of DMIC Options as components of your Factory-built valve.

Please see the worksheet on the next page for a comprehensive listing of options.

DMIC SPECIAL ASSEMBLY NUMBERS

Completely custom valves receive a DMIC "SAN" number
Valves that are completely special, or cannot be defined with Construction & Accessory codes, receive a DMIC Engineering "SAN" (Special Assembly Number).

BVAL-12345

When you accept DMIC's quotation and order the product, a "SAN" (Special Assembly Number) is assigned for each optioned valve. This part number is used to flow your order through production and precisely document it for eventual service parts.

Symbol Legend

- ☑ Standard feature for this series
- ☺ Rapid Delivery Option
- ☎ Please call to confirm lead time
- ☒ Not Available

Option Description		Availability By Valve Series					
		Low Pressure			High Pressure		
Description of Accessory to be Factory Installed	OLD "Slash Code"	BVAL BV3L	BVH BV3D	BVAH	BVHH	BV3H BV4H	BVMM
Locking and Security Locking Handle Kits (Lock not Included)							
Locking Handle Kit	/LH	☺	☺	☺	☺	☺	☺
Security Locking Handle Kit	/LHS	☺	☺	☺	☺	☺	☺
Limit Switch Bracket, Single and Multiway							
Limit Switch Bracket, 1-Way	/LSB1	☺	☺	☺	☺	☺	☺
Limit Switch Bracket, 2-Way	/LSB2	☺	☺	☺	☺	☺	☺
Limit Switch Bracket, 3-Way	/LSB3	☒/☺	☒/☺	☒	☒	☺	☎
Locking Limit Switch Brkt, 1-Way	/LLB1	☺	☺	☺	☺	☺	☺
Locking Limit Switch Brkt, 2-Way	/LLB2	☺	☺	☺	☺	☺	☺
Locking Limit Switch Brkt, 3-Way	/LLB3	☒/☺	☒/☺	☒	☒	☺	☎
Include Switch(es) when ordering DMIC LSB/LLB Brackets	add/S to end	☺	☺	☺	☺	☺	☺
Ball Valve Handle Overrides/Options – Replaces Standard Handle							
Forged Steel Handle	/HS	☺	☑	☑	☑	☒	☑
Flat Fabricated Steel Handle	/HA	☺	☺	☺	☺	☒	☺
Flat Anodized Aluminum Handle	/HL	☺	☺	☺	☺	☒	☺
Offset Anodized Aluminum Handle	/HK	☑	☺	☺	☺	☒	☑
T-Type High Torque Handle	/HT	☺	☺	☺	☺	☑	☺
Delete Handle (i.e. "NO" handle)	/HN	☺	☺	☺	☺	☺	☺
Handle Link Kit (specifies TWO valves connected by one handle)	/HLK	☎	☎	☎	☎	☎	☎
Valve Preparation Options – Requires DMIC Accessory Kit Order Distributor/OEM placing order may specify valves with factory preparation subject to DMIC's "special order" Sales Terms – please contact your Sales Associate for details.							
Equip for Actuator Mount	/AM	☺	☺	☺	☺	☺	☺
Equip for Bottom Mounting	/BM	☺	☺	☺	☎	☎	☒
Bottom & Side Mount	/BSM	☺	☺	☎	☎	☎	☒
Locking Handle Mount	/LHM	☒	☒	☒	☒	☺	☒
Equip for 1-Way Limit Switch Mt	/LM1	☺	☺	☺	☺	☺	☺
Equip for 2-Way Limit Switch Mt	/LM2	☺	☺	☺	☺	☺	☺
Equip for Panel Mounting (Top)	/PM	☺	☺	☺	☺	☺	☺
Equip for Side Mounting	/SBM	☺	☺	☎	☎	☎	☒
Equip for Security Lock Mount	/SLM	☺	☺	☺	☺	☺	☺
Factory Installed Actuator - DMIC Application Guaranteed							
Factory Pneumatic DA Actuator	/DA*	☺	☺	☺	☺	☺	☺
Factory Pneumatic SR Actuator	/SR**	☺	☺	☺	☺	☺	☺
Factory Hydraulic DA Actuator	/DA*H	☎	☎	☎	☎	☎	☎
Factory Hydraulic SR Actuator	/SR**H	☎	☎	☎	☎	☎	☎
Factory Electric DA Actuator	/E**	☎	☎	☎	☎	☎	☎



ACCESSORY CODES, CONT.

BVAL - 0750 S - 4 3 2 1 A Z Z A Z Z

← Group 5 & 6 codes only required when an option is selected

Group I Accessories Locking Handles & Limit Switches

Description	Accessory Code	OLD "Slash Codes"
Zero Accessory ("none")	Z	
Locking Handle	A	/LH
Security Locking Handle	B	/LHS
Limit Switch Brckt - Single	C	/LSB1
Limit Switch Brckt - Dual	D	/LSB2
Locking Limit Switch Brckt - Single	E	/LLB1
Locking Limit Switch Brckt - Dual	F	/LLB2
Security Locking Limit Switch Brckt - Single	G	/SLB1
Security Locking Limit Switch Brckt - Dual	H	/SLB2
Limit Switch Brckt - Single, with Switch	I	/LSB1 /S
Limit Switch Brckt - Dual, with Switches	J	/LSB2 /S
Locking Limit Switch Brckt - Single, w/Switch	K	/LLB1 /S
Locking Limit Switch Brckt - Dual, w/Switch	L	/LLB2 /S
Security Locking L.S. Brckt - Single, w/Switch	M	/SLB1 /S
Security Locking L.S. Brckt - Dual, w/Switch	N	/SLB2 /S
Locking Handle/300 Series Locking Handle	P	/LH /SS
Locking Handle, stop pin & top cap/S.S-316	Q	/LHPC /SS
Explosion Proof Limit Switch	R	/EPLS
Locking Explosion Proof Limit Switch Bracket - Single with switch, Normally open	S	/LEPLS
45 Degree Locking Handle; Locks in all 3 Positions	T	/LHT2
Lock Handle to turn clockwise; Lock bracket on opposite side	W	/RLH

Group II Accessories Mounting Patterns & Accessory Preparation

Description	Accessory Code	OLD "Slash Codes"
Zero Accessory ("none")	Z	
Actuator Bracket Mounting Holes	A	/AM
Bottom Mounting Holes	B	/BM
Bottom & Side Combination Mounting Holes	C	/BSM
Locking Handle Mount	D	/LHM
Single Limit Switch Bracket Mounting Holes	E	/LM1
Dual Limit Switch Bracket Mounting Holes	F	/LM2
Panel Mounting Holes	G	/PM
Side Mounting Holes / Side Mt. Brkt. Holes	H	/SBM
Security Lock Mount	I	/SLM
Security Lock and Single L.S. Brkt Mtg Holes	J	/SLM /LM1
Security Lock and Dual L.S. Brkt Mtg Holes	K	/SLM /LM2
Actuator Bracket Mounting Holes with Locking Handle Mount	L	/AM /LHM
Pressure Balance	P	/P
Locking Pressure Balance	Q	/PL
Explosion Proof Limit Switch Mount	R	/EPM
ROV Mount as per API 17D	V	/RVM

Group IV Accessories Handle Type

Description	Accessory Code	OLD "Slash Codes"
Zero Accessory ("No handle")	Z	
Handle, Crank, Steel	A	/HS
Handle, Flat, Steel	B	/HA
Handle, Flat Offset, Steel	C	/HA45
Handle, High Torque, Steel	D	/HT
Handle, Crank, Steel, Extended	E	/HSE
Butterfly Handle	F	/BF
Butterfly Handle / T-Handle, SS Top Works 316	G	/HSS
OBSELETE USE "S" 316 Stainless Steel Top Works, Flat Offset (Flat Handle Offset, Pin, Washer, Cap)	H	/HAS
304 Crank Handle	K	-
316 Stainless Steel Top Works (Crank Handle, Pin, Washer, & Cap)	L	/HSS
300 Series Stainless Steel Top Works (Flat Handle, Pin, Washer, & Cap)	M	/HAS
Handle, Crank, Aluminum	N	/HK
Handle, Flat, Aluminum	O	/HL
No Aluminum Top Works(Handle, Cap)	P	/NAT
Handle, Medium Torque	Q	/MT
Handle, Crank, 316 Stainless Steel	R	/HSS
Handle, Flat, Stainless Steel(316)	S	/HAS
Handle, Flat, Offset, Stainless Steel(316)	T	/HAS45
300/400 Series Stainless Steel High Torque Handle	U	/HTS
Handle, Medium Torque, Stainless Steel(316)	V	/MTS
316 Stainless Steel Top Works (High Torque, Pin, Washer, Cap)	W	/HTS
300/400 Series Stainless Steel Medium Torque Handle	X	/MTS
Snap Ring on Spindle, No Handle	Y	/SR
1" Extended High Torque Handle	1	/HTE1
1½" Extended High Torque Handle	2	/HTE2
2" Extended High Torque Handle	3	/HTE3
Handle, Spring Return, High Torque	9	/HTSR

Group V Accessories Mounting Brackets

Description	Accessory Code	OLD "Slash Codes"
Zero Accessory ("none")	Z	
Bottom Bracket	A	/BB
Side Bracket	B	/SB
Changes any single limit switch to Normally Closed	C	/NC
Movable Stop	D	/MS
Grease Bracket	E	/GB
Proximity Switch Mounts - Call DMIC Sales!	H-W	

Group III Accessories Complete Actuation Packages, Pneumatic, Double Acting & Spring Return

Description (Type of Actuator)	Accessory Code	OLD "Slash Codes"	Description (Actuator Size)	Accessory Code
Note: If an Actuator is called out, the 3rd digit in the accessory code is used to call out "Type". The 4th digit will now be overridden with "Size"				
Zero Accessory ("none")	Z		Size "A"	A
Double Acting	1	/DA*	Size "B"	B
Spring Return (4 Spring)	2	/SR*4	Size "C"	C
Single Phase Electric (AC)	3	/EA*	Size "D"	D
Electric (DC)	4	/ED*	Size "E"	E
Double Acting Hydraulic Conversion	5	/DA*H3	Size "F"	F
Spring Return (4 Spring) Hydraulic Conversion	6	/SR*H4	Size "G"	G
DMIC Hydraulic Actuator (Not all sizes available)	7	/AC-HA*	Size "H"	H
			For any larger size Actuator, Call DMIC Sales!	I-L

Group VI Accessories Valve Surface Finish

Description	Accessory Code	OLD "Slash Codes"
Zero Accessory ("standard finish")	Z	
NACE MR0175 Compliant	A	
Clear Anodize - override Standard	B	/AN
Black Zinc Plated - override Standard	C	/BZ
Yellow Zinc Dichromate Plated - override Std	D	/YZP
Electroless Nickel - override Standard	E	/EP
Black Anodize - override Standard	F	/BAN
Gas Application	G	/GAS
DFAR	H	/DFAR
Clear Zinc	I	/CZ
Hard Coat Anodize	J	/HCA
Chromium-6 Free Zinc	K	/C6F
Bleed Hole or Drain Ports - Call DMIC Sales!	N-V	



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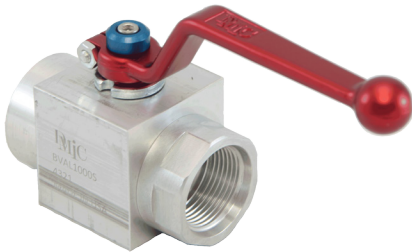
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ISO 9001 CERTIFIED

BVAL LOW PRESSURE

Ideal from suction to 600 PSI; NPT/SAE/6149/BSP ; PTFE Ball Seals
Optimized for DMIC's "SSW" System - All sizes unrestricted bore.

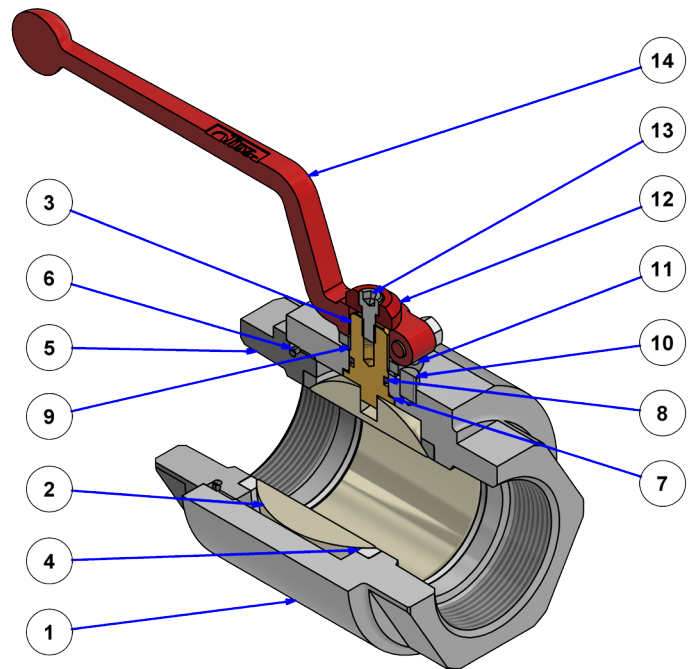


Most large bore valves sold in the hydraulic market today are simply "plumbing" valves, suitable primarily for low pressure, cold water use. DMIC's 'BVAL' is the first ball valve of its kind, specifically designed for leak-free Hydraulic Suction, Vacuum to 29" & Return line durability to 6" full bore.

- 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 and 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)
- ¼" to 2" rated at 600 PSI, 2½" + rated at 400 PSI.
- Valve series rating valid for near zero leak design.

Valve Cutaway View & Service Parts BOM

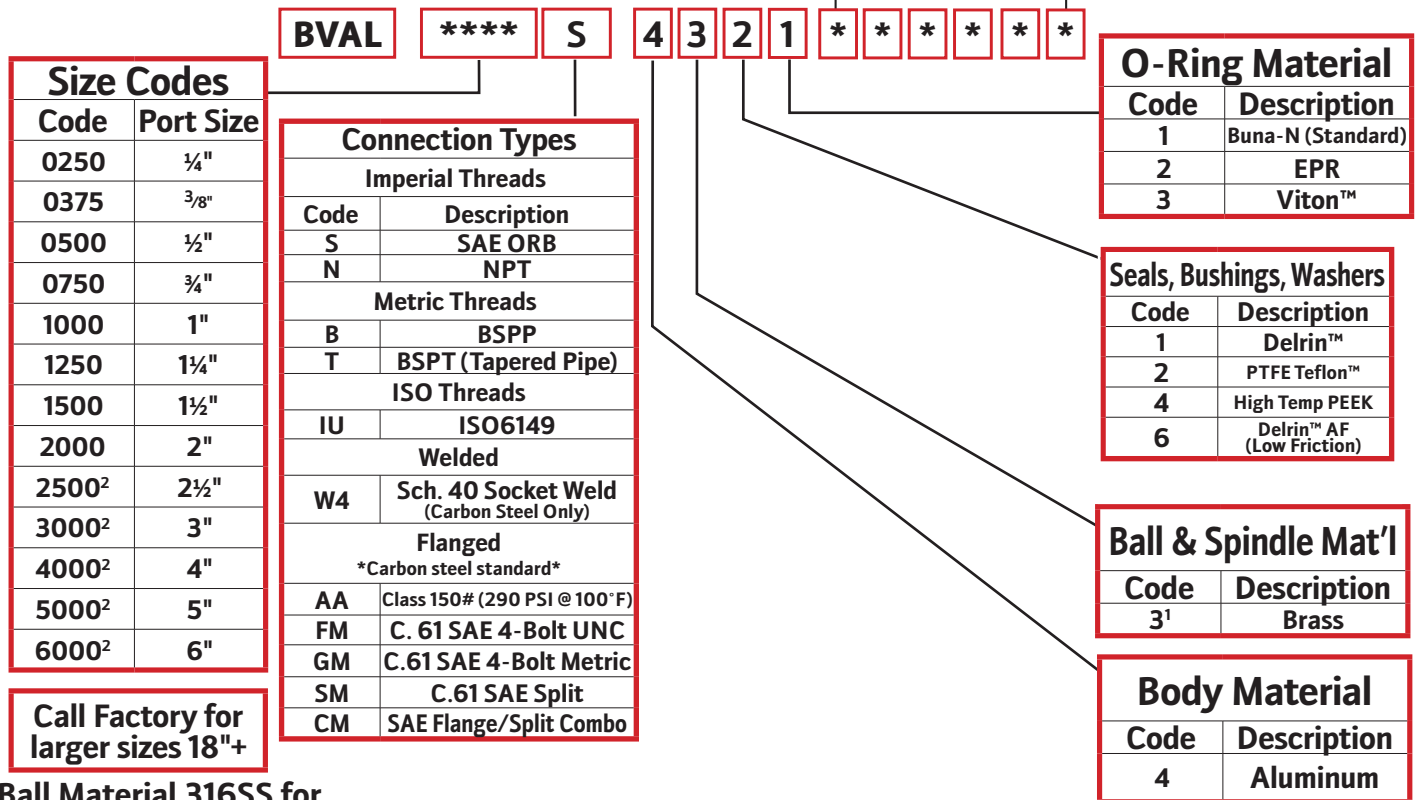
BVAL	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	1	End Connection
6	1	End Connection O-Rings
7	1	Internal Thrust Washer
8	1	Spindle O-Rings
9	1	External Glide Washer
10	1	Stop Pin
11	1	Stop Washer
12	1	Color Code Cap
13	1	Handle Screw
14	1	Handle



BVAL LOW PRESSURE

Ordering Codes Summary

See page 14 for accessory codes



¹ Ball Material 316SS for ¼" - 2"

² rated to 400 PSI

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

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CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



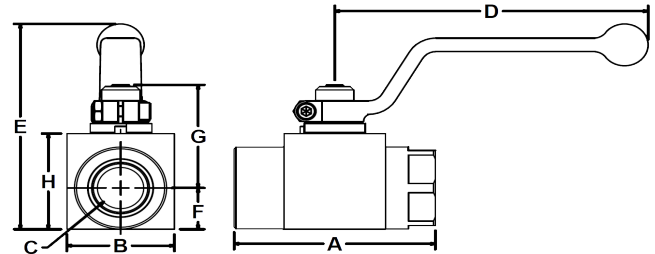
ISO 9001 CERTIFIED

BVAL Low Pressure

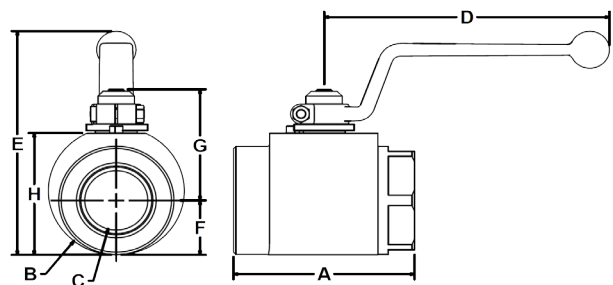
BVAL valves with flange and socket weld connections are composite valves, built using threaded valves and "SSW" adapters. To harness the full capabilities of DMIC's "SSW" Power Unit Layout system please call DMIC Helpline at 1-800-248-3642 to obtain the SSW Catalog.

BVAL		Dependent Dimensions				
Threaded Connections						
Dimension (inches)		A	E	F	G	H
Port Code(s)	Port Size	Overall Length	Overall Height	Bot to Port Ctr	Port Ctr to Top	Valve Height
N S B IU IA Threaded Connections	3/4" ¹	2.63	2.70	0.63	1.66	1.50
	3/8" ²	2.63	2.70	0.63	1.66	1.50
	1/2" ³	2.63	2.70	0.63	1.66	1.50
	3/4" ⁴	3.27	3.76	0.76	1.89	1.75
	1" ⁵	3.47	4.01	0.88	2.01	2.00
	1 1/4" ⁶	3.90	5.24	1.19	2.58	2.66
	1 1/2" ⁷	4.32	5.68	1.39	2.82	3.10
	2" ⁸	4.90	6.41	1.82	3.12	3.83
	2 1/2" ⁹	5.99	8.07	2.55	4.18	5.40
	3" ¹⁰	7.31	9.01	3.03	4.65	6.34
	4" ¹¹	8.89	10.03	3.50	5.19	7.36
SAE 4-Bolt Flange Connection						
Dimension (inches)		A	A	—	—	—
Port Code(s)	Port Size	Overall Length FM/GM	Overall Length FL	Flg Pad Long	Flg Pad Short	UNC Bolt Thrd
FM GM FL SAE 4-Bolt Comp/Std Flg Conn	3/4" ¹	7.59	8.84	1.88	0.88	3/8"
	1" ²	7.80	9.04	2.06	1.03	3/8"
	1 1/4" ³	8.47	9.72	2.31	1.19	7/8"
	1 1/2" ⁴	8.89	9.89	2.75	1.41	1/2"
	2" ⁵	9.47	11.22	3.06	1.69	1/2"
	2 1/2" ⁶	10.93	12.67	3.50	2.00	1/2"
	3" ⁷	12.64	15.14	4.19	2.44	3/8"
	4" ⁸	14.22	16.72	5.13	3.06	3/8"
SAE Split Flange Connection						
Dimension (inches)		A	—	—	—	A _{CM}
Port Code(s)	Port Size	Overall Length SM	O-Ring No.	DMIC Split Flange Kit	Length A (Combo) CM	
SM CM SAE Split & Combo Flange Connections	3/4" ¹	8.14	2-214	FSL-0750SK	7.87	
	1" ²	8.26	2-219	FSL-1000SK	8.03	
	1 1/4" ³	9.33	2-222	FSL-1250SK	8.90	
	1 1/2" ⁴	9.77	2-225	FSL-1500SK	9.33	
	2" ⁵	10.85	2-228	FSL-2000SK	10.16	
	2 1/2" ⁶	12.36	2-232	FSL-2500SK	11.65	
	3" ⁷	13.68	2-237	FSL-3000SK	13.16	
	4" ⁸	15.77	2-245	FSL-4000SK	15.00	
ANSI Flange Conn.						
Dimension (inches)		A	ANSI 150# FLANGE			
Port Code(s)	Port Size	Overall Length	Flg Diam	B/Ctr Diam	Bolt/Hole Dia	# Bolt Holes
AA ANSI 150# Flange Connections (290 PSI nominal)	1/2" ¹	5.83	3.50	2.38	0.62	4
	3/4" ²	6.90	3.88	2.75	0.62	4
	1" ³	7.42	4.25	3.12	0.62	4
	1 1/4" ⁴	8.15	4.62	3.50	0.62	4
	1 1/2" ⁵	8.74	5.00	3.88	0.62	4
	2" ⁶	9.56	6.00	4.75	0.75	4
	2 1/2" ⁷	11.01	7.00	5.50	0.75	4
	3" ⁸	12.46	7.50	6.00	0.75	4
	4" ⁹	14.19	9.00	7.50	0.75	8
Fixed Socket Weld Connection						
Dimension (inches)		A	—	—		
Port Code(s)	Port Size	Overall Length	Pipe OD	Socket Depth		
W4 Socket Weld Connections	3/4" ¹	5.84	1.05	0.38		
	1" ²	6.04	1.31	0.38		
	1 1/4" ³	6.72	1.66	0.38		
	1 1/2" ⁴	7.14	1.91	0.38		
	2" ⁵	7.72	2.38	0.38		
	2 1/2" ⁶	8.93	2.88	0.38		
	3" ⁷	10.64	3.50	0.50		
	4" ⁸	12.22	4.50	0.50		

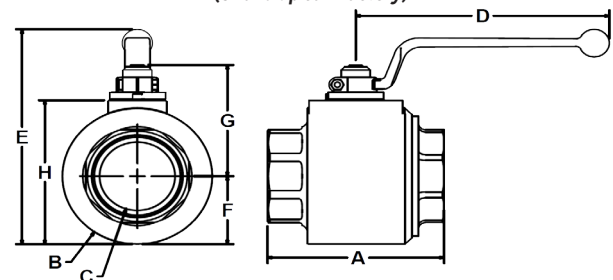
BVAL Block Body, 1/4" - 1"



BVAL Round Body, 1 1/4" - 2"



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

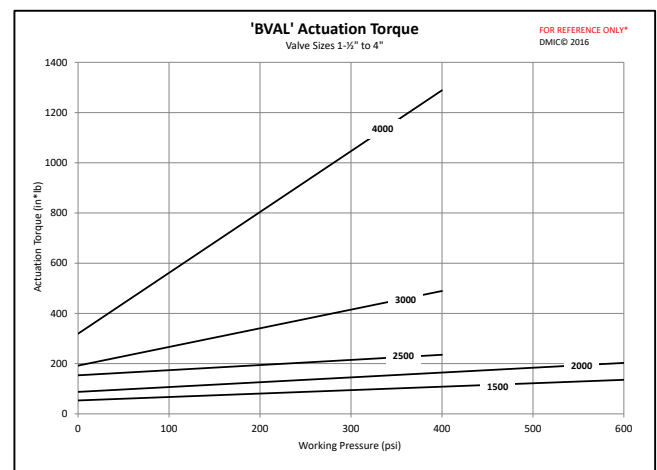
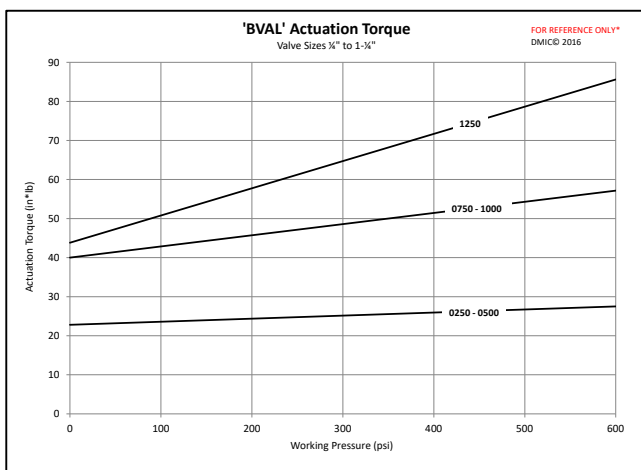
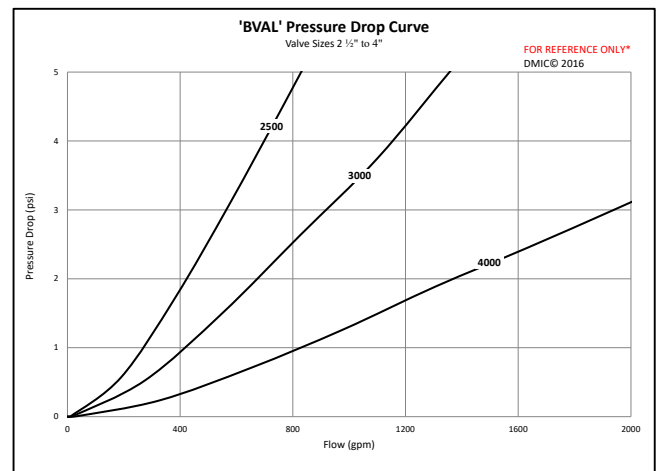
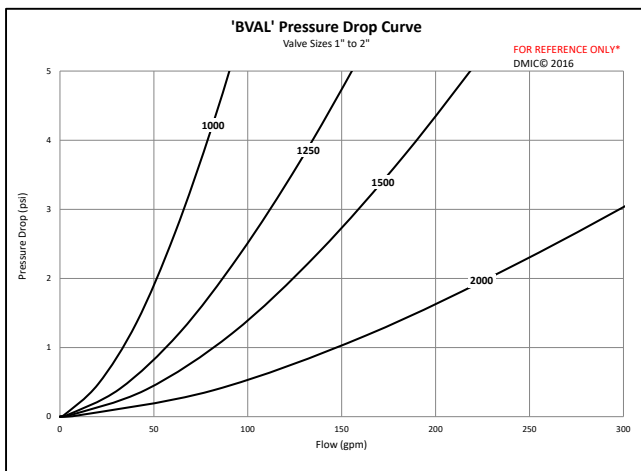
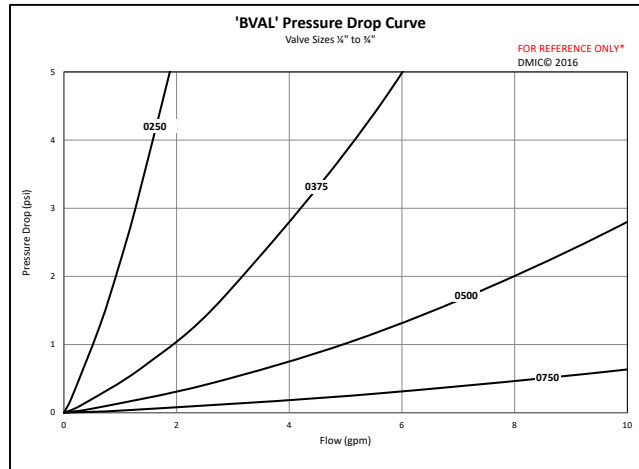


BVAL		Common Dimensions			
Part Number	Port Size	Rated Pressure PSI	Dimensions IN		
			Valve Width B	Valve Bore C	Handle Length D
BVAL-0250****	¼"	600	1.50	0.38	3.35
BVAL-0375****	⅜"	600	1.50	0.47	3.35
BVAL-0500****	½"	600	1.50	0.50	3.35
BVAL-0750****	¾"	600	1.75	0.75	5.09
BVAL-1000****	1"	600	2.00	.97	5.09
BVAL-1250****	1¼"	600	2.75	1.25	6.81
BVAL-1500****	1½"	600	3.25	1.50	6.81
BVAL-2000****	2"	600	4.00	1.97	6.81
BVAL-2500****	2½"	400	5.10	2.56	8.61
BVAL-3000****	3"	400	6.06	3.15	8.61
BVAL-4000****	4"	400	7.00	3.94	8.61



BVAL LOW PRESSURE

Flow Characteristic and Actuation Torque Curves



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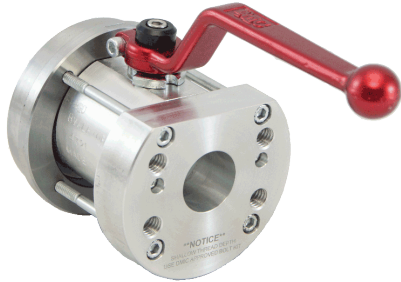
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CALL TOLL FREE 1-800-248-3642
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BVALP LOW PROFILE SUCTION

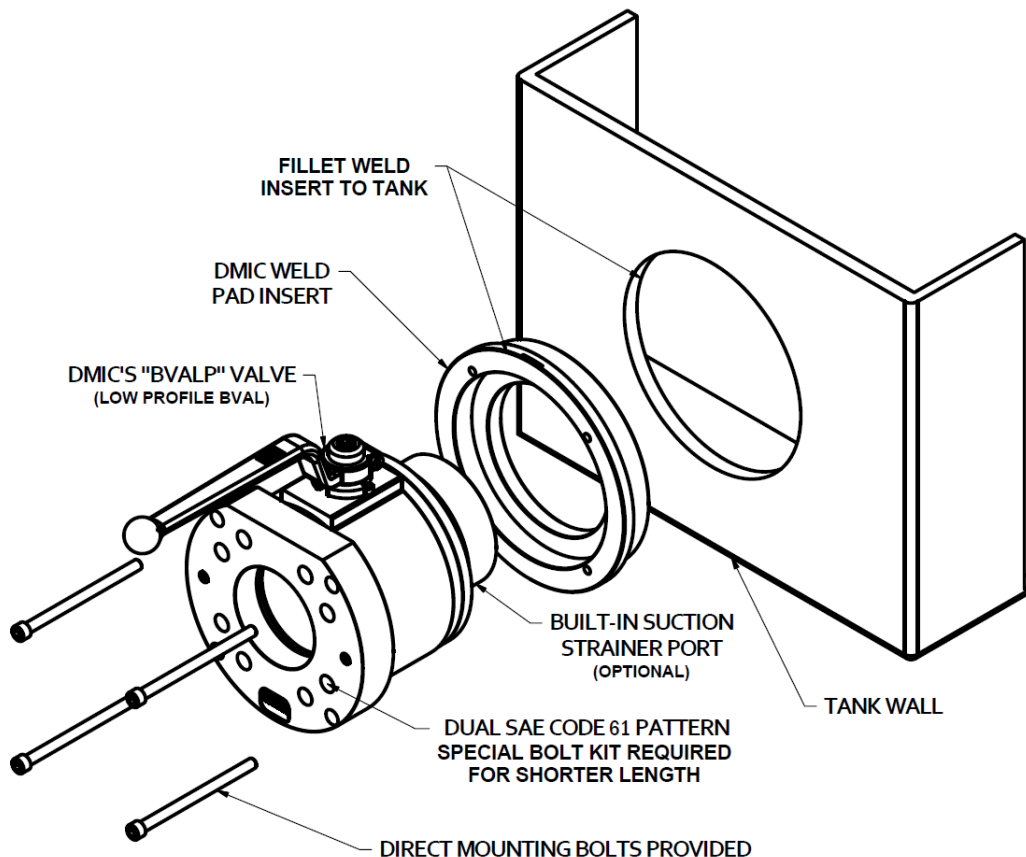
Ideal from suction to atmospheric pressure
Optimized for DMIC's "SSW" System - All sizes unrestricted bore.



Similar to DMIC's BVAL product line, but its smaller profile allows for mounting in tight spaces. Whether you're building a new system with a tight space constraint on a valve or are looking to replace your unreliable gate or butterfly valve, make DMIC's BVALP valve your only choice.

- Bore sizes range from 1"-4", other sizes available upon request
- Tank mounted flange for weldment and removable ball valve provided
- Available directly with suction line filter port
- Capable of handling up to 250 PSI
- SAE C.61 Mounting pattern provided (standard) with additional connection availability
- **Special bolt kit required (Sold Separately)**

Valve Installation Guide

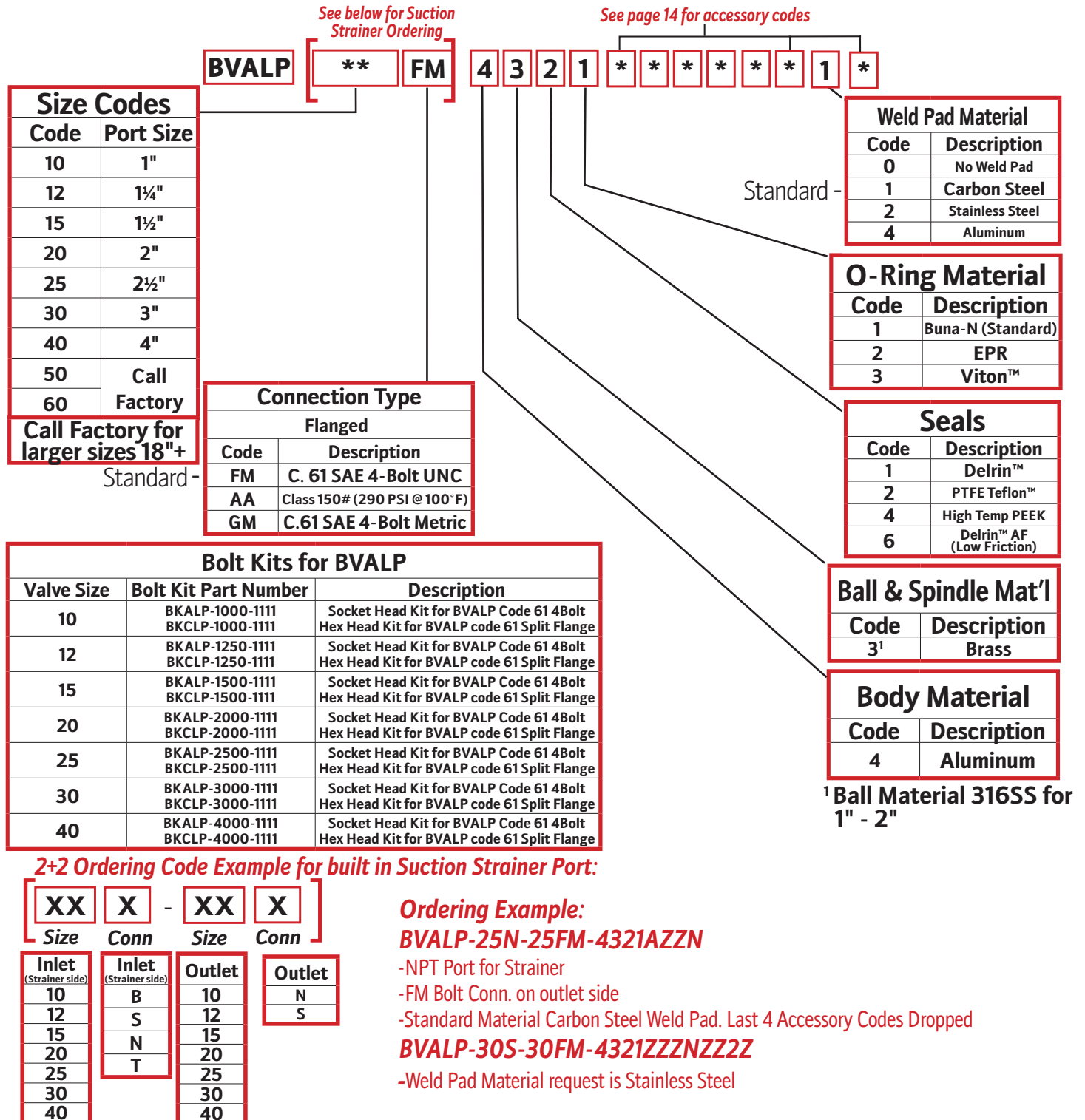


Sizes	
Valve Size	Hole Size
10	3.00"
12	3.75"
15	4.25"
20	5.00"
25	6.00"
30	7.00"
40	8.00"



BVALP LOW PROFILE SUCTION

Ordering Codes Summary



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

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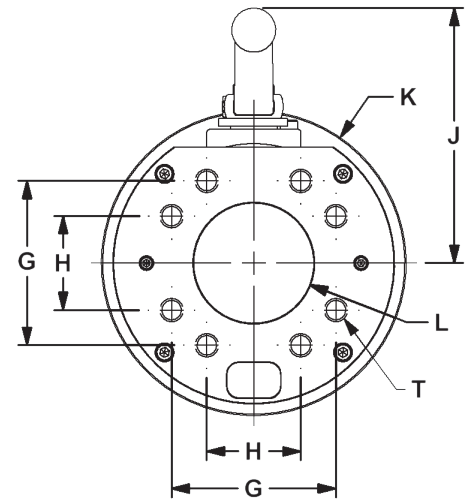
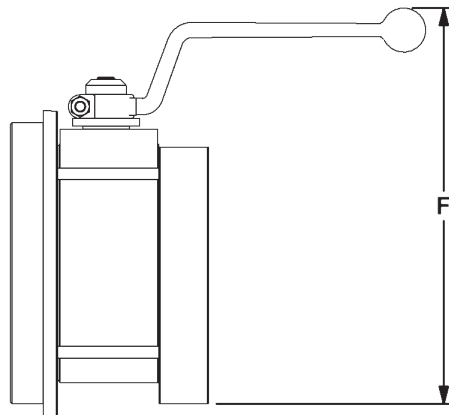
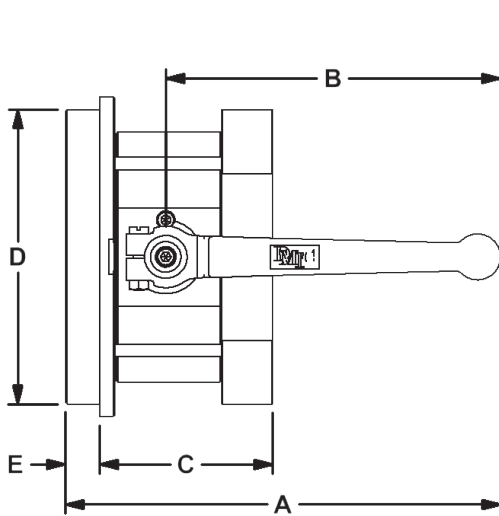
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ISO 9001 CERTIFIED

BVALP Low Profile Suction

BVALP	Port Size	Dimensions											
		A Overall Length	B Handle Length	C Installed Length	D Tank Hole Diameter (+0.06/-0.00)	E Tank Inset	F Overall Height	G SAE C.61 Pattern	H SAE C.61 Pattern	J Cntr to Handle Height	K Weld Pad Diameter	L Thru Bore	T Mounting Thread UNC
BVALP-10	1"	6.78	5.09	2.79	3.00	0.50	4.75	2.06	1.03	3.11	3.25	0.97	3/8
BVALP-12	1¼"	8.72	6.81	3.16	3.75	0.50	6.06	2.31	1.19	4.06	4.00	1.25	7/16
BVALP-15	1½"	8.59	6.81	3.41	4.25	0.50	6.55	2.75	1.41	4.29	4.50	1.50	1/2
BVALP-20	2"	8.65	6.81	3.47	5.00	0.50	7.09	3.06	1.69	4.59	5.50	1.97	1/2
BVALP-25	2½"	8.85	6.81	3.52	6.00	0.69	8.44	3.50	2.00	5.43	6.50	2.56	1/2
BVALP-30	3"	11.14	8.61	4.50	7.00	0.88	9.48	4.19	2.44	5.98	7.50	3.15	5/8
BVALP-40	4"	11.35	8.61	4.50	8.00	1.09	10.53	5.13	3.06	6.53	8.38	3.94	5/8

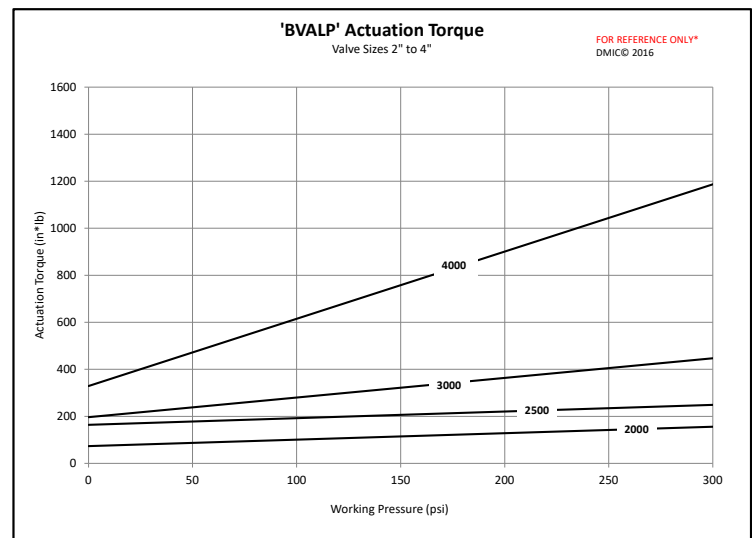
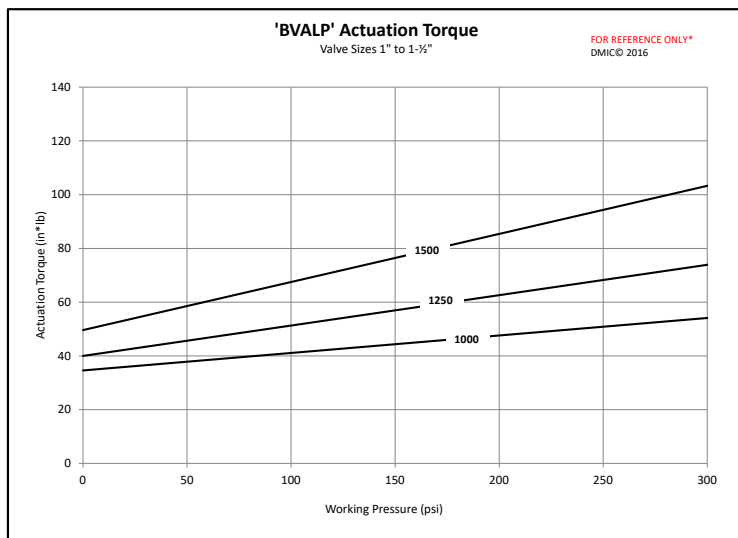
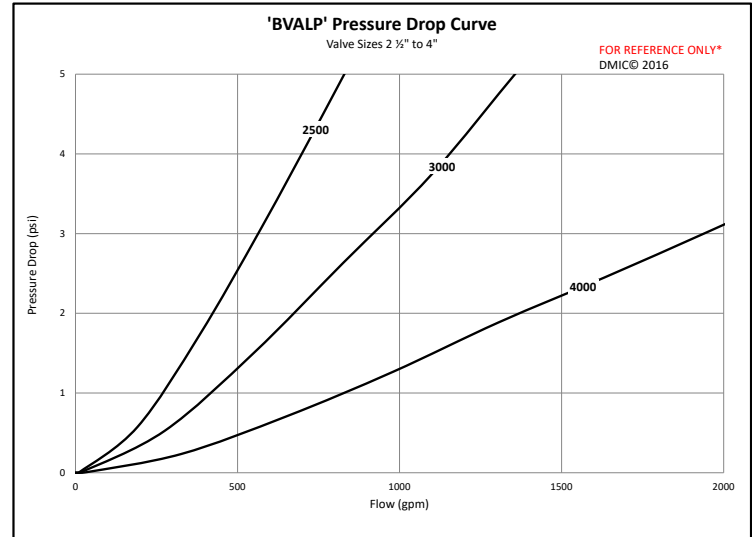
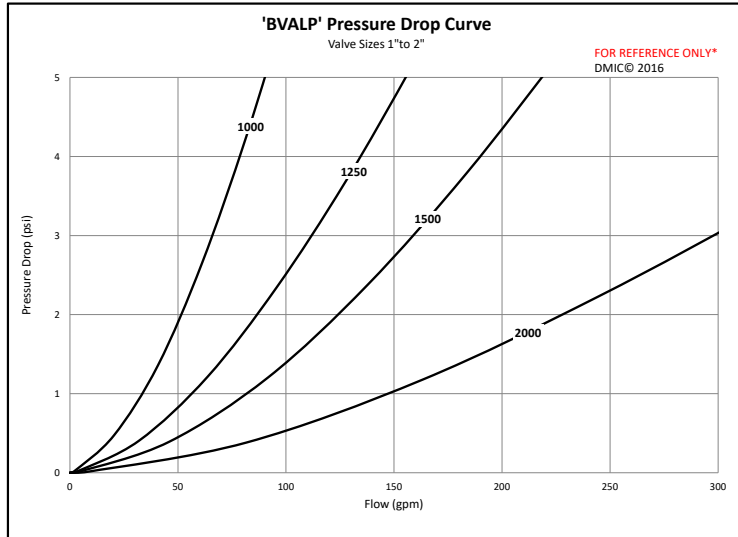


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BVALP LOW PROFILE SUCTION

Flow Characteristic and Actuation Torque Curves



BVLS LOW PRESSURE

1000 PSI MAX; NPT/SAE/BSPP ; PTFE Ball Seals
¼" to 2" size

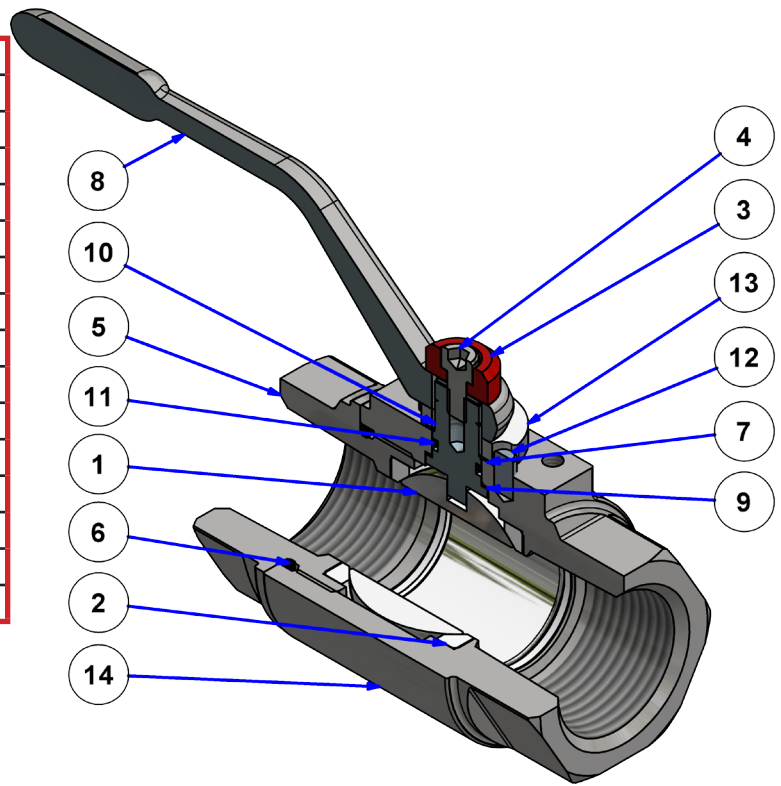


DMIC's BVLS Series provide a cost effective, durable, high quality ball valve solution for 1000 psi systems.

- 1000 psi MAWP for Water, Oil and Gas (WOG).
- Designed for temperature -20 to 400°F [-29 to 204°C].
- All stainless steel construction.
- NACE MR0175 Compliant.
- CRN approval for all Canadian Provinces.
- Low frictions seals for low actuation torque.
- Actuation and Panel mounting provisions available.
- Fire safe versions available.
- Meets API 6D and API 598 pressure tests.

Valve Cutaway View & Service Parts BOM

BVLS	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Ball
2	2	Ball Seal
3	1	Color Code Cap
4	1	Color Code Cap Screw
5	1	End Connection
6	1	End Connection O-Ring
7	1	External Glide Washer
8	1	Handle
9	1	Internal Thrust Washer
10	1	Shaft
11	1	Shaft O-Ring
12	1	Stop Pin
13	1	Stop Washer
14	1	Valve Body



BVLS LOW PRESSURE

Ordering Codes Summary

See page 14 for accessory codes

BVLS ** S 2 2 2 3 * * * * ***

Size Codes	
Code	Port Size
0250	1/4"
0375	3/8"
0500	1/2"
0750	3/4"
1000	1"
1250	1 1/4"
1500	1 1/2"
2000	2"

Connection Types	
Imperial Threads	
Code	Description
S	SAE ORB
N	NPT
Metric Threads	
B	BSPP

Body Material	
Code	Description
2	316 Stainless

Ball & Spindle Mat'l	
Code	Description
2	316 Stainless

Seals, Bushings, Washers	
Code	Description
2	PTFE Teflon™ - 1/4" - 3/4" Standard
7	Glass filled PTFE - 1" - 2" Standard

O-Ring Material	
Code	Description
3	Viton™ (Standard)

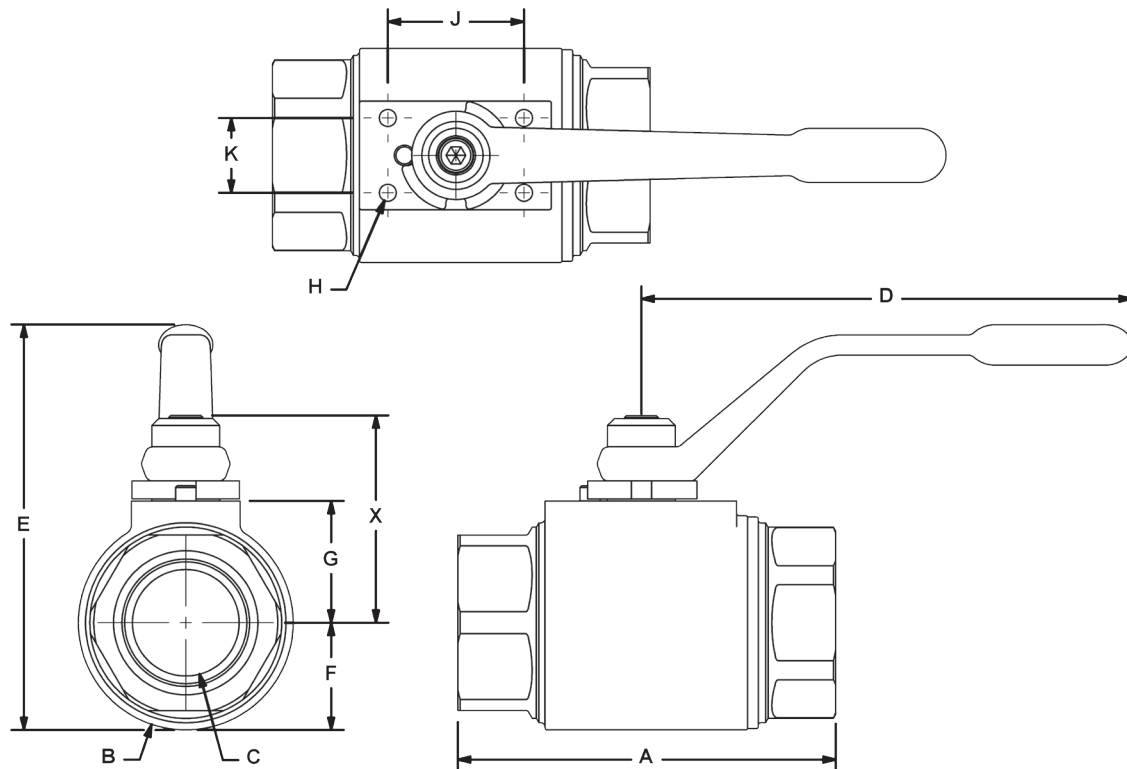
Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.

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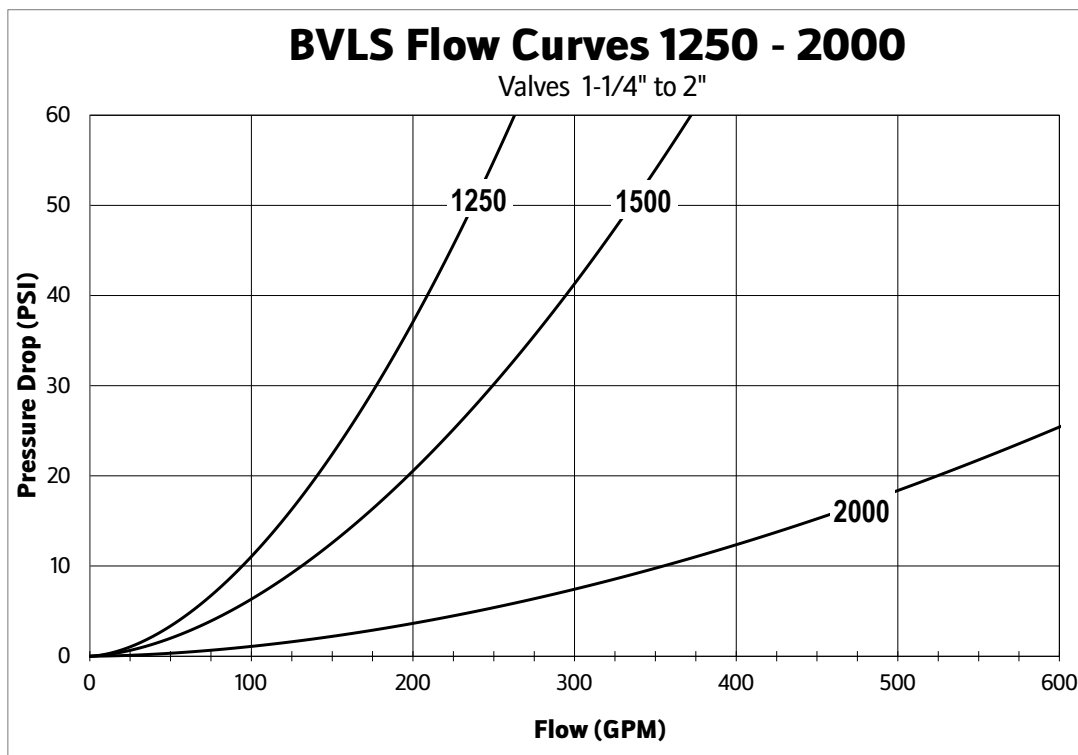
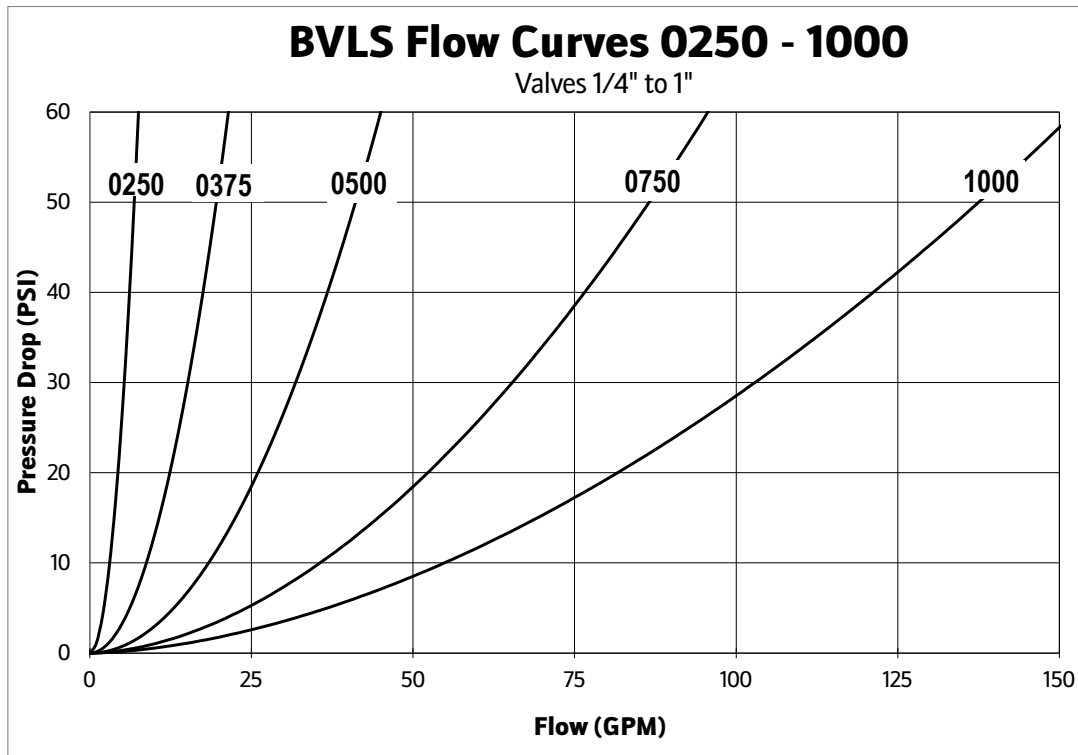
BVLS LOW PRESSURE

BVLS	Port Size	Dimensions										
		A Length	B Valve Body O.D.	C Bore DIA	D Handle Length	E Overall Height	F Center Height	G Center To Top	H MTG Holes	J MTG Hole	K MTG Hole	X Center To Top
BVLS0250	¼"	2.63	1.40	0.43	4.50	3.18	0.70	0.87	#8-32	1.00	.88	1.66
BVLS0375	⅜"	2.63	1.40	0.50	4.50	3.18	0.70	0.87	#8-32	1.00	.88	1.66
BVLS0500	½"	2.63	1.40	0.55	4.50	3.18	0.70	0.87	#8-32	1.00	.88	1.66
BVLS0750	¾"	3.27	1.71	0.75	4.50	3.46	0.86	1.00	#10-32	1.25	.69	1.78
BVLS1000	1"	3.47	1.97	0.98	4.50	3.72	0.99	1.12	#10-32	1.25	.69	1.91
BVLS1250	1¼"	3.90	2.65	1.25	7.00	5.27	1.33	1.47	¼-28	1.75	1.00	2.51
BVLS1500	1½"	4.32	3.23	1.50	7.00	5.80	1.62	1.71	¼-28	1.75	1.00	2.75
BVLS2000	2"	4.90	3.84	1.97	7.00	6.40	1.92	2.01	¼-28	1.75	1.00	3.05



BVLS LOW PRESSURE

Flow Characteristic and Actuation Torque Curves



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BVLS ACTUATED

1000 PSI MAX; NPT/SAE/BSPP ; PTFE Ball Seals
¼" to 2" size

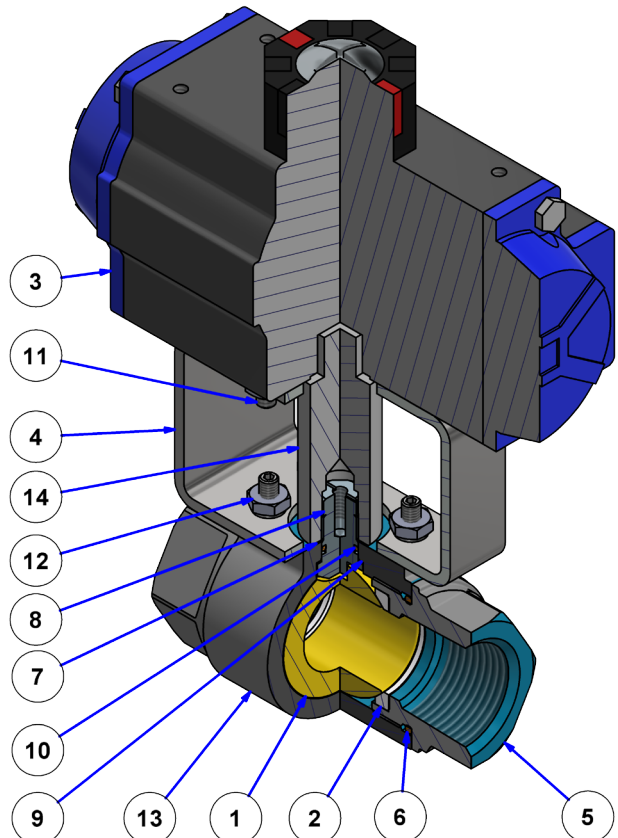


DMIC's BVLS Series provide a cost effective, durable, high quality ball valve solution for 1000 psi systems.

- 1000 psi MAWP for Water, Oil and Gas (WOG).
- Designed for temperature -20 to 400°F [-29 to 204°C].
- All stainless steel construction.
- NACE MR0175 Compliant.
- CRN approval for all Canadian Provinces.
- Low friction seals for low actuation torque.
- Standard actuation and panel mounting provisions provided.
- Fire safe versions available.
- Meets API 6D and API 598 pressure tests.
- Standard Double Acting & Spring Return Actuators.

Valve Cutaway View & Service Parts BOM

BVLS	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Ball
2	2	Ball Seal
3	1	Actuator
4	1	Actuator Bracket
5	1	End Connection
6	1	End Connection O-Ring
7	1	External Glide Washer
8	1	Valve Spindle
9	1	Internal Thrust Washer
10	1	Spindle O-Ring
11	4	Actuator Hardware
12	4	Valve Hardware
13	1	Valve Body
14	1	Actuator Shaft



BVLS ACTUATED

Ordering Codes Summary

BVLS ****** ******** **S** **2** **2** **2** **3**

Actuator Callout	
Code	Description
DA	Double Acting
SR	Spring Return (closed)

Size Codes	
Code	Port Size
0250	¼"
0375	⅜"
0500	½"
0750	¾"
1000	1"
1250	1¼"
1500	1½"
2000	2"

Connection Types	
Imperial Threads	
Code	Description
S	SAE ORB
N	NPT
Metric Threads	
B	BSPP

Body Material	
Code	Description
2	316 Stainless

Ball & Spindle Mat'l	
Code	Description
2	316 Stainless

Seals, Bushings, Washers	
Code	Description
2	PTFE Teflon™ - ¼" - ¾" Standard
7	Glass filled PTFE - 1" - 2" Standard

O-Ring Material	
Code	Description
3	Viton™ (Standard)

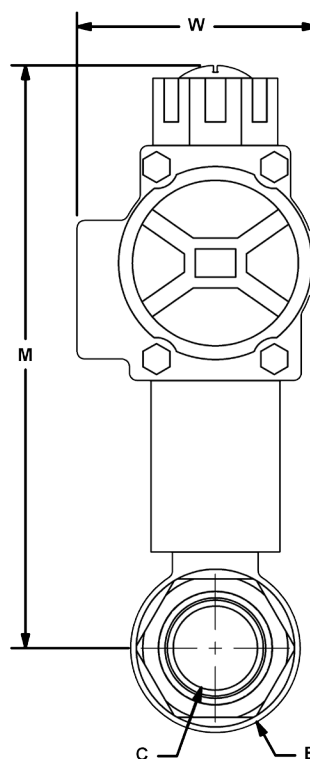
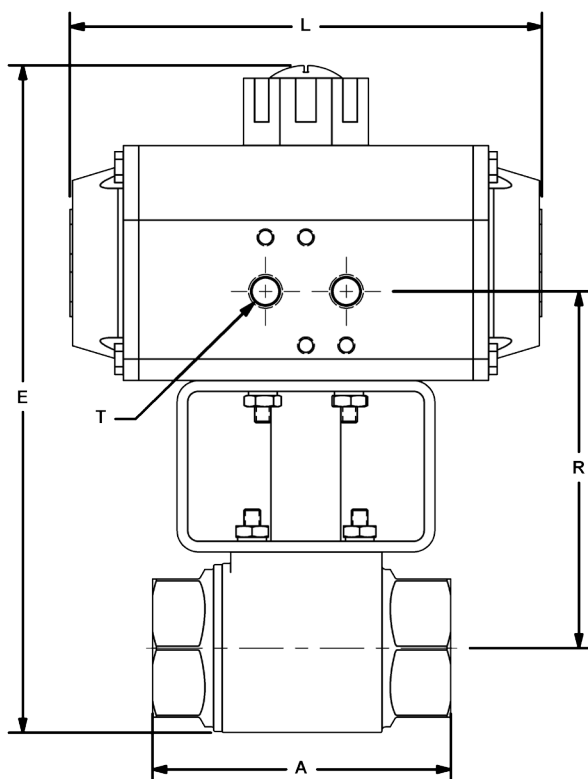
Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.
Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.



BVLS ACTUATED

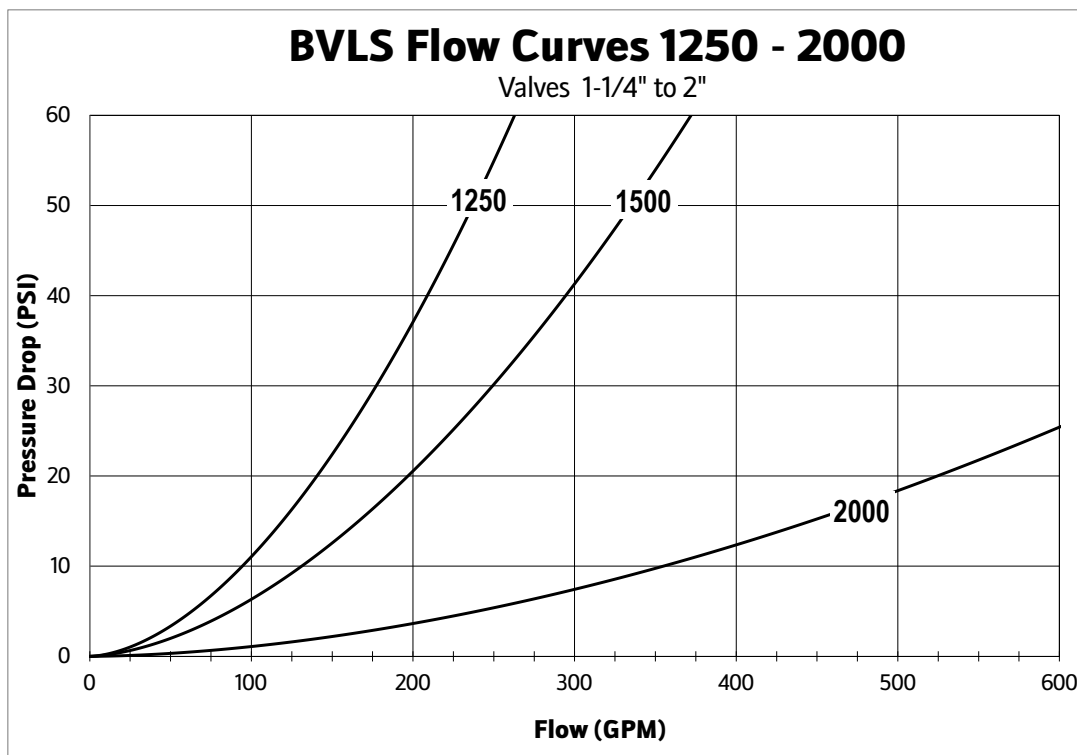
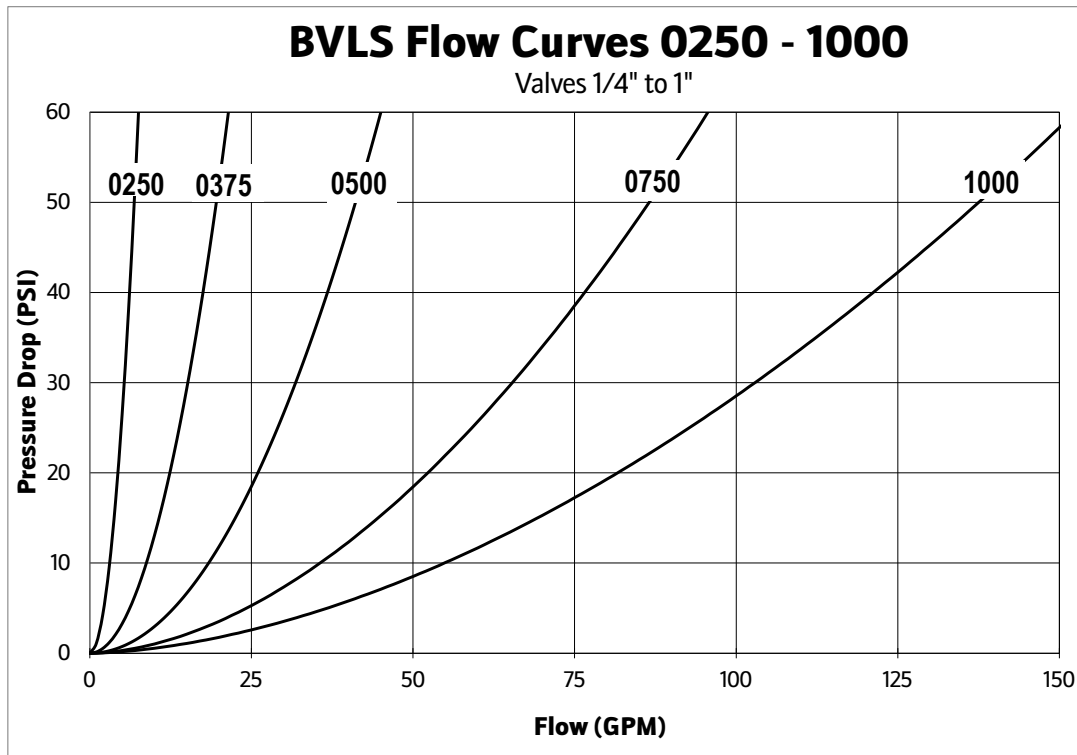
BVLS Double Acting Actuator	Port Size	Dimensions									Max Actuator Torque @ 90 PSI Air in-lbs
		A Length	B Valve Body O.D.	C Bore DIA	E Overall Height	L Actuator Length	M Line Center To Top	R Line Center To Air	T Air	W Actuator Width	
BVLSDA0250	¼"	2.63	1.40	0.43	6.28	4.65	5.58	3.28	⅝" NPT	1.78	82
BVLSDA0375	⅜"	2.63	1.40	0.50	6.28	4.65	5.58	3.28	⅝" NPT	1.78	82
BVLSDA0500	½"	2.63	1.40	0.55	6.28	4.65	5.58	3.28	⅝" NPT	1.78	82
BVLSDA0750	¾"	3.27	1.71	0.75	6.56	4.65	5.70	3.41	⅝" NPT	1.78	82
BVLSDA1000	1"	3.47	1.97	0.98	6.81	4.65	5.83	3.53	⅝" NPT	1.78	82
BVLSDA1250	1¼"	3.90	2.65	1.25	8.90	6.38	7.58	4.56	⅝" NPT	3.17	363
BVLSDA1500	1½"	4.32	3.23	1.50	9.43	6.38	7.82	4.79	⅝" NPT	3.17	363
BVLSDA2000	2"	4.90	3.84	1.97	11.14	9.35	9.21	5.66	⅝" NPT	4.17	962

BVLS Spring Return Actuator	Port Size	Dimensions									Max Actuator Torque @ 90 PSI Air in-lbs
		A Length	B Valve Body O.D.	C Bore DIA	E Overall Height	L Actuator Length	M Line Center To Top	R Line Center To Air	T Air	W Actuator Width	
BVLSSR0250	¼"	2.63	1.40	0.43	7.25	5.49	6.55	3.90	⅝" NPT	2.79	150
BVLSSR0375	⅜"	2.63	1.40	0.50	7.25	5.49	6.55	3.90	⅝" NPT	2.79	150
BVLSSR0500	½"	2.63	1.40	0.55	7.25	5.49	6.55	3.90	⅝" NPT	2.79	150
BVLSSR0750	¾"	3.27	1.71	0.75	7.53	5.49	6.68	4.03	⅝" NPT	2.79	150
BVLSSR1000	1"	3.47	1.97	0.98	7.78	5.49	6.80	4.16	⅝" NPT	2.79	150
BVLSSR1250	1¼"	3.90	2.65	1.25	9.55	6.38	8.23	4.85	⅝" NPT	3.72	473
BVLSSR1500	1½"	4.32	3.23	1.50	10.08	8.15	8.47	5.09	⅝" NPT	3.72	473
BVLSSR2000	2"	4.90	3.84	1.97	11.65	10.69	9.72	5.98	⅝" NPT	4.85	1075



BVLS ACTUATED

Flow Characteristic and Actuation Torque Curves



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.



BVEM MID PRESSURE

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

From 2½" to 4" and UP



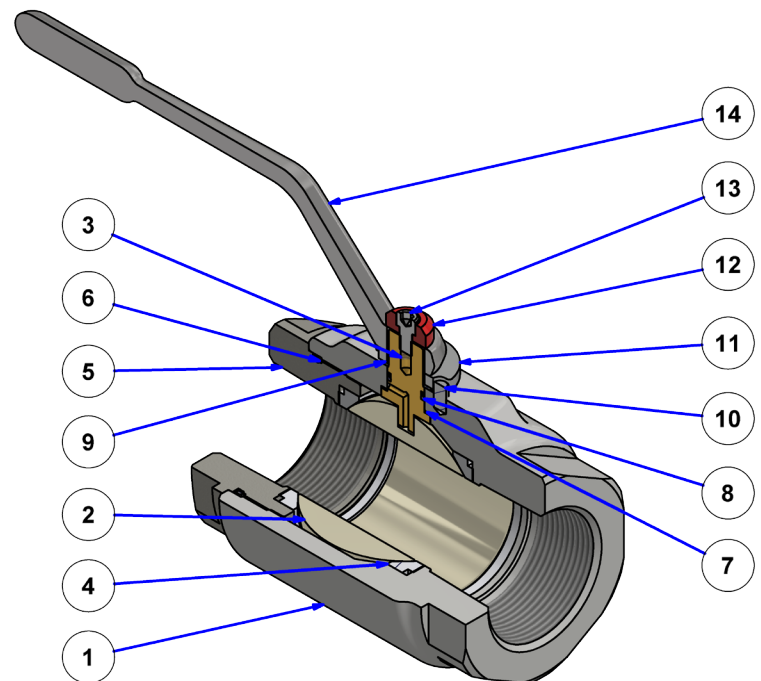
DMIC's **BVEM** series provides a cost effective, durable, high quality ball valve solution for quality 3,000 PSI systems where the budget can't support a 6000 PSI valve.

- 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

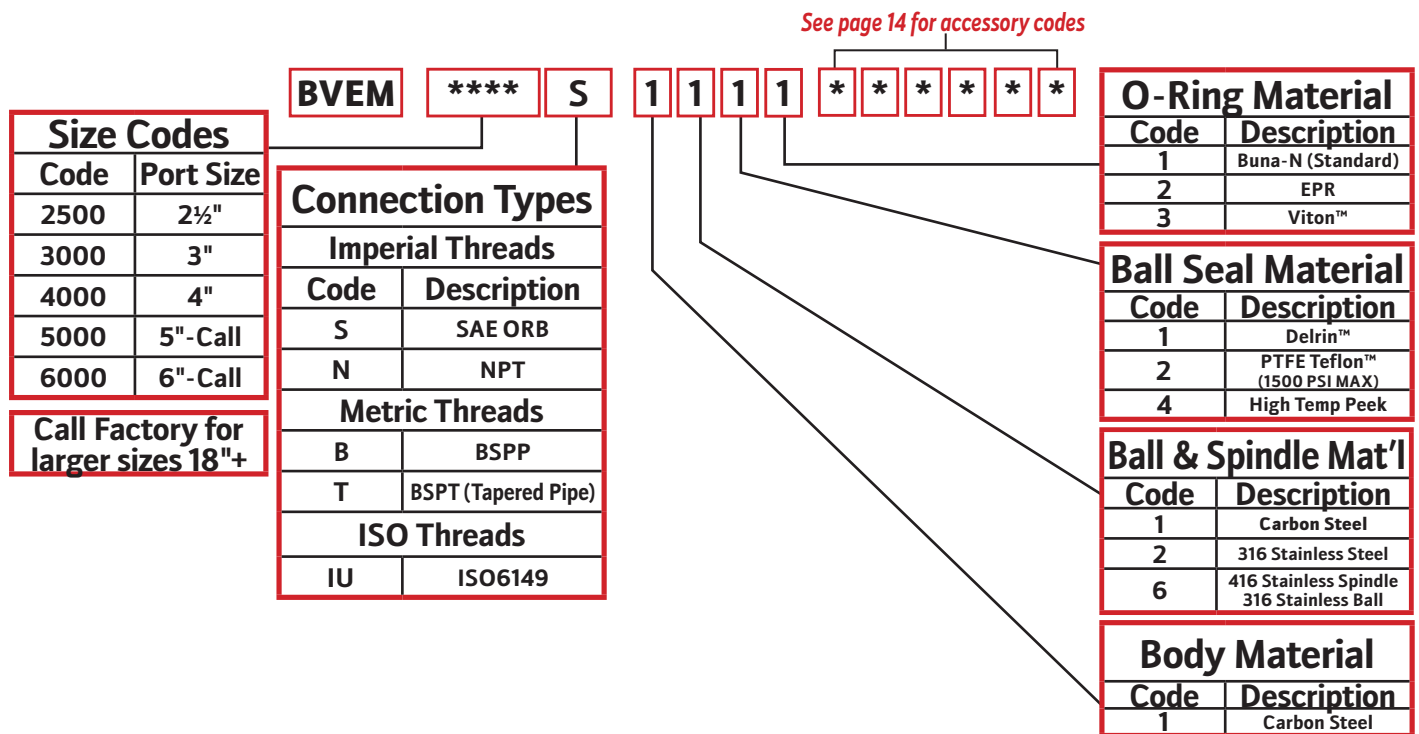
BVEM	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	1*	End Connection
6	1*	End Connection O-Ring
7	1	Internal Thrust Washer
8	1	Spindle O-Ring(s)
9	1	External Glide Washer
10	1	Stop Pin
11	1	Stop Washer
12	1	Color Code Cap
13	1	Handle Screw
14	1	Handle

*Quantity depends on size and configuration



BVEM MID PRESSURE

Ordering Codes Summary



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.

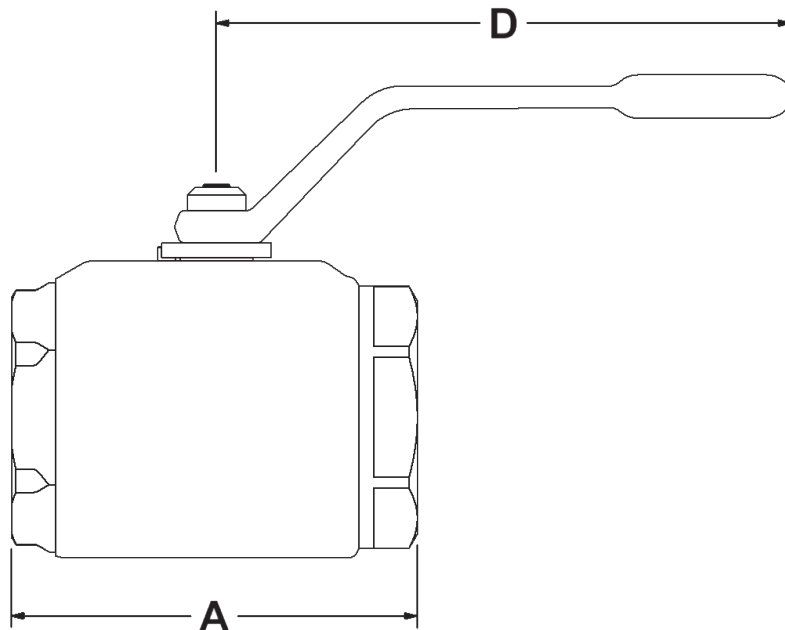
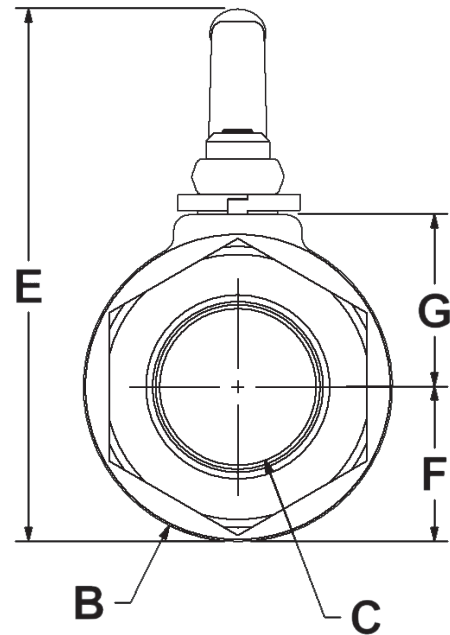
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BVEM MID PRESSURE

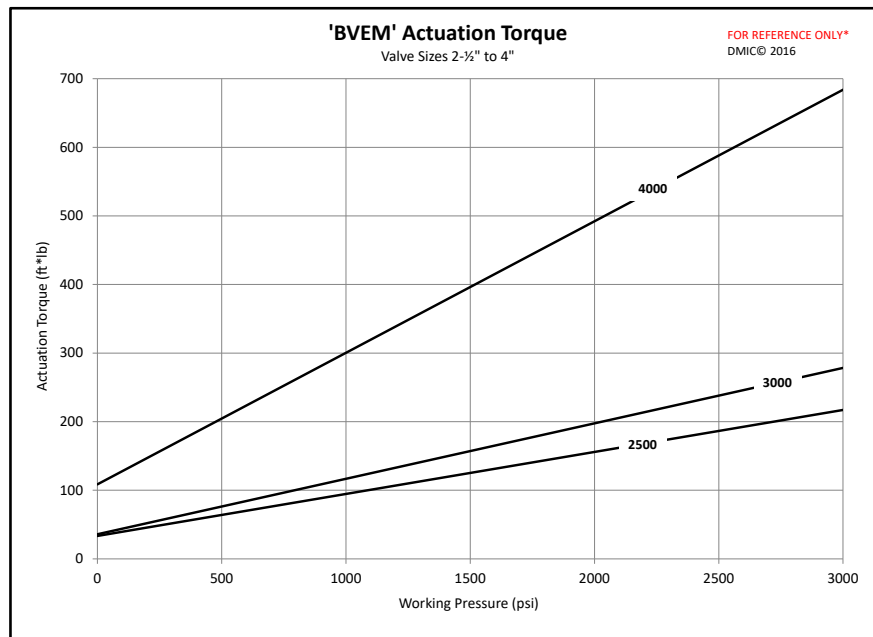
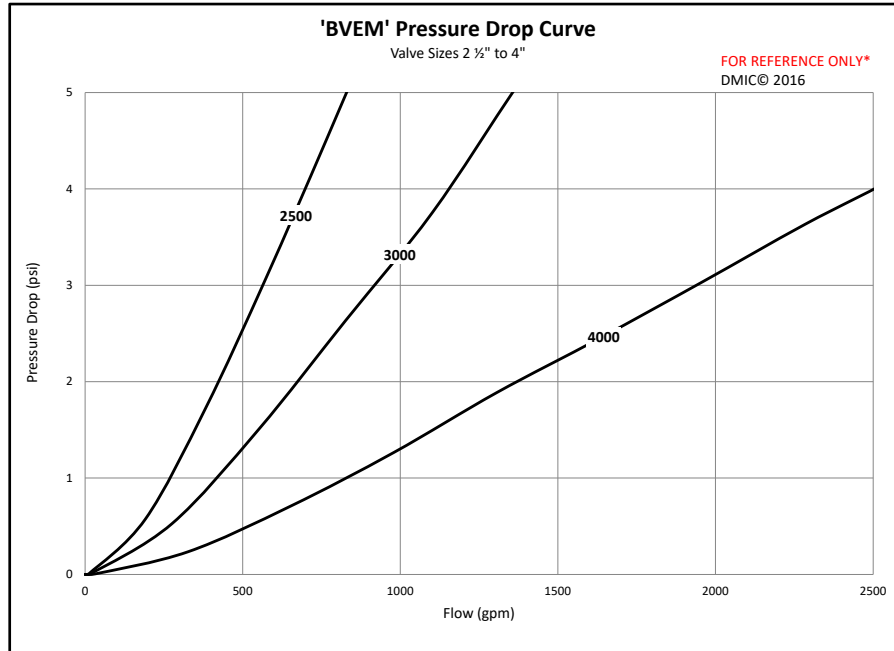
BVEM		Dependent Dimensions			
Threaded Connection					
Dimension (Inches)		A	E	F	G
Port Code(s)	Port Size*	Overall Length	Overall Height	Bot to CtrLine	Port Ctr to Top
N S B IU Threaded Connections	2½"	6.96	8.29	2.38	2.68
	3"	8.26	9.60	3.38	3.20
	4"	9.98	12.17	4.00	4.29

BVEM		Common Dimensions			
Part Number	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



BVEM MID PRESSURE

Flow Characteristic and Actuation Torque Curves



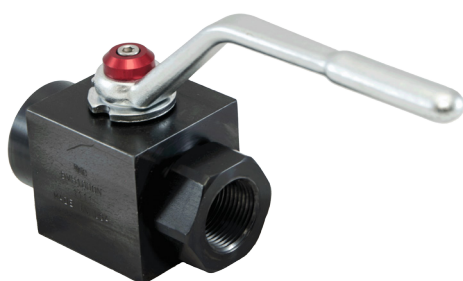
Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.



BVH & BVAH 7500/6000 PSI

The benchmark of quality and value ~ Made in U.S.A.

Widest array of sizes, connections and accessories



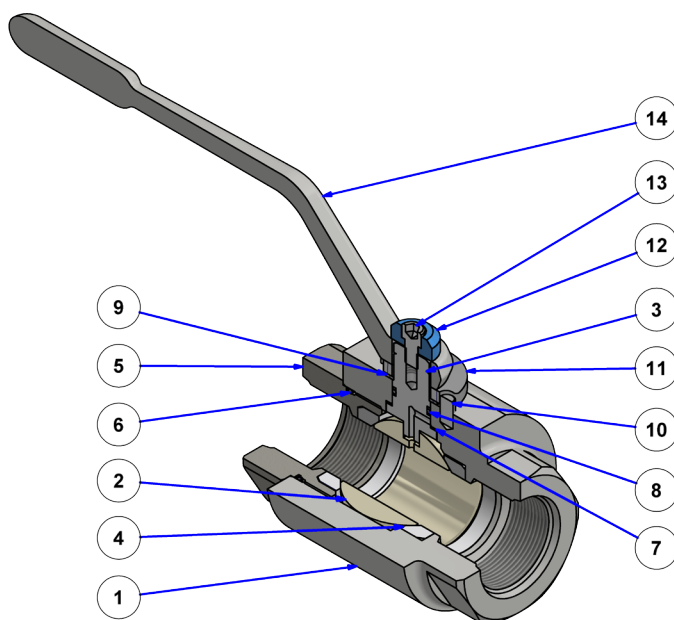
- Steel construction rated up to 7500 PSI for continuous/normal operation. ***Stainless Steel available in all sizes but rated at 7500 PSI for ¼" through ½", 6000 ¾" and 3000 PSI for 1" and up. (see BVHS for 6000 PSI)***
- DMIC's **BVH** Block Body & **BVAH** Round Body offered in largest range of ball orifice diameters. (¼"-6") - S.S BVH ¾" - 1" are round body design
- Unrestricted bore offered, Steel Balls, for minimal system pressure drop
- Widest array of connection types available
- Standard Delrin™ Ball Seals & Buna-N Elastomer Seals. Other materials available, for full fluid compatibility range. Standard Black Oxide finish on all Steel Valves. Other finishes are available upon request.
- Temperature Range: -60°F to 400°F (Depending on material combinations)
- Extensive variety of additional accessories available
- Fast delivery on any valve contained in this series

*Please note: For valves larger than 2", large pressure differentials may make the valve difficult to open and the pressure balance option may be required. Ask your DMIC sales Associate for more info!

Service Parts BOM

BVH/ BVAH		SERVICE PARTS BOM	
Index	Qty	Description	
1	1	Valve Body	
2	1	Ball	
3	1	Spindle	
4	2	Ball Seal	
5	1*	End Connection(s)	
6	1*	End Connection O-Ring(s)	
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

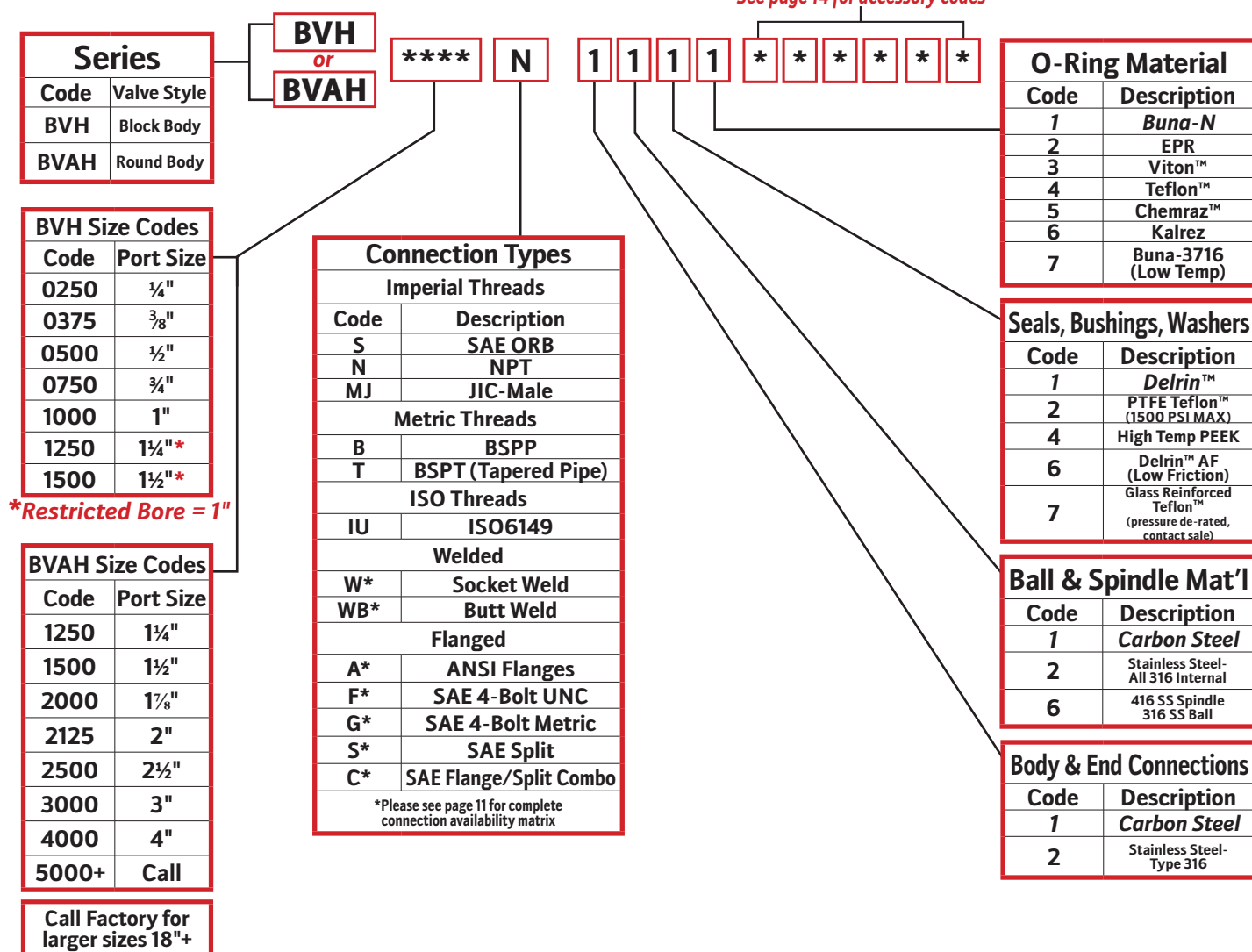


BVH & BVAH 7500/6000 PSI

Ordering Codes Summary

Please see the expanded section on Construction Materials
and DMIC Pre-Engineered Accessories, pgs 12-15

See page 14 for accessory codes



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

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.



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CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642

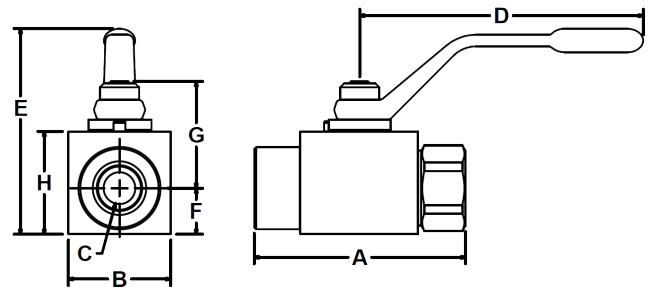


ISO 9001 CERTIFIED

BVH & BVAH 7500/6000 PSI

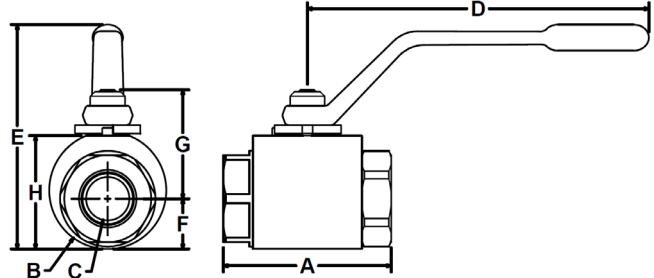
BVH/ BVAH		Dimensions (1 of 2)									
Dimensions B,C,D,E,F,G, & H are common dimensions shared between all BVH and BVAH Valves, independent of Connection Type											
Threaded Connections											
Dimension (Inches)		-	A	B	C	D	E	F	G	H	
Port Code(s)	Port Size	Working PSI	Overall Length	Body Diameter / Width	Bore Size	Handle Length	Overall Height	Bottom to Port Center	Port Center to Top	Body Height	
N S B IU Threaded Connections *Denotes BVH 1" reduced ball with 1-¼" or 1-½" connections ** Denotes Round Body Design for S.S.	¾"	7500 PSI	2.74	1.38	0.31	4.50	2.99	0.61	1.55	1.38	
	⅜"		2.87	1.50	0.38	4.50	3.12	0.64	1.65	1.50	
	½"		3.36	1.63	0.50	4.50	3.25	0.73	1.69	1.63	
	⅝"		3.79	2.25	0.75	7.00	4.72	1.00	2.29	2.25	
	1"		4.49	2.50	0.94	7.00	4.97	1.14	2.40	2.50	
	1¼"	6000 PSI	5.24	2.50	0.94	7.00	4.97	1.14	2.40	2.50	
	1½"		5.47	2.50	0.94	7.00	4.97	1.14	2.40	2.50	
	1¾"		4.85	3.38	1.25	9.86	6.46	1.45	3.14	3.26	
	2"		5.33	3.75	1.50	9.86	6.84	1.64	3.33	3.64	
	2½"		6.54	4.50	1.88	9.86	7.50	2.01	3.62	4.30	
2¾"	6.54	5.00	2.00	9.86	8.05	2.38	3.80	4.85			
3"	7.50	7.22	2.50	12.00	10.46	3.61	5.14	6.94			
4"	9.29	7.50	3.00	15.00	12.73	4.43	N/A	8.45			
4"	11.21	9.94	4.00	20.00	15.82	5.67	N/A	10.94			
SAE C.61 4-Bolt Flange Connections											
Dimension (inches)		-	A	C	J	K	L	M			
Port Code(s)	Port Size	Working PSI	Overall Length FM/GM	Bore Size	Flange Diameter	Flg Pad Short	Flange Pad Long	UNC Bolt Thread	Metric Bolt Thread		
FM/GM SAE C.61 4-Bolt Comp Connections	½"	5000 PSI	4.26	0.50	2.13	0.69	1.50	5/16"	M8		
	¾"		4.77	0.75	2.75	0.88	1.88	3/8"	M10		
	1"		5.27	0.94	3.00	1.03	2.06	3/8"	M10		
	1¼"	4000 PSI	6.90	1.25	3.38	1.19	2.31	7/16"	M10		
	1½"	3000 PSI	7.09	1.50	3.75	1.41	3.13	½"	M12		
	2"		8.06	1.88	4.50	1.69	3.06	½"	M12		
	2½"		8.06	2.00	4.50	1.69	3.06	½"	M12		
	2¾"	2500 PSI	11.25	2.50	5.00	2.00	3.50	½"	M12		
	3"	2000 PSI	13.65	3.00	6.00	2.44	4.19	5/8"	M16		
	4"	500 PSI	16.22	4.00	8.50	3.06	5.13	5/8"	M16		
SAE C.62 4-Bolt Flange Connections (6,000 PSI)											
Dimension (inches)		-	A	C	J	K	L	M			
Port Code(s)	Port Size	Overall Length	Bore Size	Flange Diameter	Flg Pad Short	Flg Pad Long	UNC Bolt Thr	Metric Bolt Thr			
FH/GH SAE C.62 4-Bolt Comp Connections	½"	4.26	0.50	2.25	0.72	1.59	5/16"	M8			
	¾"	4.77	0.75	2.75	0.94	2.00	3/8"	M10			
	1"	5.27	0.94	3.38	1.09	2.25	7/16"	M10			
	1¼"	6.90	1.25	3.75	1.25	2.63	½"	M12			
	1½"	7.09	1.50	4.50	1.44	3.13	5/8"	M16			
	2"	8.06	1.88	5.50	1.75	3.81	¾"	M20			
	2½"	8.06	2.00	5.50	1.75	3.81	¾"	M20			
	3"	Call Factory									
	4"										
	SAE C.61 Split Flange Connections										
Dimension (inches)		-	A	C	N	-		A			
Port Code(s)	Port Size	Working PSI	Overall Length (SM)	Bore Size	O-Ring No.	DMIC Split Flange Kit		Overall Length (CM)			
SM/CM SAE C.61 Split & Combo	½"	5000 PSI	5.96	0.50	2-210	FSL-0500SK		5.11			
	¾"		6.38	0.75	2-214	FSL-0750SK		5.58			
	1"		6.99	0.94	2-219	FSL-1000SK		6.13			
	1¼"	4000 PSI	7.50	1.25	2-222	FSL-1250SK		7.20			
	1½"	3000 PSI	9.09	1.50	2-225	FSL-1500SK		8.09			
	2"		9.10	1.88	2-228	FSL-2000SK		8.58			
	2½"		9.10	2.00	2-228	FSL-2000SK		8.58			
	2¾"	2500 PSI	13.88	2.50	2-232	FSL-2500SK		12.56			
	3"	2000 PSI	15.65	3.00	2-237	FSL-3000SK		14.65			
	4"	500 PSI	18.09	4.00	2-245	FSL-4000SK		17.15			
SAE C.62 Split Flange Connections (6000 PSI)											
Dimension (inches)		-	A	C	N	-		A			
Port Code(s)	Port Size	Overall Length (SH)	Bore Size	O-Ring No.	DMIC Split Flange Kit		Overall Length (CH)				
SH/CH SAE C.62 Split & Combo	½"	5.96	0.50	2-210	FSH-0500SK		5.11				
	¾"	6.86	0.75	2-214	FSH-0750SK		5.82				
	1"	7.79	0.94	2-219	FSH-1000SK		6.53				
	1¼"	8.77	1.25	2-222	FSH-1250SK		7.83				
	1½"	11.07	1.50	2-225	FSH-1500SK		9.08				
	2"	12.44	1.88	2-228	FSH-2000SK		10.25				
	2½"	12.44	2.00	2-228	FSH-2000SK		10.25				
	2¾"	12.44	2.00	2-228	FSH-2000SK		10.25				

All BVH C.S

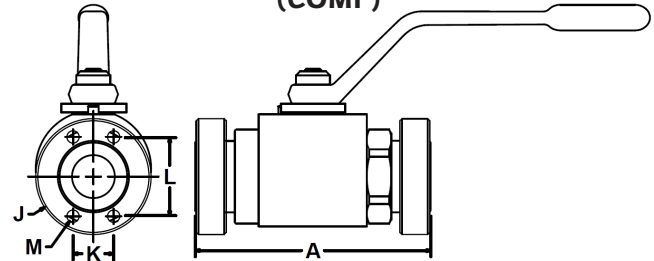


N, S, B, IU THREADED CONNECTIONS

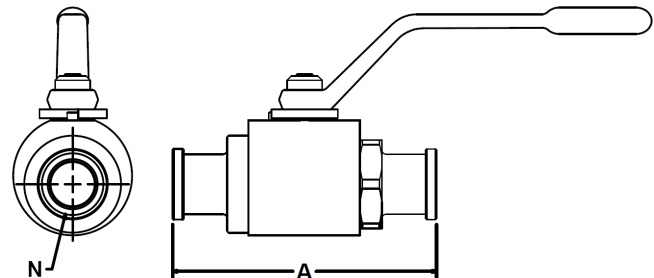
For All BVH & 3/8" - 1" BVH S.S



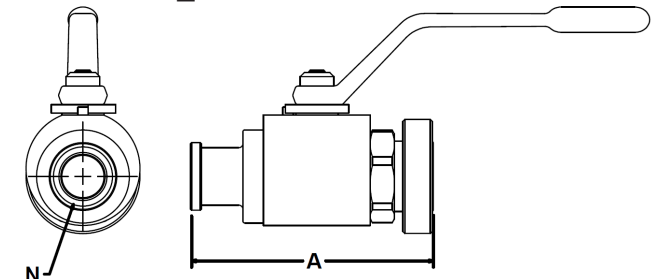
FM/FH, GM/GH SAE 4-Bolt Flange (COMP)



SM/SH SAE SPLIT-FLANGE HEAD



CM/CH SAE 4_BOLT & SPLIT "COMBO" FLANGE

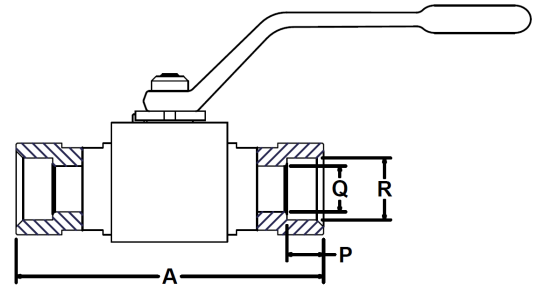


BVH & BVAH 7500/6000 PSI

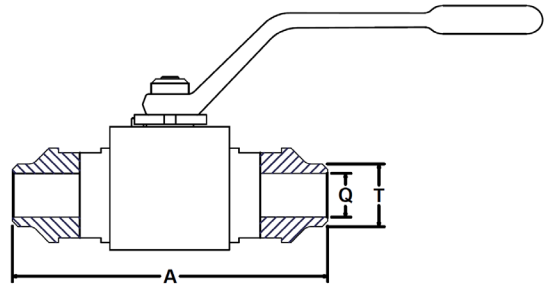
BVH/ BVAH		Dimensions (2 of 2)						
Fixed Socket Weld Connections (6000 PSI)								
Dimension (Inches)		A	C	P	Q	R		
Port Code(s)	Port Size	Overall Length	Bore Size (Ball)	Socket Depth	Connection Inside Diameter	Inside Socket Outer Diameter		
W* *4-SCH 40 *8-SCH 80 *F-SCH 160 *G-XXS More Sizes Available Upon Request	½"	6.26	0.50	0.75	Based Upon Pipe Schedule	0.88		
	¾"	7.46	0.75	0.75		1.09		
	1"	7.67	0.94	1.00		1.36		
	1¼"	8.40	1.25	1.00		1.69		
	1½"	9.47	1.50	1.00		1.95		
	2"	10.60	1.88	1.00		2.44		
	2⅝"	10.60	2.00	1.00		2.44		
	2⅞"	Call Factory						
	3"							
	4"							
Fixed Butt-Weld Connections (6000 PSI)								
Dimension (Inches)		A	C	T	Q			
Port Code(s)	Port Size	Overall Length	Bore Size (Ball)	Weld Neck Outside Diameter	Connection Inside Diameter			
WB* *4-SCH 40 *8-SCH 80 *F-SCH 160 *G-XXS More Sizes Available Upon Request	½"	4.26	0.50	0.84	Based Upon Pipe Schedule			
	¾"	6.35	0.75	1.06				
	1"	7.67	0.94	1.31				
	1¼"	8.35	1.25	1.66				
	1½"	9.47	1.50	1.91				
	2"	10.60	1.88	2.38				
	2⅝"	10.60	2.00	2.38				
	2⅞"	Call Factory						
	3"							
	4"							

***Please Note:**
Always operate System Pressure according to Pipe Schedule

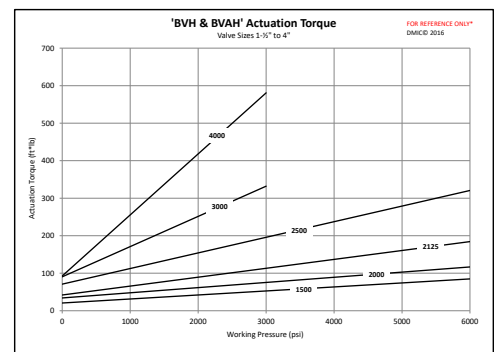
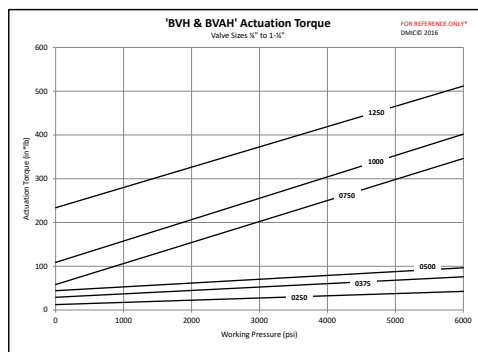
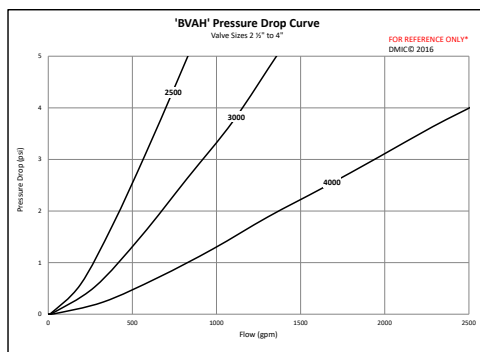
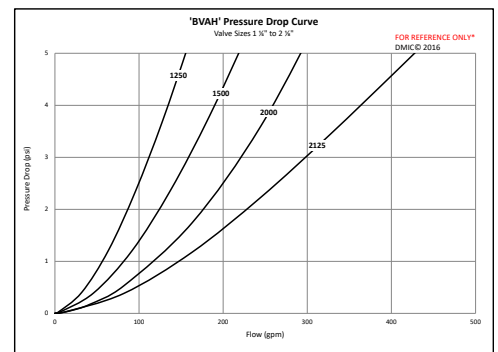
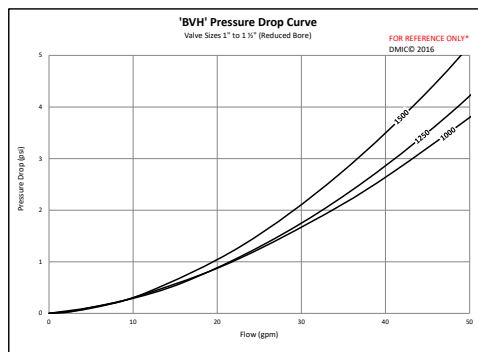
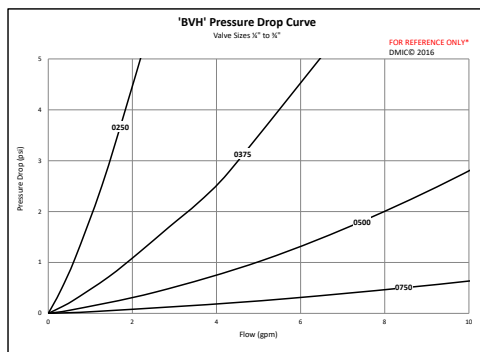
W(*) FIXED SOCKET WELD
(*) PIPE SCHEDULE CHARACTER



WB(*) FIXED BUTT WELD
(*) PIPE SCHEDULE CHARACTER



Flow Characteristic and Actuation Torque Curves

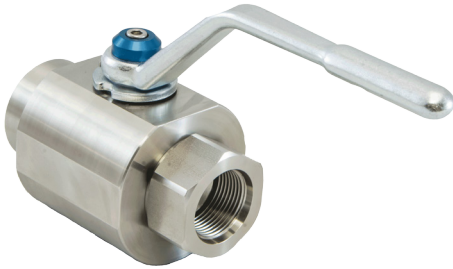


Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.



BVHS 6000 PSI

Stainless Steel Round Body Ball Valves for 6000 PSI, 1"-6"



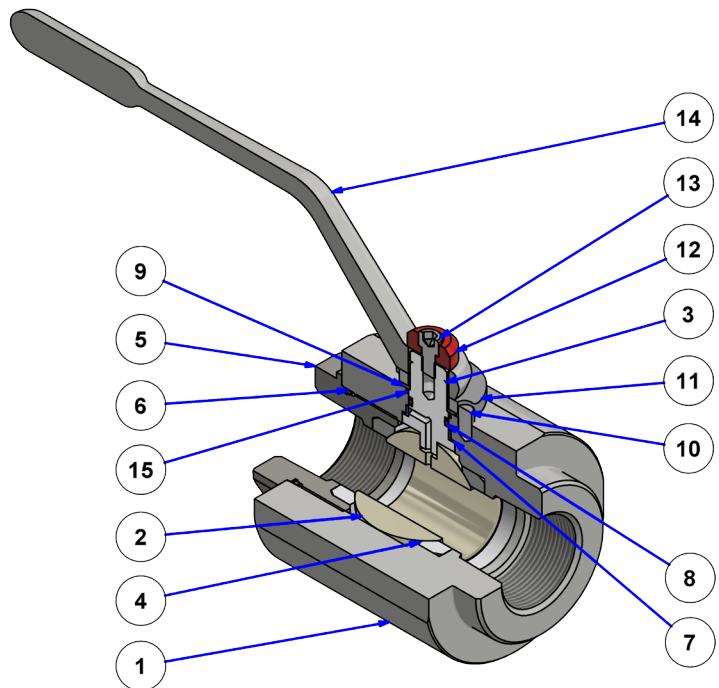
- **Strictly Stainless Steel construction** available in 1"-6" bore sizes
- Valves are full-pressure 6,000 PSI rated for continuous/normal operation
- Resistance to extreme chemical, industrial, outdoor, and marine environments
- Widest array of connection types available
- Standard Delrin™ Ball Seals & Buna-N Elastomer Seals. Other materials available, for full fluid compatibility range
- Wide variety of additional accessories available

*Please note: For valves larger than 2", large pressure differentials may make the valve difficult to open and the pressure balance may be required. Ask your DMIC sales Associate for more info!

Service Parts BOM

BVHS	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	1*	End Connection(s)
6	1*	End Connection O-Ring(s)
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
15	1	Spindle Bushing(s)

*Quantity depends on size and configuration

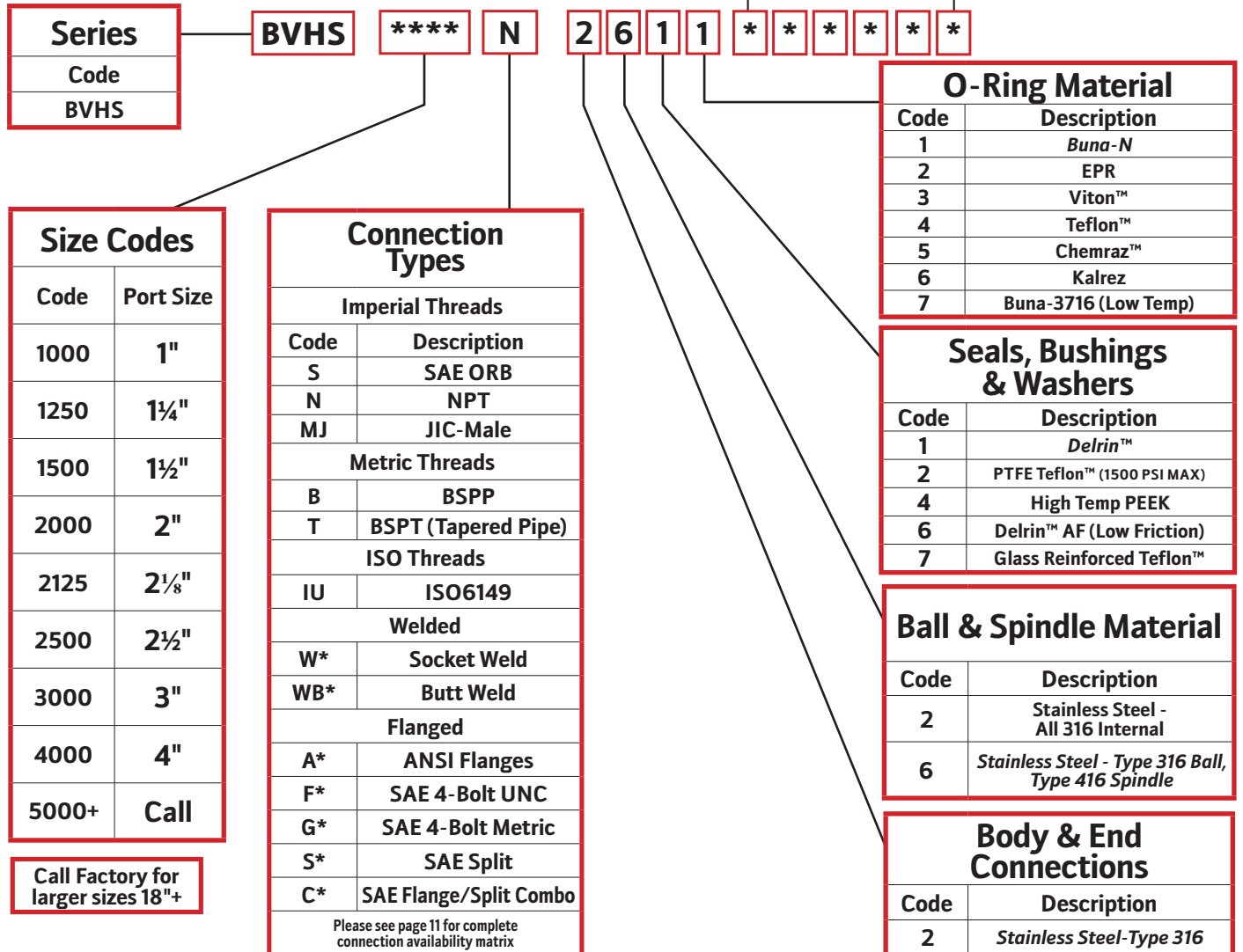


BVHS 6000 PSI

Ordering Codes Summary

Please see the expanded section on Construction Materials
and DMIC Pre-Engineered Accessories, pgs 12-15

See page 14 for accessory codes



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

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.



BVHS 6000 PSI

BVHS Dimensional Information (1 of 2)

Dimensions B, C, D, E, F, G, & H are common dimensions shared between all BVHS Valves, independent of Connection Type

Threaded Connections (6000 PSI)

Dimension (Inches)		A	B	C	D	E	F	G	H
Port Code(s)	Port Size	Overall Length	Body Diameter	Bore Size	Handle Length	Overall Height	Bottom to Port Center	Port Center to Top	Width
N S B IU Threaded Connections	1"	4.85	3.13	0.88	7.00	5.36	1.56	2.37	3.00
	1¼"	4.85	4.00	1.13	9.86	7.00	2.00	3.13	3.75
	1½"	5.35	4.25	1.31	9.86	7.33	2.13	3.33	4.13
	2"	6.54	5.00	1.75	9.86	7.99	2.50	3.62	4.75
	2¼"	6.54	5.25	2.00	9.86	8.29	2.63	3.80	5.00
	2½"	7.75	7.44	2.25	12.00	10.45	3.72	5.03	7.44
	3"	Call Factory							
	4"								

SAE C.61 4-Bolt Flange Connections

Dimension (inches)		-	A	C	J	K	L	M	
Port Code(s)	Port Size	Working PSI	Overall Length FM/GM	Bore Size	Flange Diameter	Flg Pad Short	Flange Pad Long	UNC Bolt Thread	Metric Bolt Thread
FM/GM SAE C.61 4-Bolt Comp. Connections	1"	5000 PSI	5.27	0.88	3.00	1.03	2.06	3/8"	M10
	1¼"	4000 PSI	6.90	1.13	3.38	1.19	2.31	7/16"	M10
	1½"	3000 PSI	7.09	1.31	3.75	1.41	2.75	½"	M12
	2"		8.06	1.75	4.50	1.69	3.06	½"	M12
	2½"		8.06	2.00	4.50	1.69	3.06	½"	M12
	2½"	2500 PSI	11.25	2.25	5.00	2.00	3.50	½"	M12
	3"	2000 PSI	Call Factory						
	4"	500 PSI							

SAE C.62 4-Bolt Flange Connections (6,000 PSI)

Dimension (inches)		A	C	J	K	L	M	
Port Code(s)	Port Size	Overall Length	Bore Size	Flange Diameter	Flg Pad Short	Flg Pad Long	UNC BoltThr	Metric BoltThr
FH/GH SAE C.62 4-Bolt Comp. Connections	1"	5.27	0.88	3.38	1.09	2.25	7/16"	M12
	1¼"	6.90	1.13	3.75	1.25	2.63	½"	M12
	1½"	7.09	1.31	4.50	1.44	3.13	5/8"	M16
	2"	8.06	1.75	5.50	1.75	3.81	¾"	M20
	2½"	8.06	2.00	5.50	1.75	3.81	¾"	M20

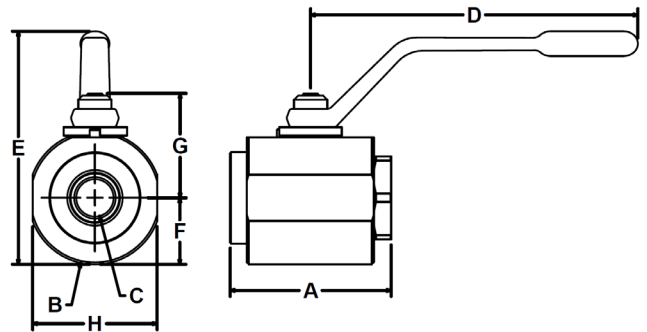
SAE C.61 Split Flange Connections

Dimension (inches)		-	A	C	N	-	A _{CM}
Port Code(s)	Port Size	Working PSI	Overall Length (SM)	Bore Size	O-Ring No.	DMIC Split Flange Kit	Overall Length (CM)
SM & CM SAE C.61 Split & Flange Combo	1"	5000 PSI	6.99	0.88	2-219	FSL-1000SK	6.26
	1¼"	4000 PSI	7.51	1.13	2-222	FSL-1250SK	7.53
	1½"	3000 PSI	9.84	1.31	2-225	FSL-1500SK	8.84
	2"		10.12	1.75	2-228	FSL-2000SK	9.60
	2½"		10.11	2.00	2-228	FSL-2000SK	9.54
	2½"		2500 PSI	Call Factory			
	3"	2000 PSI					
4"	500 PSI						

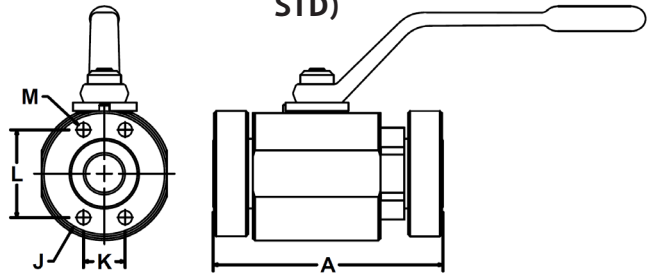
SAE C.62 Split Flange Connections (6000 PSI)

Dimension (inches)		A	C	N	—	A
Port Code(s)	Port Size	Overall Length (SH)	Bore Size	O-Ring No.	DMIC Split Flange Kit	Overall Length (CH)
SH & CH SAE C.62 Split & Flange Combo	1"	7.79	0.88	2-219	FSH-1000SK	6.66
	1¼"	8.77	1.13	2-222	FSH-1250SK	8.16
	1½"	11.07	1.31	2-225	FSH-1500SK	9.45
	2"	12.44	1.75	2-228	FSH-2000SK	10.76
	2½"	12.55	2.00	2-228	FSH-2000SK	10.80

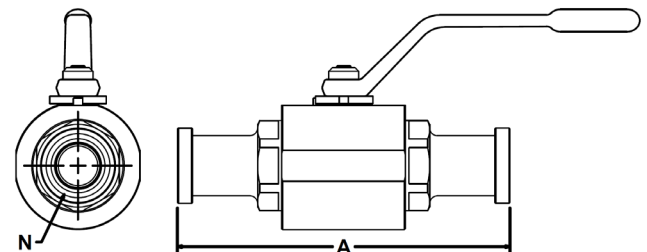
N, S, B, IU THREADED



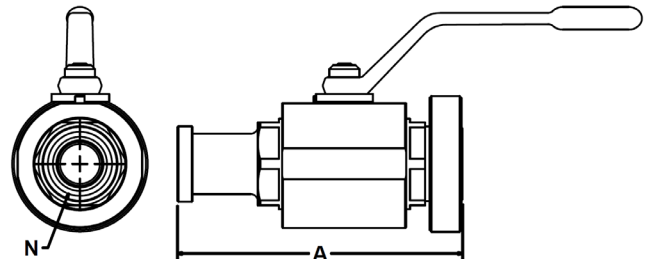
FM/FH, GH/GM, SAE 4 BOLT FLANGE (COMP & STD)



SM/SH SAE SPLIT FLANGE HEAD



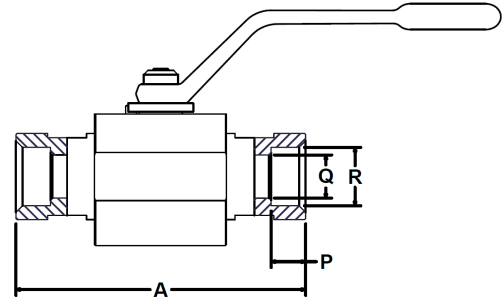
CM/CH SAE 4-BOLT & SPLIT "COMBO" FLANGE



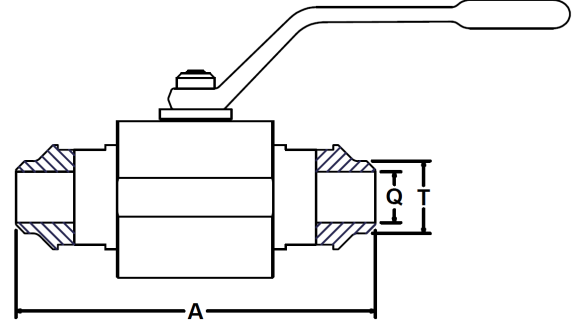
BVHS 6000 PSI

BVHS		Dimensional Information (2 of 2)					
Fixed Socket Weld Connections (6000 PSI)							
Dimension (Inches)		A	C	P	Q	R	
Port Code(s)	Port Size	Overall Length	Bore Size (Ball)	Socket Depth	Connection Inside Diameter	Inside Socket Outer Diameter	
W*	1"	7.67	0.88	1.00	Dependent Upon Pipe Schedule	1.36	
*4-SCH 40	1¼"	8.40	1.13	1.00		1.69	
*8-SCH 80	1½"	9.47	1.31	1.00		1.95	
*F-SCH 160	2"	10.60	1.75	1.00		2.44	
*G-XXS	2½"	10.60	2.00	1.00		2.44	
More Sizes Available Upon Request	2¾"	11.24	2.25	1.00		2.92	
	3"	Call Factory					
	4"						
Fixed Butt-Weld Connections (6000 PSI)							
Dimension (inches)		A	C	T	Q		
Port Code(s)	Port Size	Overall Length	Bore Size	Weld Neck Outside Diameter	Connection Inside Diameter		
WB*	1"	7.92	0.88	1.31	Dependent Upon Pipe Schedule		
*4-SCH 40	1¼"	9.01	1.13	1.66			
*8-SCH 80	1½"	9.47	1.31	1.91			
*F-SCH 160	2"	10.60	1.75	2.38			
*G-XXS	2½"	10.60	2.00	2.38			
More Sizes Available Upon Request	2¾"	Call Factory					
	3"						
	4"						

W(*) FIXED SOCKET WELD
(*) PIPE SCHEDULE CHARACTER

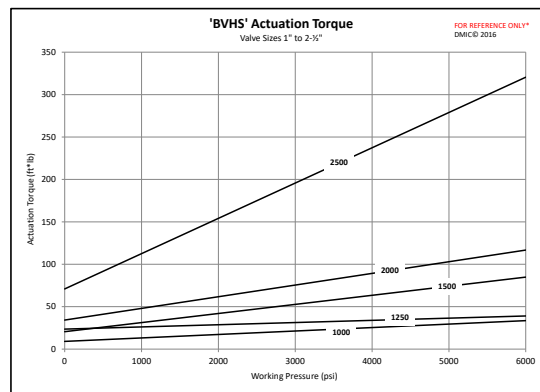
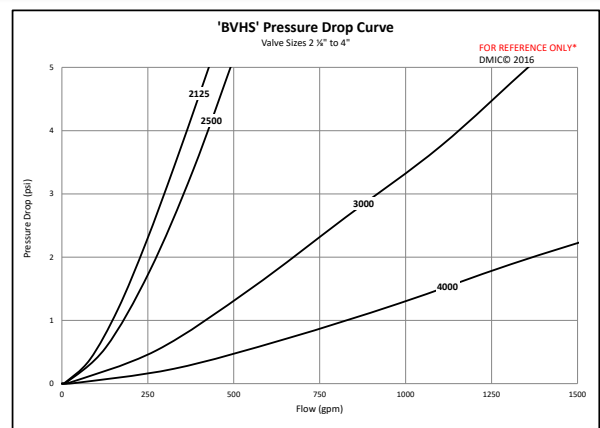
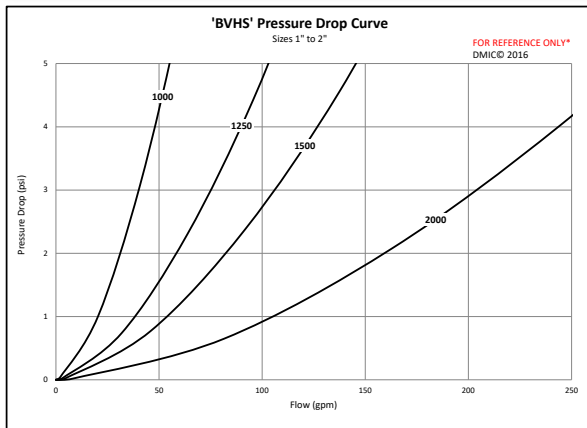


WB(*) FIXED BUTT WELD
(*) PIPE SCHEDULE CHARACTER



***Please Note:**
Always operate System Pressure According to Pipe Schedule. DMIC BVHS Ball Valves are rated at 6000 PSI which may exceed Maximum Allowable due to Pipe Schedule.

Flow Characteristic and Actuation Torque Curves



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CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



BVHH SUPER HIGH PRESSURE 10,000 PSI

Next generation design substantially strengthened
for durability and engineering factor ~ Sizes from ½" - 2"

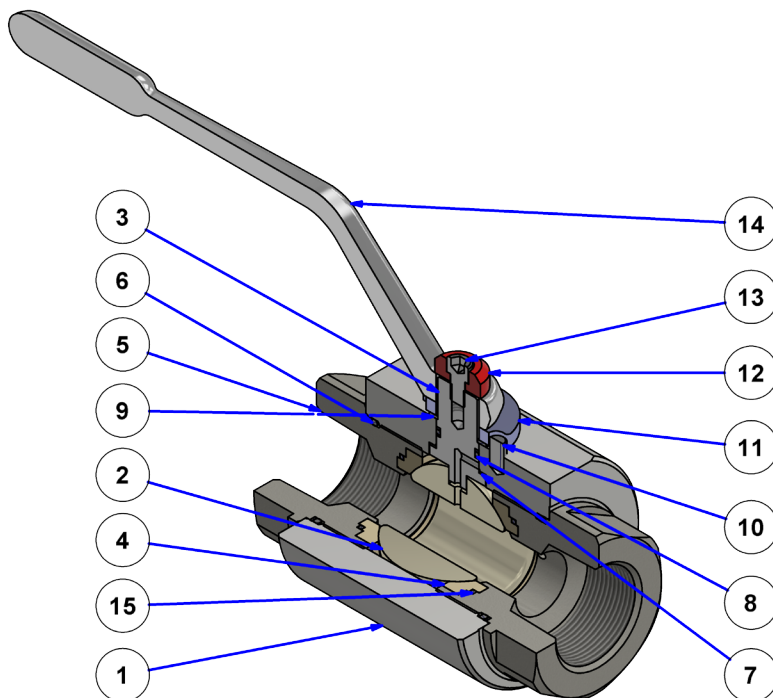


- Special Ball Seals and heavy duty construction, superior to traditional ball seal ring reinforcement designs; Assures shutoff capability
- Accepts many standard DMIC Accessories and a selection of custom **BVHH** Valve Options
- Standard Buna-N sealing

Service Parts BOM

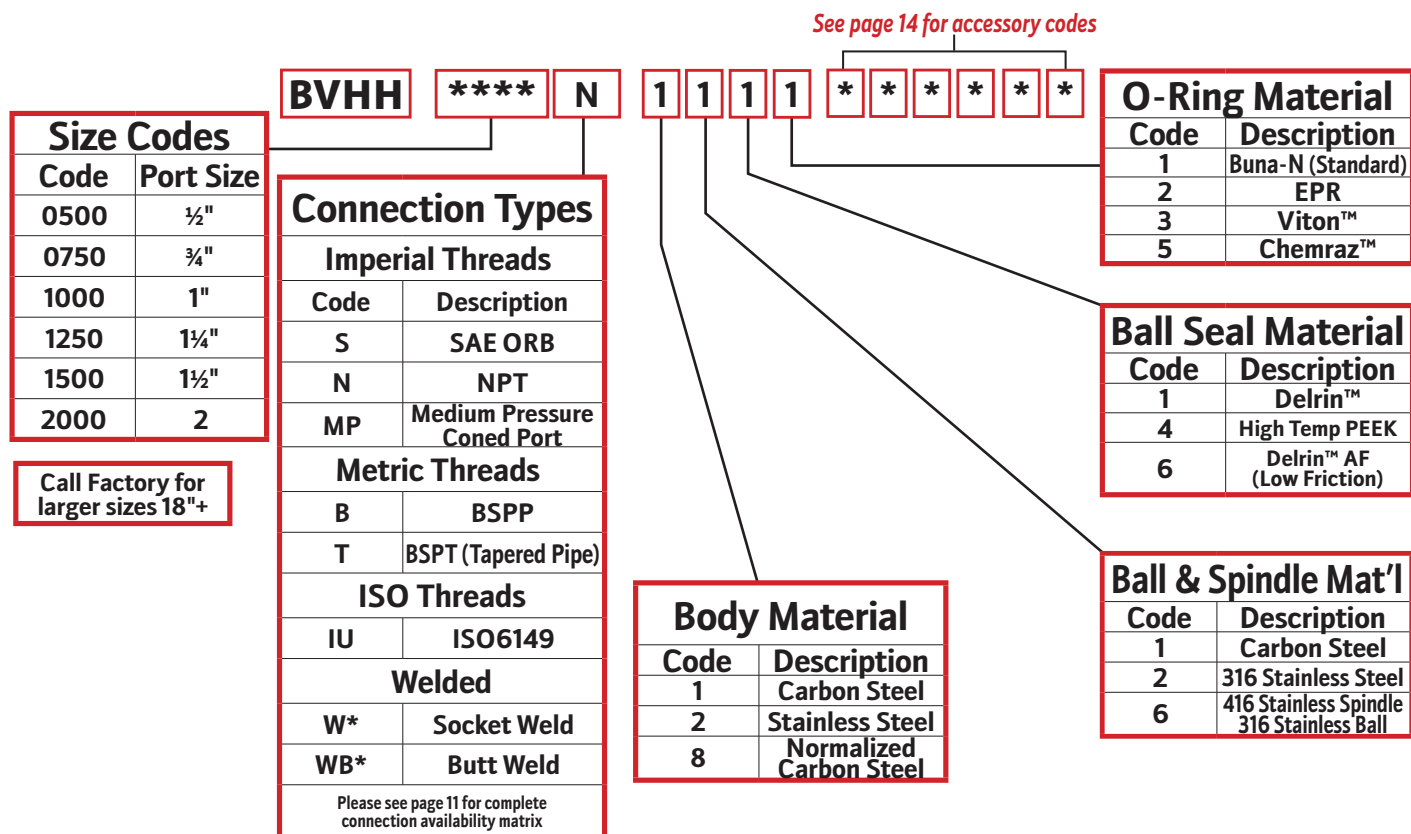
BVHH	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	1*	End Connection(s)
6	1*	End Connection O-Ring(s)
7	1	Internal Thrust Washer
8	1	Spindle O-Ring(s)
9	1	External Glide Washer
10	1	Stop Pin
11	1	Stop Washer
12	1	Color Code Cap
13	1	Handle Screw
14	1	Handle
15	2*	Ball Seal O-Ring(s)

*Quantity depends on size and configuration



BVHH SUPER HIGH PRESSURE 10,000 PSI

Ordering Codes Summary



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

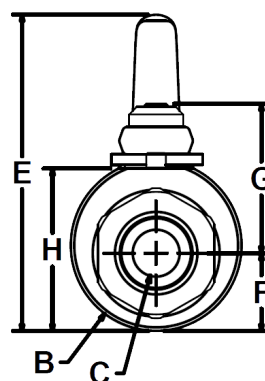
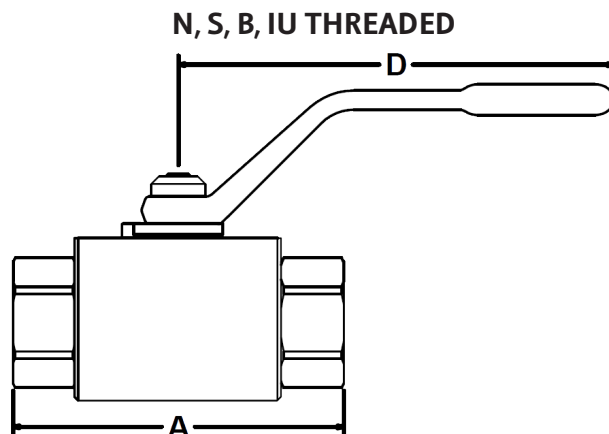
DMIC supplies various end connection styles to fit the customer's needs even though the pressure rating of some connection types may be lower than the valve. Please operate your system in accordance with the lowest rated pressure components.

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.

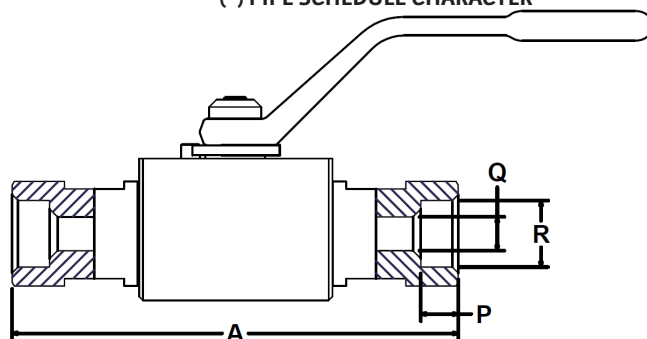


BVHH SUPER HIGH PRESSURE 10,000 PSI

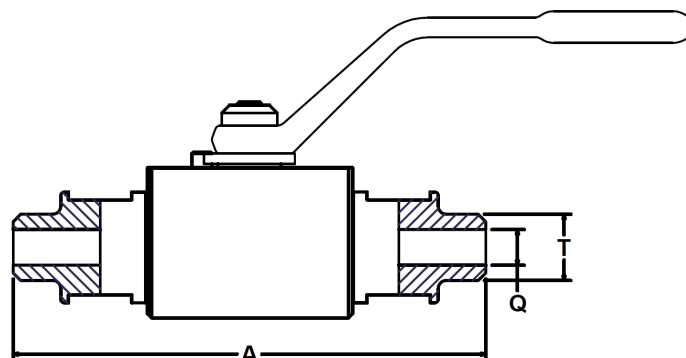
BVHH		Dependent Dimensions							
Dimensions B,C,D,E,F,G,H are common dimensions									
Threaded Connections									
Dimension (Inches)		A	B	C	D	E	F	G	H
Port Code(s)	Port Size	Overall Length	Body Diameter	Bore Size	Handle Length	Overall Height	Center to Valve Bot	Center to Valve top	Valve Height
N S B IU Threaded Connections	½"	4.22	1.75	0.38	4.50	3.26	0.75	1.69	1.67
	¾"	4.72	2.5	0.56	7.00	4.84	1.11	2.29	2.37
	1"	5.32	2.75	0.75	7.00	5.08	1.25	2.40	2.61
	1¼"	6.20	3.50	0.90	9.86	6.52	1.54	3.10	3.32
	1½"	6.21	4.00	1.13	9.86	6.92	1.72	3.33	3.72
	2"	7.34	5.00	1.50	9.86	7.99	2.50	3.62	4.79
Socket Weld End Connections									
Dimension (inches)		A	C	P	Q	R			
Port Code(s)	Port Size	Overall Length	Bore Size	Socket Depth	Connection Inside Diameter	Inside Socket, Outer Diameter			
W* SCH.X Socket Weld End Connections	½"	6.72	0.38	0.75	Based Upon Pipe Sch.	0.88			
	¾"	7.47	0.56	0.63		1.10			
	1"	8.25	0.75	0.98		1.35			
	1¼"	8.95	0.90	1.00		1.69			
	1½"	9.03	1.13	1.00		1.97			
	2"	11.41	1.50	1.00		2.42			
Butt Weld End Connections									
Dimension (inches)		A	C	Q	T				
Port Code(s)	Port Size	Overall Length	Bore Size	Connections Inside Dia.	Connection Outside Dia.				
WB* SCH.X Butt Weld End Connections	½"	6.22	0.38	Based Upon Pipe Sch.	0.84				
	¾"	7.47	0.56		1.05				
	1"	8.25	0.75		1.31				
	1¼"	8.95	0.90		1.66				
	1½"	9.03	1.13		1.91				
	2"	11.41	1.50		2.38				



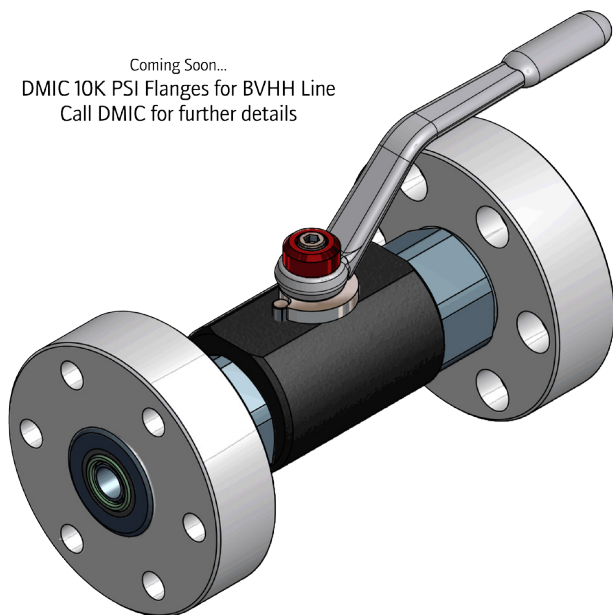
W(*) FIXED SOCKET WELD
(*) PIPE SCHEDULE CHARACTER



WB(*) FIXED BUTT WELD
(*) PIPE SCHEDULE CHARACTER

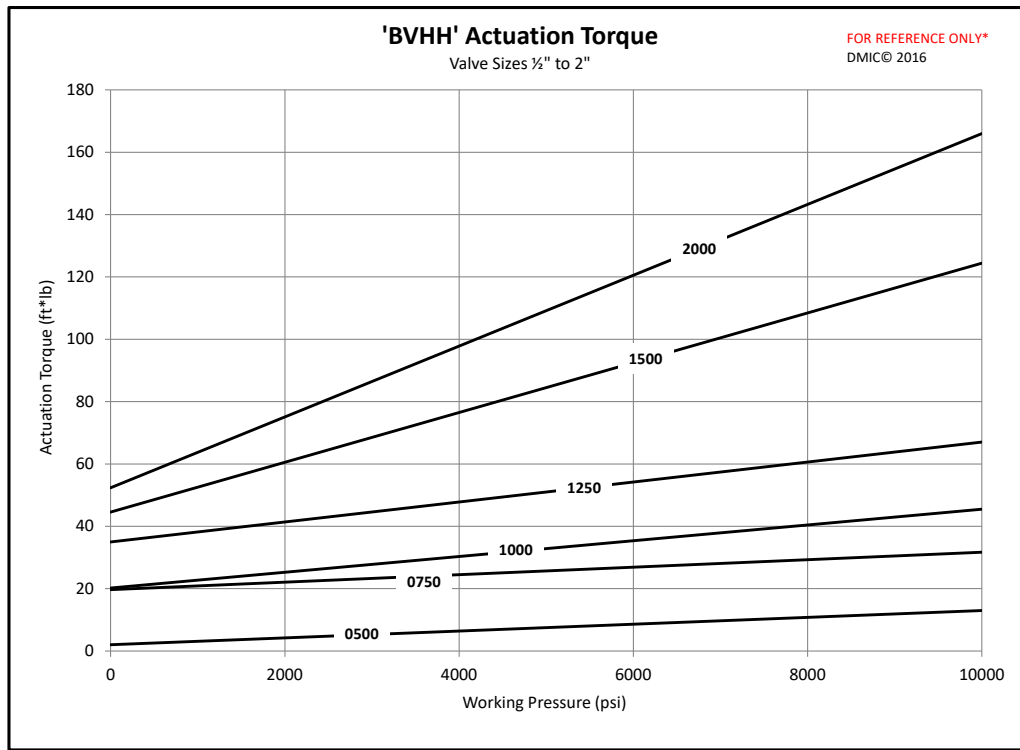
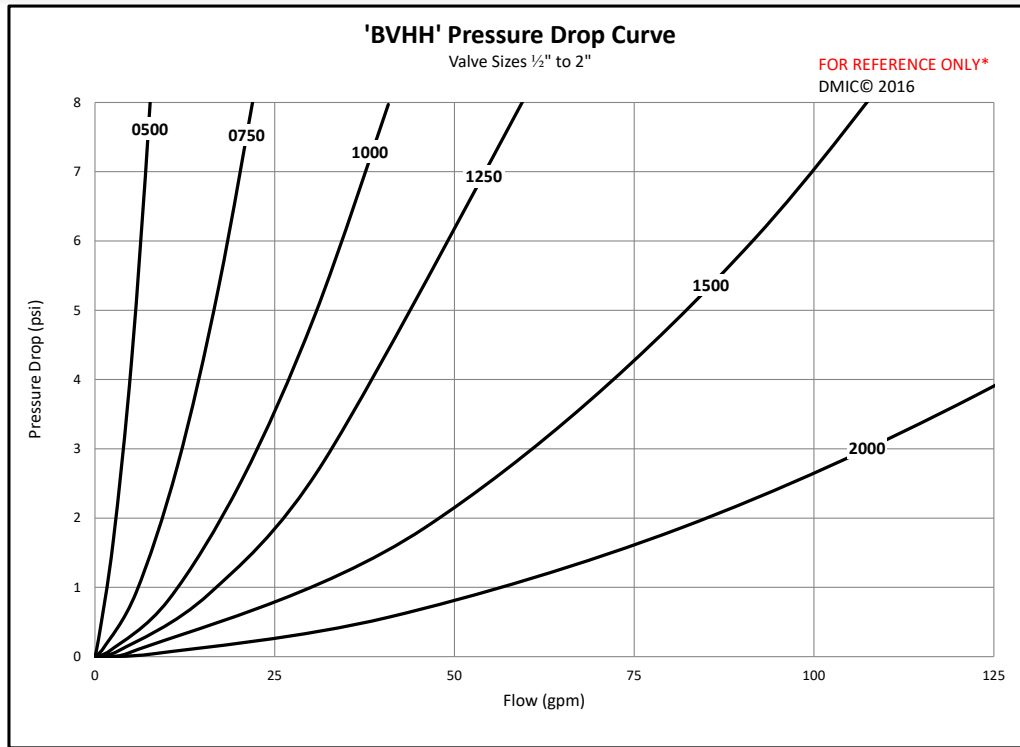


Coming Soon...
DMIC 10K PSI Flanges for BVHH Line
Call DMIC for further details



BVHH SUPER HIGH PRESSURE 10,000 PSI

Flow Characteristic and Actuation Torque Curves



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CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



ISO 9001 CERTIFIED

BVHHH ULTIMATE PRESSURE 15,000 PSI

DMIC'S 15,000 PSI Floating Ball Valve, ¼" to 2"

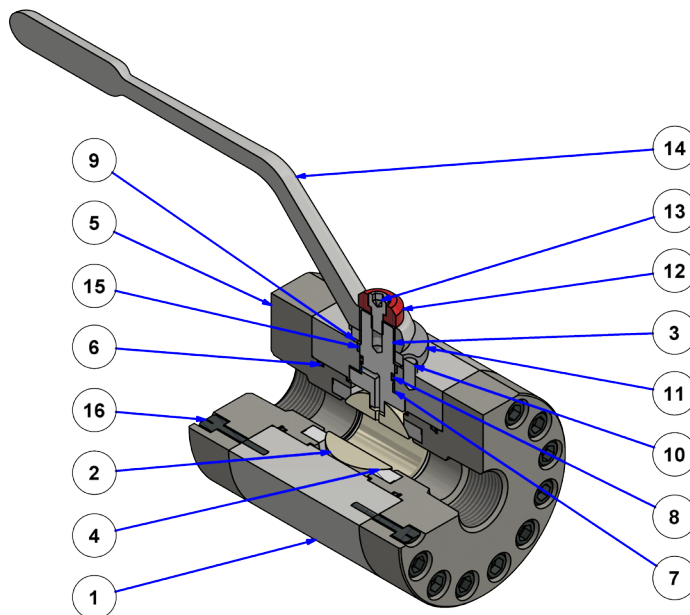
Extreme Pressure Handling, Generous Engineering Factor



- Max Allowable working pressure up to 15,000 PSI with 3:1 engineering factor
- Special reinforcements prevent collapse of ball seals ensuring that most of DMIC's ball seal materials can be used
- Designed with DMIC's standard blowout-proof stem.
- Compatible with DMIC's wide array of accessories
- Call DMIC for application support or to place order

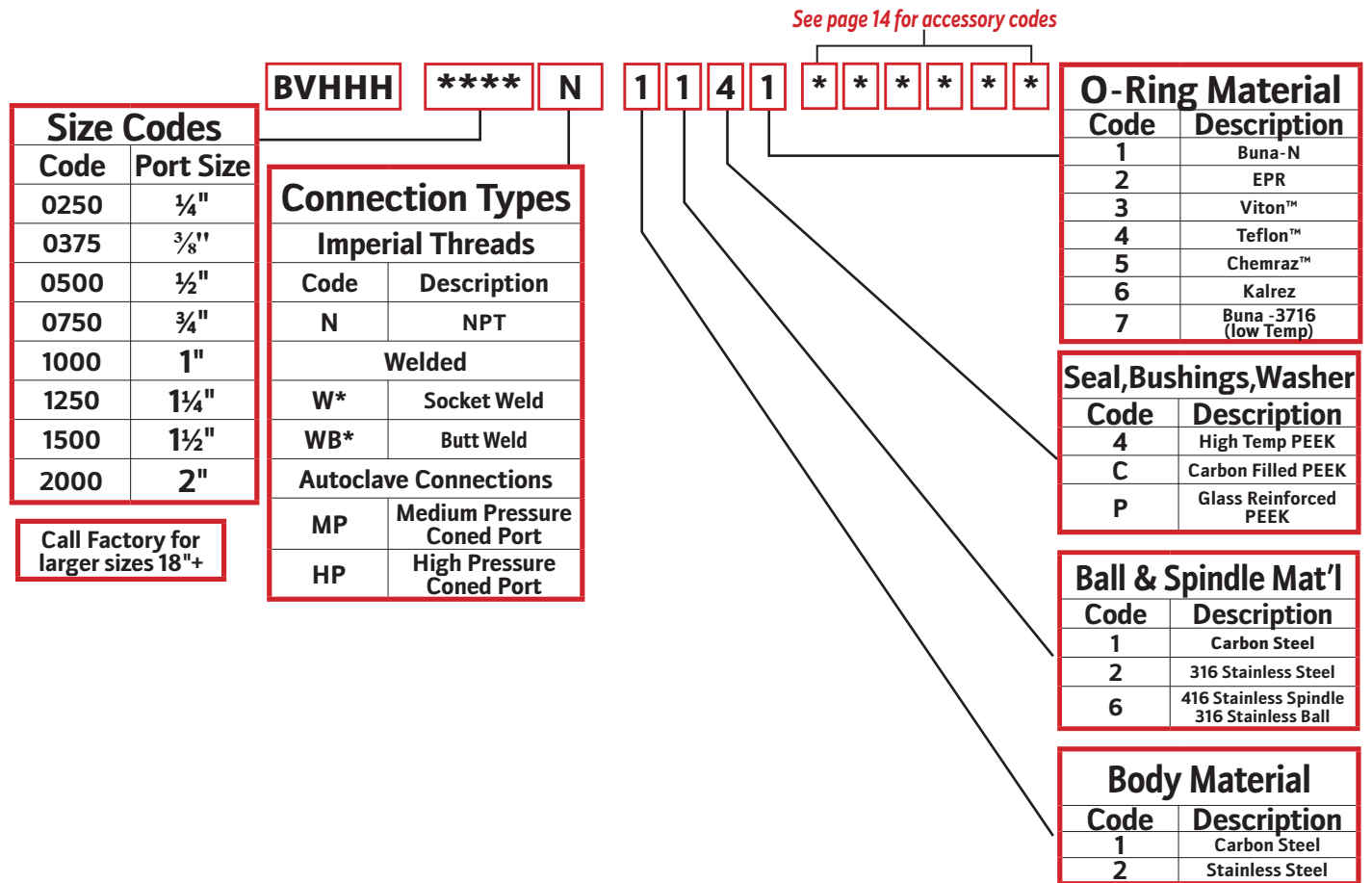
Service Parts BOM

BVHHH	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	2	End Connection
6	2	End Connection O-Ring(s)
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
15	1	Spindle Bushing(s)
16	24	End Connection Screws
*Quantity depends on size and combination of body		



BVHHH ULTIMATE PRESSURE 15,000 PSI

Ordering Codes Summary



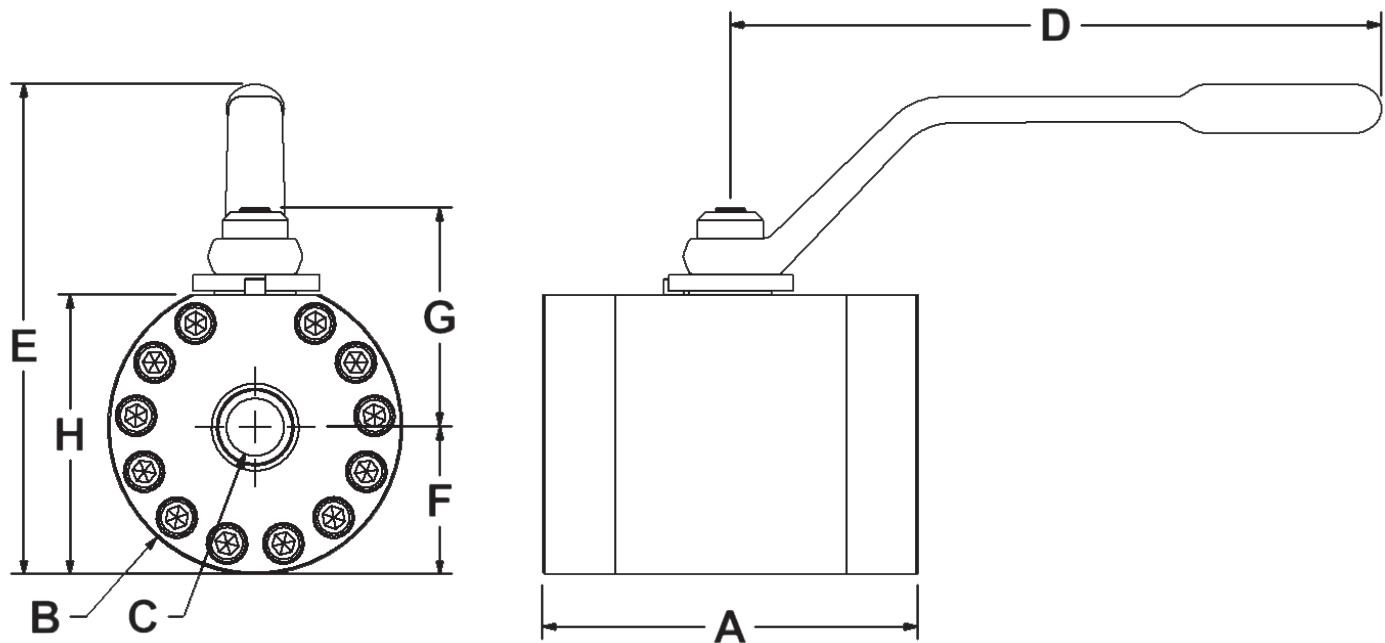
Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.



BVHHH ULTIMATE PRESSURE 15,000 PSI

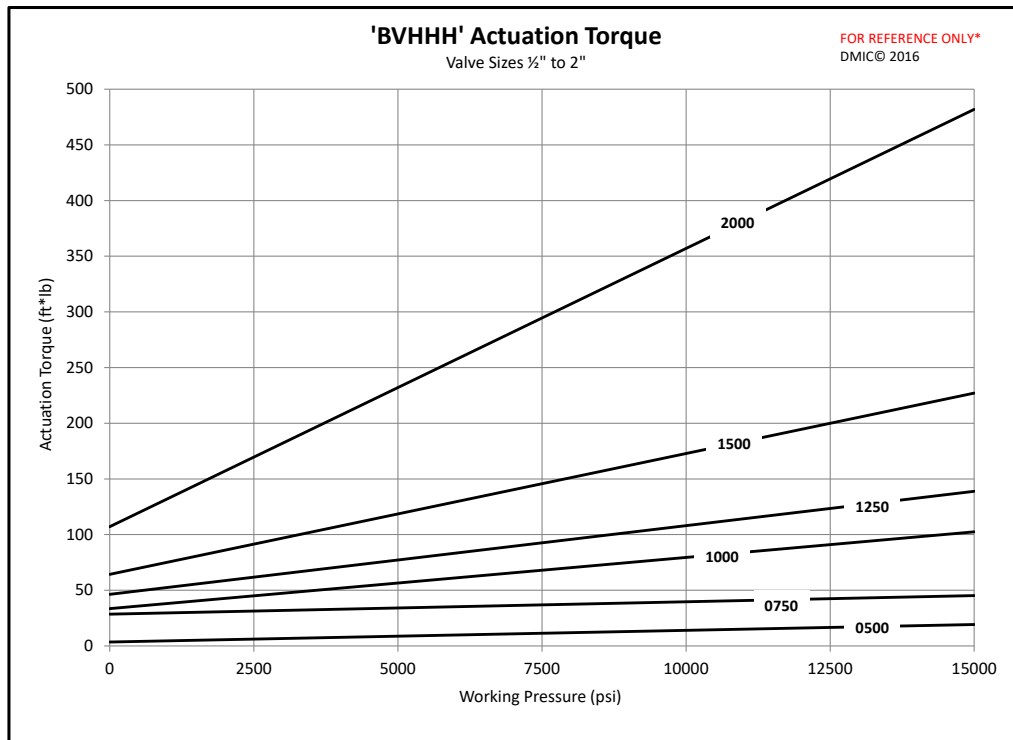
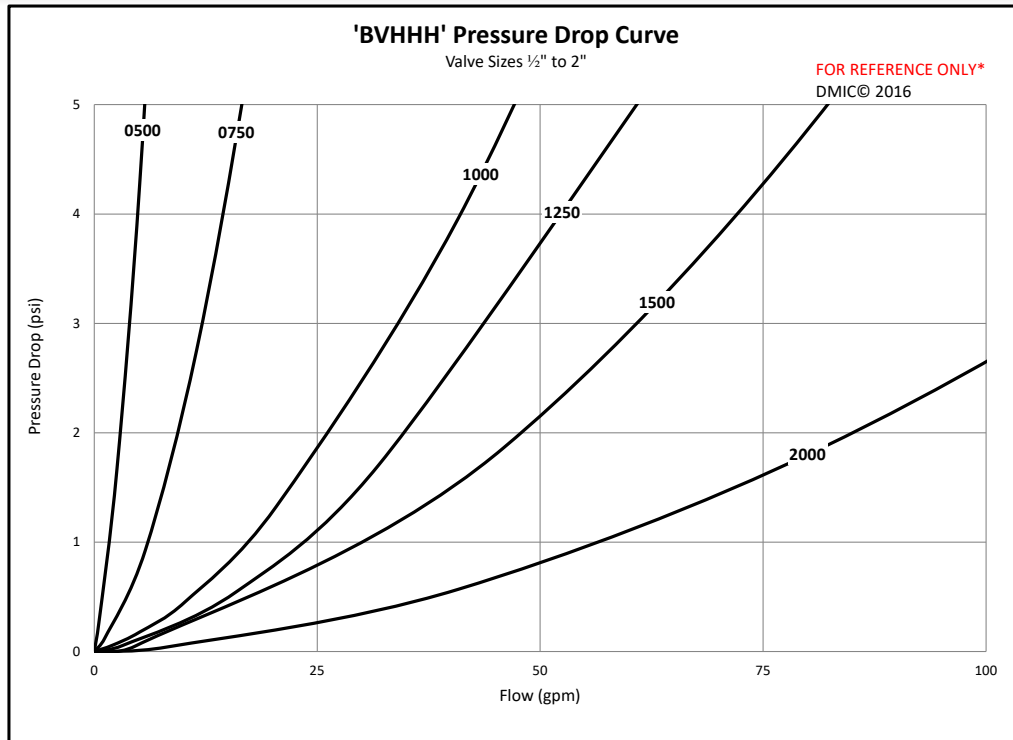
BVHHH	Ball Valve Dimensions (Threaded Connections Only)								
Port Code	Port Size	Valve Dimensions (in)							
		Valve Length A	Body Diameter B	Internal Bore C	Handle Length D	Overall Height E	Bottom to Center F	Center to Mounting Pad G	Bottom to Cap H
N Threaded Connection	½"	3.83	2.95	0.38	7.00	5.18	1.48	2.27	2.71
	¾"	Please Call DMIC At 1-800-248-DMIC							
	1"	5.69	4.47	0.88	9.86	7.43	2.24	3.32	4.24
	1¼"	Please Call DMIC At 1-800-248-DMIC							
	1½"								
	2"	8.25	7.20	1.50	12.00	10.26	3.60	4.96	6.86

N THREADED



BVHHH ULTIMATE PRESSURE 15,000 PSI

Flow Characteristic and Actuation Torque Curves



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CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



ISO 9001 CERTIFIED

BVQ/BVQG 6000 PSI

Raises every standard: thermal, quality, durability ; -20°F to 400°F
High Quality Stainless Steel Fluid & Gas Valves ½" to 6"



BVQ

- All 316 Stainless steel construction standard.
- Standard sizes range from ½"-6" bore; Call for sizes greater than 2" bore.
- Designed for demanding applications where high performance & quality are required
- 6,000 PSI with generous design factor to eliminate damage due to pressure spikes.
- Wide variety of bolted end connections ideal for heavy industrial applications.
- Isolated spindle allows for use of 316 spindle without metal-to-metal contact; ideal for applications requiring an actuator.
- Standard High Temperature Peek ball seals & Viton™ seals. Other materials available for full fluid compatibility range.

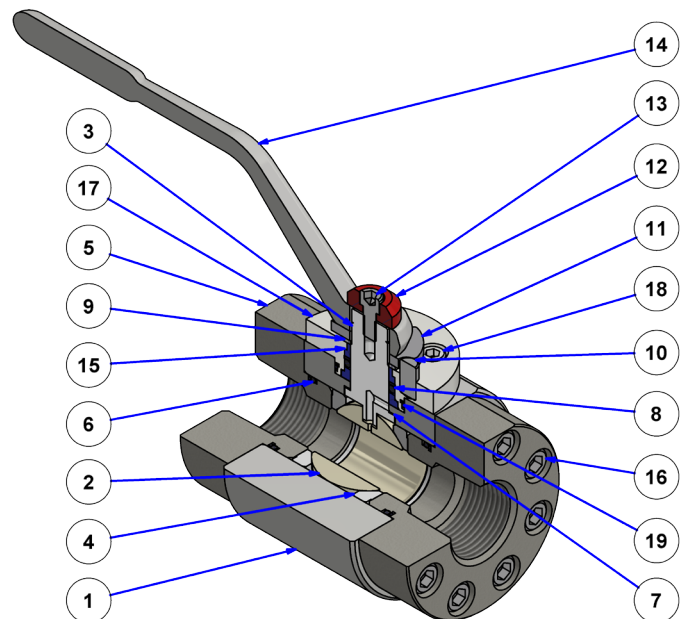
BVQG ~ Gas Applications

- Improved ball seals specially designed for gas applications.
- Special material coatings improves life expectancy in dry environment.
- Anti-Static Feature Standard
- Assembled with Krytox Grease

** Please note:* For valves larger than 2", large pressure differentials may make the valve difficult to open and the pressure balance may be required. Ask your DMIC sales Associate for more info!

Service Parts BOM

BVQ/G	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	2	End Connection(s)
6	2	End Connection O-Ring(s)
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
15	1	Spindle Bushing(s)
16	24*	End Connection Screws
17	1	Top Cap
18	4*	Top Cap Screws
19	1	Top Cap O-Ring(s)
*Quantity depends on size and Configuration		



BVQ/BVQG 6000 PSI

Ordering Codes Summary

Size Codes	
Code	Port Size
0500	½"
0750	¾"
1000	1"
1250	1 ¼"
1500	1 ½"
2000	2"
2500+	2 ½" - Call

**All sizes are reduced Bore please check dimensional chart.*

Call Factory for larger sizes 18"+

BVQ
or
BVQG

S

2

2

4

3

See page 14 for accessory codes

*

*

*

*

*

*

Connection Types

Imperial Threads

Code	Description
S	SAE ORB
N	NPT

Metric Threads

B	BSPP
---	------

ISO Threads

IU	ISO6149
----	---------

Welded

W*	Socket Weld
WB*	Butt Weld

Flanged

A*	ANSI Flanges
F*	SAE 4-Bolt UNC
G*	SAE 4-Bolt Metric
S*	SAE Split

Grayloc®

GR*	Grayloc® Hub
-----	--------------

O-Rings

Code	Description
1	Buna-N
2	EPR
3	Viton™
5	Chemraz™
6	Kalrez
7	Buna-3716 (Low Temp)

Seals, Bushings, Washers

Code	Description
1	Delrin™
4	High Temp Peek
6	Delrin™ AF (low Friction)

Ball & Spindle

Code	Description
2	Stainless Steel - 316
6	416 Stainless Spindle 316 Stainless Ball

Body & End Connections

Code	Description
1	Carbon Steel - ASTM A108
2	Stainless Steel - 316

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

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.



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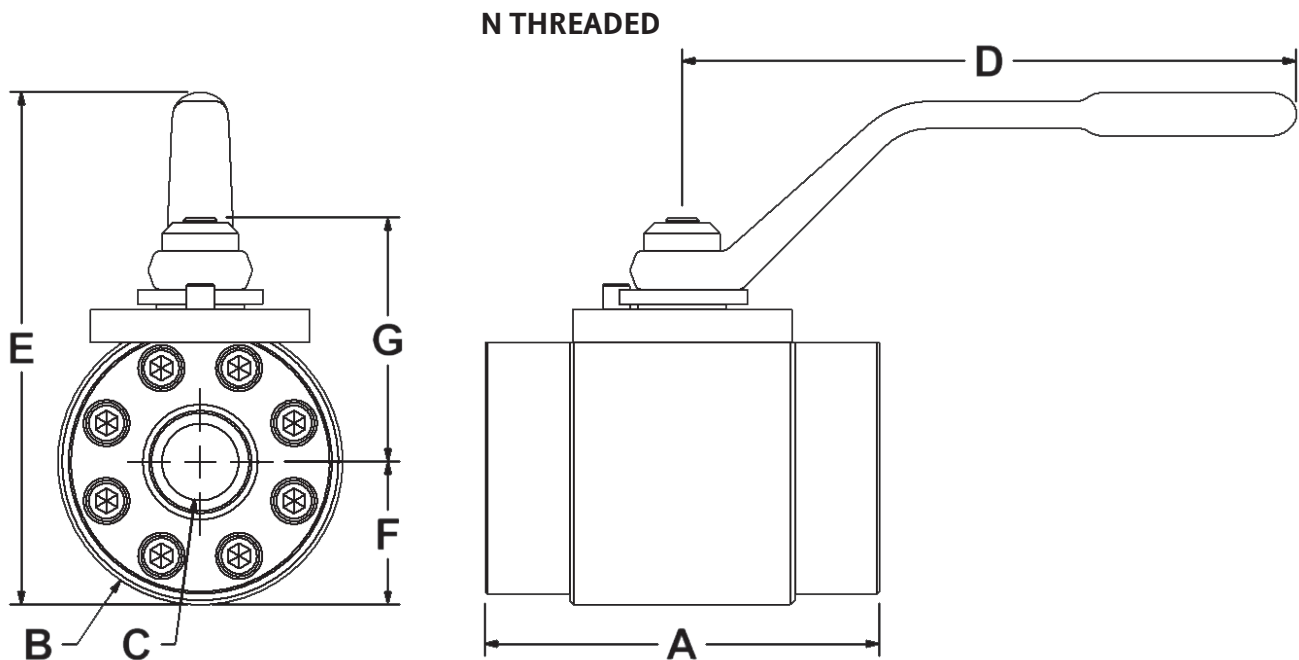
CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



ISO 9001 CERTIFIED

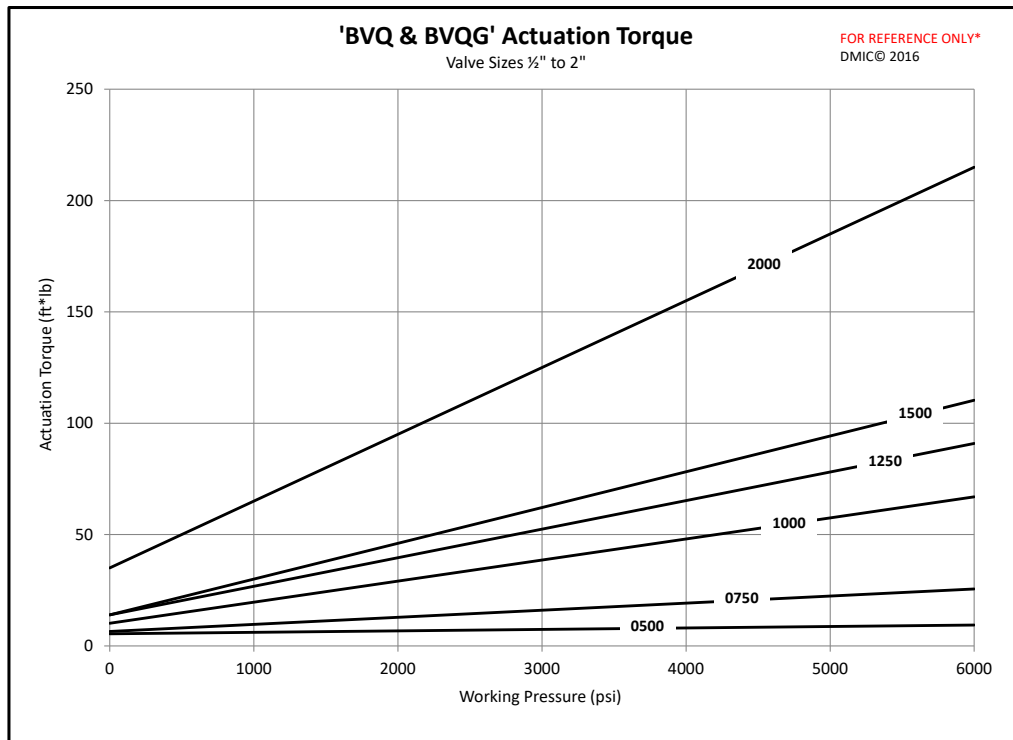
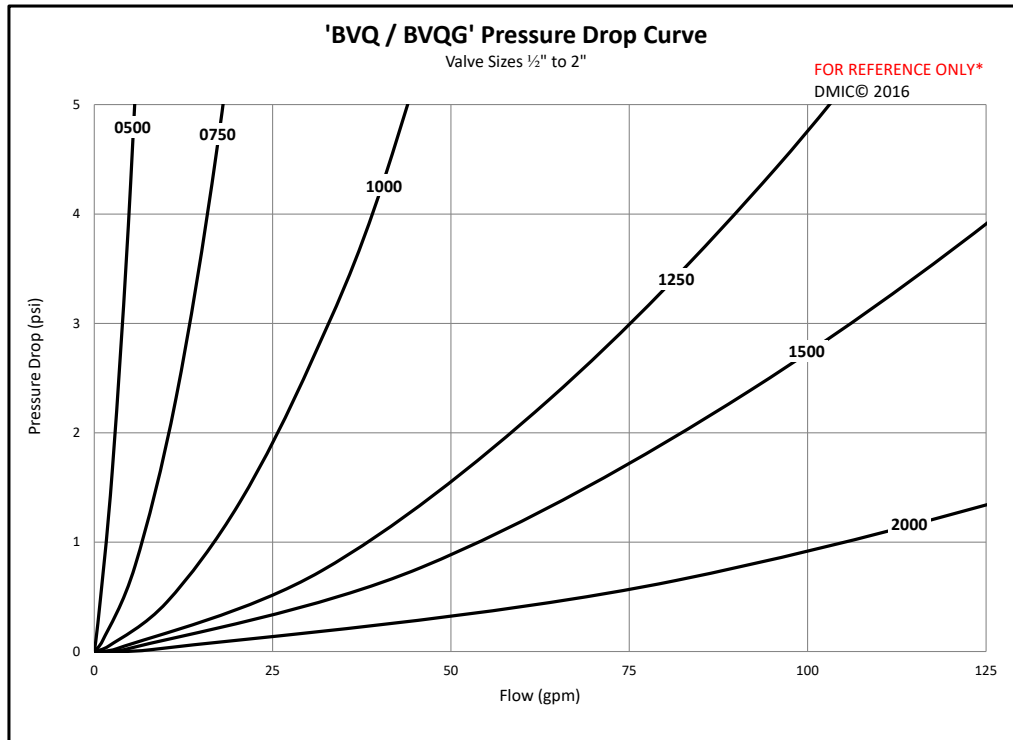
BVQ/BVQG 6000 PSI

BVQ/ BVQG	Port Size	Rated Pressure PSI	Dimensions						
			A Length	B Body Diameter	ØC Bore	D Handle Length	E Height	F Bottom to Center	G Center to Cap
For Threaded Connection Type									
BVQ-0500****	½"	6000	3.31	2.25	0.38	4.50	3.90	1.13	1.94
BVQ-0750****	¾"		4.35	2.75	0.56	7.00	5.35	1.25	2.67
BVQ-1000****	1"		4.60	3.25	0.81	7.00	5.83	1.63	2.77
BVQ-1250****	1¼"		5.27	4.22	1.10	9.86	7.49	2.11	3.51
BVQ-1500****	1½"		5.35	4.50	1.31	9.86	8.07	2.25	3.95
BVQ-2000****	2"		6.58	4.97	1.75	9.86	8.62	2.50	4.24



BVQ/BVQG 6000 PSI

Flow Characteristic and Actuation Torque Curves



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.



BVQW SUBSEA BALL VALVE

Subsea Ball Valve

High Quality Stainless Steel Fluid & Gas Valves ½" to 6"

BVQW ~ Subsea Applications

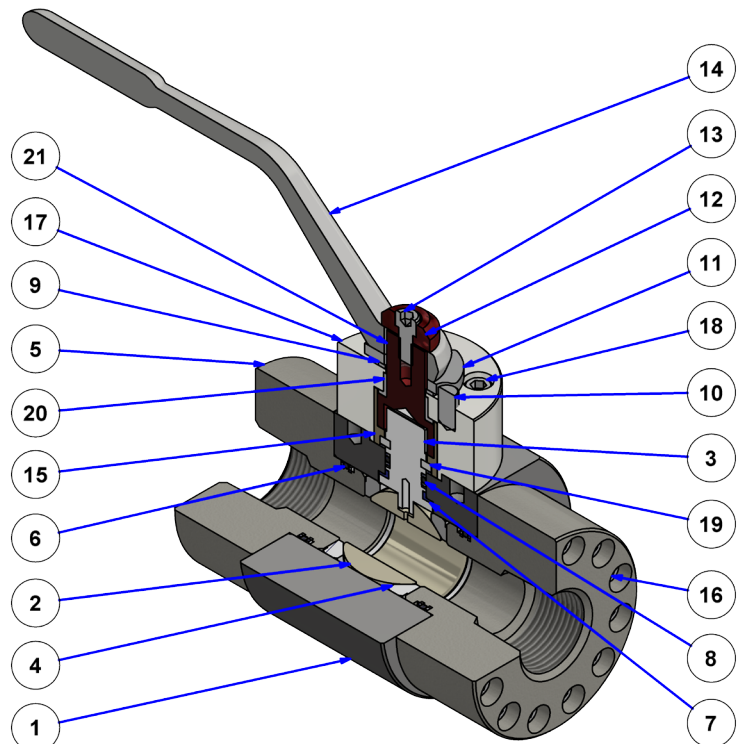


- DMIC's highest quality stainless steel ball valve for deep sea service up to 10,000ft deep
- Derived from DMIC's superior BVQ/BVQG high quality stainless steel valve series
- Standard sizes range from ½" - 6+", call for sizes greater than 2½"
- Available with Threaded, Welded, or API-Length ANSI Flanged end connections
- Isolated 316 Spindle increases durability, ideal for applications requiring an Actuator
- Suitable for sour gas service in compliance with NACE MR0175
- Ships standard with High-Temperature PEEK seals and Viton™ O-Rings. Higher temperature materials available upon request
- Inconel and Duplex stainless steel available upon request call factory

Service Parts BOM

BVQW	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	2	End Connection(s)
6	2	End Connection O-Ring(s)
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
15	1*	Spindle Bushing(s)
16	24*	End Connection Screws
17	1	Top Cap
18	4*	Top Cap Screws
19	1	Spindle Lock Ring
20	1	Upper Thrust Washer
21	1	Upper Spindle

*Quantity depends on size and configuration



BVQW SUBSEA BALL VALVE

Ordering Codes Summary

Size Codes	
Code	Port Size
0500	½"
0750	¾"
1000	1"
1250	1 ¼"
1500	1 ½"
2000	2"
2500+	2 ½"-Call

***All sizes are reduced Bore please check dimensional chart.**

Call Factory for larger sizes 18"+

BVQW

S

2

2

4

3

See page 14 for accessory codes

Connection Types

Imperial Threads

Code	Description
S	SAE ORB
N	NPT
MP	Medium Pressure Coned Port

Metric Threads

B	BSPP
---	------

ISO Threads

IU	ISO6149
----	---------

Welded

W*	Socket Weld
WB*	Butt Weld

Flanged

A*	ANSI Flanges
F*	SAE 4-Bolt UNC
G*	SAE 4-Bolt Metric
S*	SAE Split

O-Rings

Code	Description
1	Buna-N
2	EPR
3	Viton™ (std)
5	Chemraz™
6	Kalrez
7	Buna-3716 (Low Temp)

Seals, Bushings, Washers

Code	Description
1	Delrin™
4	High Temp Peek (std)
6	Delrin™ AF (low Friction)

Ball & Spindle

Code	Description
2	Stainless Steel - 316 (std)
9	Inconel 625
D	Duplex S.S - 2205

Body & End Connections

Code	Description
2	Stainless Steel - 316 (std)
9	Inconel 625
D	Duplex S.S - 2205

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

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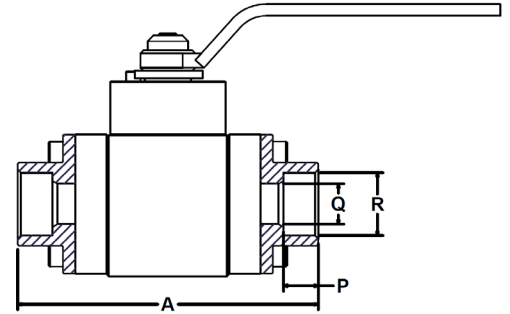
CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



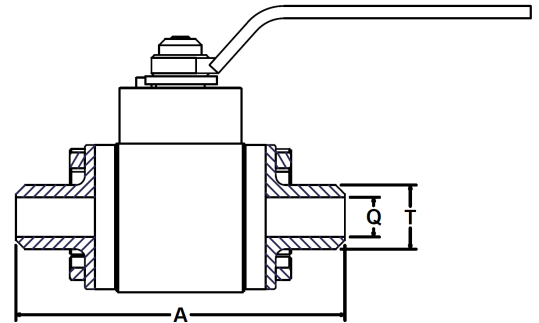
BVQW SUBSEA BALL VALVE

BVQW	Port Size							
		A Overall Length	B Body Diameter	ØC Bore	D Handle Length	E Height	F Bottom to Center	G Bottom to Cap
For Threaded Connection Type								
N S B IU MP	½"	3.75	2.50	0.50	4.53	4.76	1.13	3.14
	¾"	4.25	3.00	0.75	7.19	5.55	1.31	3.88
	1"	5.5	3.50	0.88	7.19	5.86	1.54	4.20
	1¼"	6.25	4.50	1.13	12.00	8.23	2.00	5.42
	1½"	7.00	4.97	1.31	12.00	8.88	2.49	6.06
	2"	7.25	5.50	1.75	12.00	9.44	2.75	6.62
Socket Weld Connections								
Port Code(s)	Port Size	A Overall Length	C Bore Size (Ball)	P Socket Depth	Q Connection Inside Diameter	R Inside Socket Outer Diameter		
W* *4-SCH 40 *8-SCH 80 *F-SCH 160 *G-XXS More Sizes Available Upon Request	½"	5.00	0.50	0.75	Based Upon Pipe Schedule	0.88		
	¾"	5.75	0.75	0.75		1.09		
	1"	6.50	0.88	0.75		1.36		
	1¼"	7.50	1.13	0.75		1.70		
	1½"	7.50	1.31	0.75		1.95		
	2"	8.75	1.75	1.00		2.50		
Fixed Butt-Weld Connections								
Port Code(s)	Port Size	A Overall Length	C Bore Size (Ball)	Q Connection Inside Diameter		T Weld Neck Outer Diameter		
WB* *4-SCH 40 *8-SCH 80 *F-SCH 160 *G-XXS More Sizes Available Upon Request	½"	5.25	0.50	Based Upon Pipe Schedule		0.84		
	¾"	6.25	0.75			1.05		
	1"	6.75	0.88			1.31		
	1¼"	8.75	1.13			1.66		
	1½"	9.50	1.31			1.91		
	2"	10.75	1.75			2.38		

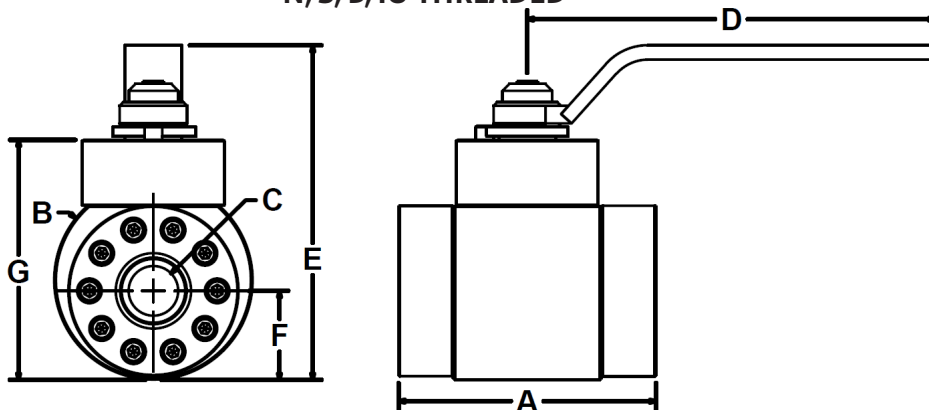
W(*) FIXED SOCKET WELD
(*) PIPE SCHEDULE CHARACTER



WB(*) FIXED BUTT WELD
(*) PIPE SCHEDULE CHARACTER



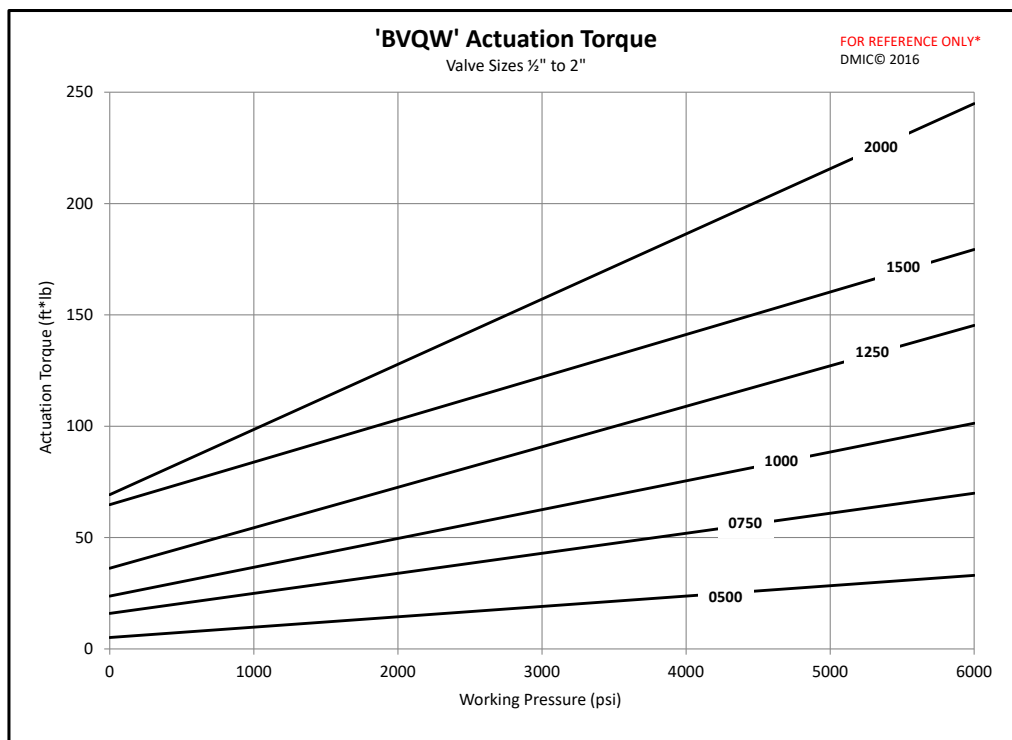
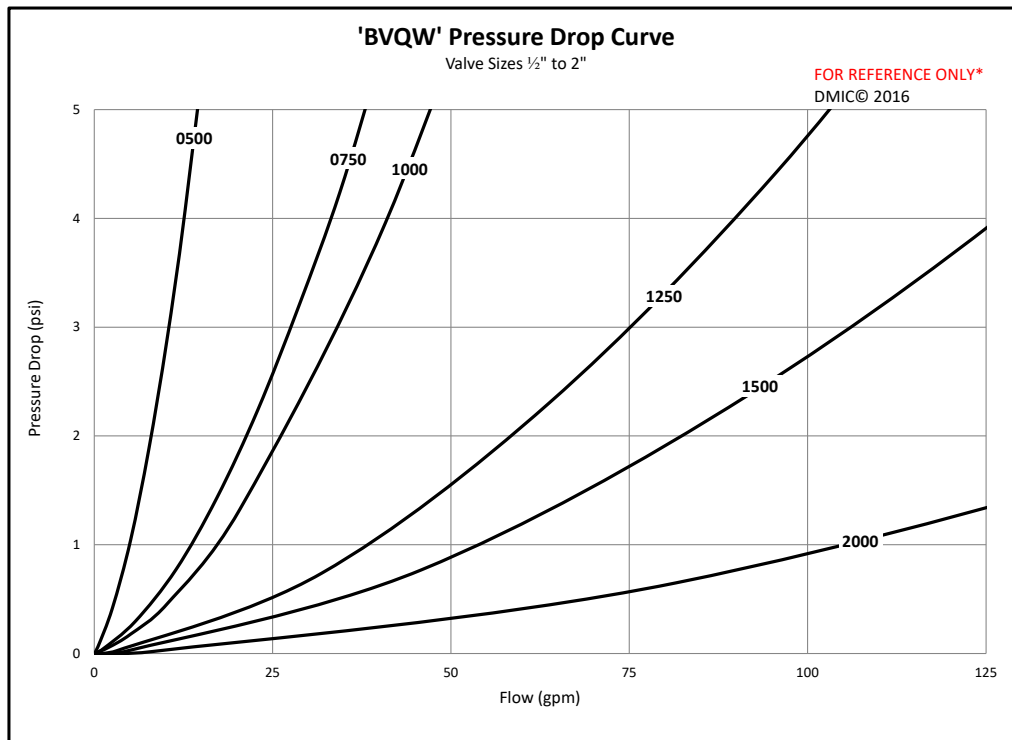
N, S, B, IU THREADED



****Larger sizes available upon request****

BVQW SUBSEA BALL VALVE

Flow Characteristic and Actuation Torque Curves



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.



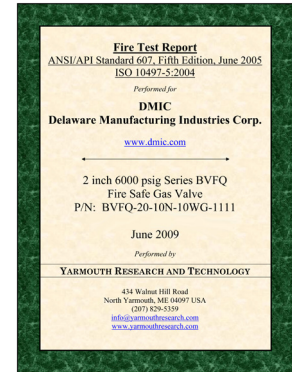
BVFQ/BVFQG

FireSafe 6000 PSI - Certified to API 607 5th Edition

DMIC BVFQ starts with the High Quality BVQ as a foundation. Then secondary sealing is added to attain the DMIC certified FireSafe Valve Series



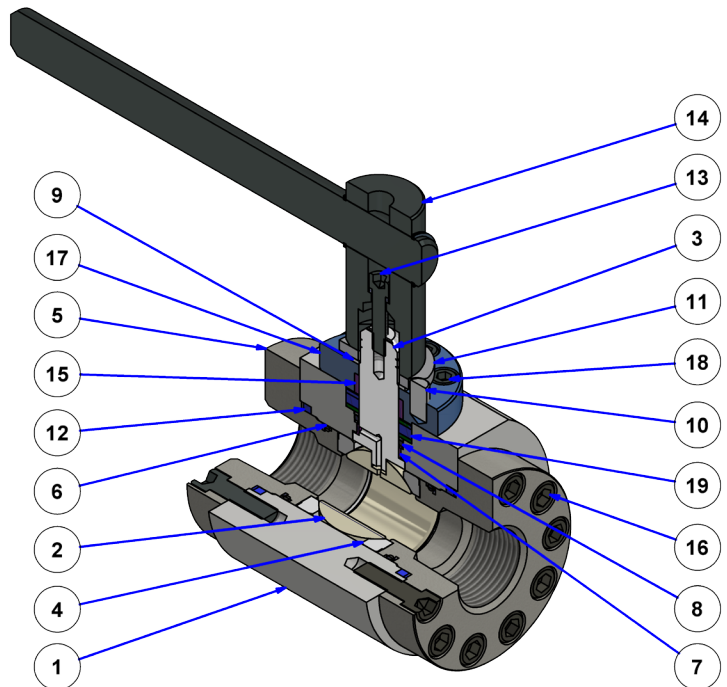
- Standard sizes range from ½" - 6" bore; Call for sizes greater than 2" bore.
- Designed for demanding applications where high performance & quality are required
- 6,000 PSI with generous design factor to eliminate damage due to pressure spikes.
- Wide variety of bolted end connections ideal for heavy industrial applications.
- Isolated spindle without metal-to-metal contact
- Secondary Sealing Material



Service Parts BOM

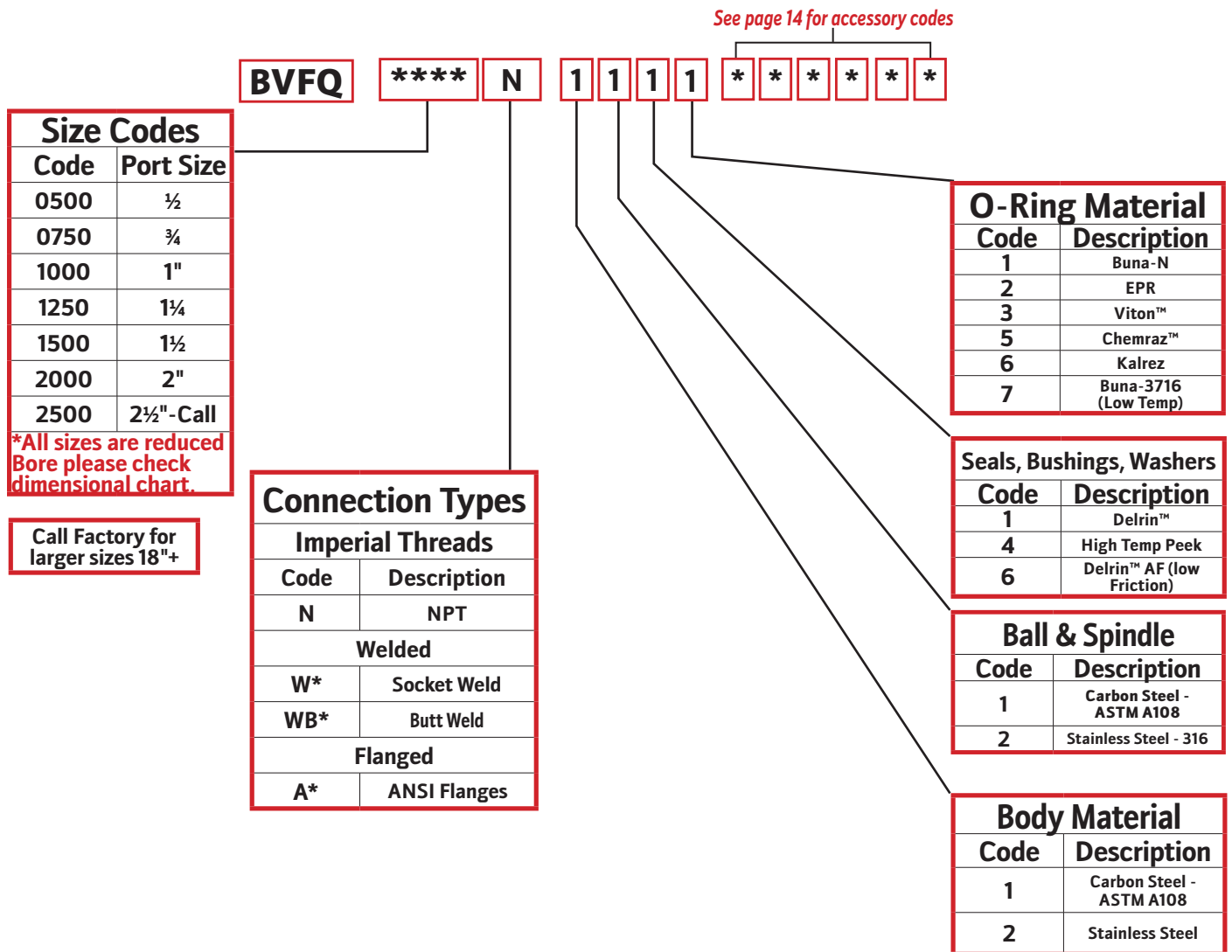
BVFQ/FQG	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	2	End Connection(s)
6	2	End Connection O-Ring(s)
7	1	Internal Thrust Washer
8	1	Spindle O-Ring(s)
9	1	External Glide Washer
10	1	Stop Pin
11	1	Stop Washer
12	1	Fire Safe Body Seal
13	1	Handle Screw
14	1	Handle
15	1	Spindle Bushing(s)
16	24*	End Connection Screws
17	8	Top Cap
18	4*	Top Cap Screws
19	1	Fire Safe Spindle Seal

*Quantity depends on size and configuration



BVFQ/BVFQG

Ordering Codes Summary



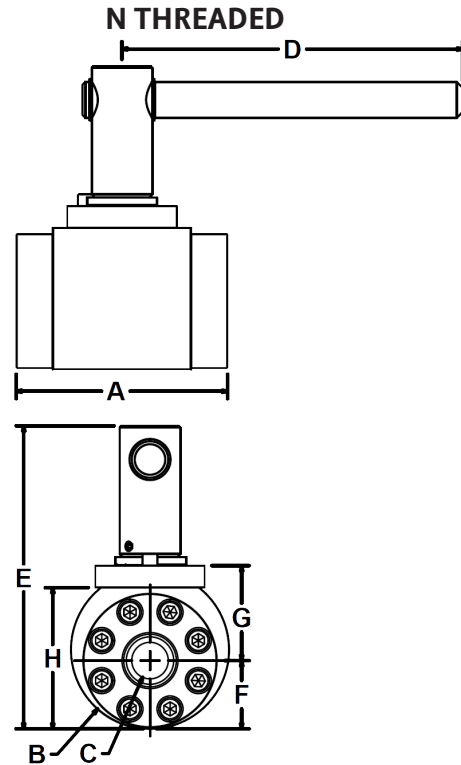
Note: Changes from Standard Materials result in changes to temperature and/or pressure rating.

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.

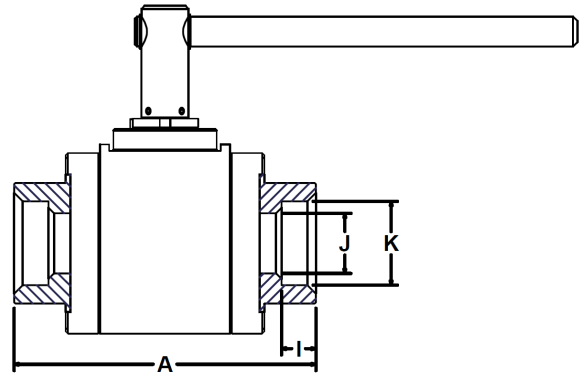


BVFQ/BVFQG

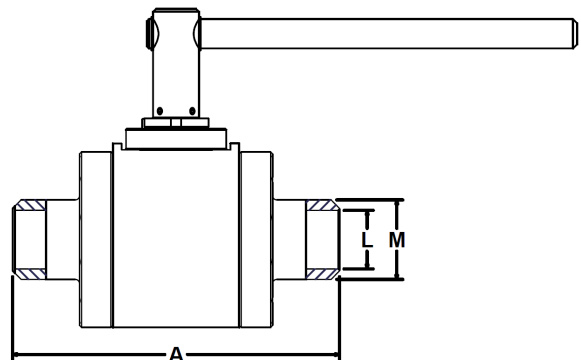
BVFQ/ BVFQG		Dependent Dimensions							
Threaded Connection									
Dimension (Inches)		A	B	C	D	E	F	G	H
Port Code(s)	Port Size	Overall Length	Body Width	Bore Size	Handle Length	Overall Height	Bottom to Center of Bore	Center of Bore to Top	Body Height
N Threaded Connections	½"	3.21	2.75	0.50	4.50	4.31	1.14	1.53	2.25
	¾"	4.34	3.25	0.75	7.00	6.27	1.40	1.95	2.90
	1"	4.33	3.50	0.88	7.00	6.58	1.54	2.12	3.21
	1¼"	4.75	4.25	1.13	10.00	7.59	1.91	2.49	3.90
	1½"	5.09	5.00	1.31	10.00	8.46	2.25	3.01	4.64
	2"	6.40	5.50	1.75	12.00	9.53	2.63	3.31	5.31
Socket Weld Connection									
Dimension (Inches)		A		I		J		K	
Port Code(s)	Port Size	Overall Length		Socket Depth		Connection Inside Diameter		Inside Socket Outer Diameter	
W* SCH.X Socket Weld End Connections	½"	5.50		0.75		DEPENDENT UPON PIPE SCHEDULE		0.88	
	¾"	9.25		0.75				1.09	
	1"	7.00		1.00				1.36	
	1¼"	7.50		1.00				1.70	
	1½"	8.09		1.00				1.95	
	2"	8.78		1.00				2.44	
Butt Weld Connection									
Dimension (Inches)		A			L			M	
Port Code(s)	Port Size	Overall Length			Connection Inside Diameter			Pipe Diameter	
WB* SCH.X Butt Weld End Connections	½"	Call Factory							
	¾"								
	1"								
	1¼"								
	1½"								
	2"								



W(*) FIXED SOCKET WELD
(*) PIPE SCHEDULE CHARACTER

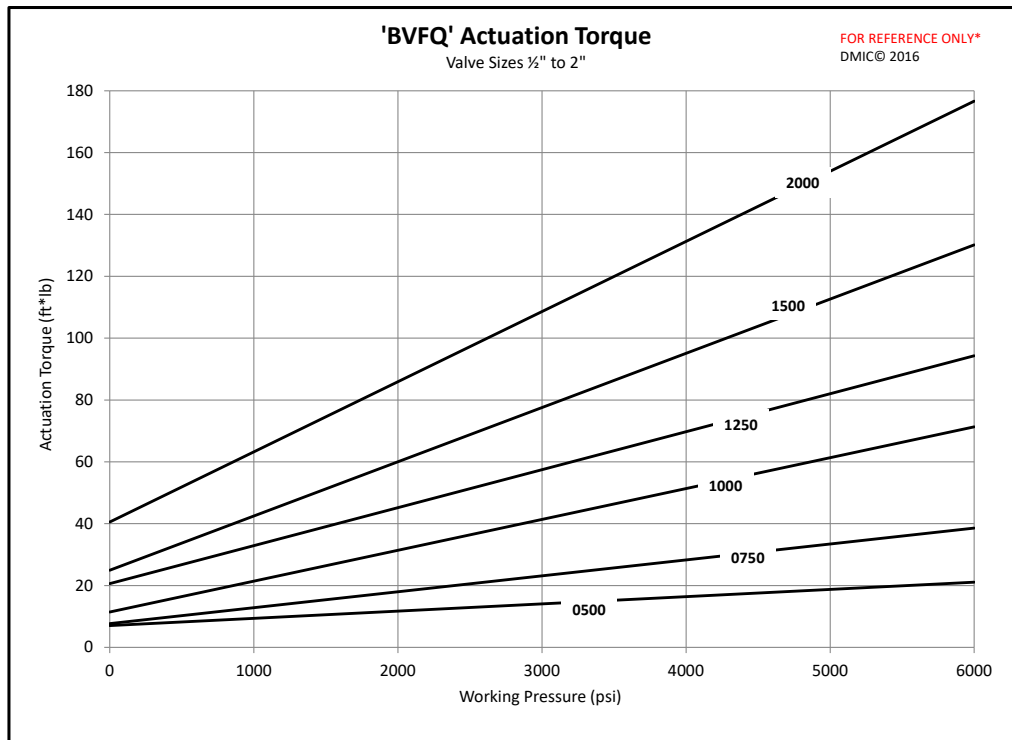
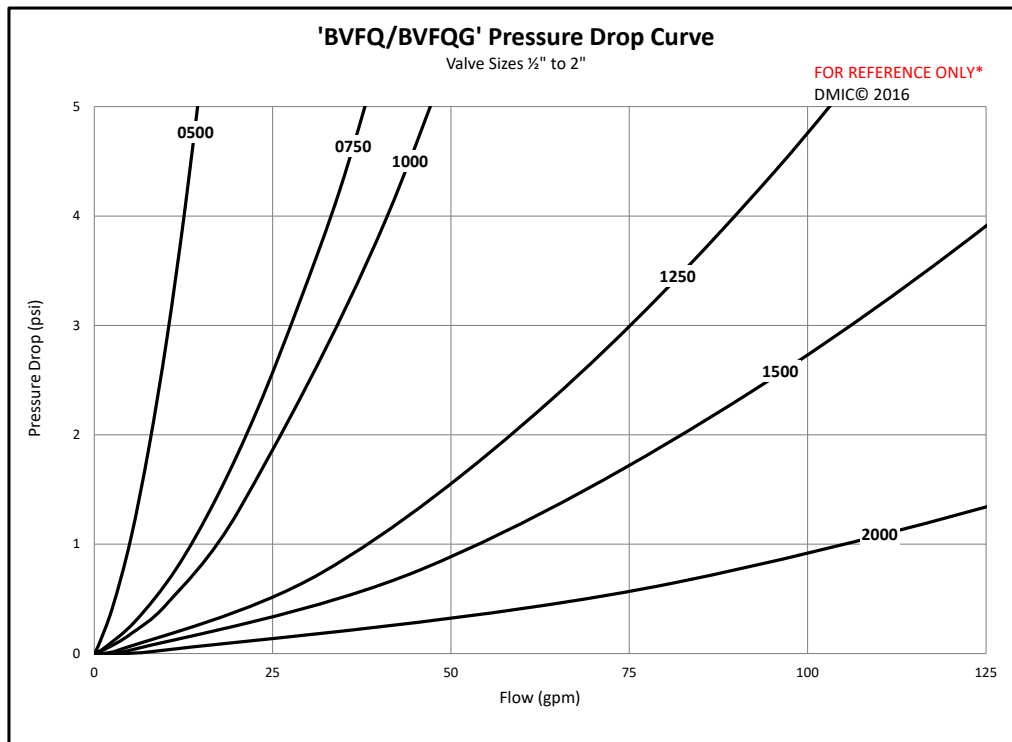


WB(*) FIXED BUTT WELD
(*) PIPE SCHEDULE CHARACTER



BVFQ/BVFQG

Flow Characteristic and Actuation Torque Curves



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.



BV3L/BV3LZ 600 PSI DIVERTER

Premium Quality 3-Way Aluminum Diverter Valve

Standard PTFE Ball Seals ; L-Bore ; Sizes from ¼" to 3"

Designed as an "L-Bore" Diverter ; Optional "Near Zero Leakage" BV3LZ model.



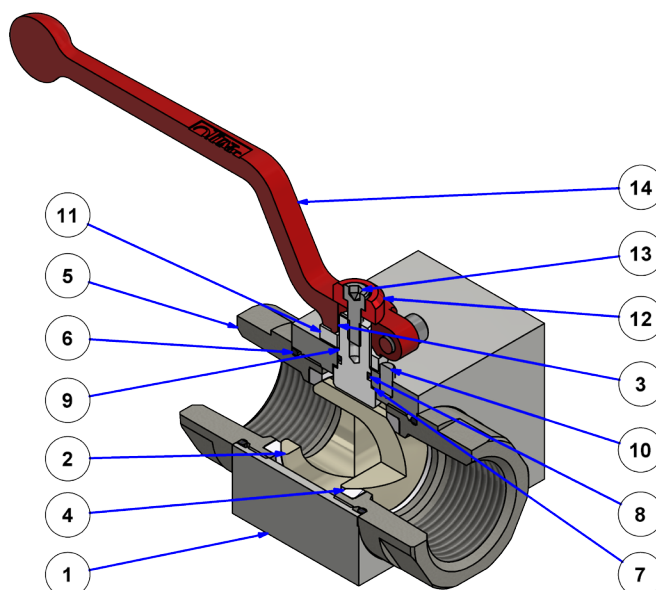
The **BV3L** is an economical U.S. made diverter valve for Filter Duplexing type applications where one input is directed to one of two outputs. Standard "L-Bore" ball with slight port overlap prevents upstream pressure spikes during phase change.

- Straight, non-spherical ball passage improves laminar flow
- Large "L-bore" standard ball porting for low Δp & improved Cv
- Engineered for reliable operation in hydraulic return line applications
- Derived from field-proven **BVAL** for 600 PSI service, Made in U.S.A.
- Standard with Teflon™ (PTFE) Ball Seals for wide fluid applicability
- Accepts full array of DMIC Pre-Engineered Accessories
- Fully serviceable o-ring sealed design, optional EPR for Skydrol systems
- ¼" to 2" rated at 600 PSI, 2½" + rated at 400 PSI.
- Valve series rating valid for near zero leak design.

Valve Cutaway View and Service Parts BOM

BV3L		SERVICE PARTS BOM
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	2*	End Connection(s)
6	2*	End Connection O-Ring(s)
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



BV3L/BV3LZ 600 PSI DIVERTER

Ordering Codes

See page 14 for accessory codes

BV3LZ
or
BV3L

**** S A 4 3 2 1 * * * * *

Size Codes	
Code	Port Size
0250	1/4"
0375	3/8"
0500	1/2"
0750	3/4"
1000	1"
1250	1 1/4"
1500	1 1/2"
2000	2"
2500	2 1/2"
3000	3"

Call Factory for larger sizes 18"+

¹Aluminum or Stainless Steel may be substituted for 2 1/2"+

Connection Types	
Imperial Threads	
Code	Description
S	SAE ORB
N	NPT
Metric Threads	
B	BSPP
ISO Threads	
IU	ISO6149
Welded	
W*	Socket Weld
Flanged	
A*	ANSI Flanges
F*	SAE 4-Bolt UNC
G*	SAE 4-Bolt Metric
S*	SAE Split

Ball Pattern	
Code	Description
A	L-Bore Diverter
C	T-Bore 90° Action
D	T-Bore 180° Action

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

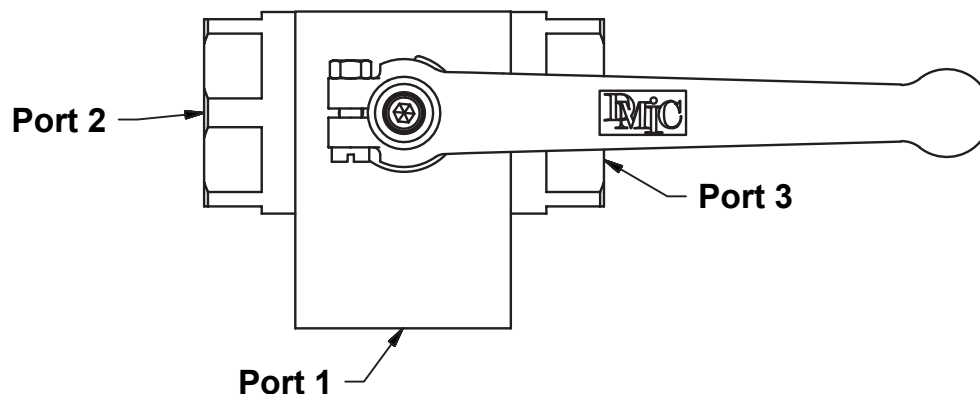
Ball Seal Material	
Code	Description
2	PTFE Teflon™

Ball & Spindle Mat'l	
Code	Description
3 ¹	Brass
2	Stainless Steel

Body Material	
Code	Description
4	Aluminum

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

Note: Please refer to page 10 for customizing valve port connections



Q: Can I use a Diverter Valve or do I need a True Multi-Way Valve?

A: The "BV3LZ" version of our diverter valve can take the place of a true multi way valve in many circuits.

Specifically, the question you must ask your application is: "Will pressure ever be applied at port 2 or 3 when the valve is blocked?"

If YES, you must use a "real" 3-way valve, or the "BV3LZ" model. If NO, a Diverter such as "BV3L" or "BV3D" is acceptable.

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.



BV3L/BV3LZ 600 PSI DIVERTER

**BV3L/
BV3LZ**

Dependent Dimensions

Threaded Connection

Dimension (Inches)	A	B
Port Code(s)	Port Size	Overall Length
N S B IU	¼"	2.64
	⅜"	2.64
	½"	2.64
	¾"	3.27
	1"	3.47
Threaded Connections	1¼"	3.89
	1½"	4.31
	2"	4.90

SAE 4-Bolt Flange Connection

Dimension (inches)	A _{FM}	A _{FL}	B _{FM}	B _{FL}
Port Code(s)	Port Size	Overall Length	Width Port 1	Width Port 1
FM/GM FL SAE 4-Bolt Comp/Std Flange Connections	¾"	7.59	8.84	4.64
	1"	7.80	9.04	5.52
	1¼"	8.46	9.71	6.39
	1½"	8.88	9.88	6.44
	2"	9.47	11.22	7.29

SAE Split Flange Connection

Dimension (inches)	A	B
Port Code(s)	Port Size	Overall Length
SM SAE Split Flange Connections	¾"	8.14
	1"	8.26
	1¼"	9.32
	1½"	9.76
	2"	10.85

ANSI & DIN Flange Connection

Dimension (inches)	A	B
Port Code(s)	Port Size	Overall Length
AA / D* ANSI & DIN Flange	1"	Because BV3L is a low pressure valve, DMIC offers only ANSI Class 150 as a BV3L option. Please contact DMIC for a certified print.
	1¼"	
	1½"	
	2"	

Swivel Socket Weld Connection

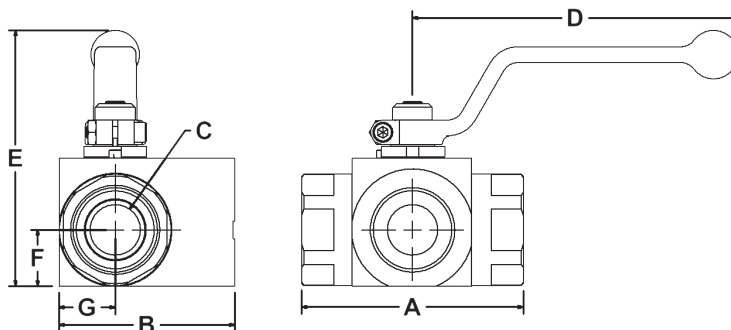
Dimension (inches)	A	B
Port Code(s)	Port Size	Overall Length
W4 Socket Weld Connections	¾"	5.84
	1"	6.04
	1¼"	6.71
	1½"	7.13
	2"	7.72

**BV3L/
BV3LZ**

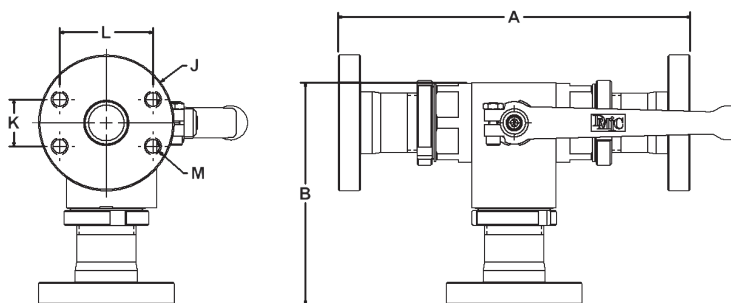
Common Dimensions

Part Number	Port Size	Rated Pressure PSI	Dimensions IN				
			C Valve Bore	D Handle Length	E Overall Height	F Bot to Port Ctr	G Back of Body to Center of Port
BV3L-0250****	¼"	600	0.38	3.35	2.70	0.63	0.63
BV3LZ-0250****	¼"						
BV3L-0375****	⅜"		0.44	3.35	2.70	0.63	0.63
BV3LZ-0375****	⅜"						
BV3L-0500****	½"		0.44	3.35	2.70	0.63	0.63
BV3LZ-0500****	½"						
BV3L-0750****	¾"		0.67	5.09	3.76	0.76	0.81
BV3LZ-0750****	¾"						
BV3L-1000****	1"		0.79	5.09	4.01	0.88	0.88
BV3LZ-1000****	1"						
BV3L-1250****	1¼"		1.06	6.81	5.59	1.53	1.28
BV3LZ-1250****	1¼"						
BV3L-1500****	1½"		1.34	6.81	6.27	2.00	1.48
BV3LZ-1500****	1½"						
BV3L-2000****	2"		1.69	6.81	6.91	2.31	1.74
BV3LZ-2000****	2"						

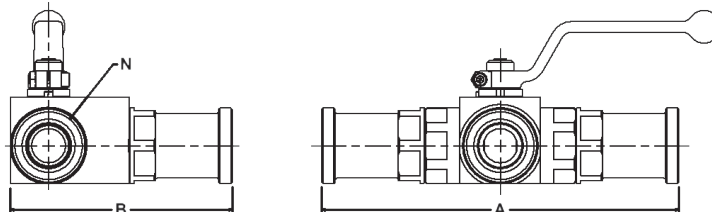
N, S, B, IU THREADED



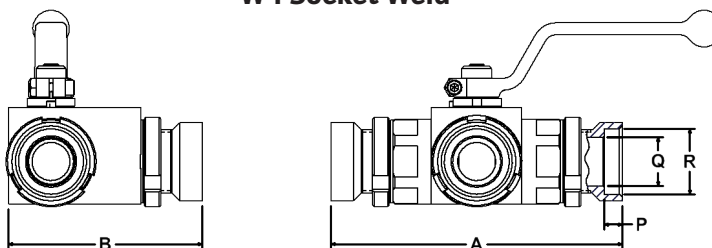
FM/GM/FL SAE 4 BOLT FLANGE (COMP & STD)



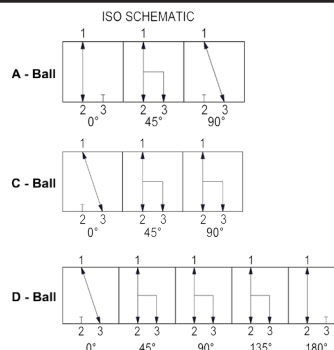
SM SAE SPLIT FLANGE HEAD



W4 Socket Weld

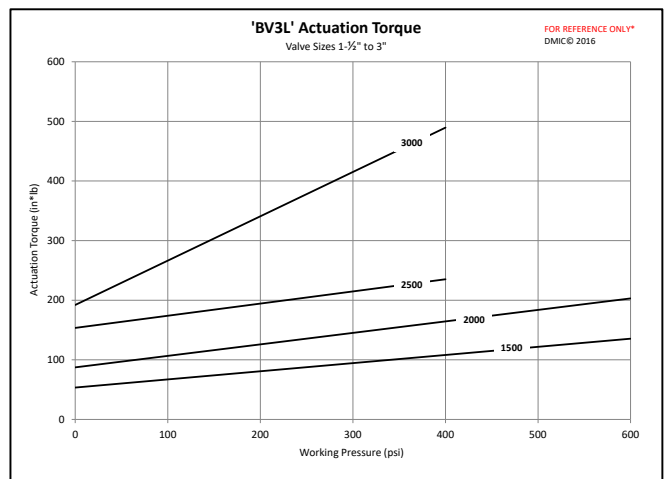
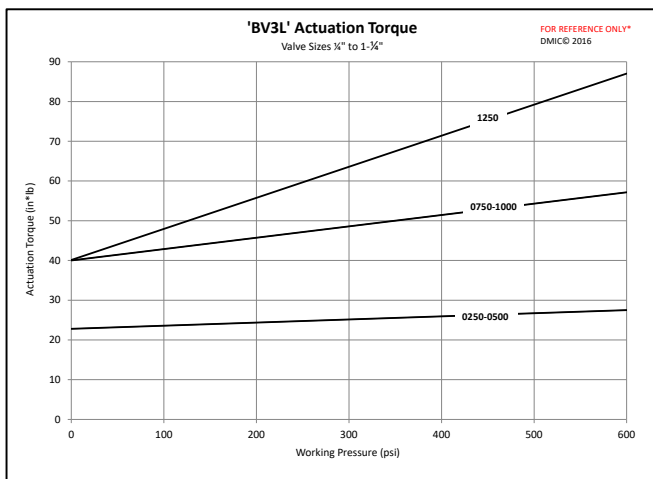
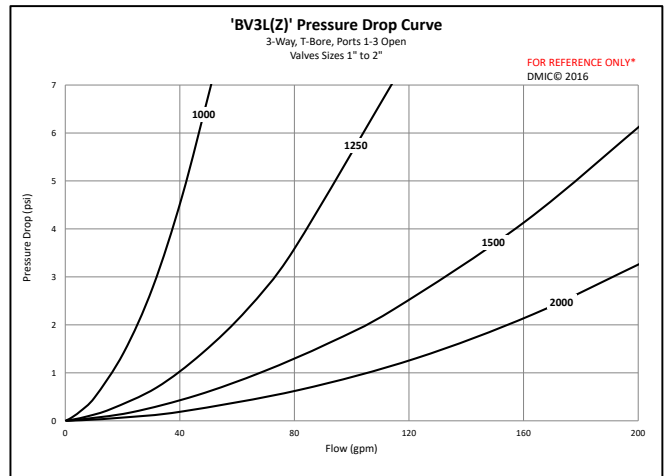
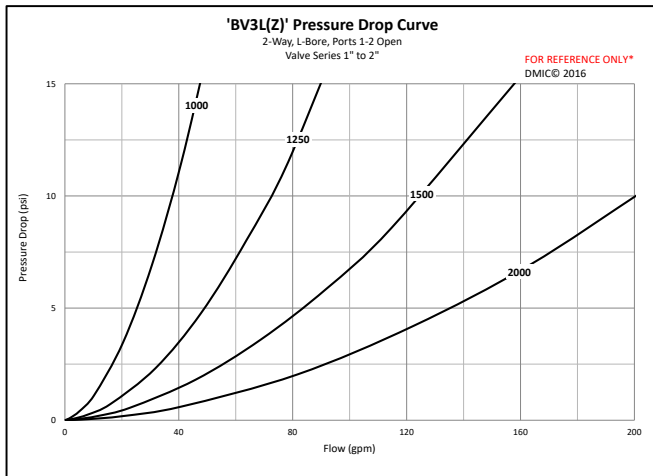
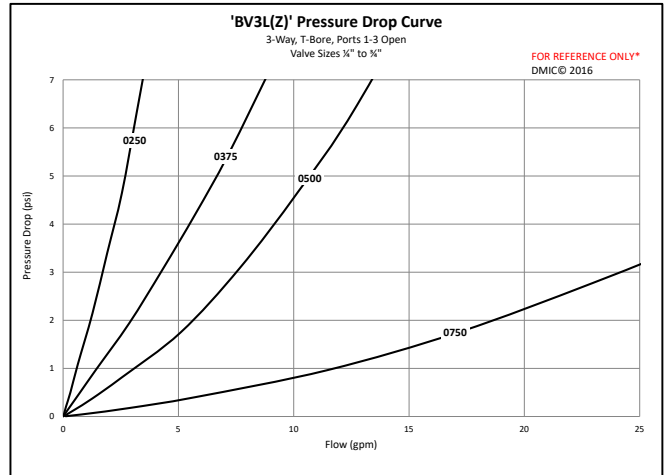
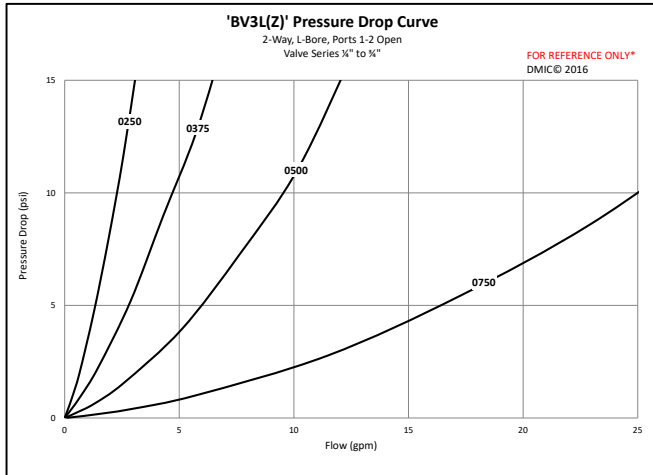


BV3LZ & BV3L for 600 PSI Ball Pattern Schematic



BV3L/BV3LZ 600 PSI DIVERTER

Flow Characteristic and Actuation Torque Curves



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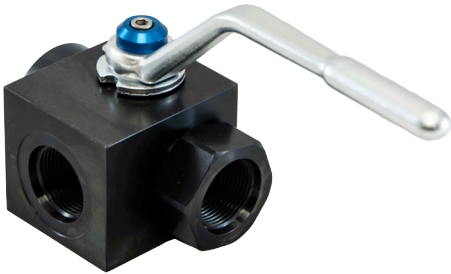
CALL TOLL FREE 1-800-248-3642
IN CANADA 1-800-320-3642



ISO 9001 CERTIFIED

BV3D/BV3DZ STEEL DIVERTER

The smart alternative to "converted 2-way" diverters
Rated for 3000 PSI ~ Sizes from ¼" to 2" NPT/SAE/BSP
Designed as an "L-Bore" Diverter

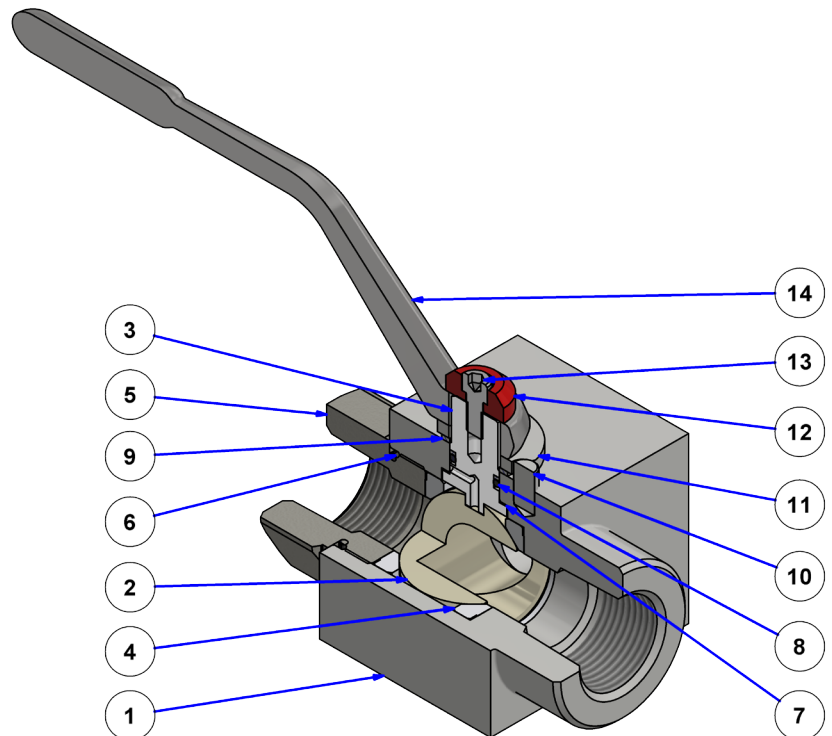


The genuine DMIC **BV3D** is a 3-way, "L-bore" diverter derived from the DMIC **BVH**. DMIC's newest high-end CNC equipment and advancements in manufacturing tolerance control allow the **BV3D** to satisfy many 3-way applications, providing a cost savings relative to a true 3-way valve. Consult DMIC Engineering for more information.

- Stocked with "L-Bore" standard ball; special "T-Bore" option available
- Slight port overlap prevents surprise upstream blowouts during shifting
- **DMIC's Innovative Spindle-Glide™** Design reduces actuation torque & increases valve longevity, especially under actuation
- **Every size can be Panel & Substrate Mounted**
- **Optional Skydrol, High Temp, Near Zero leakage configurations**

Service Parts BOM

BV3D/ BV3DZ	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	2*	End Connection(s)
6	2*	End Connection O-Ring(s)
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		



BV3D/BV3DZ STEEL DIVERTER

Ordering Codes Summary

See page 14 for accessory codes

BV3DZ
or
BV3D

**** S A 1 1 1 1 * * * * *

Size Codes

Code	Port Size
0250	1/4"
0375	3/8"
0500	1/2"
0750	3/4"
1000	1"
1250	1 1/4"
1500	1 1/2"
2000	2"

Call Factory for larger sizes 18"+

Connection Types

Code	Description
S	SAE ORB
N	NPT
MJ	JIC-Male
B	BSPP-special
T	BSPT (Tapered Pipe)

SAE Flange Conn

Code	Description
FM	SAE C61 Comp UNC
GM	SAE C61 Comp Metric
SM	SAE C61 Split Flg Head
FL	SAE C61 Std UNC/Metric

Please see page 9 for complete connection availability matrix

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
6	Delrin™ AF (low Friction)

Ball & Spindle Mat'l

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

Ball Pattern

Code	Description
A	L-Bore Diverter
C	T-Bore 90° Action
D	T-Bore 180° Action

Body Material

Code	Description
1	Carbon Steel
2	Stainless Steel

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

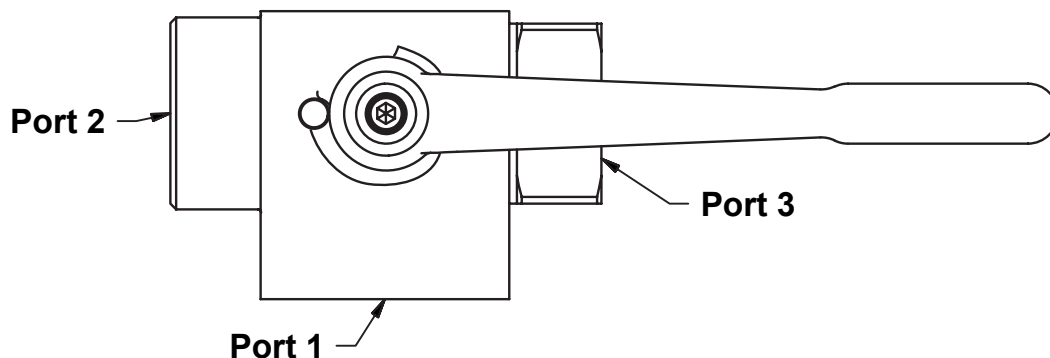
Note: Please refer to page 10 for customizing valve port connections

Q: Can I use a Diverter Valve or do I need a True Multi-Way Valve?

A: The "BV3DZ" version of our diverter valve can take the place of a true multi way valve in many circuits.

Specifically, the question you must ask your application is: "Will pressure ever be applied at port 2 or 3 when the valve is blocked?"

If YES, you must use a "real" 3-way valve, or the "BV3DZ" model. If NO, a Diverter such as "BV3D" or "BV3L" is acceptable.



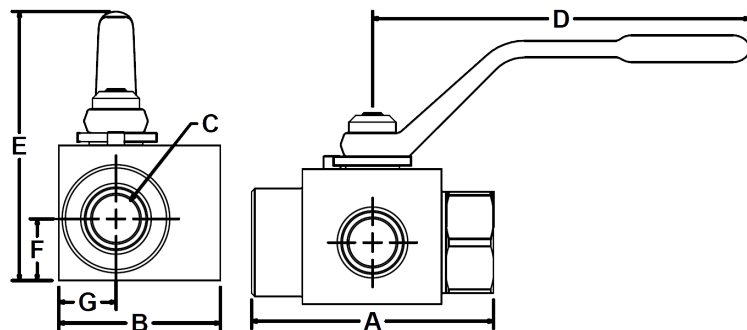
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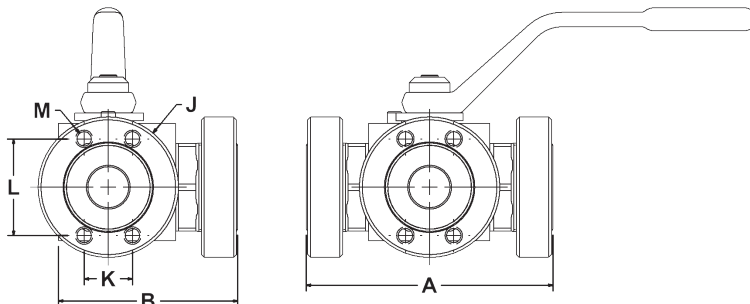
BV3D/BV3DZ STEEL DIVERTER

BV3D/ BV3DZ		Dependent Dimensions			
Threaded Connection					
Dimension (Inches)		A	B		
Port Code(s)	Port Size	Overall Length	Width Port 1		
N S B IU Threaded Connections	¼"	2.74	2.00		
	⅜"	2.87	2.09		
	½"	3.36	2.00		
	¾"	3.82	2.75		
	1"	4.49	3.00		
	1¼"	4.85	3.97		
	1½"	5.33	4.17		
2"	6.54	5.00			
SAE 4-Bolt Flange Connection					
Dimension (inches)		A	B		
Port Code(s)	Port Size	Overall Length	Width Port 1		
FM/GM SAE 4-Bolt Comp Flange Connections	½"	4.26	2.81		
	¾"	4.77	3.42		
	1"	5.27	3.83		
	1¼"	6.90	5.77		
	1½"	7.09	6.04		
	2"	8.06	7.04		
SAE Split Flange Connection					
Dimension (inches)		A	B		
Port Code(s)	Port Size	Overall Length	Width Port 1		
SM SAE Split Connections	½"	5.96	3.66		
	¾"	6.38	4.22		
	1"	6.98	4.69		
	1¼"	7.50	6.07		
	1½"	9.09	7.04		
	2"	9.10	7.56		
ANSI & DIN Flange Connection					
Dimension (inches)		-	-	-	-
Port Code(s)	Port Size	Please call Factory to request a Certified Print.			
A*	¾"				
	1"				
D*	1¼"				
	1½"				
ANSI & DIN Flange Conn	2"				
Swivel Socket Weld Connection					
Dimension (inches)		A	B	-	-
Port Code(s)	Port Size	Overall Length	Width Port 1	Socket Depth	Socket Diameter
W4 Socket Weld Connections	½"	6.26	3.81	0.75	0.88
	¾"	7.46	4.76	0.75	1.09
	1"	7.67	5.03	1.00	1.36
	1¼"	8.40	6.52	1.00	1.69
	1½"	9.47	7.23	1.00	1.95
	2"	10.60	8.31	1.00	2.44

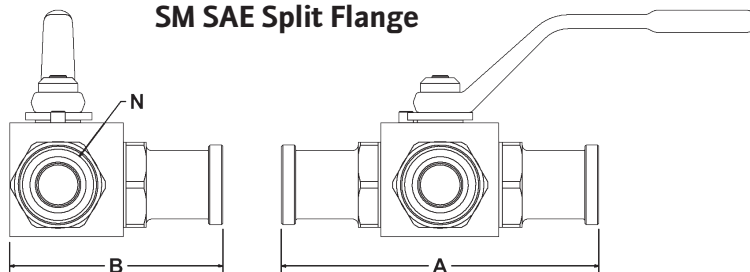
N, S, B, IU THREADED



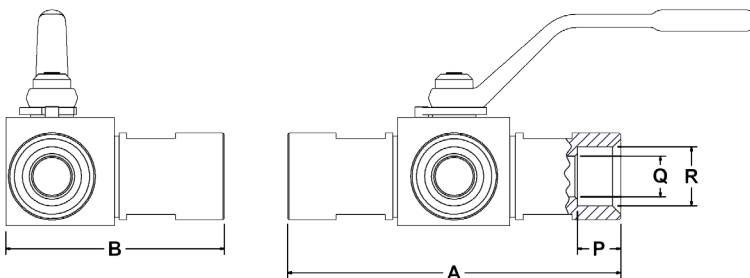
FM/GM SAE 4-Bolt Flange



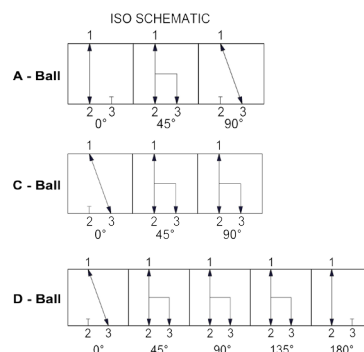
SM SAE Split Flange



W4 Socket Weld Connection



BV3DZ & BV3D Steel Diverter Ball Pattern Schematic



BV3D/ BV3DZ		Common Dimensions					
Part Number	Port Size	Rated Pressure PSI	Dimensions (inches)				
			Valve Bore C	Handle Length D	Overall Height E	Bot To Port Ctr F	Back of body to center G
BV3D-0250****	1/4"	3000	0.25	4.50	3.00	0.61	0.60
BV3DZ-0250****	1/4"						
BV3D-0375****	3/8"		0.31	4.50	3.12	0.64	0.60
BV3DZ-0375****	3/8"						
BV3D-0500****	1/2"		0.44	4.50	3.25	0.73	0.70
BV3DZ-0500****	1/2"						
BV3D-0750****	3/4"		0.69	7.00	4.72	1.00	0.94
BV3DZ-0750****	3/4"						
BV3D-1000****	1"		0.88	7.00	4.97	1.14	1.06
BV3DZ-1000****	1"						
BV3D-1250****	1 1/4"		1.13	9.86	6.70	1.69	1.58
BV3DZ-1250****	1 1/4"						
BV3D-1500****	1 1/2"		1.38	9.86	6.70	1.50	1.63
BV3DZ-1500****	1 1/2"						
BV3D-2000****	2"		1.75	9.86	7.70	2.21	2.00
BV3DZ-2000****	2"						



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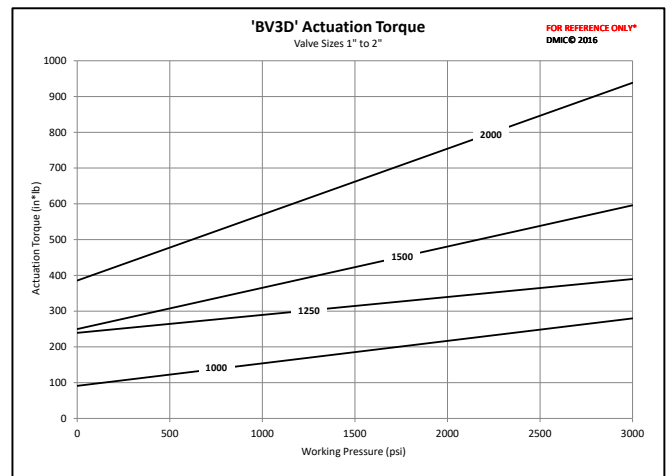
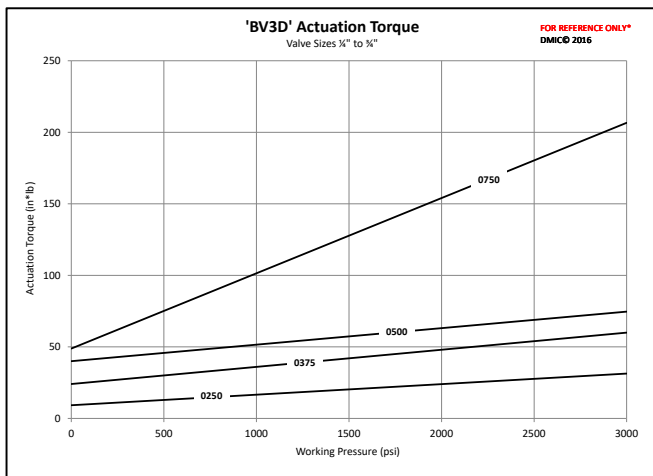
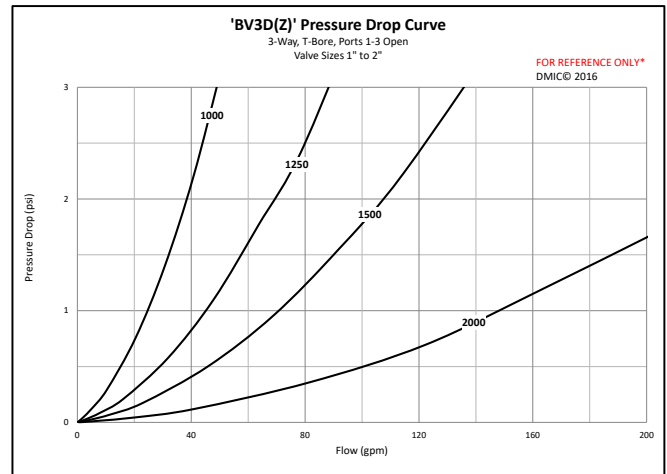
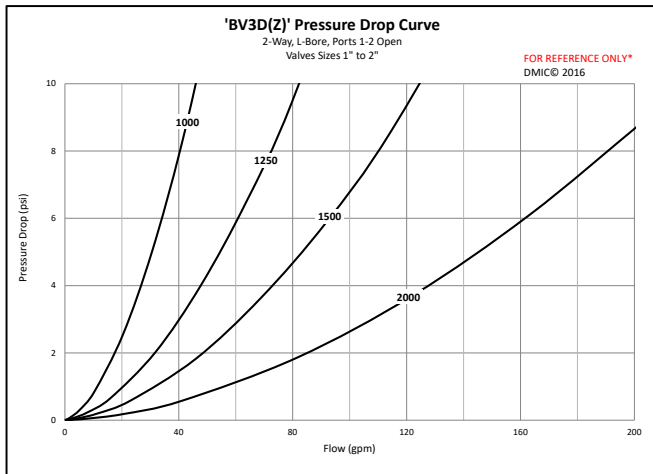
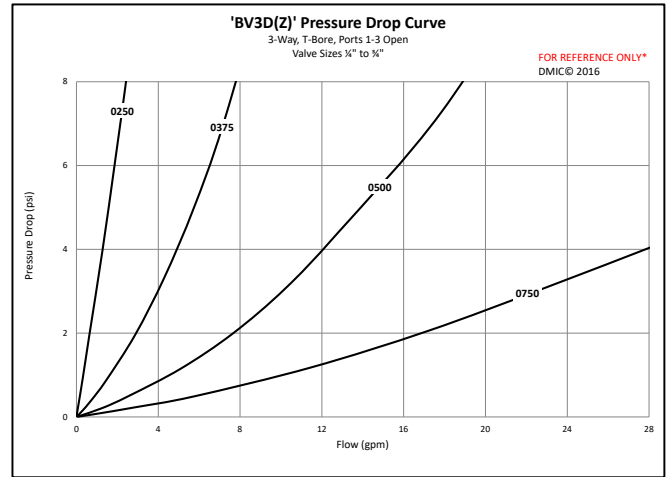
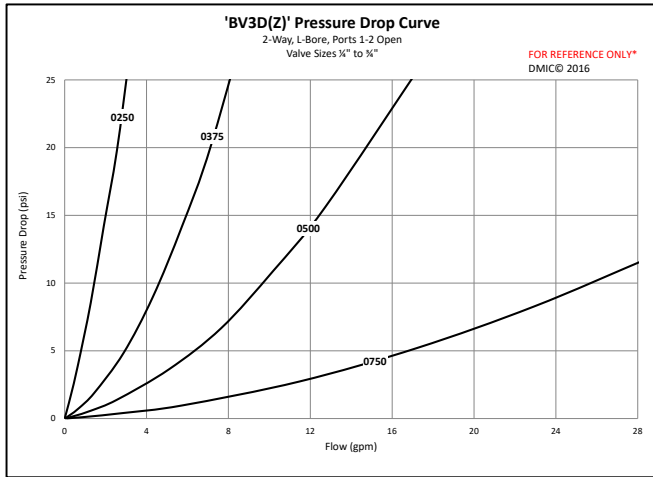
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ISO 9001 CERTIFIED

BV3D/BV3DZ STEEL DIVERTER

Flow Characteristic and Actuation Torque Curves



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CALL TOLL FREE 1-800-248-3642
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ISO 9001 CERTIFIED

BV3V 5,000 PSI DIVERTER

Rated for 5000 PSI ~ Sizes from ¼" to 2" NPT/SAE/BSP
Designed as an inverse "T-Bore" Diverter for straight flow normal operation



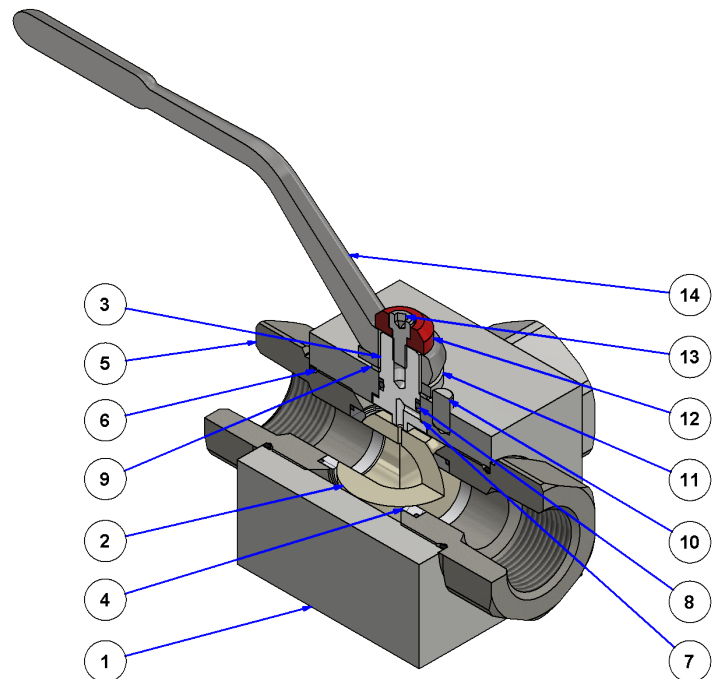
The DMIC **BV3V** is a 3-way, "inverse T-Bore" diverter derived from the DMIC **BV3D**. DMIC's newest high-end CNC equipment and advancements in manufacturing tolerance control allow the **BV3V** to satisfy many normal 2-way with 3 way divert option. Consult DMIC Engineering for more information.

- Similar to BV3D, but offers a straight flow path for normal operation
- Can be used as a compact 2-way ball valve with test point outlet
- Standard DMIC Blow-out proof stem design
- Ordering codes similar to BV3D line
- Standard reduced Bore design
- Zero leakage design is a standard

Service Parts BOM

BV3V	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	3*	Ball Seal
5	3*	End Connection(s)
6	3*	End Connection O-Ring(s)
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



BV3V 5,000 PSI DIVERTER

Ordering Codes Summary

Size Codes

Code	Port Size
0250	1/4"
0375	3/8"
0500	1/2"
0750	3/4"
1000	1"
1250	1 1/4"
1500	1 1/2"
2000	2"

Call Factory for larger sizes 18"+

Connection Types

Imperial Threads		Metric Threads		ISO Threads	
Code	Description	Code	Description	Code	Description
S	SAE ORB	B	BSPP-special	IU	ISO6149
N	NPT	T	BSPT (Tapered Pipe)	-	-
MJ	JIC-Male				

Please see page 11 for complete connection availability matrix

SAE Flange Conn

SAE 4-Bolt Companion		SAE Split Flanges		SAE 4 Bolt Standard	
Code	Description	Code	Description	Code	Description
FM	SAE C61 Comp UNC	SM	SAE C61 Split Flg Head	FL	SAE C61 Std UNC/Metric
FH	SAE C62 Comp UNC	SH	SAE C62 Split Flg Head	FK	SAE C62 Std UNC/Metric
GM	SAE C61 Comp Metric				
GH	SAE C62 Comp Metric				

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	Peek
6	Delrin™ AF (low Friction)

Ball & Spindle Mat'l

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

Body Material

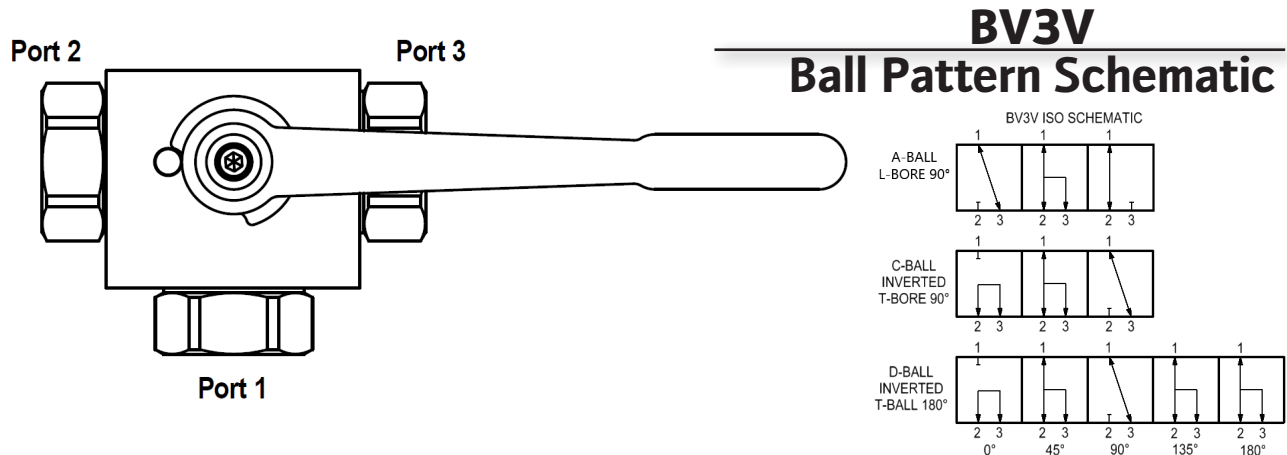
Code	Description
1	Carbon Steel
2	Stainless Steel

Ball Pattern

Code	Description
A	L-Bore 90° Action
C	Inverted T-Bore 90° Action
D	T-Bore 180° Action

See page 14 for accessory codes

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



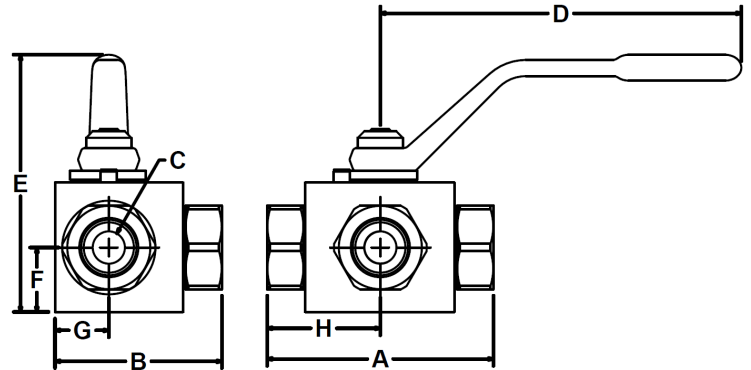
Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.



BV3V 5,000 PSI DIVERTER

Common Dimensions

Port Size	Rated Pressure PSI	Dimensions IN							
		Overall Length A	Width Port 1 B	Valve Bore C	Handle Length D	Overall Height E	Bot To Port Ctr F	Back of body to center G	Center to end H
¼"	5000	3.41	2.48	0.31	4.50	3.37	0.85	0.77	1.71
⅜"		3.41	2.48	0.31	4.50	3.37	0.85	0.77	1.71
½"		3.41	2.48	0.38	4.50	3.37	0.85	0.77	1.71
¾"		4.39	3.24	0.63	7.00	4.97	1.25	1.04	2.19
1"		5.20	3.91	0.81	7.00	5.47	1.64	1.31	2.60
1¼"		5.69	4.32	1.00	9.86	6.70	1.69	1.47	2.85
1½"		6.05	5.1	1.25	9.86	7.17	1.97	2.08	3.02
2"		8.00	6.28	1.63	9.86	7.70	2.21	2.28	4.00



SAE C.61 Split Flange Head Dimension

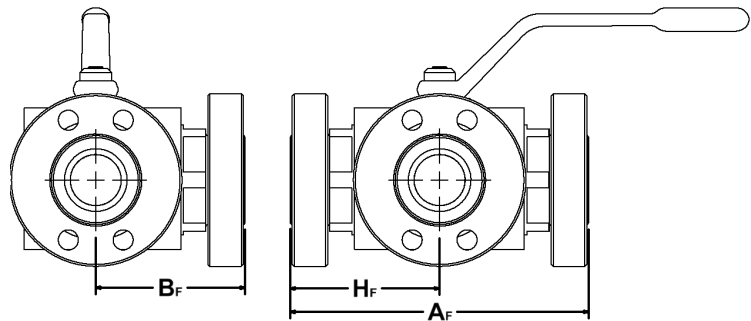
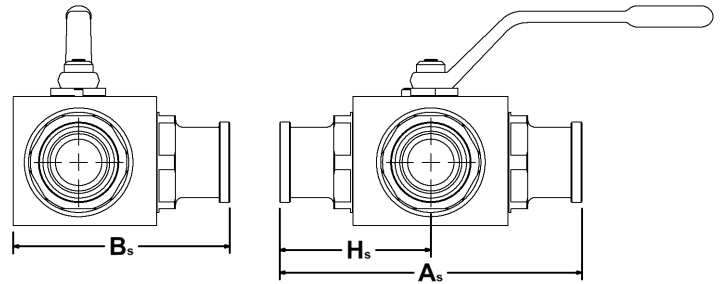
Dimension (inches)	Rated Pressure PSI	Overall Length A _s	Width Port 1 B _s	Center to end H _s
½"	5000	6.00	3.77	3.00
¾"		6.86	4.47	3.43
1"		7.69	5.15	3.85
1¼"	4000	8.34	5.64	4.17
1½"	3000	10.29	7.22	5.14
2"		10.56	7.56	5.28

SAE C.62 Split Flange Head Dimension

Dimension (inches)	Rated Pressure PSI	Overall Length A _s	Width Port 1 B _s	Center to end H _s
½"	5000	6.00	3.77	3.00
¾"		7.34	4.71	3.67
1"		8.50	5.56	4.25
1¼"		9.62	6.28	4.81
1½"		12.27	8.21	6.13
2"		13.86	9.21	6.93

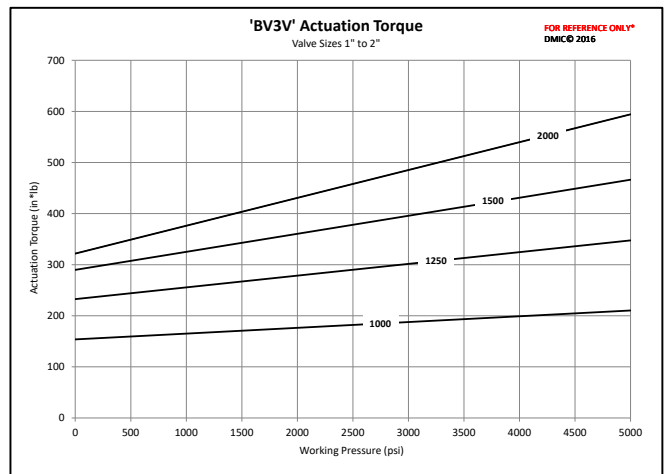
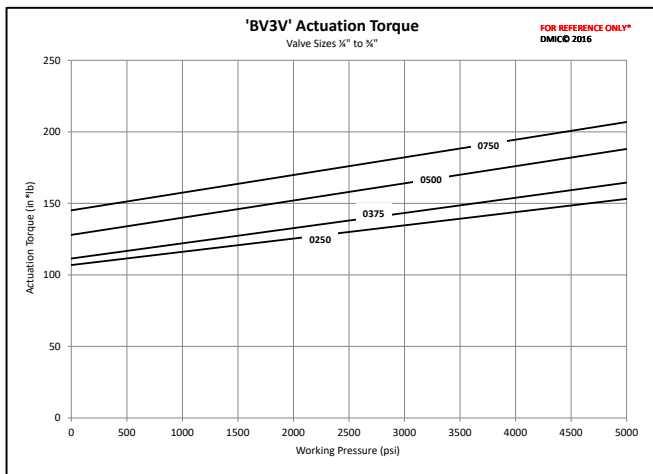
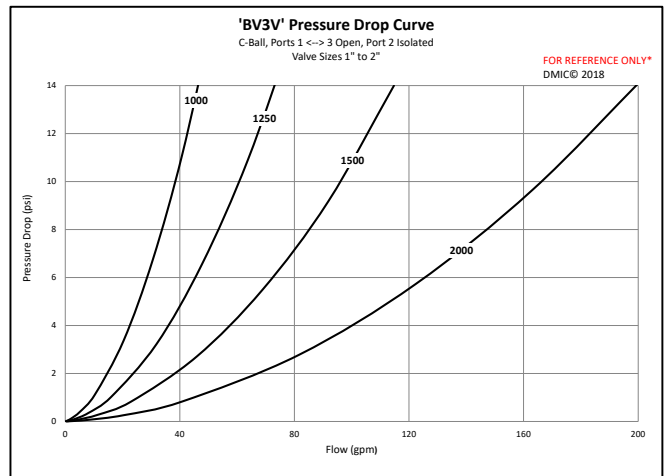
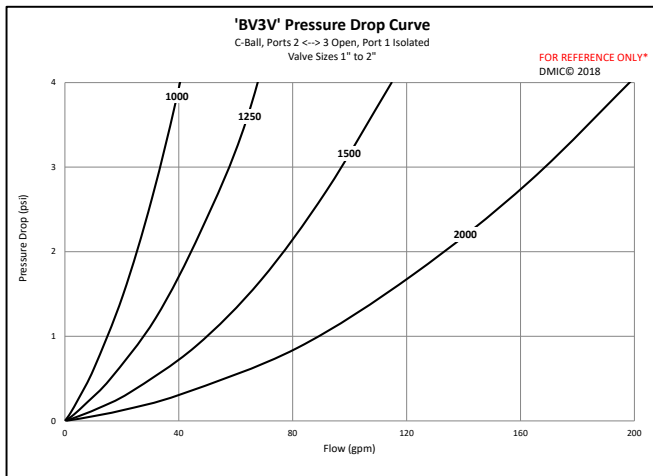
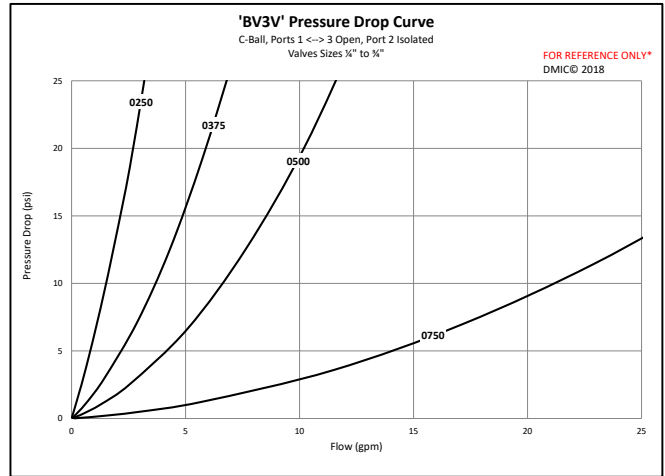
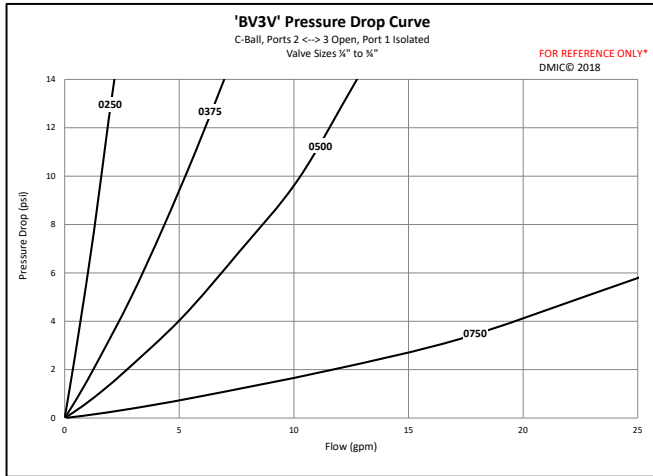
SAE C.61 & C.62 Bolt Flange Dimension

Dimension (inches)	Rated Pressure PSI C.61	Rated Pressure PSI C.62	Overall Length A _f	Width Port 1 B _f	Center to end H _f
½"	5000	5000	4.31	2.16	2.16
¾"			5.25	2.62	2.62
1"			5.98	2.99	2.99
1¼"			7.75	3.88	3.88
1½"	3000	3000	8.29	4.14	4.14
2"			9.52	4.76	4.76



BV3V 5,000 PSI DIVERTER

Flow Characteristic and Actuation Torque Curves



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ISO 9001 CERTIFIED

BV3H & BV4H TRUE MULTI-WAY

6,000 PSI trunnion type with stock L/T/X ball patterns

Supports high port-to-port $\Delta P \sim$ Sizes from $\frac{1}{4}$ " to 2"

Call DMIC for pricing & availability if you require higher pressure or larger multi-way valves.

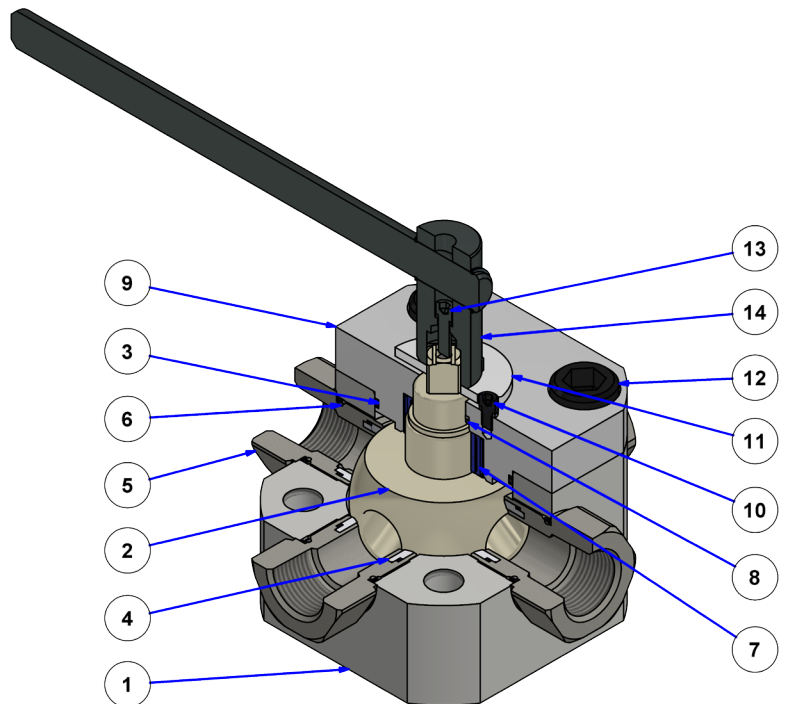


DMIC **BV3H** and **BV4H** series have been upgraded for superior performance and durability with DMIC's exclusive top serviceable design, and compatibility with many DMIC Pre-Engineered Accessories and Actuation Packages. This model is not restricted to any specific type of circuit, and incorporates BLOCKED CENTER (intermediate) positions.

- Three dimensional balanced sealing for near zero leakage in any circuit
- Fast availability of Ball Patterns, Stainless Steel, and Special Sealing
- Made by DMIC in the U.S.A. for top quality and reliable delivery
- Provides one of the lowest actuation torque and internal leakage designs on the market
- Designed for your most critical and high duty cycle projects

Service Parts BOM

BV3H/ BV4H	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Top Cap O-Ring(s)
4	4*	Ball Seal
5	4*	End Connection(s)
6	4*	End Connection O-Ring(s)
7	2	Shaft Bearing(s)
8	2	Shaft O-Ring(s)
9	1	Top Cap
10	1	Stop Pin
11	1	Stop Washer
12	1	Top Cap Screw
13	1	Handle Screw
14	1	Handle
*Quantity depends on size and configuration		



BV3H & BV4H TRUE MULTI-WAY

Ordering Codes Summary

BV3H
or
BV4H

**** S A 1 1 1 1 * * * * *

See page 14 for accessory codes

Size Codes

Code	Port Size
0250	1/4"
0375	3/8"
0500	1/2"
0750	3/4"
1000	1"
1250	1 1/4"
1500	1 1/2"
2000	2"

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
Welded	
W*	Socket Weld
WB*	Butt Weld
Flanged	
F*	SAE 4-Bolt UNC
G*	SAE 4-Bolt Metric
S*	SAE Split

*Please see page 11 for complete connection availability matrix

Ball Pattern

BV3H	
A	L-Bore, (Standard)
B	T-Bore, 45° Action
C	T-Bore 90° Action
D	T-Bore 180° Action
G	Inverted T-Bore 90° Action
BV4H	
C	T-Bore 90° Action
D	T-Bore 180° Action (Standard)
F	X-Bore 90° Action
G	Inverted T-Bore 90° Action

O-Ring Material

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

Ball Seal Material

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

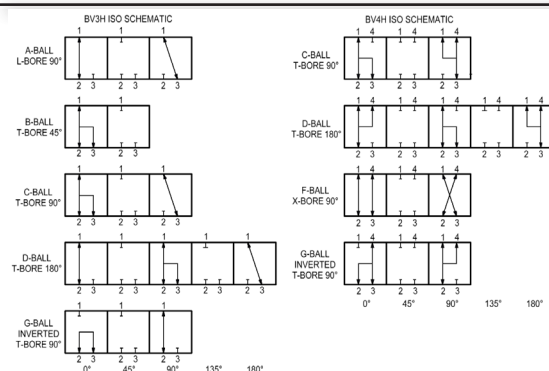
Ball & Spindle Mat'l

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

Body Material

Code	Description
1	Carbon Steel
2	Stainless Steel

BV3H & BV4H Ball Pattern Schematic



There is NO crossflow at 45°. Where as the BV3L(Z), BV3D(Z), and BVMM have crossflow.

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

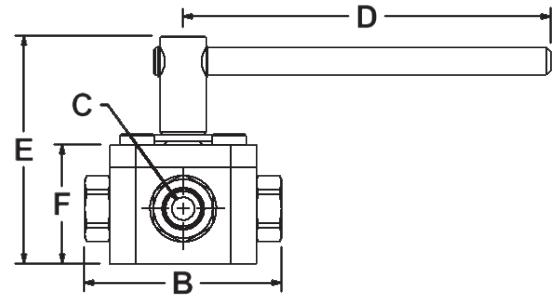
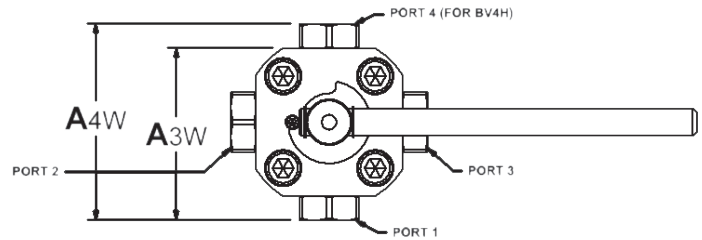
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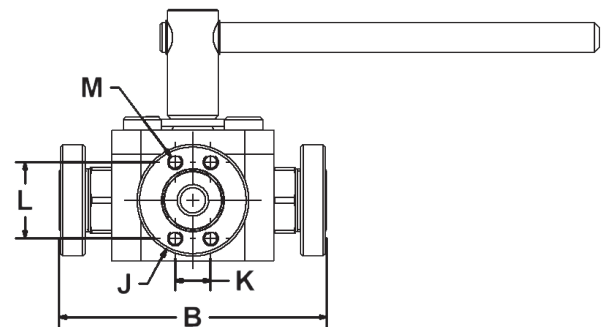
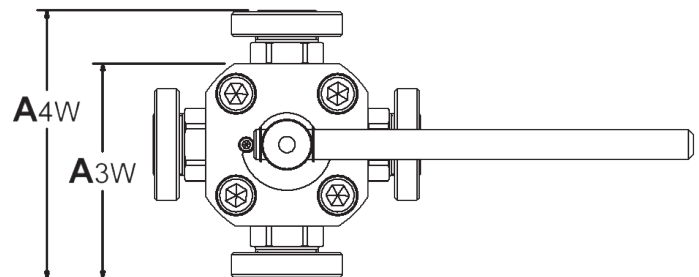
BV3H & BV4H TRUE MULTI-WAY

N, S, B, IU THREADED

BV3H/4H		Dependent Dimensions				
Threaded Connection						
Dimension (Inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
N S B IU/IA Threaded Connections	¼"	2.98	3.46	3.46		
	⅜"	3.08	3.66	3.66		
	½"	3.76	4.53	4.53		
	¾"	4.68	5.35	5.35		
	1"	5.94	6.88	6.88		
	1¼"	6.60	7.43	7.43		
	1½"	8.24	9.22	9.22		
2"	10.53	11.81	11.81			
SAE 4-Bolt Flange C.61 / C.62 Connection						
Dimension (inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
FM/GM/FH SAE 4-Bolt Comp/Std Flange Connections	½"	4.17	5.33	5.33		
	¾"	5.30	6.59	6.59		
	1"	6.33	7.66	7.66		
	1¼"	7.63	9.48	9.48		
	1½"	9.12	10.98	10.98		
	2"	11.29	13.33	13.33		
SAE Split Flange C.61 Connection						
Dimension (inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
SM SAE C.61 Split Flange Connections	½"	5.03	7.06	7.06		
	¾"	5.99	7.97	7.97		
	1"	7.19	9.38	9.38		
	1¼"	7.93	10.09	10.09		
	1½"	9.99	12.72	12.72		
	2"	12.00	14.76	14.76		
SAE Split Flange C.62 Connection						
Dimension (inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
SH SAE C.62 Split Flange Connections	½"	5.03	7.06	7.06		
	¾"	6.23	8.45	8.45		
	1"	7.59	10.18	10.18		
	1¼"	8.56	11.35	11.35		
	1½"	11.10	14.95	14.95		
	2"	13.48	17.71	17.71		
Fixed Socket Weld Connection						
Dimension (inches)		A3W	A4W	B	Socket Depth	Socket Diameter
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width	-	-
W4 Socket Weld Connections	½"	5.19	7.37	7.37	0.75	0.88
	¾"	6.51	9.02	9.02	1.00	1.09
	1"	7.53	10.06	10.06	1.00	1.36
	1¼"	8.38	10.98	10.98	1.00	1.69
	1½"	10.30	13.35	13.35	1.00	1.95
	2"	12.56	15.87	15.87	1.00	2.40



SAE 4-Bolt



BV3H/ BV4H		Common Dimensions							
Port Size	Rated Pressure PSI	Bore (L-Ball) C	Handle Length D	Overall Height E	Body Height F	Bottom Mt Sq G	Mtg Bolt Size (UNC) Carbon Steel	Mtg Bolt Size (UNF) Stainless Steel	
1/4"	6000	0.31	6.97	4.81	2.53	1.63	1/4"	1/4"	
3/8"		0.31	6.97	4.81	2.53	1.63	1/4"	1/4"	
1/2"		0.44	6.97	5.08	2.75	1.88	5/16"	5/16"	
3/4"		0.63	10.00	6.19	3.23	2.50	1/2"	1/2"	
1"		0.88	10.00	7.20	4.24	3.25	1/2"	1/2"	
1 1/4"		1.13	14.50	8.32	4.76	3.75	1/2"	1/2"	
1 1/2"		1.31	14.50	8.70	5.13	4.25	1/2"	1/2"	
2"		1.75	14.50	10.20	6.33	5.50	5/8"	5/8"	



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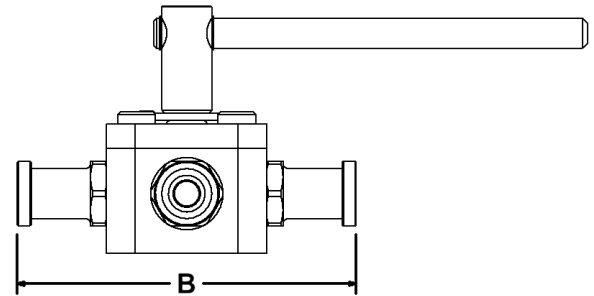
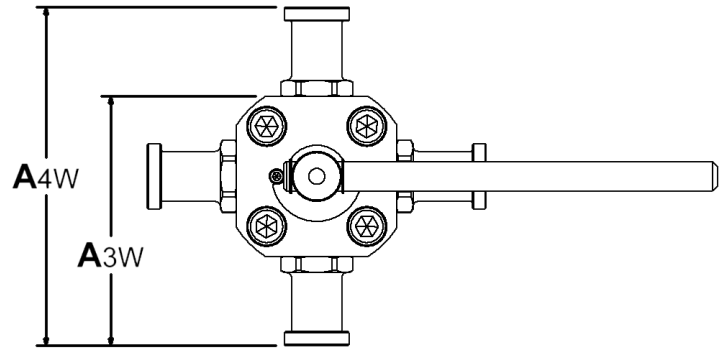
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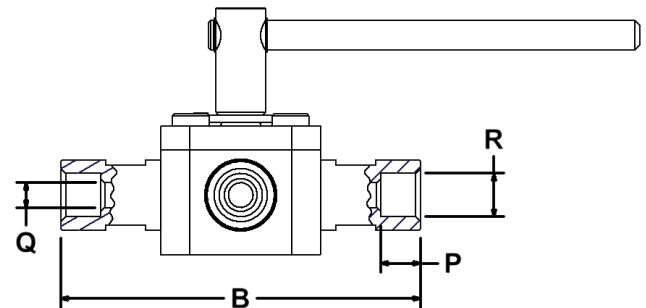
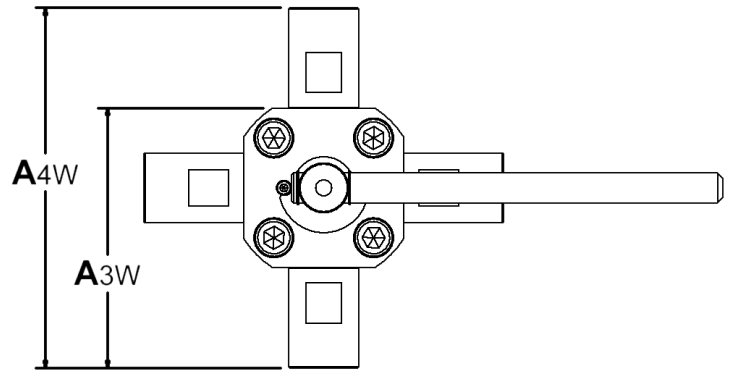
BV3H & BV4H TRUE MULTI-WAY

BV3H/4H		Dependent Dimensions				
Threaded Connection						
Dimension (Inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
N S B IU/IA Threaded Connections	¼"	2.98	3.46	3.46		
	⅜"	3.08	3.66	3.66		
	½"	3.76	4.53	4.53		
	¾"	4.68	5.35	5.35		
	1"	5.94	6.88	6.88		
	1¼"	6.60	7.43	7.43		
	1½"	8.24	9.22	9.22		
2"	10.53	11.81	11.81			
SAE 4-Bolt Flange C.61 / C.62 Connection						
Dimension (Inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
FM/GM/FH SAE 4-Bolt Comp/Std Flange Connections	½"	4.17	5.33	5.33		
	¾"	5.30	6.59	6.59		
	1"	6.33	7.66	7.66		
	1¼"	7.63	9.48	9.48		
	1½"	9.12	10.98	10.98		
	2"	11.29	13.33	13.33		
SAE Split Flange C.61 Connection						
Dimension (Inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
SM SAE C.61 Split Flange Connections	½"	5.03	7.06	7.06		
	¾"	5.99	7.97	7.97		
	1"	7.19	9.38	9.38		
	1¼"	7.93	10.09	10.09		
	1½"	9.99	12.72	12.72		
	2"	12.00	14.76	14.76		
SAE Split Flange C.62 Connection						
Dimension (Inches)		A3W	A4W	B		
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width		
SH SAE C.62 Split Flange Connections	½"	5.03	7.06	7.06		
	¾"	6.23	8.45	8.45		
	1"	7.59	10.18	10.18		
	1¼"	8.56	11.35	11.35		
	1½"	11.10	14.95	14.95		
	2"	13.48	17.71	17.71		
Fixed Socket Weld Connection						
Dimension (Inches)		A3W	A4W	B	Socket Depth	Socket Diameter
Port Code(s)	Port Size	3-Way Length	4-Way Length	Width	-	-
W4 Socket Weld Connections	½"	5.19	7.37	7.37	0.75	0.88
	¾"	6.51	9.02	9.02	1.00	1.09
	1"	7.53	10.06	10.06	1.00	1.36
	1¼"	8.38	10.98	10.98	1.00	1.69
	1½"	10.30	13.35	13.35	1.00	1.95
	2"	12.56	15.87	15.87	1.00	2.40

SAE Split Flange



Fixed Socket Weld



BV3H/ BV4H		Common Dimensions							
Port Size	Rated Pressure PSI	Bore (L-Ball) C	Handle Length D	Overall Height E	Body Height F	Bottom Mt Sq G	Mtg Bolt Size (UNC) Carbon Steel	Mtg Bolt Size (UNF) Stainless Steel	
1/4"	6000	0.31	6.97	4.81	2.53	1.63	1/4"	1/4"	
3/8"		0.31	6.97	4.81	2.53	1.63	1/4"	1/4"	
1/2"		0.44	6.97	5.08	2.75	1.88	5/16"	5/16"	
3/4"		0.63	10.00	6.19	3.23	2.50	1/2"	1/2"	
1"		0.88	10.00	7.20	4.24	3.25	1/2"	1/2"	
1 1/4"		1.13	14.50	8.32	4.76	3.75	1/2"	1/2"	
1 1/2"		1.31	14.50	8.70	5.13	4.25	1/2"	1/2"	
2"		1.75	14.50	10.20	6.33	5.50	5/8"	5/8"	

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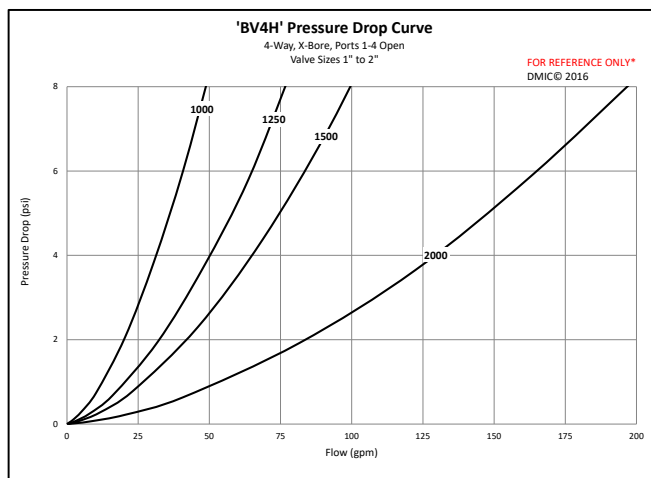
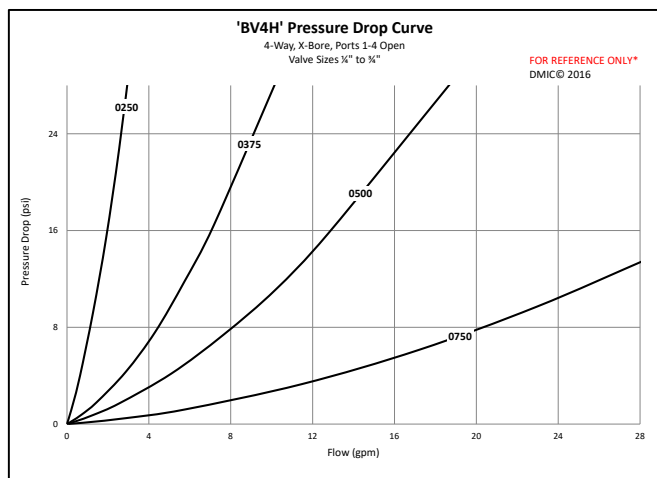
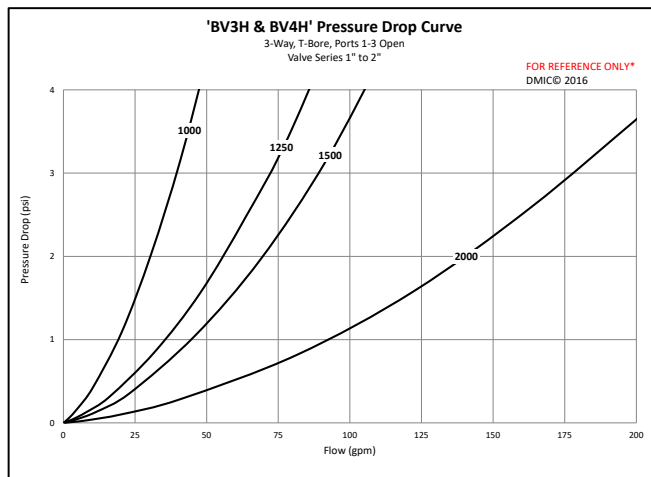
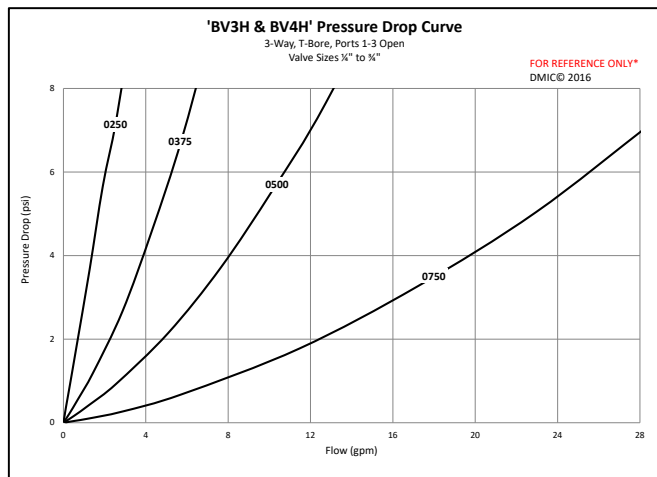
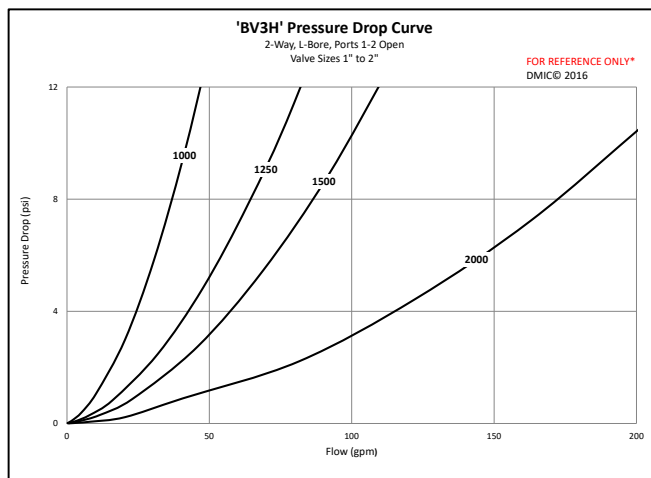
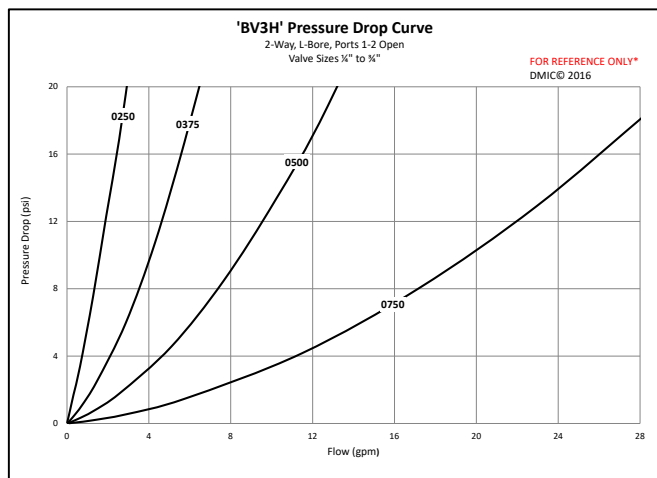
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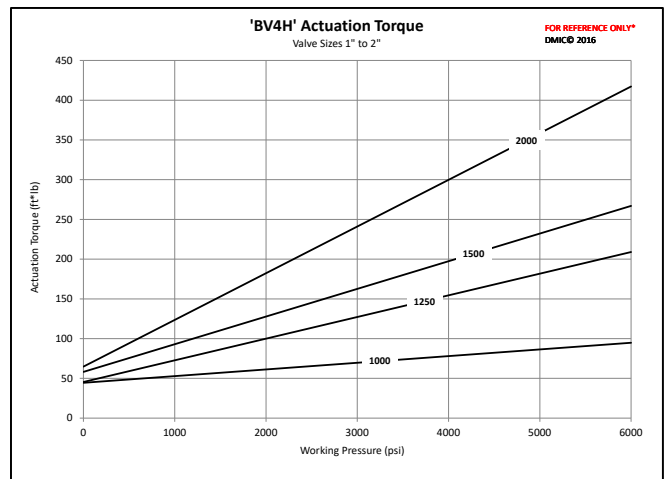
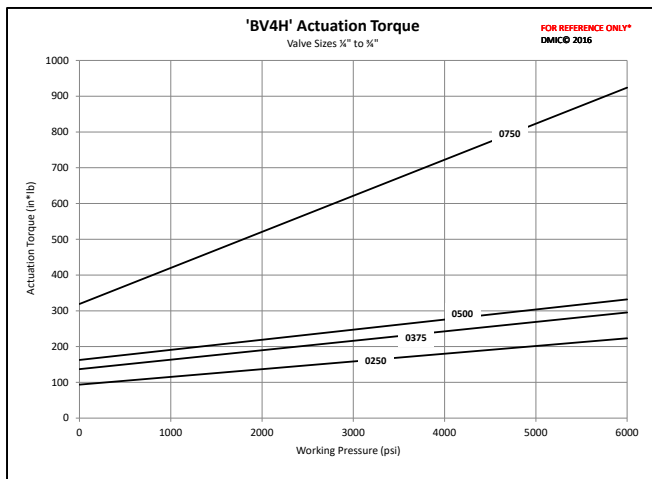
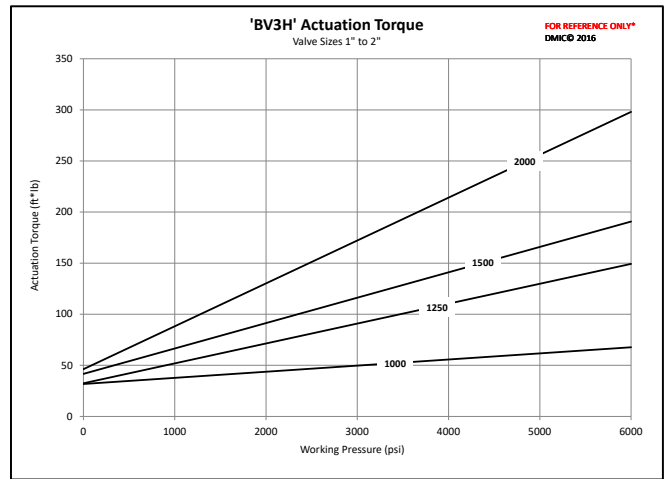
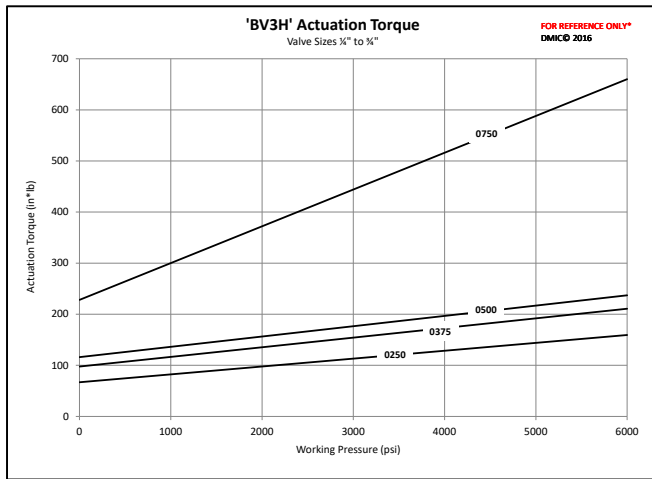
BV3H & BV4H TRUE MULTI-WAY

Flow Characteristic and Actuation Torque Curves



BV3H & BV4H TRUE MULTI-WAY

Flow Characteristic and Actuation Torque Curves



BVMM MANIFOLD MOUNT

2-and 3-Way models

3000/6000 PSI Working Pressure ~ Sizes from ¼" to 2"

Aluminum & Steel models dimensionally interchangeable ~ Near-zero leakage BVMMZ 3-way



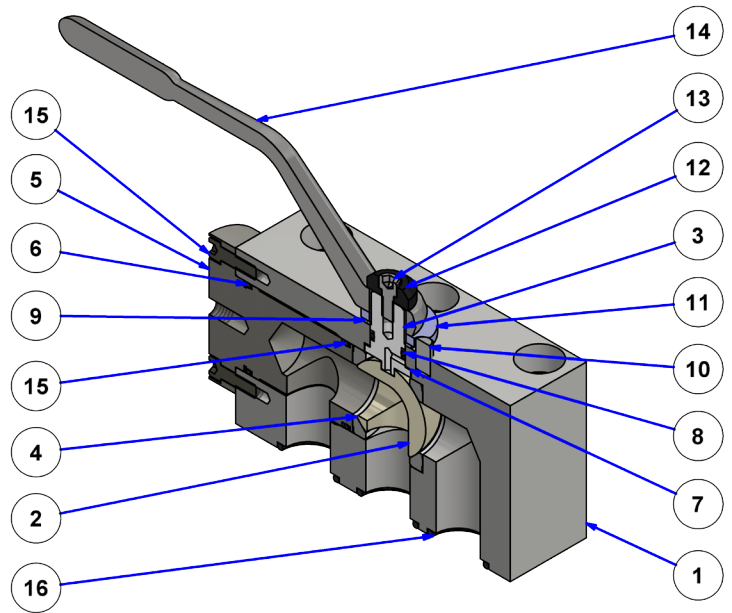
DMIC's re-engineered **BVMM** brings into the cost-competitive mainstream the possibility of surface mounting a High Pressure **2-or 3-Way** ball valve to your custom manifold, eliminating an external fluid connection and improving the integrity of your design. Choice of aluminum construction balances valve pressure characteristics with your selected manifold material. Exclusive and original DMIC design.

- Offered with "L-Bore" standard, "T" bore optional in 90° and 180° action
- **Made in our U.S. factory** for fast delivery in Steel (6000 PSI) and lightweight Aluminum model for 3000 PSI service
- **Single Bolt-On Plug Design** reduces pressure drop and valve cost
- **Near Zero leakage configurations, see notes on next page**

Service Parts BOM

BVMM	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	2	Ball Seal
5	1*	End Cap
6	1*	End Cap O-Rings
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
15	12*	End Cap Screws
16	3*	Face O-Ring(s)

*Quantity depends on size and configuration



BVMM MANIFOLD MOUNT

Ordering Codes Summary

See page 14 for accessory codes

BVMM
or
BVMMZ

**** A 4 1 1 1 * * * * *

Size Codes

Code	Port Size
0250	1/4"
0375	3/8"
0500	1/2"
0750	3/4"
1000	1"
1250	1 1/4"
1500	1 1/2"
2000	2"

Call Factory for larger sizes 18"+

Ball Pattern

BVMM 2-Way	
Not Needed	
BVMM 3-Way	
A	L-Bore, Port Overlap (Standard)
B	L-Bore 180° Action
C	T-Bore 90° Action
D	T-Bore 180° Action

Body Material

Code	Description
1	Carbon Steel
2	Stainless Steel
4	Aluminum

O-Ring Material

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

Ball Seal Material

Code	Description
1	Delrin™
2	PTFE Teflon™ (1500 PSI MAX)
4	High Temp PEEK
6	Delrin™ AF (low Friction)

Ball & Spindle Mat'l

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

Note: Changes from standard materials may result in changes to temperature and/or pressure rating. Also, carbon and stainless steel valves come standard with a steel crank handle; while an aluminum valve comes equipped with an aluminum crank handle.

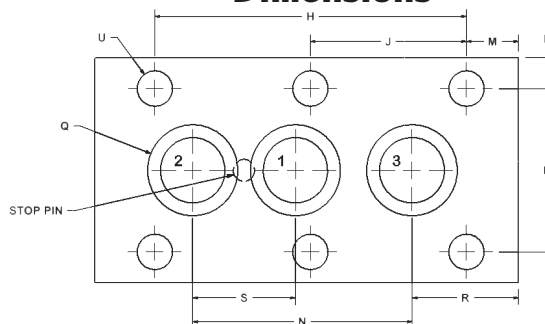
Q: Can I use a Diverter Valve or do I need a True Multi-Way Valve?

A: The "BVMMZ" version of our diverter valve can take the place of a true multi way valve in many circuits.

Specifically, the question you must ask your application is: "Will pressure ever be applied at port 2 or 3 when the valve is blocked?"

If YES, you must use a "real" 3-way valve, or the "BVMMZ" model. If NO, a Diverter such as "BVMM" is acceptable.

Manifold Pad Dimensions



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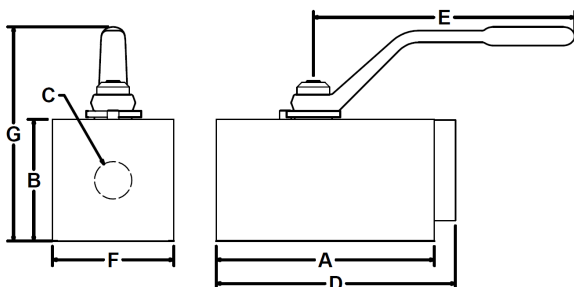
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BVMM MANIFOLD MOUNT

BVMM	Ball Valve Dimensions										
Part Number	Port Size	Rated Pressure PSI	Valve Dimensions (in)								
			Valve Length A	Body Height B	Internal Bore C	Overall Length D	Handle Length E	Valve Width F	Overall Height G	Bolt Dist A H	Bolt Dist B J
BVMM-0250-****	1/4"	6000	2.50	1.50	0.24	2.94	4.50	2.00	3.12	1.653	These models have only 4 bolt holes
BVMM-0250-4***		3000	2.50	1.50	0.24	2.94	5.09	2.00	3.51	1.653	
BVMM-0375-****	3/8"	6000	3.22	1.72	0.38	3.66	4.50	2.25	3.35	2.165	
BVMM-0375-4***		3000	3.22	1.72	0.38	3.66	5.09	2.25	3.74	2.165	
BVMM-0500-****	1/2"	6000	3.95	2.00	0.50	4.39	4.50	2.25	3.62	3.267	1.633
BVMM-0500-4***		3000	3.95	2.00	0.50	4.39	5.09	2.25	4.00	3.267	1.633
BVMM-0750-****	3/4"	6000	5.21	2.75	0.79	5.64	7.00	2.75	5.22	3.818	1.909
BVMM-0750-4***		3000	5.21	2.75	0.79	5.64	6.81	2.75	5.34	3.818	1.909
BVMM-1000-****	1"	6000	5.85	3.25	0.94	6.41	7.00	3.25	5.72	4.528	2.264
BVMM-1000-4***		3000	5.85	3.25	0.94	6.41	6.81	3.25	5.84	4.528	2.264
BVMM-1250-****	1 1/4"	6000	7.00	3.75	1.25	7.63	9.86	4.00	6.95	5.354	2.677
BVMM-1250-4***		3000	7.00	3.75	1.25	7.63	8.61	4.00	6.43	5.354	2.677
BVMM-1500-****	1 1/2"	6000	7.45	3.94	1.50	8.20	9.86	5.00	7.14	4.409	2.199
BVMM-1500-4***		3000	7.45	3.94	1.50	8.20	8.61	5.00	6.62	4.409	2.199
BVMM-2000-****	2"	6000	9.10	4.75	1.88	9.97	9.86	6.00	7.95	5.354	2.684
BVMM-2000-4***		3000	9.10	4.75	1.88	9.97	8.61	6.00	7.42	5.354	2.684

BVMM	Manifold Mounting Pad Dimensions									
Part Number	Port Size	Mounting Pad Dimensions (in)								
		Hole Spacing K	Bolt Hole from Opposite side of Stop Pin M	Port 2 to 3 Ctr N	Cntr of Bolt Hole to Body P	O-Ring Diam/Size Q	Opposite Side of Stop Pin to Port 3 R	Port 2 to 1 Center S	Bolt Hole & Max Bolt U	Counterbore Depth
Fits BVMM-0250****	1/4"	1.377	0.488	1.535	0.312	0.500 2-109	0.518	0.865	0.331 5/16", M8	0.35
Fits BVMM-0375****	3/8"	1.574	0.770	1.732	0.338	0.625 2-111	0.860	0.982	0.331 5/16", M8	0.35
Fits BVMM-0500****	1/2"	1.770	0.293	2.283	0.240	0.750 2-113	0.947	1.040	0.331 5/16", M8	0.35
Fits BVMM-0750****	3/4"	2.008	0.892	2.716	0.371	1.063 2-211	1.594	1.210	0.410 3/8", M10	0.41
Fits BVMM-1000****	1"	2.362	0.760	3.188	0.444	1.313 2-215	1.549	1.496	0.516 1/2", M12	0.52
Fits BVMM-1250****	1 1/4"	3.070	0.676	3.780	0.465	1.563 2-219	1.580	1.810	0.516 1/2", M12	0.52
Fits BVMM-1500****	1 1/2"	3.740	1.661	4.409	0.630	1.875 2-223	1.661	2.210	0.656 5/8", M16	0.64
Fits BVMM-2000****	2"	4.410	2.177	5.354	0.795	2.250 2-226	2.177	2.670	0.813 3/4", M20	0.80

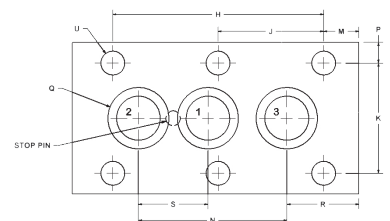


Note: Manifold pad dimensions are the same in 2 + 3 way model. On 2-way, port 1 is not there.

Note: Dimensions A & D may change based upon accessory code choice.

Note: the "PIN" location on the pad diagram. This is the stop pin on the valve top. DMIC ships valves with the handle pointing opposite of the pin.

Manifold Pad Dimensions



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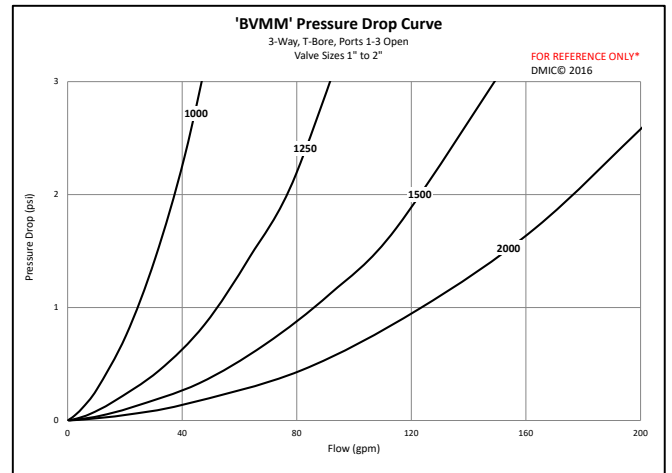
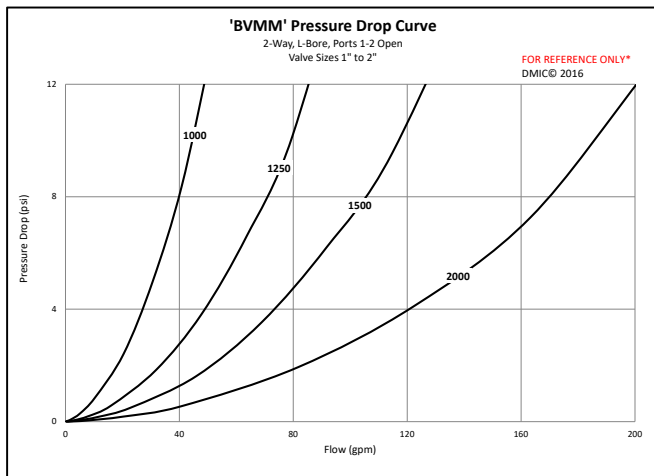
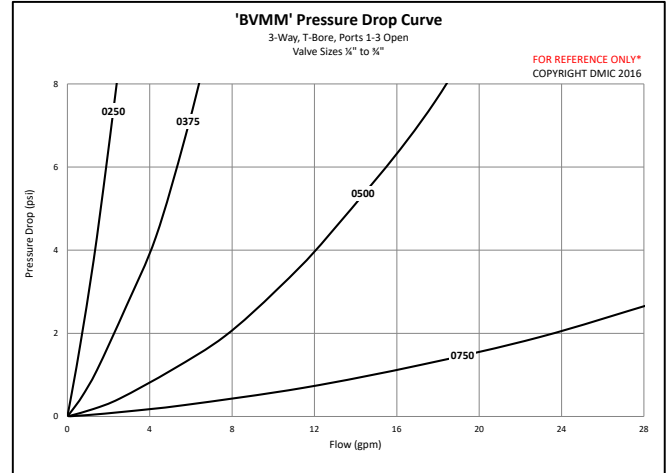
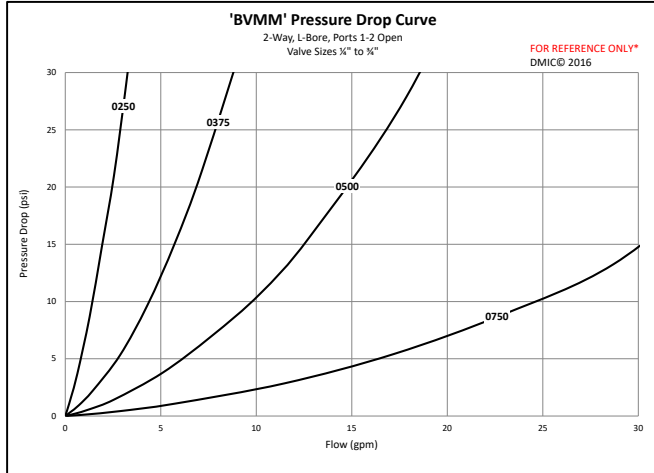
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IN CANADA 1-800-320-3642

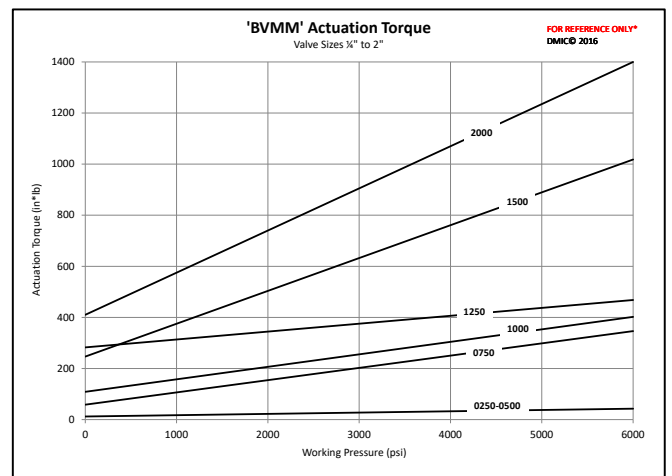
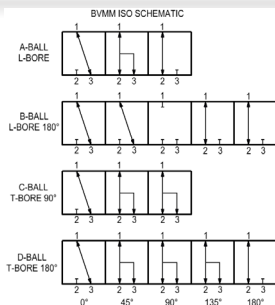


BVMM MANIFOLD MOUNT

Flow Characteristic and Actuation Torque Curves



BVMM Ball Pattern Schematic



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.



BVFF FIXED FLANGE LARGE BORE

3000/6000 PSI – DM-Flange, ANSI, DIN

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

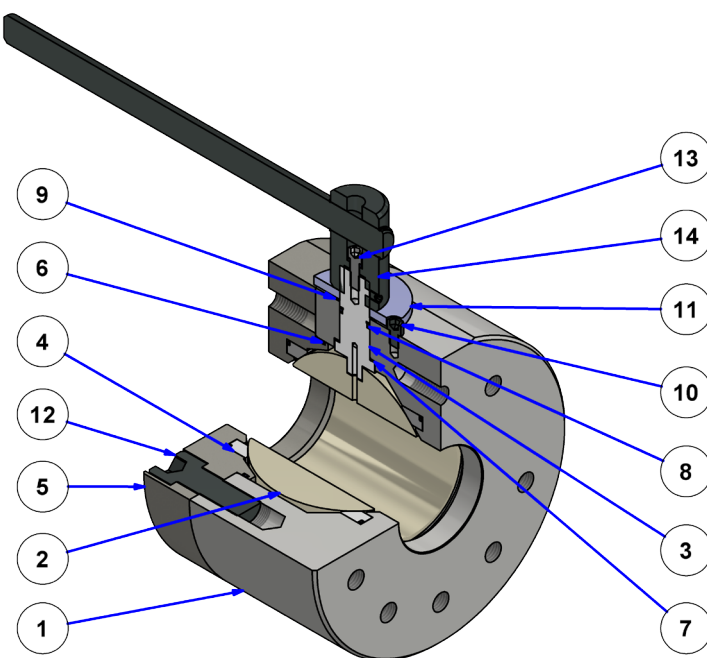
The BVFF family comprises aluminum, steel, and stainless steel versions, enabling DMIC to furnish large valves to any ANSI or DIN/ISO Flange standard. In return, this is a cost effective way of achieving the compatible connection, pressure rating, and sealing/ material specification. Standard BVFF valves are equipped for either DMIC DM (3,000 PSI) or DH (6,000 PSI) flange connections. ANSI and DIN/ISO valves are pressure rated according to the class standard.



- **Superior Field Proven Design** features Large bore, durability, and fast spare parts available from our US factory
- Delrin™ Ball Seals and Buna-N elastomer seals standard. All DMIC sealing and valve material options available for wide fluid compatibility range.
- **Complete array of DMIC pre-engineered accessories** including lock kits, position sensing, and actuation compliment your project.
- These valves **cannot** be opened under pressure unless the pressure balance option is installed.

Service Parts BOM

BVFF 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	10*	End Connection Screws
13	1	Handle Screw
14	1	Handle
*Quantity depends on size and configuration		



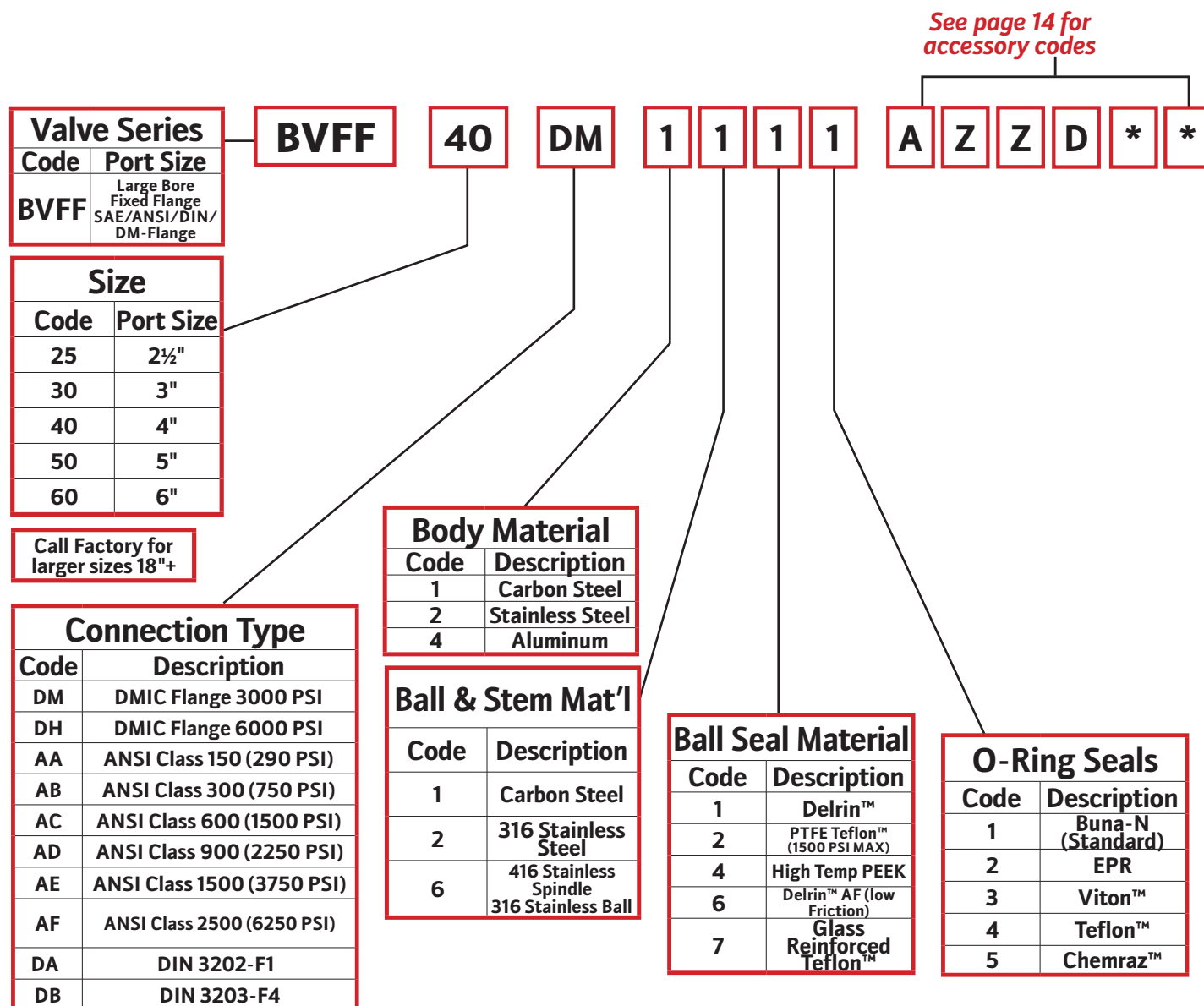
BVFF FIXED FLANGE LARGE BORE

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. *When specifying ANSI or DIN Flange models, please request the latest 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. If your organization is open to possible substantial savings, consider partnering with DMIC on your next large scale project with sizes up to and beyond 18" made in our U.S. factory.



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

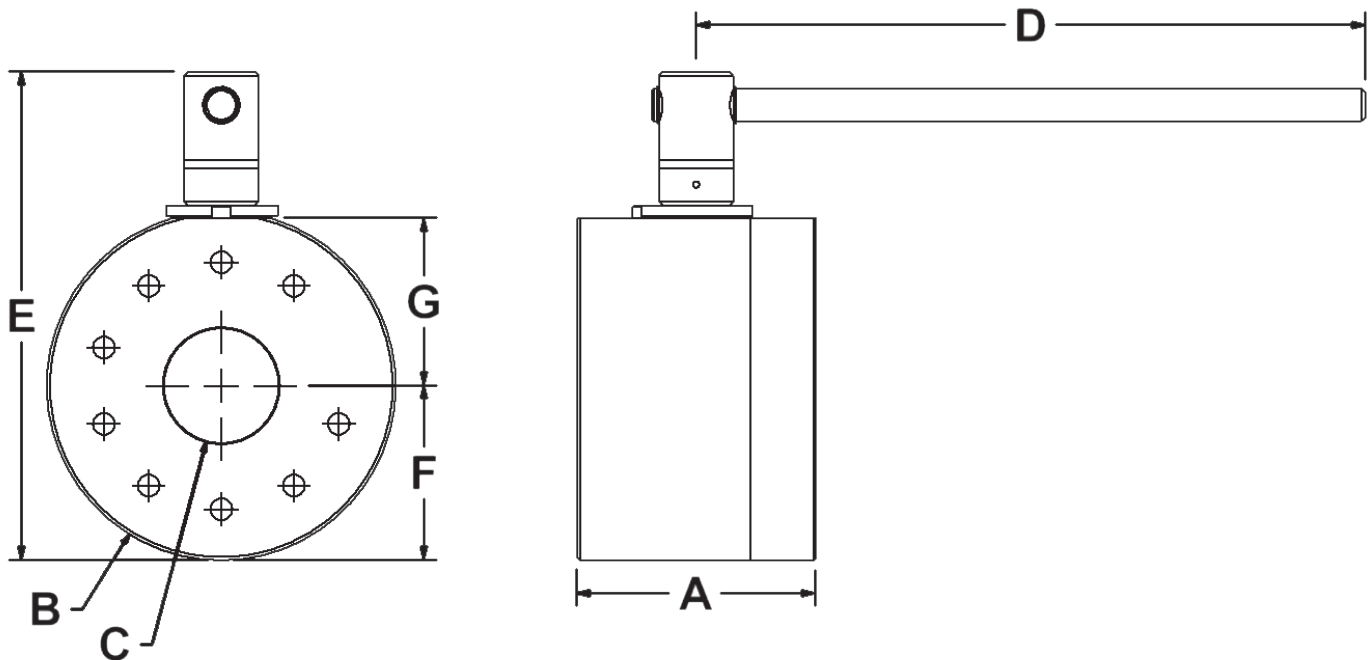
Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.



BVFF FIXED FLANGE LARGE BORE

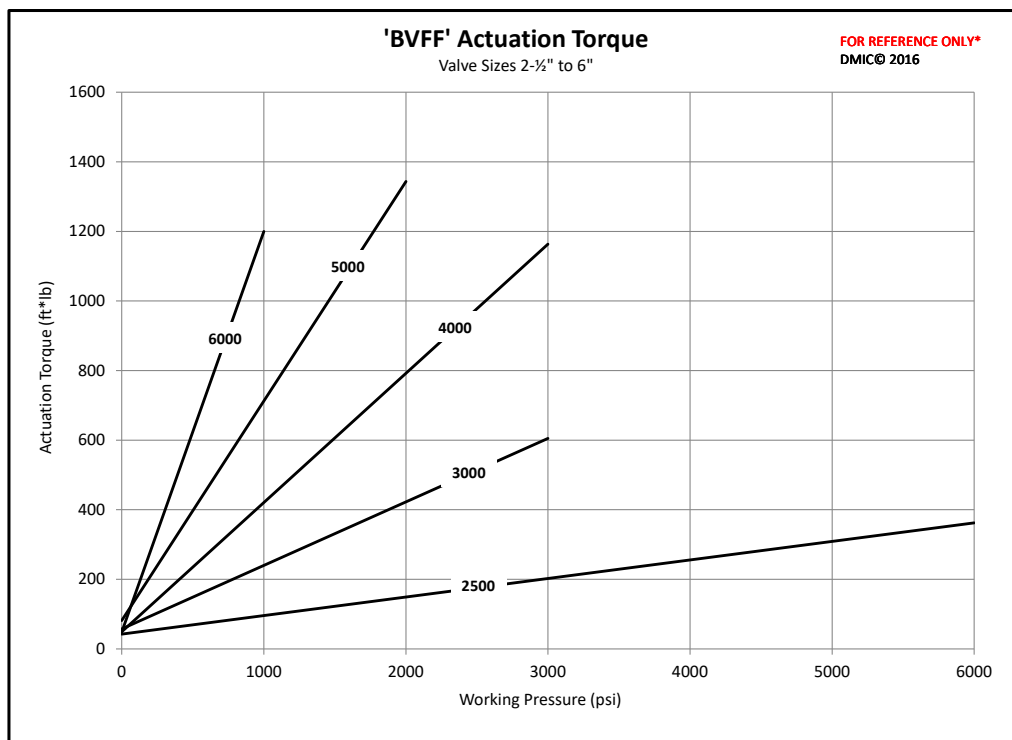
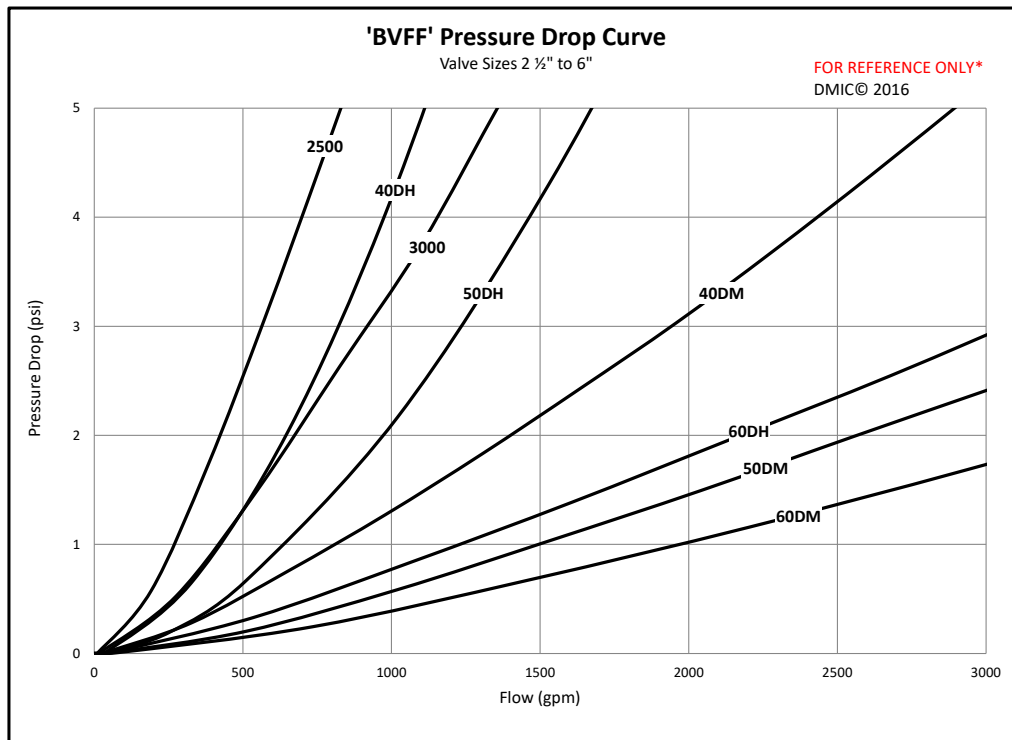
****NOTE:** Please replace ** in flange part number with W4=Sch.40, W8=Sch. 80, WF=Sch. 160, WG=XXStrong for socket weld flanges. Butt Weld flanges are as follows: B4 = Sch. 40, B8= Sch. 80, BF = Sch160, BG = XXStrong.

BVFF	Port Size	Uses DMIC Flange	PSI Rating	Dimensions (inches)								
				A	ØB	ØC	D	E	F	G	H	J
				Overall Length	Valve Width	Valve Bore	Handle Length	Overall Height	PortCtr to Bot	PortCtr to Top	Mounting Bolt Circle Diameter	Mounting Holes
BVFF Fixed Flange, Round Body, DM Flange, 3000 PSI Rated												
BVFF-25DM	2½"	FDM-25**-11	3000 PSI	5.00	6.44	2.50	14.50	9.93	3.22	3.09	4.88	3/8" x 0.75 dp. Qty 8 per side
BVFF-30DM	3"	FDM-30**-11		5.89	7.44	3.00	14.50	10.90	3.72	3.55	6.00	½" x 1.13 dp. Qty 6 per side
BVFF-40DM	4"	FDM-40**-11		6.88	8.97	3.94	14.50	12.62	4.49	4.25	7.13	5/8" x 1.10 dp. Qty 8 per side
BVFF-50DM	5"	FDM-50**-11		9.00	10.88	5.00	20.00	15.58	5.44	5.75	8.25	¾" x 1.00 dp. Qty 8 per side
BVFF-60DM	6"	FDM-60**-11		10.62	12.94	5.88	20.00	17.00	6.47	6.53	10.63	7/8" x 1.60 dp. Qty 12 per side
BVFF Fixed Flange, Round Body, DH Flange, 6000 PSI Rated												
BVFF-25DH	2½"	FDH-25**-11	6000 PSI	5.00	7.44	2.50	14.50	10.75	3.72	3.40	5.53	5/8" x 1.10 dp. Qty 6 per side
BVFF-30DH	3"	FDH-30**-11		5.89	7.94	3.00	14.50	11.41	3.97	3.81	6.19	5/8" x 1.10 dp. Qty 8 per side
BVFF-40DH	4"	FDH-40**-11		7.13	10.44	3.44	14.50	14.11	5.22	5.00	7.38	¾" x 1.34 dp. Qty 9 per side
BVFF-50DH	5"	FDH-50**-11		10.25	12.94	4.31	20.00	16.97	6.47	6.50	9.38	7/8" x 1.75 dp. Qty 11 per side
BVFF-60DH	6"	FDH-60**-11		11.78	14.94	5.19	20.00	19.00	7.47	7.53	10.63	7/8" x 1.75 dp. Qty 11 per side



BVFF FIXED FLANGE LARGE BORE

Flow Characteristic and Actuation Torque Curves



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.



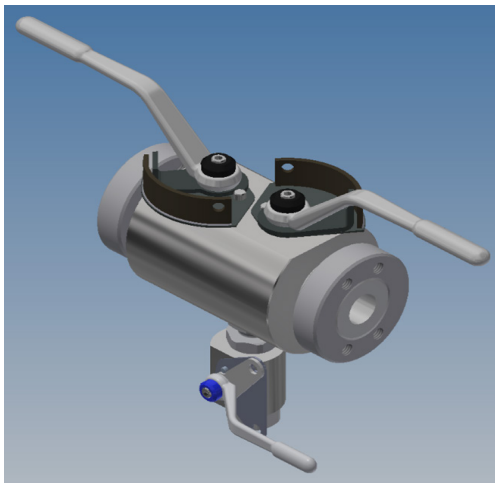
BVFD DOUBLE BLOCK AND BLEED

DMIC's Double Block and Bleed valve combines the operation of three separate ball valves into one compact assembly. The assembly is made up of two in line isolation ball valves with a drain ball valve in between. This packaged design reduces the overall size, weight and installation costs as well as reduces the number of leakage points. The function of the valves allows you to block off pressure in either direction (either side) and drain off the pressure and liquid. This function can be utilized in systems for safety and/or for systems that are run off multiple sources allowing maintenance and upgrades without the need to shut down systems.

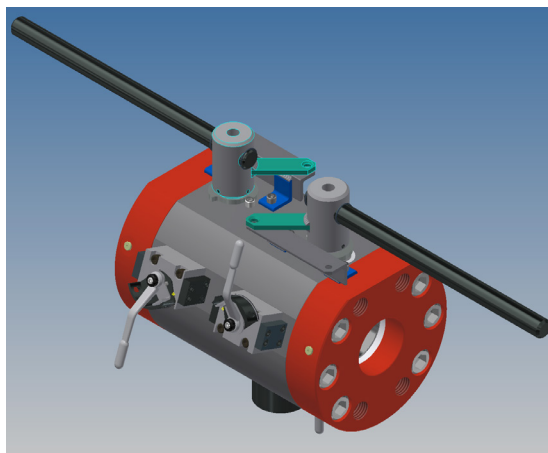
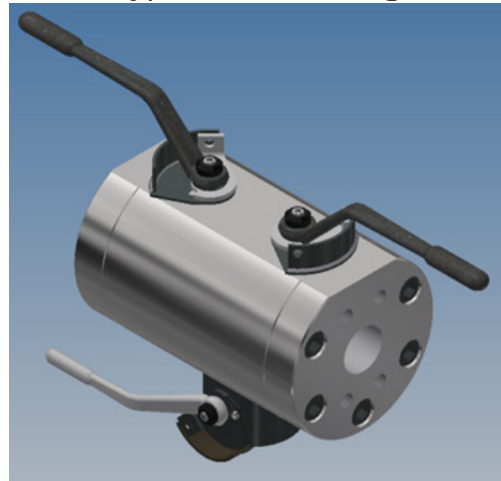


- Rated to 6000 psi. Carbon Steel or Stainless-Steel Construction.
- 3/4" - 4" Main Valve Standard size range. 1/4" - 1" bleed/drain valve sizes.
- Superior proven design using standard DMIC Valve parts and providing access spare parts available from our factory.
- Design features include full unrestricted bores, durability, and a large variety of connections available. Adapter flanges are also available.
- Standard Delrin ball seals & Buna-N elastomer seals. Other materials are available for full fluid compatibility range.
- Standard and High Torque Lockable Handles available.
- A complete array of DMIC engineered accessories including limit switches, proximity sensors etc. are available.
- Contact DMIC Sales for a dimensional drawing.
- For valves 3" and larger operating up to 6000 psi it is recommended to have PEV (Pressure Equalization Valves) installed integral to valve assembly.
- Design can be customized by DMIC to meet customer specifications.

Typical 1-1/4" and smaller



Typical 1-1/2" and larger



Typical 3" and larger with PEV



BVFD DOUBLE BLOCK AND BLEED

Ordering Codes Summary

See page 14 for accessory codes

Size	
Code	Port Size
07	3/4"
10	1"
12	1 1/4"*
15	1 1/2"*
20	2"*
25	2 1/2"*
30	3"*
40	4"*

BVFD **10** ****** **02** ****** **1** **1** **1** **1** **A** **Z** **Z** **D** ***** *****

O-Ring Seals	
Code	Description
1	Buna-N (Standard)
2	EPR
3	FKM
4	Teflon™
5	Chemraz™
6	Kalraz
7	Buna-3716 (low Temp)

Seals, Bushings, Washers	
Code	Description
1	Delrin™
2	PTFE Teflon™ (1500 PSI MAX)
4	High Temp PEEK
6	Delrin™ AF (low Friction)
7	Glass Reinforced Teflon™

Ball & Spindle Mat'l	
Code	Description
1	Carbon Steel
2	* Stainless Steel

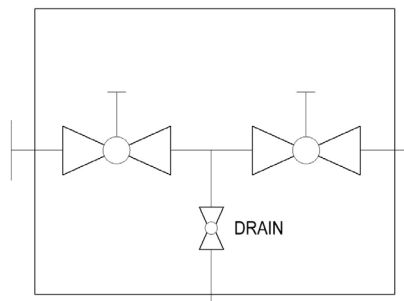
Connection Types	
Imperial Threads	
Code	Description
S	SAE ORB
N	NPT
Metric Threads	
B	BSPP
T	BSPT (Tapered Pipe)
ISO Threads	
IU	ISO6149
Flanged	
FM/FH	SAE 4-Bolt UNC
GM/GH	SAE 4-Bolt Metric
SM/SH	SAE Split Flange Head
DM/DH	DMIC Special Pattern

Bleed Port Size	
Code	Port Size
02	1/4"
03	3/8"
05	1/2"
07	3/4"
10	1"

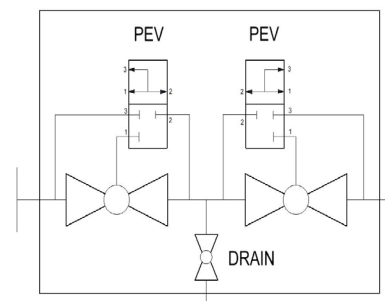
Body & End Connections	
Code	Description
1	Carbon Steel
2	Stainless Steel
4	Aluminum

*Stainless Steel options for ball code may result in reduced bore.

See page 11 for flanged connection types



Standard Valve Schematic



Valve with PEV valves Schematic

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

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.



BVFD DOUBLE BLOCK AND BLEED

BVFD	Port Size	PSI Rating	Dimensions (inches)							
			A	B	C	D	E	F	G	H
			Overall Length	Body Diameter	Bore Size	Main Handle Length	Overall Height	Bottom to Port Center	Center to Top	Width Between Shafts
Threaded Connections (6000 PSI)										
N S B T IU	¾"	6000 PSI	6.39	2.50	0.75	7.00	DEPENDENT ON BLEED VALVE SELECTION CONTACT FACTORY	3.72	2.60	
	1"		7.09	4.00	0.94	7.00		4.82	2.60	
	1¼"		7.74	4.44	1.25*	9.85		5.87	2.90	
	1½"		8.52	5.00	1.50*	9.85		5.87	3.39	
	2"		TBD	TBD	TBD*	TBD		TBD	TBD	
	3"		TBD	TBD	TBD*	TBD		TBD	TBD	
	4"		TBD	TBD	TBD*	TBD		TBD	TBD	

BVFD	Port Size	PSI Rating	Dimensions (inches)							
			A	B	C	D	E	F	G	H
			Overall Length	Body Diameter	Bore Size	Main Handle Length	Overall Height	Bottom to Port Center	Center to Top	Width Between Shafts
Flange Connections (6000 PSI)										
FH/GH DH SAE C. 62, 4-Bolt Comp/ Std. & DMIC Connections	¾"	6000 PSI	7.37	2.50	0.75	7.00	DEPENDENT ON BLEED VALVE SELECTION CONTACT FACTORY	3.72	2.60	
	1"		7.87	4.00	0.94	7.00		4.82	2.60	
	1¼"		9.80	4.44	1.25*	9.85		5.87	2.90	
	1½"		8.52	5.00	1.50*	9.85		5.87	3.39	
	2"		TBD	TBD	TBD*	TBD		TBD	TBD	
	3"		TBD	TBD	TBD*	TBD		TBD	TBD	
	4"		TBD	TBD	TBD*	TBD		TBD	TBD	

BVFD	Port Size	PSI Rating	Dimensions (inches)							
			A	B	C	D	E	F	G	H
			Overall Length	Body Diameter	Bore Size	Main Handle Length	Overall Height	Bottom to Port Center	Center to Top	Width Between Shafts
Flange Connections										
FM/GM DM SAE C. 61, 4-Bolt Comp/ Std. & DMIC Connections	¾"	5000 PSI	7.37	2.50	0.75	7.00	DEPENDENT ON BLEED VALVE SELECTION CONTACT FACTORY	3.72	2.60	
	1"	5000 PSI	7.87	4.00	0.94	7.00		4.82	2.60	
	1¼"	4000 PSI	9.80	4.44	1.25*	9.85		5.87	2.90	
	1½"	3000 PSI	8.52	5.00	1.50*	9.85		5.87	3.39	
	2"	3000 PSI	TBD	TBD	TBD*	TBD		TBD	TBD	
	3"	2000 PSI	TBD	TBD	TBD*	TBD		TBD	TBD	
	4"	500 PSI	TBD	TBD	TBD*	TBD		TBD	TBD	

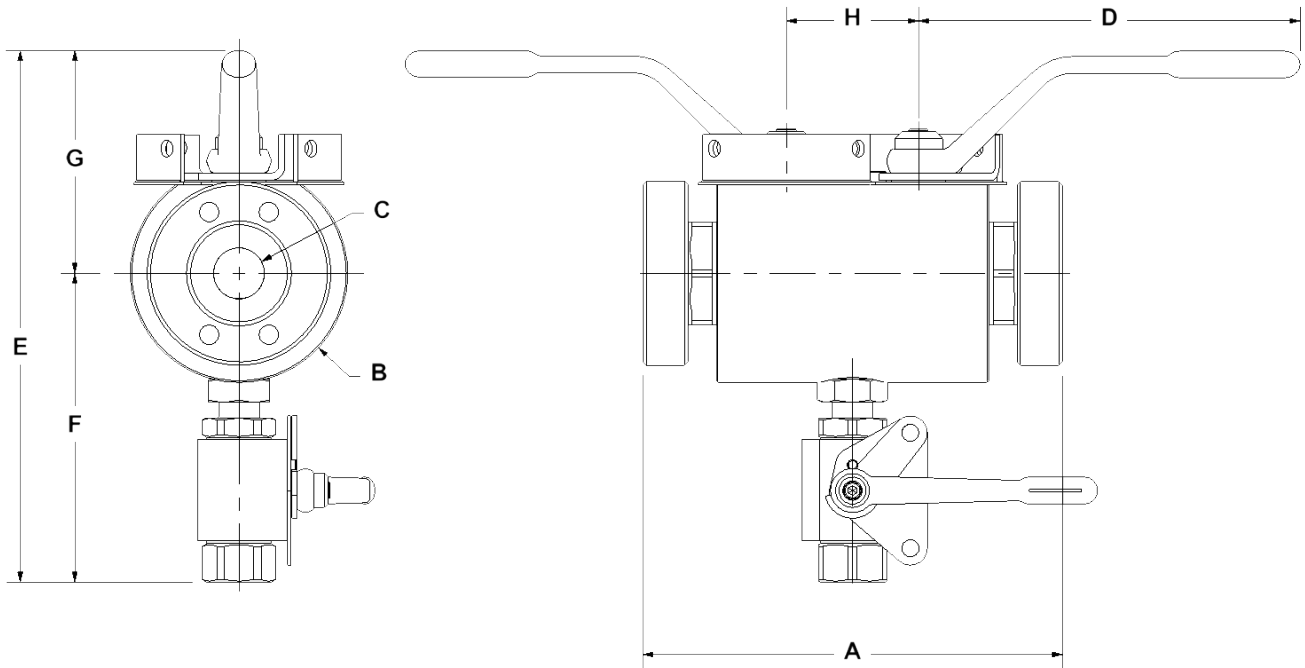
*Stainless Steel options for ball code may result in reduced bore.

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.

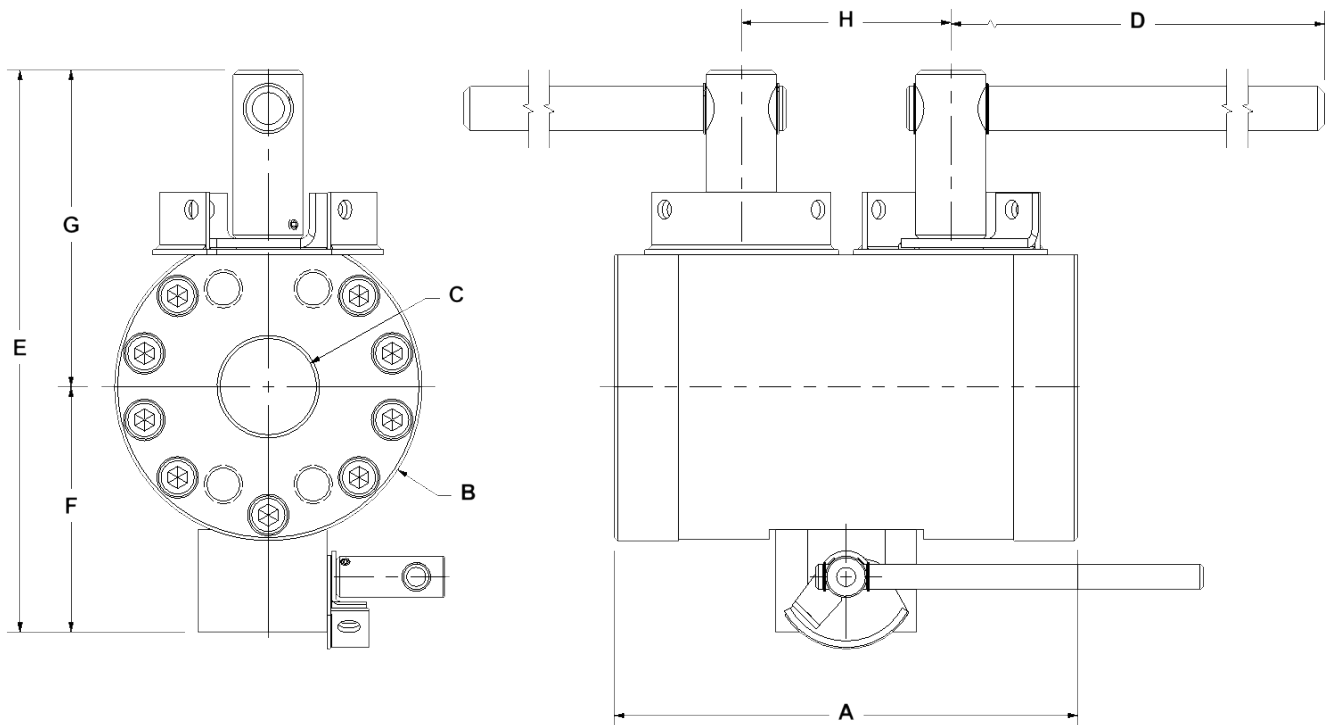


BVFD DOUBLE BLOCK AND BLEED

Dimension View



1.25" AND SMALLER WITH SCREW IN ENDS



1.50" AND LARGER WITH BOLT ON ENDS

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BVDM DIRECT MOUNT BALL VALVE

Round Body C.61/62/ANSI/DIN/DMIC

Mounts between a pressure/inlet port and the connection flange for a low-profile, localized shutoff
Models for 3000/6000 PSI ~ Sizes from ½" to 2 ½"

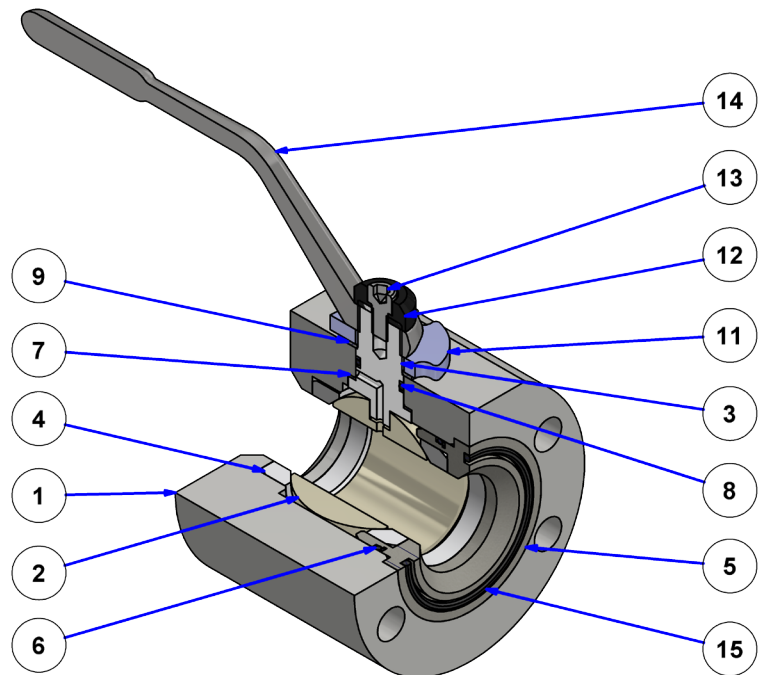


DMIC **BVDM** is the most compact and lowest cost choice when an SAE 4-Bolt or Split Flange Connection is desired. Optional stainless steel construction, wide array of sealing & options.

- **Exclusive DMIC Spindle-Glide Design** features low torque and the high duty cycle durability that differentiates DMIC from ordinary valves
- **Delrin™ Ball Seals** and Buna-N standard elastomer seals, with all DMIC sealing options available for wide fluid compatibility range
- **Reduced bore for 1" + up allows for compact, lightweight design**; all Stainless Steel construction optional, with Buyer's choice of sealing
- Available in aluminum, carbon and stainless steel construction

Service Parts BOM

BVDM	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(s)
7	1	Internal Thrust Washer
8	1	Spindle O-Ring(s)
9	1	External Glide Washer
10	1	Stop Pin (not shown)
11	1	Stop Washer
12	1	Color Code Cap
13	1	Handle Screw
14	1	Handle
15	1	Face O-Ring

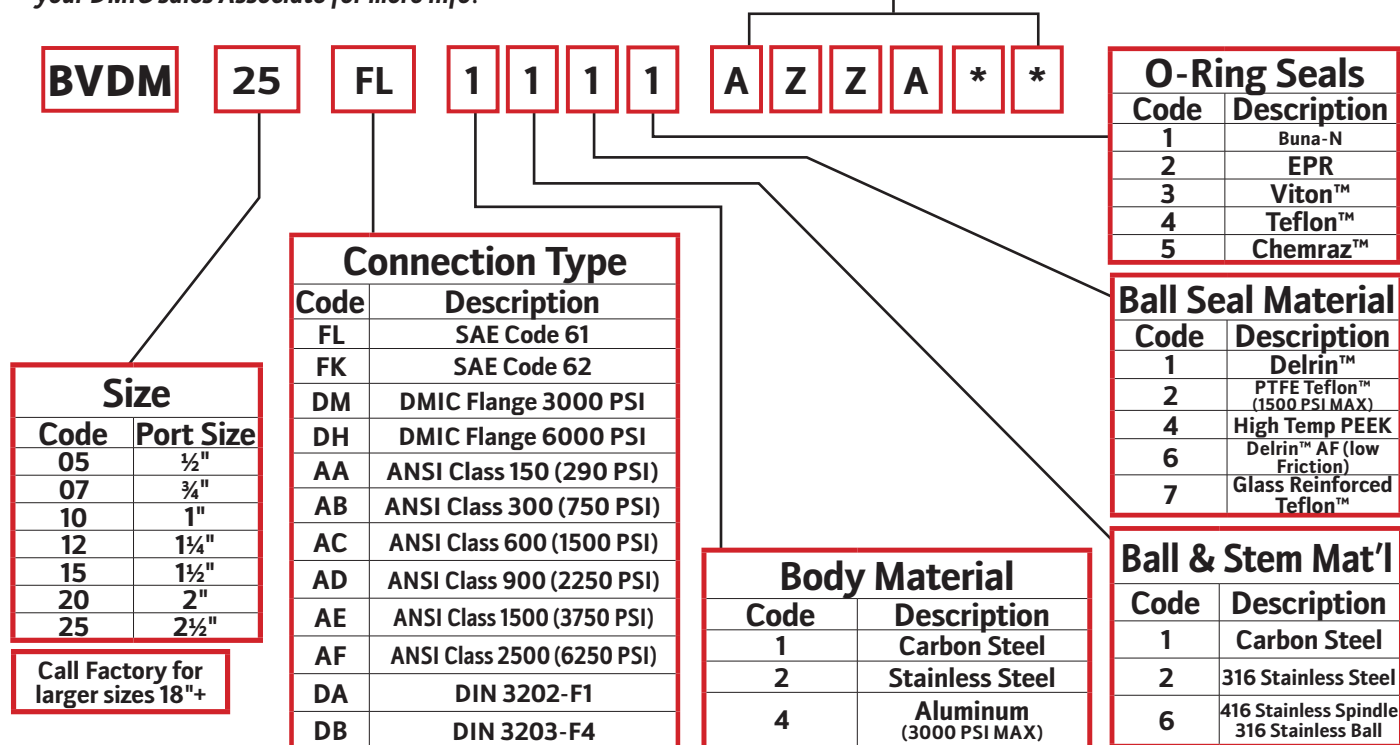


BVDM DIRECT MOUNT BALL VALVE

Ordering Codes Summary

**Please note: For valves larger than 2", large pressure differentials may make the valve difficult to open and the pressure balance may be required. Ask your DMIC sales Associate for more info!*

See page 14 for accessory codes



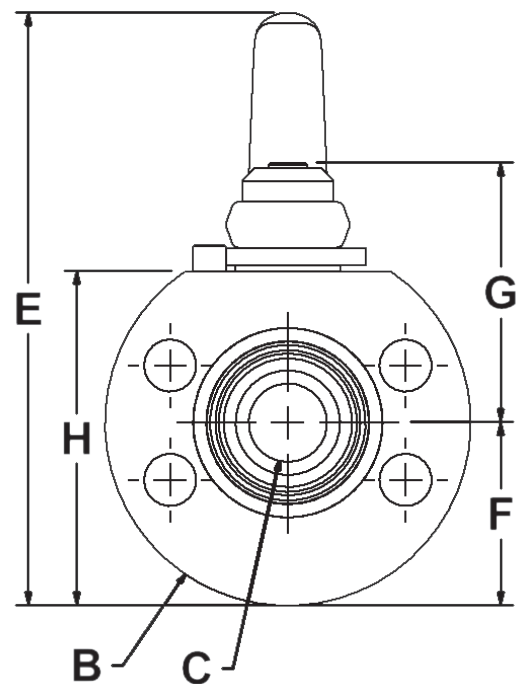
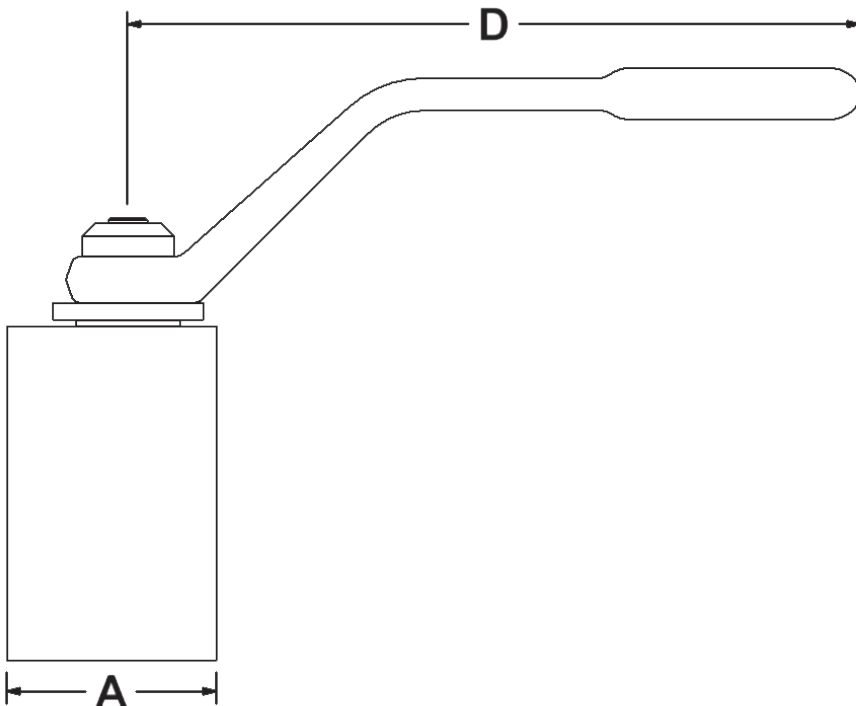
Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.

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.



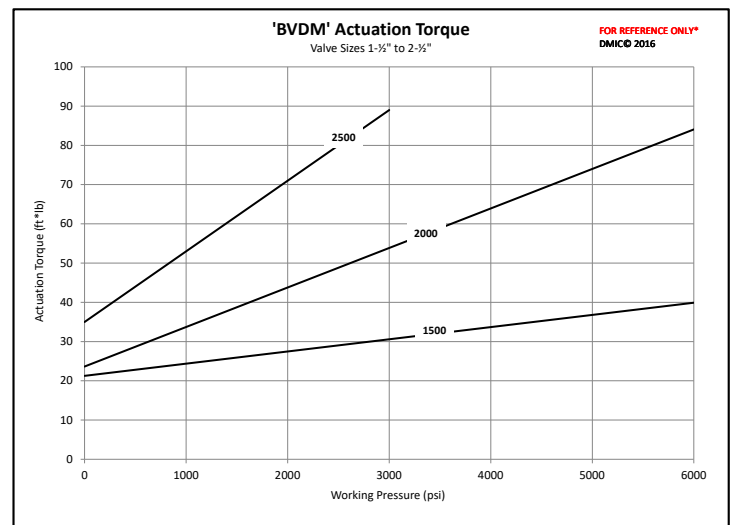
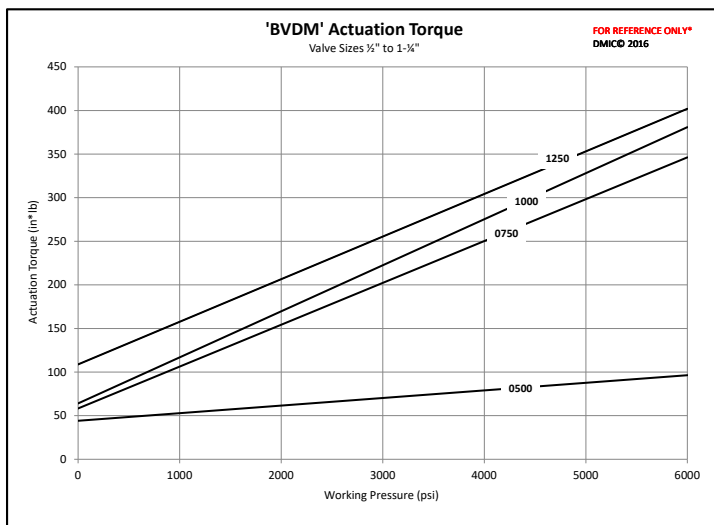
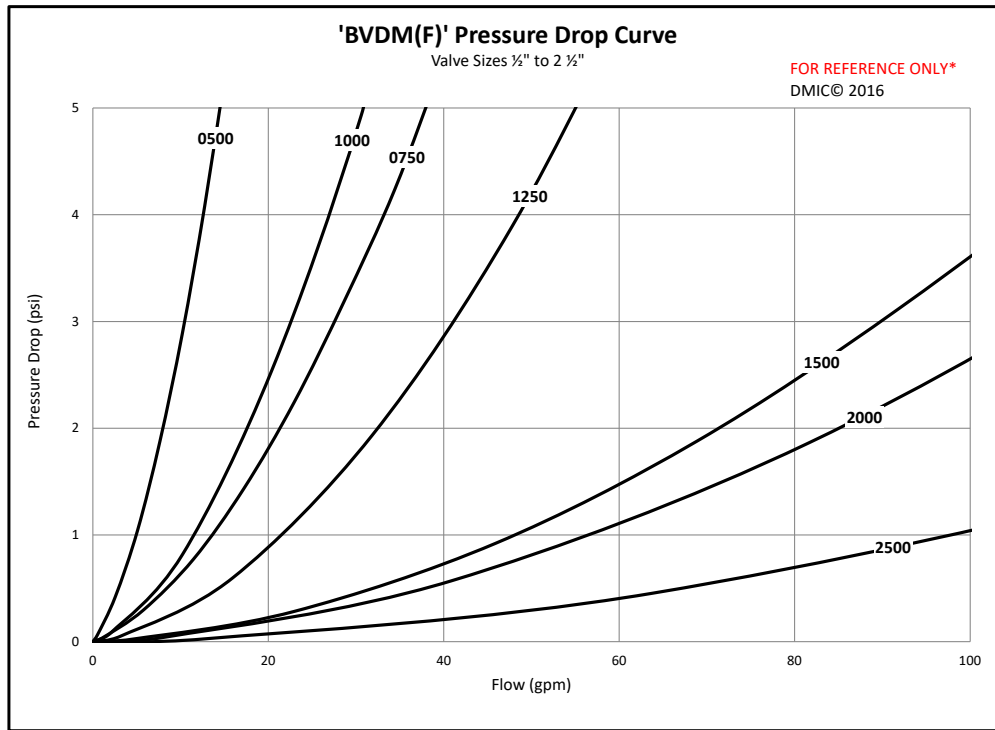
BVDM DIRECT MOUNT BALL VALVE

BVDM	Port Size	PSI Rating	Dimensions (inches)								
			A	ØB	ØC	D	E	F	G	H	O-Ring
			Valve Length	Valve Width (Dia)	Valve Bore (Dia)	Handle Length	Overall Height	Port Ctr to Bottom	Port Ctr to Top	Valve Height	-
BVDM - **FL Code 61 Direct Mount, Round Body											
BVDM-05FL****	½"	5000 PSI	1.50	2.38	0.50	4.50	3.85	1.19	1.83	2.23	2-210
BVDM-07FL****	¾"		2.00	3.25	0.75	7.00	5.37	1.63	2.31	2.90	2-214
BVDM-10FL****	1"		2.00	3.25	0.75	7.00	5.37	1.63	2.31	2.90	2-219
BVDM-12FL****	1¼"	4000 PSI	2.25	3.75	0.94	7.00	5.97	1.88	2.66	3.50	2-222
BVDM-15FL****	1½"	3000 PSI	2.75	4.25	1.25	9.86	7.11	2.13	3.11	3.91	2-225
BVDM-20FL****	2"		3.50	4.50	1.50	9.86	7.41	2.25	3.29	4.22	2-228
BVDM-25FL****	2½"	2500 PSI	4.00	5.00	1.88	9.86	7.97	2.50	3.59	4.76	2-232
BVDM - **FK Code 62 Direct Mount, Round Body, 6000 PSI											
BVDM-05FK****	½"	6000 PSI	1.50	2.50	0.50	4.50	3.92	1.25	1.83	2.30	2-210
BVDM-07FK****	¾"		2.00	3.25	0.75	7.00	5.37	1.63	2.31	2.90	2-214
BVDM-10FK****	1"		2.00	3.50	0.75	7.00	5.67	1.75	2.48	3.20	2-219
BVDM-12FK****	1¼"		2.25	4.00	0.94	7.00	6.10	2.00	3.68	3.62	2-222
BVDM-15FK****	1½"		2.75	5.00	1.25	9.86	7.94	3.57	3.51	4.75	2-225
BVDM-20FK****	2"		3.50	5.50	1.50	9.86	8.23	2.75	3.61	5.04	2-228
BVDM-25FK****	2½"		CALL FACTORY								



BVDM DIRECT MOUNT BALL VALVE

Flow Characteristic and Actuation Torque Curves



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.



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BVDMF CAPTIVE DIRECT MOUNT BALL VALVE

Round Body C.61/62/ANSI/DIN/DMIC

Mounts between a pressure/inlet port and the connection flange for a low-profile, localized shutoff
Models for 3000/6000 PSI ~ Sizes from ½" to 2 ½"

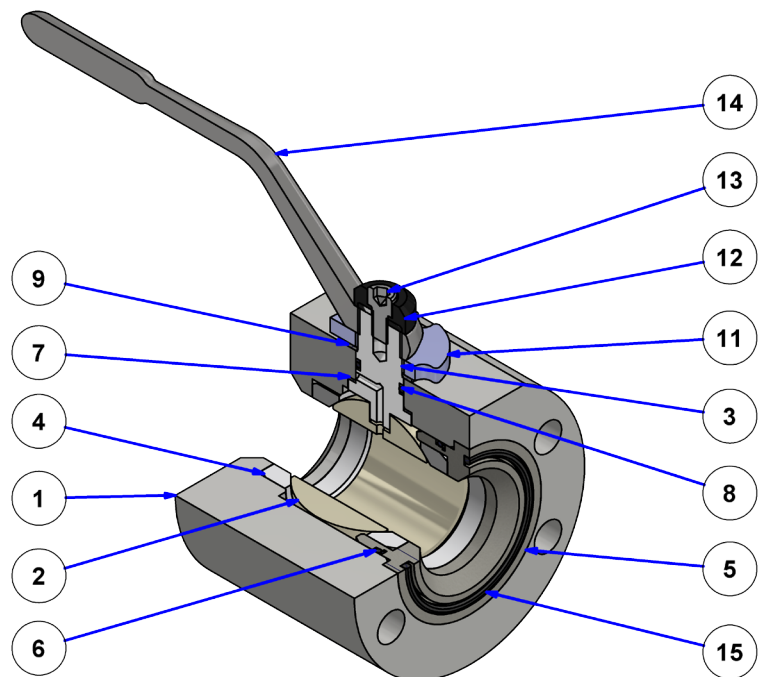
DMIC **BVDMF** is the most compact and lowest cost choice when an SAE 4-Bolt or Split Flange Connection is desired. Optional stainless steel construction, wide array of sealing & options.



- **Exclusive DMIC Spindle-Glide Design** features low torque and the high duty cycle durability that differentiates DMIC from ordinary valves
- **Delrin™ Ball Seals** and Buna-N standard elastomer seals, with all DMIC sealing options available for wide fluid compatibility range
- **Reduced bore for 1" + up allows for compact, lightweight design**; all Stainless Steel construction optional, with Buyer's choice of sealing
- Similar to BVDM but with a threaded C.61 or C.62 SAE 4-bolt Mounting Pad
- Available in aluminum, carbon and stainless steel construction

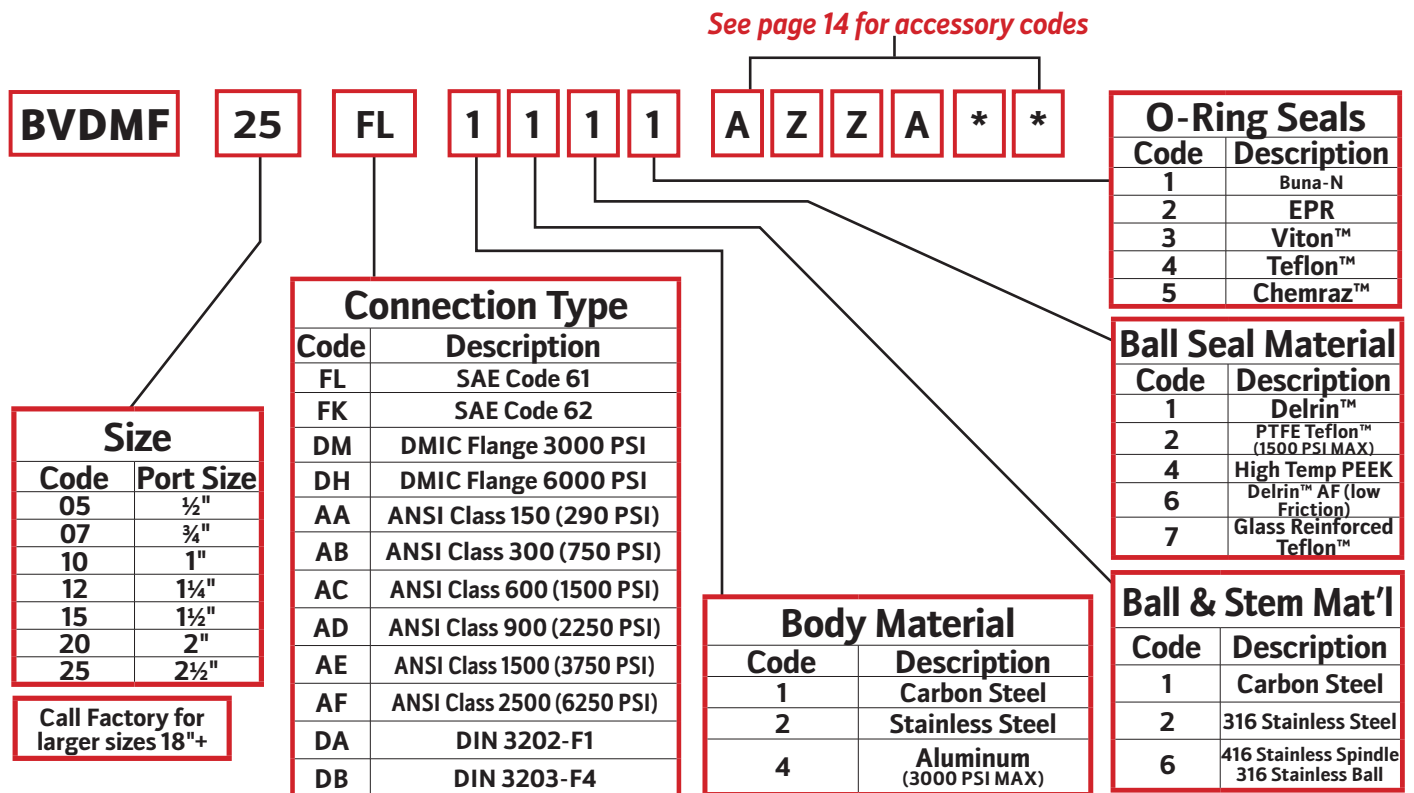
Service Parts BOM

BVDMF	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(s)
7	1	Internal Thrust Washer
8	1	Spindle O-Ring(s)
9	1	External Glide Washer
10	1	Stop Pin (not shown)
11	1	Stop Washer
12	1	Color Code Cap
13	1	Handle Screw
14	1	Handle
15	1	Face O-Ring



BVDMF CAPTIVE DIRECT MOUNT BALL VALVE

Ordering Codes Summary



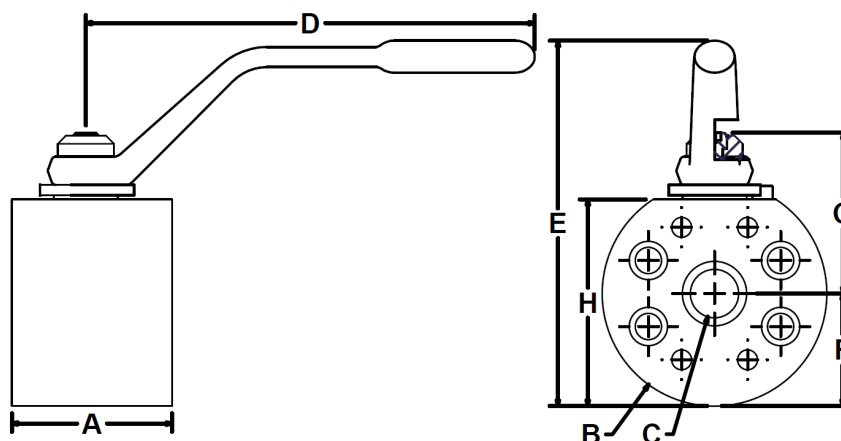
Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.

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.



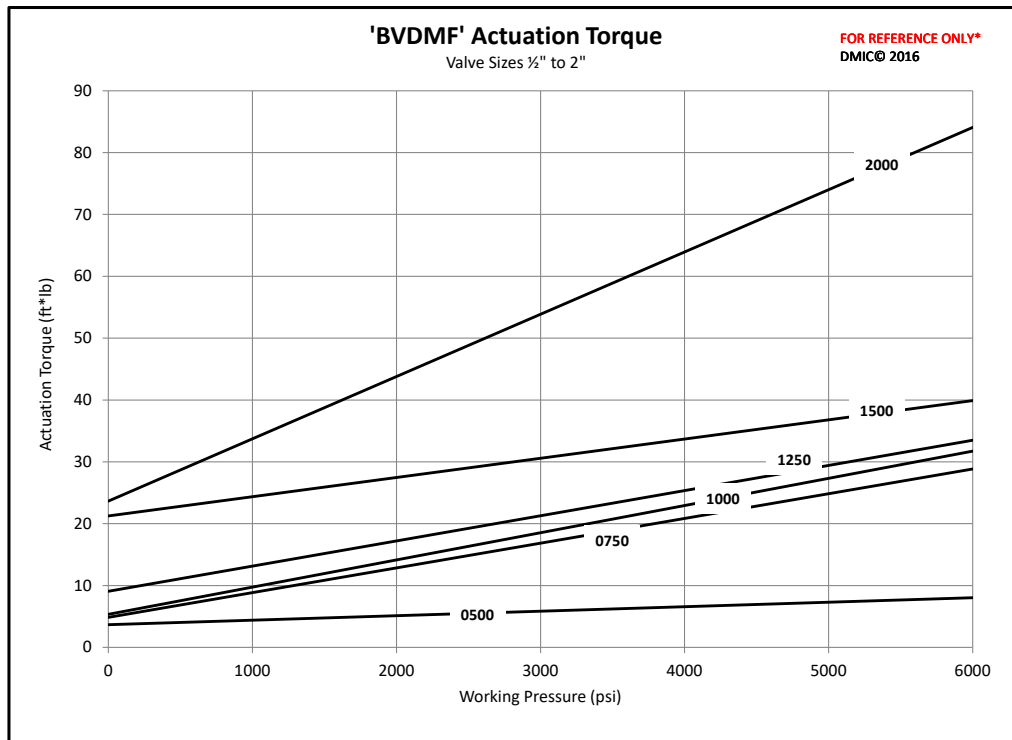
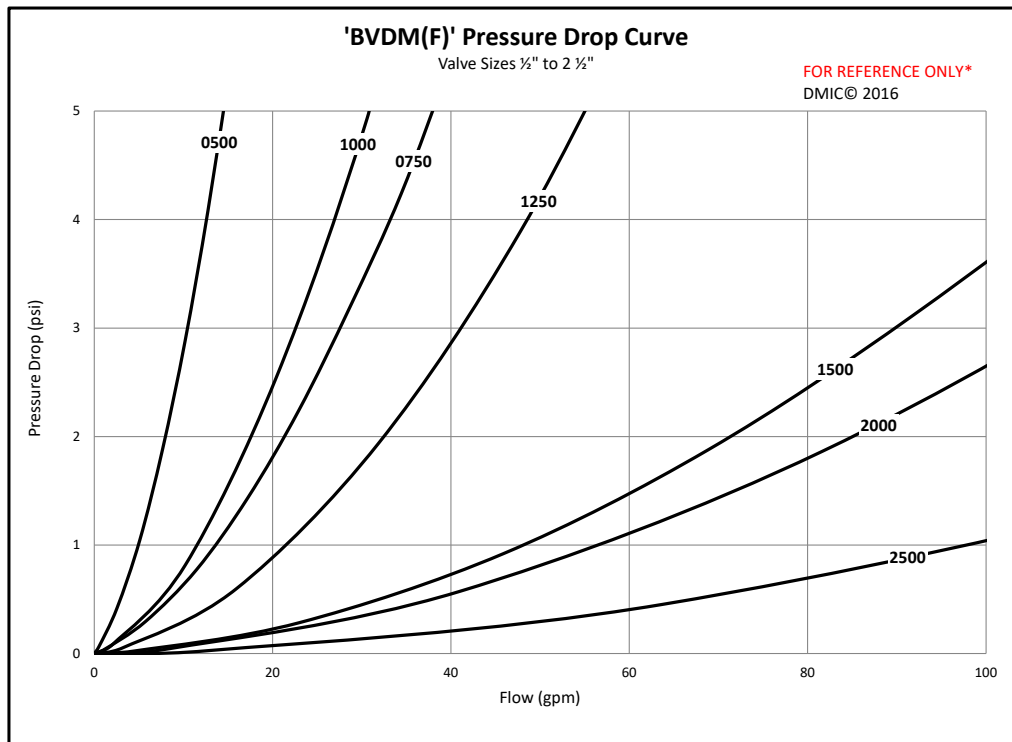
BVDMF CAPTIVE DIRECT MOUNT BALL VALVE

BVDMF	Port Size	PSI Rating	Dimensions (inches)										
			A	ØB	ØC	D	E	F	G	H	J	Counterbore Depth	O-Ring
			Valve Length	Valve Width (Dia)	Valve Bore (Dia)	Handle Length	Overall Height	Port Ctr to Bottom	Port Ctr to Top	Valve Height	Bolt Size	-	
BVDMF - **FL Code 61 Direct Mount, Round Body													
BVDMF-05FL****	½"	5000 PSI	2.00	2.63	0.50	4.50	4.09	1.31	1.94	2.46	5/16"	0.33	2-210
BVDMF-07FL****	¾"		2.50	3.50	0.75	7.00	5.71	1.75	2.53	3.24	3/8"	0.39	2-214
BVDMF-10FL****	1"		2.50	3.50	0.75	7.00	5.70	1.75	2.50	3.22	3/8"	0.41	2-219
BVDMF-12FL****	1¼"	4000 PSI	3.00	4.00	0.94	7.00	6.09	2.00	2.66	3.62	7/16"	0.45	2-222
BVDMF-15FL****	1½"	3000 PSI	3.25	4.50	1.25	9.86	7.42	2.25	3.30	4.23	½"	0.53	2-225
BVDMF-20FL****	2"		3.50	5.00	1.50	9.86	7.98	2.50	3.61	4.79	½"	0.53	2-228
BVDMF-25FL****	2½"	2500 PSI	CALL FACTORY										
BVDMF - **FK Code 62 Direct Mount, Round Body, 6000 PSI													
BVDMF-05FK****	½"	6000 PSI	2.00	2.75	0.50	4.50	4.15	1.38	1.94	2.53	5/16"	0.33	2-210
BVDMF-07FK****	¾"		2.50	3.50	0.75	7.00	5.71	1.75	2.52	3.24	3/8"	0.39	2-214
BVDMF-10FK****	1"		2.50	3.75	0.75	7.00	5.96	1.88	2.66	3.49	7/16"	0.45	2-219
BVDMF-12FK****	1¼"		3.00	4.50	0.94	7.00	6.64	2.25	2.95	4.16	½"	0.52	2-222
BVDMF-15FK****	1½"		3.25	4.50	1.25	9.86	7.94	2.50	3.57	4.75	5/8"	0.66	2-225
BVDMF-20FK****	2"		4.25	6.00	1.50	9.86	8.86	3.00	3.99	5.67	¾"	0.78	2-228
BVDMF-25FK****	2½"		CALL FACTORY										



BVDMF CAPTIVE DIRECT MOUNT BALL VALVE

Flow Characteristic and Actuation Torque Curves

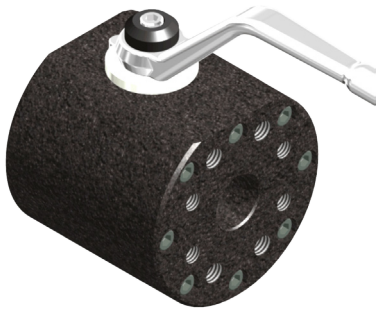


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BVSS DUAL PATTERN SAE 4-BOLT BV, C.61 & 62

Replaces expensive and long-delivery foreign valves
6000 PSI ~ Sizes from ½" to 2"



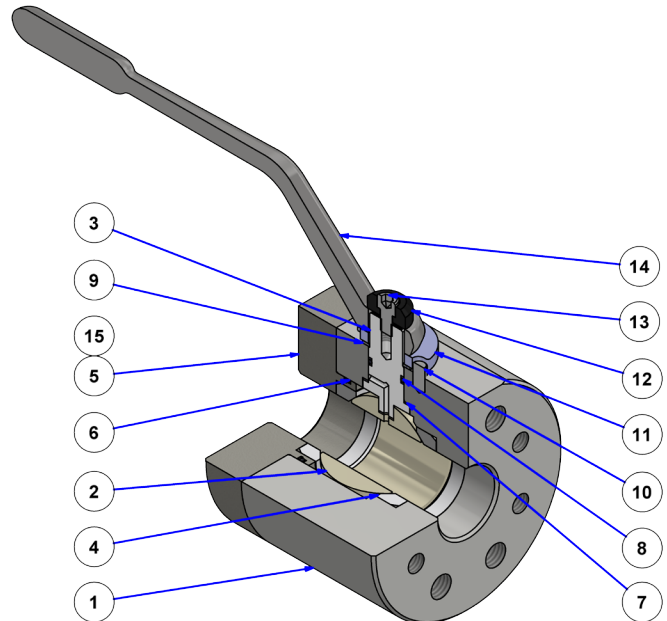
DMIC **BVSS** economically covers all the bases in SAE 4-Bolt C.61 & 62 Flange connections. This is the valve to stock if you can only keep one model, and it can bridge dissimilar flange standards.

- **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 and temperature compatibility range
- **Unrestricted bore ball** reduces pressure drop
- **Available in Stainless Steel - Fast Delivery**

Service Parts BOM

BVSS	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(s)
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
15	9*	End Connection Screws

*Quantity depends on size and configuration



BVSS DUAL PATTERN SAE 4-BOLT BV, C.61 & 62

See page 14 for
accessory codes

Valve Series	
Code	Port Size
BVSS	SAE Dual C.61/62

BVSS

20

FK

1

1

1

1

A

Z

Z

A

Size	
Code	Port Size
05	½"
07	¾"
10	1"
12	1¼"
15	1½"
20	2"

Call Factory for
larger sizes 18"+

Connection Type	
Code	Description
FK	Dual SAE C.61/62 (Standard on BVSS)

Body Material	
Code	Description
1	Carbon Steel
2	Stainless Steel

Ball & Spindle Mat'l	
Code	Description
1	Carbon Steel
2	Stainless Steel
6	416 Stainless Spindle 316 Stainless Ball

Ball Seal Material	
Code	Description
1	Delrin™
2	PTFE Teflon™ (1500 PSI MAX)
4	High Temp PEEK
6	Delrin™ AF (low Friction)
7	Glass Reinforced Teflon™

O-Ring Seals	
Code	Description
1	Buna-N
2	EPR
3	Viton™
4	Teflon™
5	Chemraz™

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

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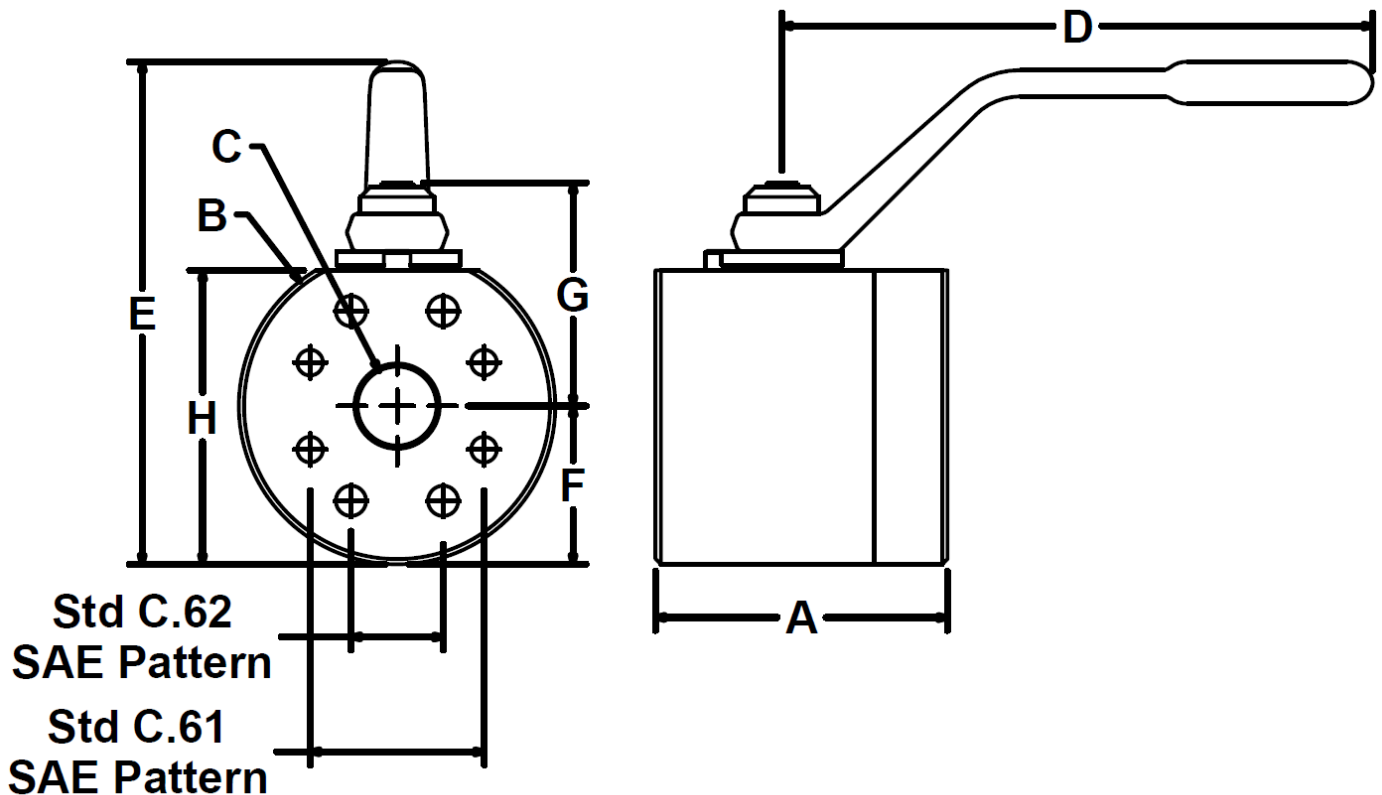


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BVSS DUAL PATTERN SAE

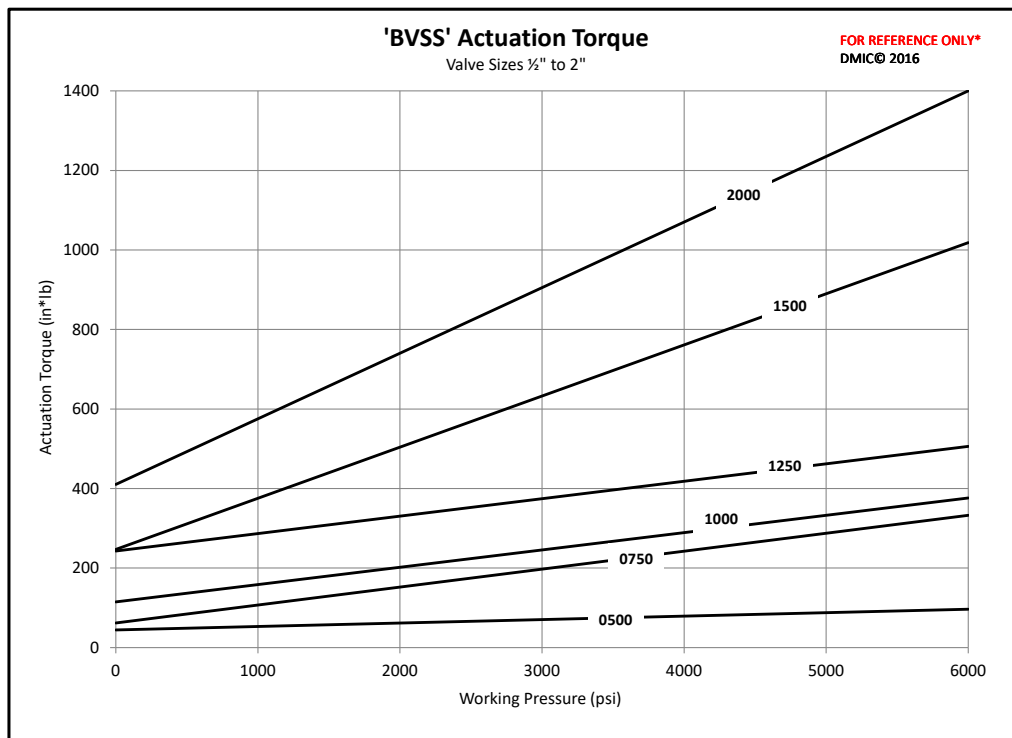
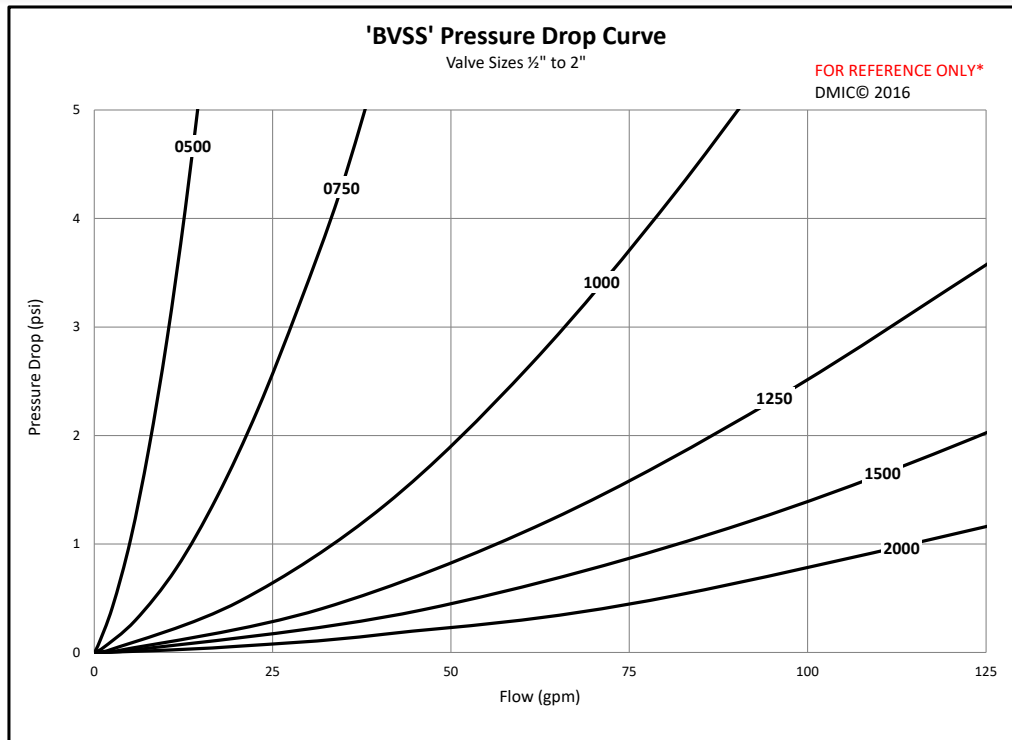
4-BOLT BV, C.61 & 62

BVSS	Dimensions (inches)										
	Port Size	PSI Rating C.61	PSI Rating C.62	A Valve Length	B Valve Width	ØC Valve Bore	D Handle Length	E Overall Height	F Bot to PortCtr	G PortCtr to Top	H Valve Height
BVSS-05FK****	½"	5000	6000	2.30	2.75	0.50	4.50	4.15	1.38	1.94	2.53
BVSS-07FK****	¾"			3.15	3.50	0.75	7.00	5.73	1.75	2.55	3.26
BVSS-10FK****	1"			3.46	3.75	0.94	7.00	5.96	1.88	2.65	3.48
BVSS-12FK****	1¼"	4000		3.94	4.44	1.25	9.86	7.38	2.22	3.29	4.18
BVSS-15FK****	1½"	3000		4.48	5.00	1.50	9.86	7.96	2.50	3.59	4.77
BVSS-20FK****	2"			4.57	6.00	1.88	9.86	8.79	3.00	3.92	5.60



BVSS DUAL PATTERN SAE 4-BOLT BV, C.61 & 62

Flow Characteristic and Actuation Torque Curves



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ASV ACCUMULATOR SAFETY VALVE

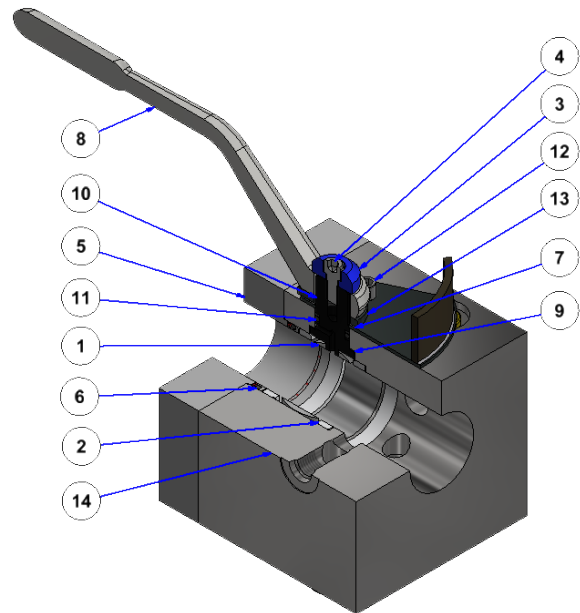
DMIC Accumulator Safety Valves are designed with all the standard features required to properly Isolate, drain and relieve hydraulic pressure stored in hydraulic accumulators. The assembly consists of a main isolation ball valve with handle for manual operation. The valve block includes industry standard size CO8-2 cartridge valve cavities for drain valve, relief valve and optional solenoid drain valve. If Solenoid is not being used, a CO8-2 Cavity plug is required. Available upon request. Cartridge valves are not included and alternate cavity ports are available upon request.



- Standard designs for carbon steel rated up to 6000 psi. Stainless steel and aluminum valve bodies are also available as options.
- A wide array of connection types are available limiting the need for additional accumulator and pressure side adapter fittings. DMIC can also offer ASV valves with SAE J518 flange connections, consult factory for valve dimensions and availability.
- Manifold mounted options are available as special order. This includes multiple valve header manifolds and assemblies.
- Standard valves include drain port and gauge ports, SAE-4 O-Ring Boss. Other sizes available upon request.
- Temperature Range: -60°F to 400°F (Depending on Material Combinations)
- An extensive variety of additional accessories are available as with all DMIC valves including handle type, locks, limit switches etc. See DMIC Ball Valve Catalog for options.

Service Parts BOM

ASV Index	Qty	SERVICE PARTS BOM Description
1	1	Ball
2	2	Ball Seal
3	1	Color Code Cap
4	1	Color Code Cap Screw
5	1	End Connection
6	1	End Connection O-Ring
7	1	External Glide Washer
8	1	Handle
9	1	Internal Thrust Washer
10	1	Shaft
11	1	Shaft O-Ring
12	1	Stop Pin
13	1	Stop Washer
14	1	Valve Body



ASV ACCUMULATOR SAFETY VALVE

See page 14 for
accessory codes

ASV 2000 N 1 1 1 1 A Z Z A * *

Size	
Code	Port Size
0750	¾"
1000	1"
1500	1½"
2000	1⅞"

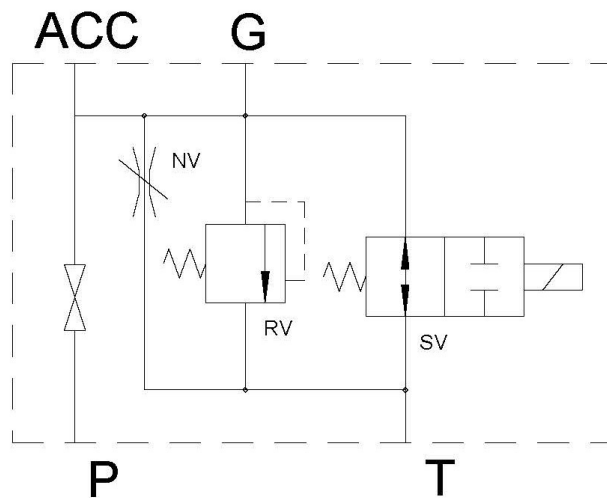
O-Ring Material	
Code	Description
1	Buna-N
2	EPR
3	FKM
4	PTFE
F	FFKM
7	Buna-3716 (Low Temp)

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

Body & End Connections	
Code	Description
1	Carbon Steel
2	Stainless Steel- Type 316
4	Aluminum

Ball & Spindle Mat'l	
Code	Description
1	Carbon Steel
2	Stainless Steel- All 316 Internal
6	416 SS Spindle 316 SS Ball

Seals, Bushings, Washers	
Code	Description
1	Acetal
4	High Temp PEEK
6	Delrin™ AF (Low Friction)



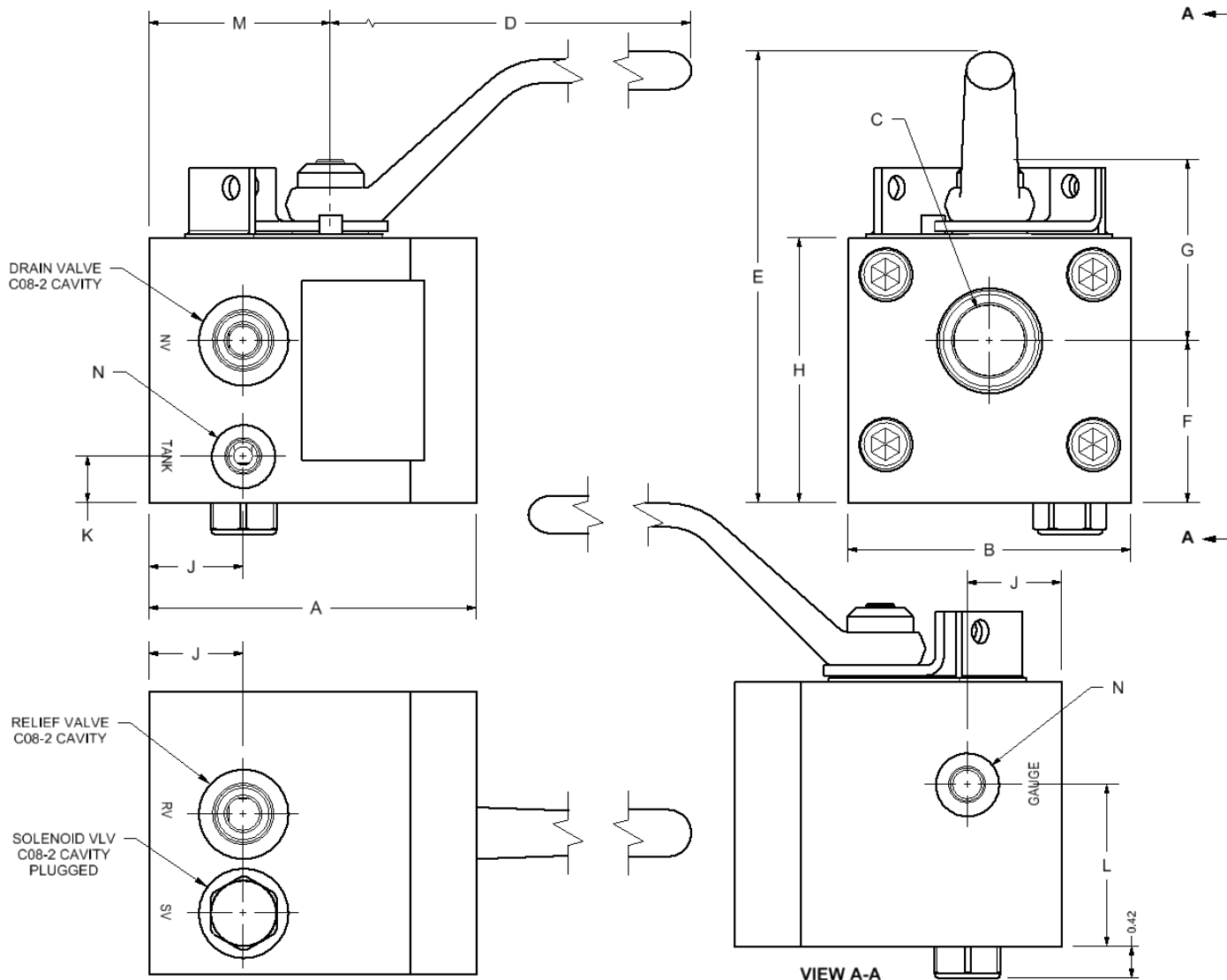
Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.

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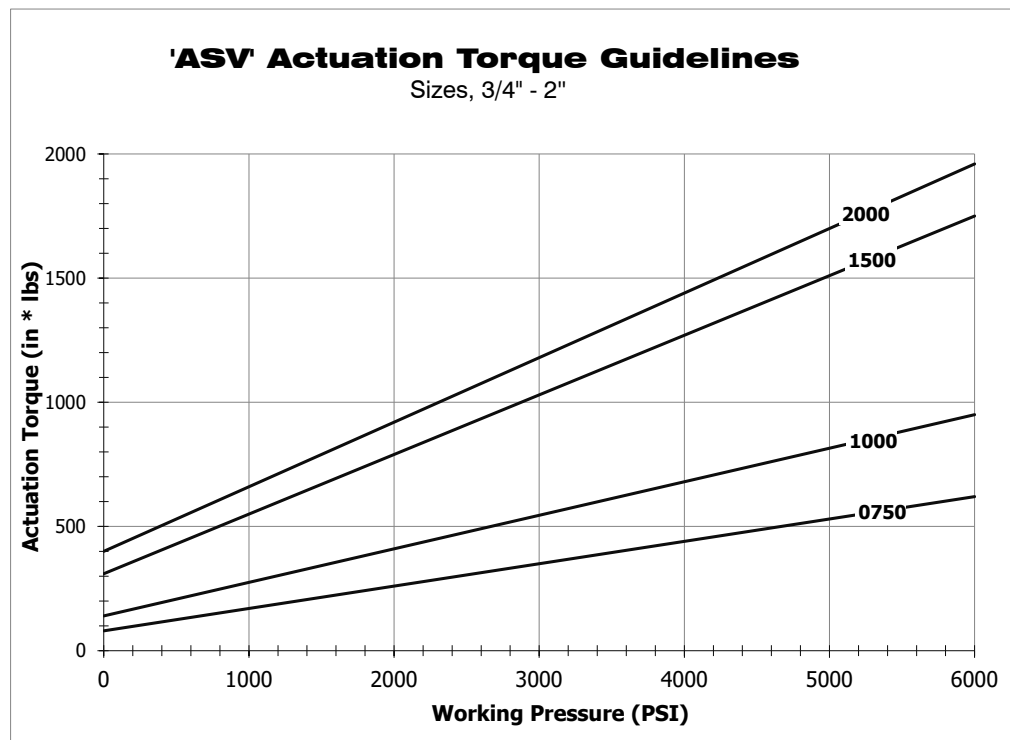
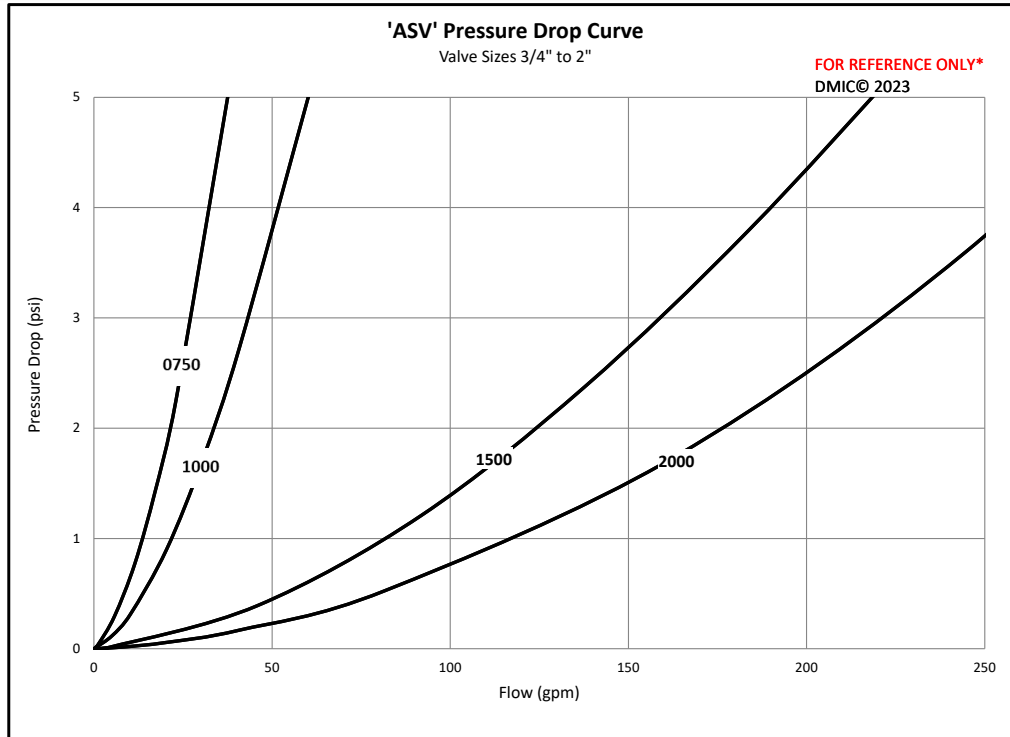
ASV ACCUMULATOR SAFETY VALVE

ASV		Dimensional Information												
Standard Threaded Connections (6000 PSI)														
Dimension (Inches)		A	B	C	D	E	F	G	H	J	K	L	M	N
Port Code(s)	Port Size	Overall Length	Body Width	Bore Size	Handle Length	Overall Height	Bottom to Port Center	Port Center to Top	Body Height	Ports & Cavities	Port	Port	End To Handle Center	Tank & Gauge Port
N S B I U T	¾"	4.34	3.50	0.75	7.00	5.72	2.00	2.29	3.25	1.38	0.61	2.00	2.73	SAE-4
	1"	4.34	3.75	0.94	7.00	5.97	2.14	2.39	3.50	1.25	0.61	2.13	2.41	SAE-4
	1 ½"	5.46	4.50	1.50	9.86	7.51	2.25	3.34	4.25	1.25	0.61	2.13	3.00	SAE-4
	2"	6.19	5.50	1.88	9.86	8.26	2.71	3.63	5.00	1.25	0.61	2.50	3.18	SAE-4



ASV ACCUMULATOR SAFETY VALVE

Flow Characteristic and Actuation Torque Curves



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SV2C & SV3C

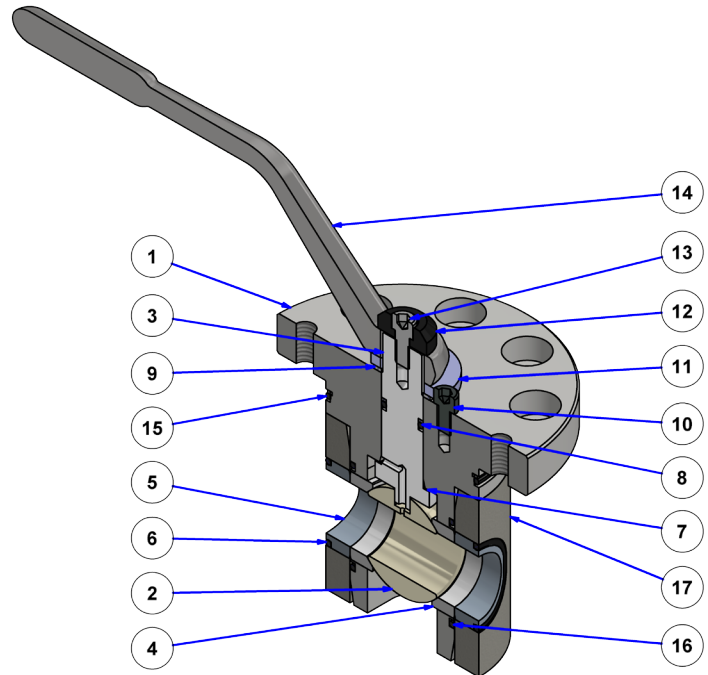
2-Way and 3-Way Intramanifold Valves



- Install this DMIC high quality valve directly into your existing or production manifold using an easy-to-machine blind hole cavity.
- DMIC's ingenious design is easy to install, eliminating the possibility of cutting o-rings on cross holes.
- Completely compatible with DMIC's full range of accessories.
- Available in sizes ranging from ½" through 2" with pressure ratings up to 6000 PSI
- Construction available in carbon or stainless steel with full line of seal and elastomer materials.
- Larger sizes available upon request.

Standard size range of ½" through 2", with larger custom sizes available!

SVxC	SERVICE PARTS BOM	
Index	Qty	Description
1	1	Valve Body
2	1	Ball
3	1	Spindle
4	3	Ball Seal
5	2	Outer Bushing
6	2	Outer Bushing O-Rings
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
15	1	Upper Body O-Ring(s)
16	2	Lower Body O-Ring(s)
17	2	Outer Bushing Plate
*Quantity depends on size and configuration		



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Intramanifold Valve Order Codes

See page 14 for accessory codes

SV2C
or
SV3C

Size Codes	
Code	Port Size
0500	½"
0750	¾"
1000	1"
1250	1¼"
1500	1½"
2000	2"

Call Factory for larger sizes 18"+

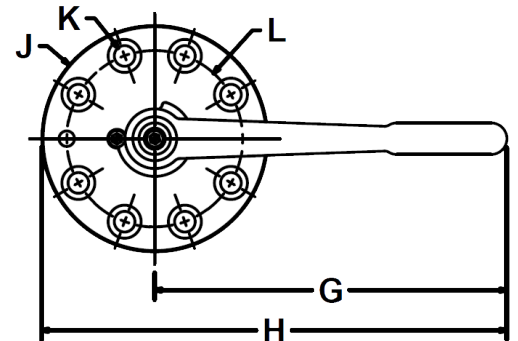
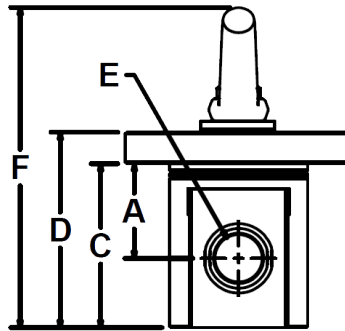
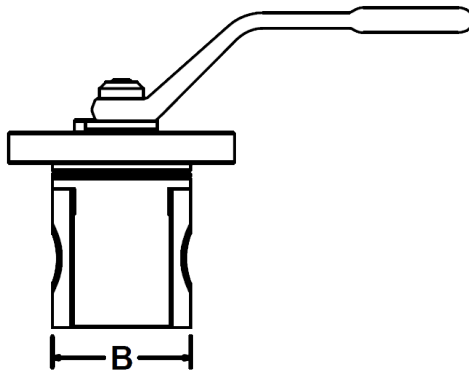
Ball Pattern	
SV2C	
Not Needed	
SV3C	
A	90° L-Bore Diverter, Port Overlap
B	L - No Overlap - Bore 180° Action

Body Material	
Code	Description
1	Carbon Steel
2	316 Stainless Steel

O-Ring Material	
Code	Description
1	Buna-N
2	EPR
3	Viton™
4	Teflon™
5	Chemraz™
6	Kalrez
7	Buna-3716 (Low Temp)

Ball Seal Material	
Code	Description
1	Delrin™
2	PTFE Teflon™ (1500 PSI MAX)
4	High Temp Peek
6	Delrin™ AF (Low Friction)
7	Glass Reinforced Teflon™

Ball & Spindle Mat'l	
Code	Description
1	Carbon Steel
2	316 Stainless Steel
6	416 Spindle 316 Ball



SV*C	Port Size	PSI Rating	Dimensions (inches)											
			A	B	C	D	E	E	F	G	H	J	K	L
			Port to Locating Shoulder	Insert Diameter	Insert Length	Cage Height	Thru Port SV2C	Thru Port SV3C	Overall Height	Handle	Overall Length	Shoulder Diameter	Hole Size	Bolt Circle
SV*C-0500****	½"	6000 PSI	1.38	2.00	2.38	3.00	0.38	0.44	4.62	4.50	6.25	3.50	0.41	2.750
SV*C-0750****	¾"		1.79	2.50	3.04	3.66	0.75	0.69	6.14	7.00	9.00	4.00	0.41	3.125
SV*C-1000****	1"		1.88	2.75	3.25	3.88	0.94	0.88	6.35	7.00	9.25	4.50	0.41	3.500
SV*C-1250****	1¼"		2.00	3.25	3.50	4.38	1.25	1.13	7.57	9.86	12.36	5.00	0.53	4.125
SV*C-1500****	1½"		2.68	4.50	4.88	6.00	1.50	1.50	9.19	9.86	13.36	7.00	0.66	5.500
SV*C-2000****	2"		2.92	5.75	5.04	6.40	2.00	1.75	9.59	9.86	14.11	8.50	0.78	7.000

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

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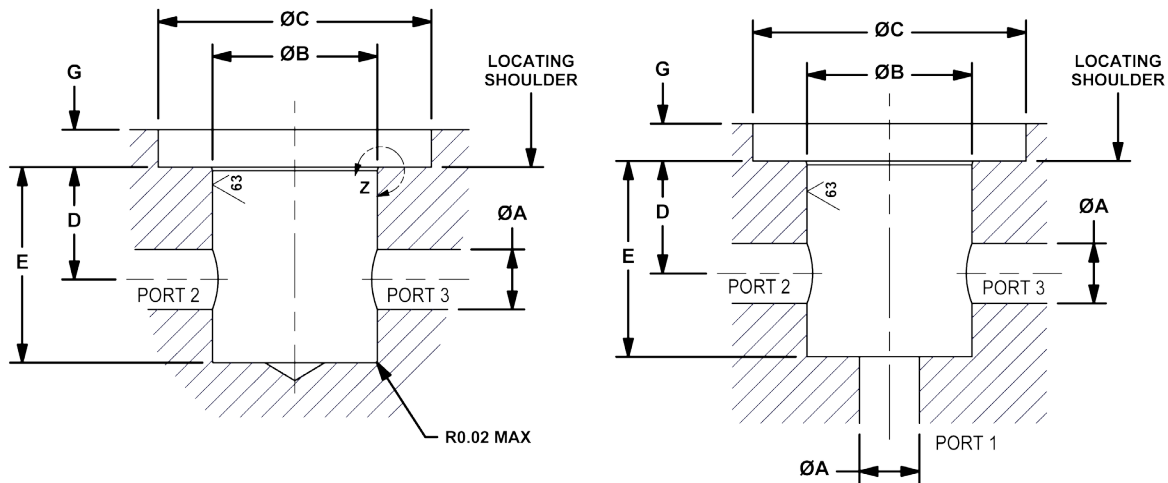
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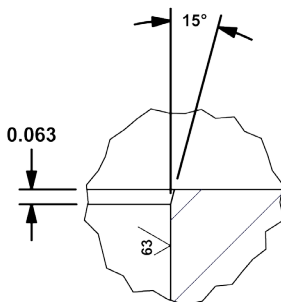
SV2C & SV3C

Insert Valves	Port Size	PSI Rating	Cavity Dimensions (inches)								
			A	B	C	D	E	F	G	-	H
			Valve Bore (±0.010)	Cavity Bore (+0.003 /-0.000)	Shoulder Diameter (+0.015 /-0.000)	Cntr of Bore to Btm of Shoulder (±0.005)	Cavity Depth (+0.000 /-0.015)	Bolt Circle (±0.010)	Shoulder Depth (±0.005)	Mounting Bolts (8x)	Min tap depth
SV2C-0500****	½"	6000 PSI	0.500	2.003	3.560	1.375	2.390	2.750	0.625	⅜-16UNC	0.630
SV3C-0500****											
SV2C-0750****	¾"		0.750	2.503	4.060	1.786	3.051	3.125	0.625	⅜-16UNC	0.630
SV3C-0750****											
SV2C-1000****	1"		1.000	2.753	4.560	1.875	3.265	3.500	0.625	⅜-16UNC	0.630
SV3C-1000****											
SV2C-1250****	1¼"		1.250	3.253	5.060	2.000	3.515	4.125	0.875	½-13UNC	1.000
SV3C-1250****											
SV2C-1500****	1½"		1.500	4.503	7.060	2.680	4.890	5.500	1.125	⅝-11UNC	1.250
SV3C-1500****											
SV2C-2000****	2"		2.000	5.753	8.560	2.915	5.055	7.000	1.375	¾-10UNC	1.500
SV3C-2000****											

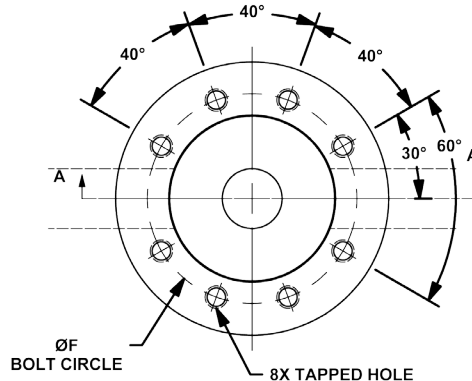


Machine Note:

- 'G' Depth x ØC to locating shoulder option for recessing valve cap.
- Port 1 is always the inlet, valve leakage will occur if ΔP into closed Port at 2 or 3.
- H - min tap depth

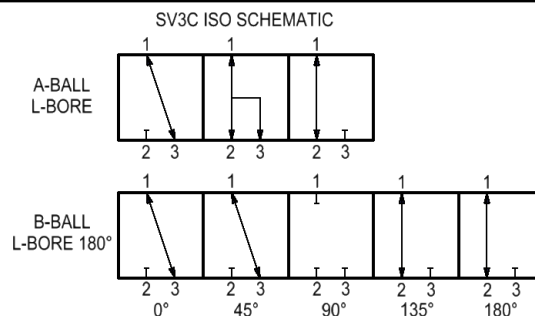
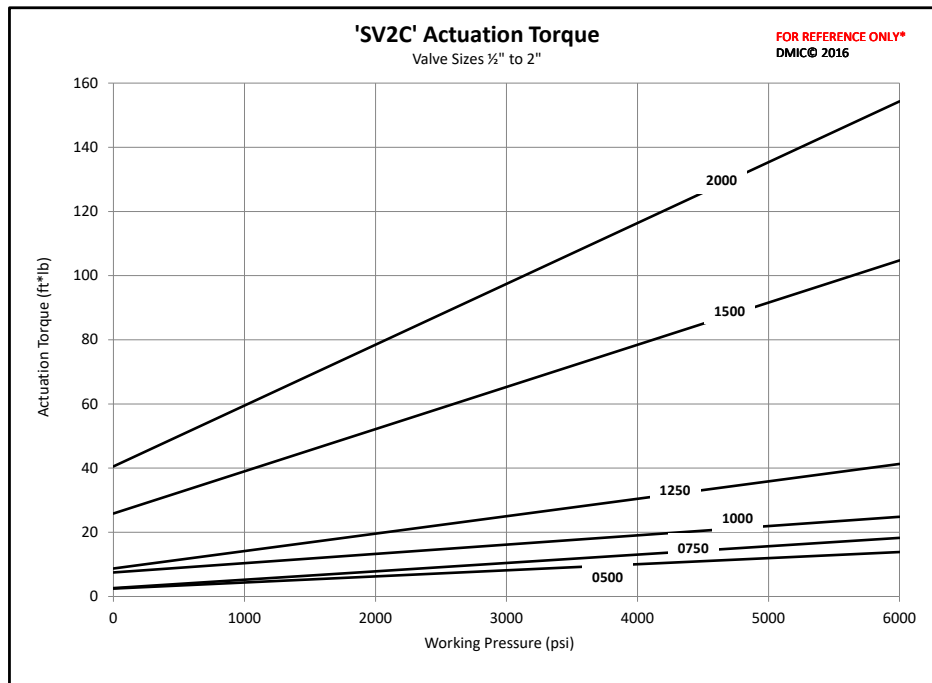
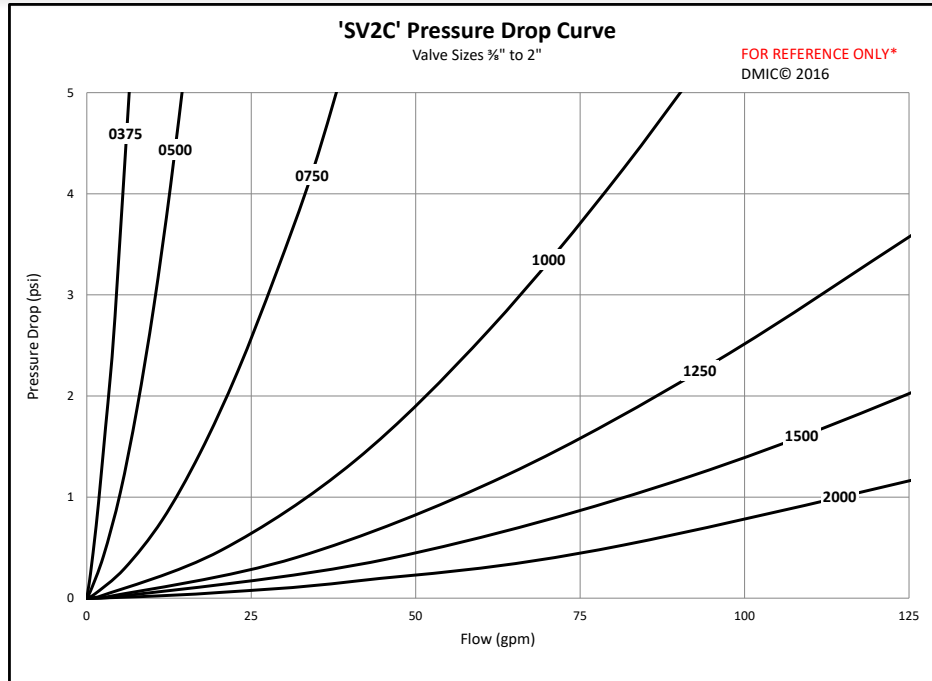


DETAIL Z
SCALE 2



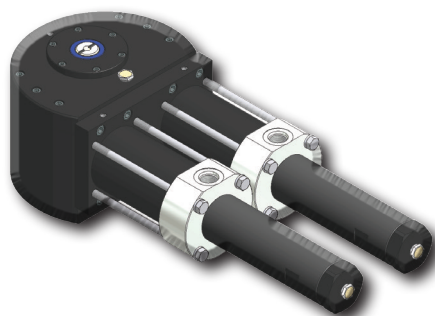
SV2C & SV3C

Flow Characteristic and Actuation Torque Curves



HYDRAULIC ACTUATORS

A Hydraulic Alternative to Standard Electric or Pneumatic 3000 PSI Max Operating Pressure ~ Dual Acting



DMIC is proud to offer our line of hydraulic actuators for ¼" turn ball valves, an alternative to pneumatic or electric actuation, with high torque outputs in a small package. DMIC hydraulic actuators work with all DMIC ball valves and can easily be specified by adding the appropriate ordering codes to your ball valve selection!

DMIC actuators include these great features:

- 3,000 PSI maximum operating pressure
- Flow indicator
- Easily accepts other accessories, like limit switches or proximity sensors
- Smooth operation with dependable quality you've come to expect from DMIC
- Over 1,000,000 cycles life (before repacking)
- Compact designs can deliver up to nearly 4,000ft*lbs of torque

ACD-HAE Shown

Actuators	MAX PSI Rating	MAX Torque in-lbs (ft-lbs)	Dimensions (inches)											Cycle Time	Input Flow
			A	B	C	D	E	F	G	H	J	K	L		
			Length	Length	Overall Length	Overall Height	Overall Width	Shaft Size	Port Center Distance	Shaft Height	Height	Distance	Port Size		
ACD-HAE	3000 PSI	7,680 (640 ft-lbs)	16.24	3.50	18.98	6.80	7.45	1.13	3.84	1.34	1.05	8.66	SAE-8	0.52 sec	2 GPM
ACD-HAG		23,160 (1,930 ft-lbs)	25.78	6.00	30.03	9.21	11.47	1.75	6.08	1.78	1.23	13.94	SAE-16	0.63 sec	5 GPM
ACD-HAJ		48,480 (4,040 ft-lbs)	33.88	8.00	39.67	11.83	15.97	2.31	8.78	2.61	2.43	18.40	SAE-16	0.82 sec	8 GPM

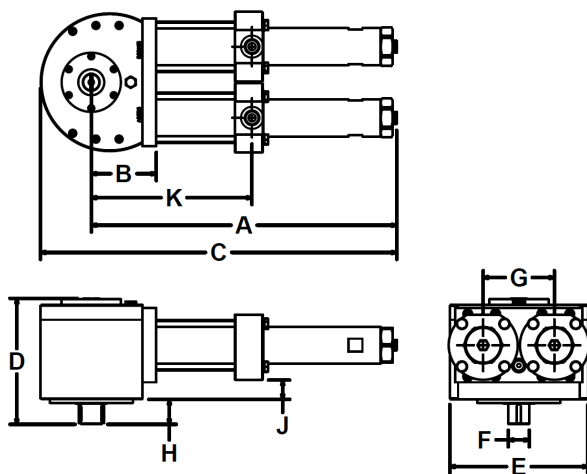
Order Codes

ACD

HAE

ACT Series

Code	Range
HAE	Medium Torque
HAG	Hi Torque
HAI	Extreme Torque



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.



NOTES:



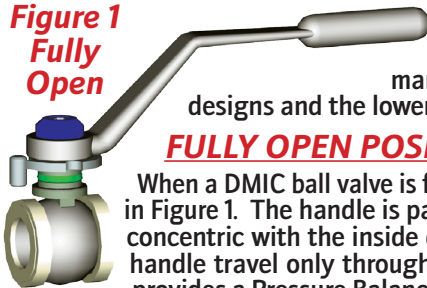
TECHNICAL APPENDIX

*A Guide for Engineers and Designers who wish to
verify technical characteristics or Engineering parameters.*



Floating Balanced Ball Design, Principles of Operation

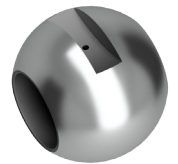
Figure 1
Fully
Open



This discussion of DMIC's Floating Balanced Ball Valve Design operation is primarily applicable to DMIC's High Pressure Ball Valves, although many aspects of operation are shared among the "trunnion ball" multiway designs and the lower pressure aluminum valves.

FULLY OPEN POSITION (Figure 1)

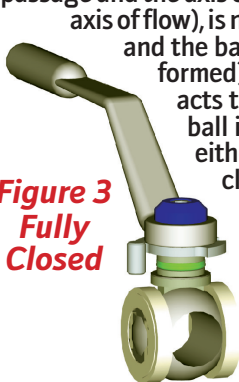
When a DMIC ball valve is fully open, the internal parts are aligned within the valve body as illustrated in Figure 1. The handle is parallel to the axis of fluid flow (factory default), and the ball openings are concentric with the inside diameters of the ball seals. A cam path cut into the stop washer permits handle travel only through 90° of arc, which is why a 2-way ball valve is considered a "quarter-turn" valve. DMIC provides a Pressure Balancing Orifice in its balls which allows the medium to permeate the cavity within the valve at line pressure to moisten and prevent deterioration of valves left stationary for long periods of time.



PARTIALLY CLOSED POSITION (Figure 2)

When the handle is turned from the 0° position, the tab at the bottom of the spindle causes the ball to rotate proportionally and alters the ball valve assembly's effective cross-sectional area, thereby "closing" the valve. As the angle increases between the ball fluid passage and the axis of flow, the ball, which was previously constrained to pivot radially by the spindle tab (perpendicular to the axis of flow), is now permitted to pivot axially along the hypotenuse of a right triangle drawn between the axis of flow and the ball fluid passage (with force generated upon the ball seals proportional to the sine of the angle formed). At 90°, the sine equals one, the valve is fully closed, and all force exerted by fluid pressure acts to move the ball against the ball seals - hence, the ball is now fully "FLOATING" because it is free to pivot against and exert a force upon either downstream ball seal in response to forces arising from pressure at the upstream closing port.

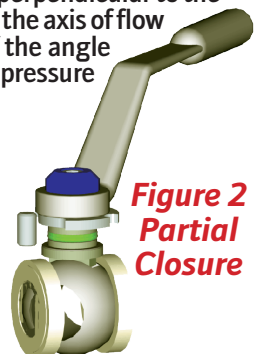
Figure 3
Fully
Closed



FULLY CLOSED POSITION (Figure 3)

In the fully closed position, the solid ball surface completely blocks the valve fluid passage and upstream line pressure exerts force upon the floating ball, pressing it into the downstream hard thermoplastic ball seal. With the ball's slight axial displacement toward the downstream seal, the upstream ball seal breaks contact with the ball and rides the meniscus. DMIC's innovative Pressure Balancing Orifice in each of our balls allows fluid at upstream pressure to permeate the entire cavity of the closed valve, getting all the way around to the only ball seal that is actually sealing, and even behind it. A precision ridge machined opposite the ball seat of DMIC's Ball Seals acts as an additional surface upon which full line pressure is exerted, improving both low and high pressure sealing in DMIC Ball Valves relative to ordinary brands.

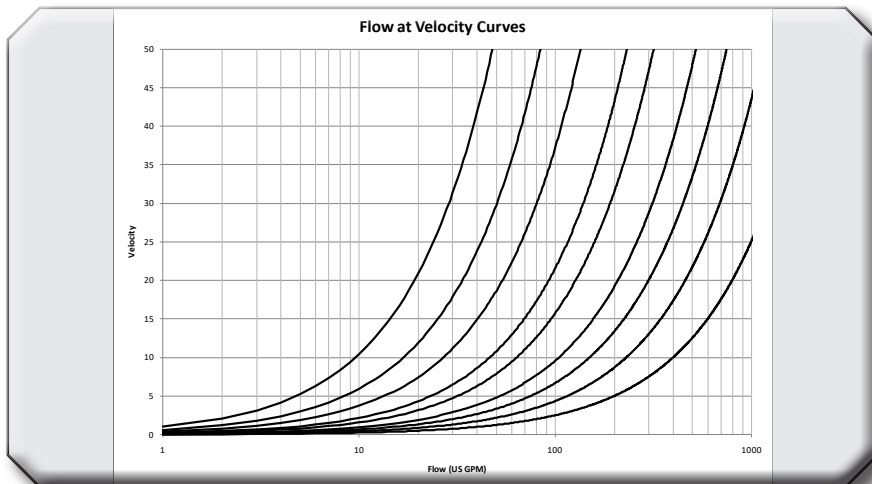
Figure 2
Partial
Closure



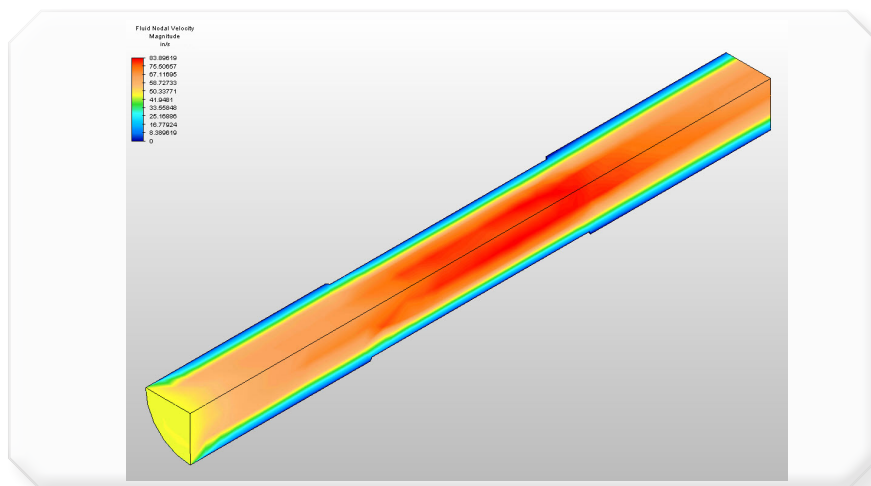
Flow Characteristic Curves for DMIC 2-Way Ball Valves

DMIC's unrestricted bore ball valves provide a fluid path which in most cases imposes no discernible pressure drop in standard hydraulic circuits. **As a result, you can treat our valves as just a like length of fluid line**, unless you are working with closed loop or other fancy circuits where a tiny pressure drop carries a price tag in heat generation, etc.

The selection chart at right may be used as a guide for confirming your choice of ball valve/fluid line size relative to the expected flow in U.S. GPM at a given velocity.



Determining Pressure Drop at a Specific Flow Rate



DMIC Ball Valves promote smooth laminar flow with **STRAIGHT BALL PASSAGE & UNRESTRICTED BORE** design.

DMIC's 2-Way Ball Valves such as the **BVH and BVAL/H** series, impose so little pressure drop on their own that we include the curves with a 10 foot section of fluid line in the measurement loop.

DMIC's Multiway and Manifold Mounted Ball Valves introduce a pressure drop component because instead of a straight fluid path, media must change direction as it travels through the valve. We have included valve pressure drop curves for each principal

type of DMIC specialty ball valve. All flows quoted in this section taken with petroleum based fluid, 150 SUS, at 100°F (38°C).

Pressure Drop of DMIC Specialty Ball Valves

DMIC's specialty Ball Valves are precision designed to maximize available cross sectional area and minimize the protrusion of parts throughout internal fluid passages.

However, the nature of DMIC's trunnion ball multiway valves and manifold mounted valves, results in a pressure drop component that should be taken into account when designing circuits bearing these valve types. DMIC's quality oriented engineering bias results in valves which cost more to manufacture but provide among the best performance available among like valves in the field.

Please verify your application's operating conditions to confirm that the pressure drop is accounted for in your system design.



Sealing Materials Technical Data



Never operate DMIC Ball Valves outside the temperature range published below for your selected Thermoplastic & Elastomer materials, even if the combination is approved in the Media Acceptability Table (next page). You may experience valve leakage or failure, and will void the warranty.

Order Code	DMIC Description	Temperature Range		Seal Compound Identification	Acronym	Classification Synthesis	Trade Names	Chemical Resistance Examples	
		°F	°C					Suitable	Not Suitable
Ball Seal Materials (Digit 3)									
1	Delrin™	-40°F to 180°F	-40°C to 82°C	Delrin™ Polyoxymethylene	DM POM	Thermoplastic Saturated heteropolymer of heterogeneous polymer chains	Delrin™	Hydraulic Fluids Water Inert Gases Air Alcohols Glycols Petroleum based fluids	High molar acids & Alkalies Fluorines Liquids for human consumption
2	PTFE Teflon™	-300°F to 450°F	-184°C to 232°C	Polytetra fluoroethylene	PTFE	Thermoplastic Homogeneous, pure polymer chains, containing fluorine	Teflon™ Hostaflon Fluon	Foodstuffs Acids & Alkalies Organic & Inorganic Solvents	Fluorines Liquid alkali metals
4	PEEK Hi-Temp	-76°F to 480°F	-60°C to 248°C	Polyether-ether-ketone	PEEK	Thermoplastic Aromatic Linear Polymer	Victrex	Most fluids acceptable with Delrin™ Moly Radioactive use	High molar acids & alkalies
6	Delrin™ AF Low Friction	-40°F to 180°F	-40°C to 82°C	Proprietary	PAI	Thermoplastic Combination of Teflon™ fibers uniformly dispersed in Delrin™ acetal resin.	Delrin™ AF	Hydraulic fluids Many acids Alcohols & organic solvents	Hot water Steam, Strong alkalies
9	Ferrous Special Applications	Call DMIC						Call DMIC	
O-Ring & Backup Seal Materials (Digit 4)									
1	Buna-N	-40°F to 200°F	-40°C to 93°C	Nitrile Butadiene rubber	NBR	Elastomer Unsaturated heteropolymer of heterogeneous polymer chains	Nitrile Perbunan Chemigum Elaprim Krynac	Petroleum based fluids Water Air Water-glycol	Phosphate esters
2	EPR	-70°F to 302°F	-57°C to 150°C	Ethylene-propylene-diene rubber	EPR EPDM	Elastomer Saturated heteropolymer utilizing double valence bands outside the primary chain	Buna AP Dutral Epcar Keltran Nordel	Phosphate esters Brake Fluid Acids & Alkalies	Petroleum based oil & grease Chlorinated hydrocarbons
3	Viton™	-15°F to 400°F	-26°C to 204°C	Fluorocarbon	FKM	Elastomer Multiple monomers & fluorine compounded into saturated heteropolymer	Viton™ Fluorel Technoflon	NBR compatible fluids Acids & alkalies	Phosphate esters
4	Teflon™ PTFE	-300°F to 450°F	-184°C to 232°C	Polytetrafluoroethylene	PTFE	Thermoplast Homogeneous, pure polymer chains, containing fluorine.	Teflon™ Hostaflon Fluon	Foodstuffs Organic & Inorganic Solvents	Fluorines Liquid alkali metals
5	Chemraz™ 510	-22°F to 446°F	-30°C to 230°C	Proprietary	FFKM	Perfluorolastomer Polymers of three or more monomers in which all hydrogen positions have been replaced with flourine	Chemraz™	Acids Caustics Aldehydes Esters Aromatics Methanol	Fluorinated Refrigerants Perfluorinated Lubricants

These are the main o-ring seal materials that DMIC uses. As always, if you would like another material to use for your application, call DMIC Sales. We would be more than happy to get the material you are requesting. For lower pressures (<1500 PSI) and vacuum, DMIC's softer PTFE Teflon™ Ball Seals are recommended.

In the BOM views for all valves, colors may have been changed for clarity.

This information provided as is, for reference purposes only. DMIC makes no guarantee as to the accuracy of this information. In the event of misapplication, the entire responsibility rests with the user. Verify your selection with your system's seal manufacturer for a final authority.



Seal Compound to Media Compatibility Table

This media compatibility table is provided for your reference as an **INDICATION** of acceptable usage. Please bear in mind that DMIC relies upon suppliers of seal raw materials and premium brand O-Rings for much of this information and it is advised that you consult your system's seal supplier if there is any question or doubt. The seal manufacturer's data shall be considered a final authority in case of discrepancy.

Fluid	Buna-N	EPR	Viton™	Teflon™ PTFE	Chemraz™ 510
Acetaldehyde	U	R	X	R	-
Acetamide	R	R	U	R	R
Acetic Acid, 5%	M	R	R	R	M
Acetone	U	R	X	R	R
Acetophenone	U	R	X	R	R
Acetylene	R	R	R	R	R
Acetysalicylic Acid	M	X	R	-	R
Acrolein	U	R	U	-	R
Acrylic Acid	M	X	R	-	R
Air, Below 200°F	M	R	R	R	R
Air, 200°-300°F	U	M	R	R	R
Air, 300°-400°F	X	X	R	R	R
Air, 400°-500°F	X	X	U	R	M
Aluminum Hydroxide	M	R	M	-	R
Aluminum Nitrate	R	R	R	R	R
Ammonia	R	R	X	R	R
Ammonium Sulfate	R	R	X	R	R
Ammonium Sulfide	R	R	X	-	R
Ammonium Sulfite	U	R	U	-	R
Amyl Acetate	U	M	X	R	R
Anderol L-774	M	U	R	-	R
Antifreeze	R	R	U	-	R
Aniline	U	R	U	R	R
Ansul Ether	M	M	X	-	R
Argon	R	R	R	R	R
Aroclors	M	R	R	R	R
Askarel	R	U	R	R	R
Asphalt	M	X	R	-	R
ASTM #1	R	U	R	R	R
ASTM #3	R	U	R	R	R
ASTM Fuel A	R	U	R	R	R
ASTM Fuel B	R	U	R	R	R
ASTM Fuel C	R	U	R	R	R
ASTM Fuel D	M	U	R	R	R
Auto Transmission Fluid	R	U	R	R	R
Benzaldehyde	R	R	X	R	M
Benzene	U	R	R	R	R
Benzoic Acid	U	U	R	R	R
Benzophenone	-	R	R	-	R
Bezyl Alcohol	U	R	R	R	R
Bleach	R	R	R	R	R
Borax	R	U	R	-	R

Fluid	Buna-N	EPR	Viton™	Teflon™ PTFE	Chemraz™ 510
Boric Acid	R	R	R	R	R
Brake Fluid DOT 3 & 4	U	R	X	-	R
Brake Fluid DOT 5	M	R	R	-	R
Bromine	U	R	R	R	R
Bromobenzene	U	U	R	R	R
Bunker	R	U	R	R	R
Butane	R	R	R	R	R
Butyl Acetate	U	U	X	R	R
Butyl Alcohol	R	R	R	R	R
Butyl Amine	M	U	X	-	R
Butyl Carbitol	U	M	U	R	R
Butyl Cellosolve	M	M	X	-	R
Butylaldehyde	U	U	X	X	R
Carbitol	R	R	M	R	R
Carbon Disulfide	U	U	R	R	R
Carbon Tetrachloride	R	U	R	R	R
Carbonic Acid	M	R	R	R	R
Castor Oil	R	M	R	R	R
Cellosolve	X	M	X	R	R
Chassis Grease	R	M	R	R	R
Chloric Acid	U	R	U	-	R
Chloroacetone	X	M	X	-	R
Chlordane	M	X	R	-	R
Chlorine, Dry	M	X	R	R	M
Chloroform	X	X	R	R	R
Chromic Acid	X	M	R	R	M
Citric Acid	R	R	R	R	R
Cod Liver Oil	R	R	R	R	R
Coffee	R	R	R	-	R
Corn Oil	R	U	R	R	R
Creosote, Coal Tar or Wood	R	X	R	R	R
Creosylic Acid	X	X	R	-	R
Crude Oil	M	X	R	R	R
Cyclohexane	R	X	R	R	R
Cyclohexanol	R	X	R	-	R
Decalin	X	X	R	R	R
Denatured Alcohol	R	R	R	-	R
Diacetone	X	R	X	R	R
Dialkyl Sulfates	U	R	U	-	R
Dibutyl Phthalate	X	M	U	R	R
Dichloro Aniline	U	R	U	-	R
Dichloro Butane	M	X	R	R	R

This information provided as is, for reference purposes only. DMIC makes no guarantee as to the accuracy of this information.

In the event of misapplication, the entire responsibility rests with the user.

Verify your selection with your system's seal manufacturer for a final authority.



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IN CANADA 1-800-320-3642



Media Compatibility Table, cont.

~ Legend ~

R..... Recommended
M Marginal
U..... Doubtful
X..... Not Recommended
- Insufficient Data

Fluid	Buna-N	EPR	Viton™	Teflon™ PTFE	Chemraz™ 510
Diesel Oil	R	X	R	R	R
Diethylamine	M	R	X	R	R
Diethyl Benzene	-	-	R	R	R
Diethylene Glycol	R	R	R	R	R
Dimethyl Ether	R	M	M	R	R
Dimethyl Formamid	M	R	X	R	M
Dimethyl Terephth	M	X	R	-	R
Dioctyl Phthalate	X	M	M	-	R
Dioxane	X	M	X	R	R
Diphenyl	X	X	R	R	R
Dow Corning 550	M	R	R	R	R
Dow Guard	R	R	R	-	R
Dowtherm A&E	X	X	R	R	R
Elco 28	R	X	R	-	R
Epoxy Resins	-	R	X	-	R
Ethane	R	X	R	R	R
Ethanol	U	R	U	R	R
Ethanolamine	M	R	X	-	R
Ethyl Acetate	X	M	X	R	R
Ethyl Benzene	X	X	R	R	R
Ethyl Cellulose	M	M	X	R	R
Ethyl Chloride	R	U	R	R	R
Ethyl Ether	U	U	X	R	R
Ethyl Formate	X	M	R	R	U
Ethyl Hexanol	R	R	R	R	R
Ethyl Mercaptan	X	-	M	R	R
Ethylene Chloride	X	X	M	R	R
Ethylene Oxide	X	U	X	R	U
Formaldehyde	U	M	X	R	R
Formic Acid	-	R	X	R	R
Freon 12	M	U	U	R	M
Fuel Oil #6	M	X	R	R	R
Furan	X	U	R	R	R
Furfural	X	M	X	R	M
Furfuryl Alcohol	X	M	-	R	R
Fyrquel EHC	U	R	R	-	-
Gallic Acid	M	M	R	R	R
Gasoline	R	X	R	R	R
Gelatin	R	R	R	R	R
Glucose	R	R	R	R	R
Glycerine	R	R	R	R	R
Helium	R	R	R	R	R

Fluid	Buna-N	EPR	Viton™	Teflon™ PTFE	Chemraz™ 510
Hexaldehyde	X	R	X	-	R
Hexane	R	X	R	R	R
Hydrazine	M	R	X	R	M
Hydrochloric Acid, Concentrated @ Room Temp.	M	M	R	R	R
Iso Octane	R	X	R	R	R
Iso Phorone	X	M	X	-	R
Isopropanol	M	R	R	R	R
Isopropyl Acetate	X	M	R	R	R
JP-4(MIL-J5624)	R	X	R	R	R
JP-5(MIL-5624)	R	X	R	R	R
Kerosene	R	X	R	R	R
Lactic Acid, Hot	X	X	R	R	R
Lacquers	X	X	X	R	R
Lard	R	M	R	R	R
Linoleic Acid	M	X	M	R	R
Linseed Oil	R	U	R	R	R
Lye Solutions	M	R	M	R	R
Malathion	M	X	R	-	R
Maleic Acid	X	X	R	R	R
Mercury	R	R	R	R	R
Methane	R	X	R	R	R
Methanol	X	R	X	R	R
Methyl Acetate	X	M	X	R	R
Methyl Acrylate	X	M	X	R	R
Methyl Cellosolve	U	M	X	R	R
Methylene Chloride	X	U	R	R	R
Methyl Ethyl Ketone	X	R	X	R	R
Methyl Mercaptan	-	R	-	R	R
Milk	R	R	R	R	R
Mineral Oil	R	U	R	R	R
Mineral Spirits	X	X	R	R	R
Monovinyl Acetyle	R	R	R	-	R
Naphtha	R	X	R	R	R
Naphthalene	X	X	R	R	R
Naphthalenic Acid	X	X	R	R	R
Natural Gas	R	X	R	R	R
Neatsfoot Oil	R	M	R	R	R
Nitric Acid, Concentrated @ Room Temp.	-	X	M	R	M
Nitrobenzene	X	R	M	R	R
Nitrogen	R	R	R	R	R
Nitropropane	X	M	X	R	R



Media Compatibility Table, cont.

<i>Fluid</i>	Buna-N	EPR	Viton™	Teflon™ PTFE	Chemraz™ 510
Octane	R	X	R	R	R
Octanal	R	X	R	-	R
Oleic Acid	U	X	M	R	R
Oxygen, Liquid	X	X	X	R	M
Phenol	X	X	R	-	R
Phenylhydrazine	X	M	R	R	R
Phosphoric Acid, Concentrated @ Room Temp.	M	R	R	R	R
Pine Oil	R	X	R	R	R
Potassium Hydroxide 50%	M	R	X	R	R
Propane	R	X	R	R	R
Propanol	R	R	R	X	R
Propyl Acetate	X	M	X	X	R
Pydraul, 115E	X	R	R	-	R
Pyranol	R	X	R	-	R
Pyridine	X	M	R	-	R
Rapeseed Oil	M	R	R	R	R
Resurcinol	U	R	U	R	R
SAE 10W30	R	X	R	R	R
Seawater	R	R	R	R	R
Silicone Grease	R	R	R	R	R
Silver Nitrate	M	R	R	R	R
Skelly Solvent	R	X	R	-	R
Skydrol 7000	X	R	M	-	R
Skydrol 500 B4	X	R	X	R	R
Sodium Hydroxide	R	R	M	R	R

<i>Fluid</i>	Buna-N	EPR	Viton™	Teflon™ PTFE	Chemraz™ 510
Sovasol 1, 2, & 3	R	X	R	-	R
Soy Bean Oil	R	U	R	R	R
Stack-Magic ECO-F	R	R	R	R	R
Stearic Acid	M	M	-	R	R
Stoddard Solvent	R	X	R	R	R
Sucrose	R	R	R	R	R
Sulfuric Acid	U	R	U	R	R
Tannic Acid	R	R	R	R	R
Tar	M	X	R	-	R
Tartaric Acid	R	M	R	R	R
Tetrachloroethane	X	X	R	R	R
Tetralin	X	X	R	R	R
Tidewater Oil	R	X	R	-	R
Toluene	X	X	R	R	R
Trichloro Ethyloe	U	X	R	R	R
Triethanol Amine	U	M	X	R	M
Turpentine	R	X	R	R	R
Varnish	M	X	R	R	R
Vinegar	M	M	U	R	-
Water	R	R	M	R	M
Whiskey & Wine	R	R	R	R	R
Wood Oil	R	X	R	-	R

~ Legend ~

R..... Recommended
M Marginal
U..... Doubtful
X..... Not Recommended
- Insufficient Data

One Year Limited Warranty

DELAWARE MANUFACTURING INDUSTRIES CORPORATION, HEREINAFTER REFERRED TO AS DMIC, WARRANTS ITS PRODUCTS (CONSUMABLE ITEMS EXCEPTED) TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP, UNDER NORMAL USE AND SERVICE, FOR A PERIOD OF SIX MONTHS FROM DATE OF INITIAL USE, OR ONE YEAR FROM DATE OF SHIPMENT FROM FACTORY, WHICHEVER IS FIRST. THIS LIMITED WARRANTY IS EFFECTIVE ONLY IF THE EQUIPMENT OR APPARATUS IS USED AS DIRECTED, IS NOT SUBJECT TO MISUSE, NEGLIGENCE, OR ACCIDENT, AND IS NOT ALTERED, TREATED, OR REPAIRED BY ANYONE OTHER THAN DMIC TECHNICAL STAFF.

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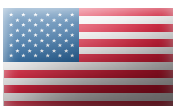


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Fax: 905-688-9993



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