

Direct Mount Valves

Bringing advanced DMIC internal design, durability, and performance to a market segment craving a choice

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.

The benefits of DMIC Direct Mount Ball and Check Valves include cost reduction, compact integration, and elimination of potential leakage points.

The new series of DMIC Direct Mount valves expand upon these benefits with fast delivery of Made In U.S.A. valves, and the refreshing experience of doing business with a responsive company that takes great care of its customers.

From day one in 1985, DMIC has utilized CAD design tools to bring modular and disciplined valve & accessory designs to market. DMIC's Direct Mount Valves leverage our lengthy design experience, giving Buyers maximum flexibility in valves meeting SAE 4-Bolt C.61/62, ANSI Class Flanges, DM-Flange, and DIN/ISO flange standards. We list the dimensions of commonly ordered valves for North America in this catalog, but when you are requesting less common ANSI or DIN flange types, dimensions of the underlying valves may change, so please request a certified print.

DMIC: Establishing and refining the Benchmark of Quality, now in Direct Mount Ball and Check Valves.

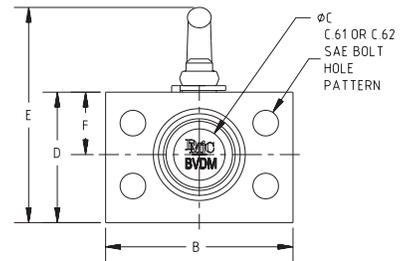
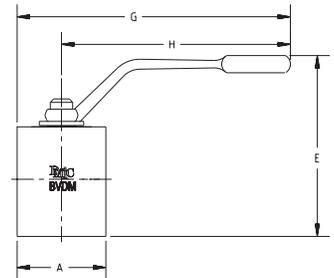
'BVDM' Direct Mt. Ball Valve, Block Body C.61/62

Sandwiches between a pressure/inlet port and the connection flange for a low-profile, localized shutoff ; Models for 3000 & 6000 PSI ; Sizes from 3/4" to 2 1/2"



DMIC 'BVDM' is the most compact and lowest cost choice when an SAE 4-Bolt or Split Flange Connection is desired. Optional s/s 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
- ☑ **Unrestricted bore ball** reduces pressure drop ; all Stainless Steel construction optional, with Buyer's choice of sealing



DMIC Flanges are a natural, in-stock choice

DMIC stocks a comprehensive lineup of SAE Forged Steel flanges in Code 61 and 62. Threaded, Socket Weld, Elbows, Split, Blank, Butt Weld - we can be your single source. Why not give DMIC an RFQ and get a competitive flange quote as well ?

DMIC Part Number	Port Size	PSI Rating	DIMENSIONS (inches)							
			A	B	φC	D	E	F	G	H
			Valve Length	Valve Width	Valve Bore	Valve Height	Overall Height	Port Ctr to Top	Overall Length	Handle Length
BVDM-**FL CODE 61 DIRECT MOUNT, BLOCK BODY, 3000 PSI										
BVDM-07FL-1111	3/4"	3000 PSI	2.47	2.62	0.79	2.26	4.71	1.25	8.31	7.00
BVDM-10FL-1111	1"		2.47	2.82	0.79	2.26	4.71	1.25	8.41	7.00
BVDM-12FL-1111	1 1/4"		2.48	3.25	0.95	2.72	5.18	1.36	8.62	7.00
BVDM-15FL-1111	1 1/2"		3.00	3.75	1.25	3.19	6.30	1.81	11.88	10.00
BVDM-20FL-1111	2"		3.25	4.00	1.50	3.63	6.74	2.00	12.00	10.00
BVDM-25FL-1111	2 1/2"	2000 PSI	3.87	4.50	1.88	4.29	7.41	2.29	12.25	10.00
BVDM-**FK CODE 62 DIRECT MOUNT, BLOCK BODY, 6000 PSI										
BVDM-07FK-1111	3/4"	6000 PSI	2.47	2.81	0.79	2.26	4.70	1.25	8.41	7.00
BVDM-10FK-1111	1"		2.47	3.19	0.79	2.26	4.84	1.25	8.59	7.00
BVDM-12FK-1111	1 1/4"		2.63	3.75	0.95	2.72	5.18	1.36	8.87	7.00
BVDM-15FK-1111	1 1/2"		3.00	4.25	1.25	3.50	6.61	1.81	12.13	10.00
BVDM-20FK-1111	2"		3.38	5.00	1.50	3.98	7.13	2.00	12.50	10.00

NOTE: Actual valve ratings exceed the SAE Flange maximum pressure in 2 1/2" size. For 3000 & 6000 PSI service in large bore valves, please refer to BVFF Ball Valve specifications. These products work with special non-SAE flanges to achieve large bore high pressure operation.



'CVDM' Direct Mt Check Valves: SAE C.61 & 62, ANSI/DIN/DM-Flange ; 400/3000/6000 PSI

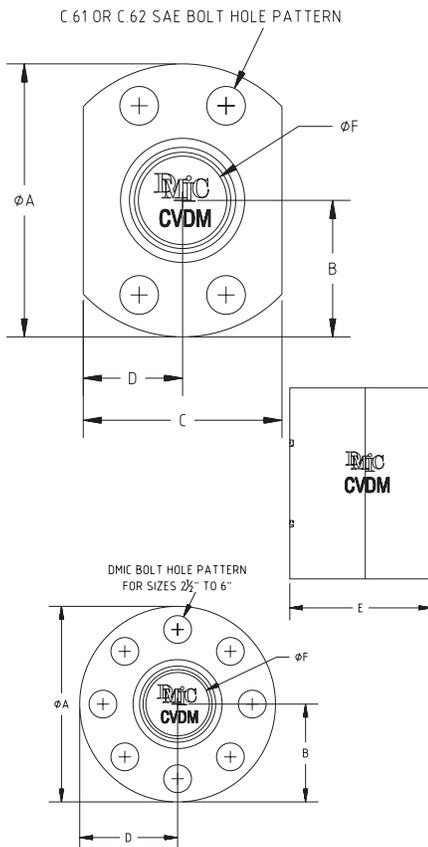
Sandwiches inline with through bolt holes ; One OR Groove, one Flat Face pad ; Standard sizes from 1/2" to 6" with larger custom valves available ; Made in U.S.A.



DMIC 'CVDM' is the ideal companion to 'BVSS' and 'BVFF' Ball Valves. 'CVDM' allows a large bore low ΔP check valve to be integrated into your circuit, eliminating an external threaded connection.

In addition to on-component mounting, the 'CVDM' is well suited to mounting on a manifold. The exclusive DMIC ordering system allows Buyers to specify any SAE 4-Bolt, ANSI, DIN, or DM-Flange connection, and receive compatible sealing, material spec, and working pressure.

- ☑ Developed from nearly two decades experience with our 'CVH' threaded check valve for the reliability that has become synonymous with the DMIC name
- ☑ Available in aluminum, carbon steel, and stainless steel construction ; 5 & 65 PSI standard, 0/15/30/75/115/135 PSI quick delivery options. Poppet orifice is available by special order.



Specifying 'CVDM' with ANSI or DIN Flange, or >6"

DMIC's 'CVDM' Check Valve series is built on three distinct geometries in aluminum and steel.

This allows us to furnish 'CVDM' Check Valves that precisely match the Buyer's desired connection standard, material and sealing specs, and pressure requirements.

Please refer to the ordering codes on the next page, for instructions on specifying ANSI or DIN flange check valves, or to custom order valves larger than 6" size.

DMIC Part Number	Port Size	PSI Rating	DIMENSIONS (inches)					
			φA Overall Diam	B Ctrline Dim	φC Overall Width	D Ctrline Dim	E Overall Length	φF Thru Bore
Replace ** in part number with the desired cracking pressure from 05/15/30/65/75/105/135 PSI The ? position refers to position of O-ring face. U=OR-Face @ Inlet, C=OR Face @ Outlet								
CVDM-41: SAE C.61 & ANSI 150, ALUMINUM BODY, 400 PSI								
CVDM**-05FL?-4411	1/2"	400 PSI	2.38	1.19	1.63	1.74	1.74	0.44
CVDM**-07FL?-4411	3/4"		2.88	1.44	1.88	1.97	1.97	0.63
CVDM**-10FL?-4411	1"		3.25	1.62	2.25	2.42	2.42	0.75
CVDM**-12FL?-4411	1 1/4"		3.50	1.75	2.75	2.87	2.87	1.06
CVDM**-15FL?-4411	1 1/2"		4.25	2.12	3.13	3.29	3.29	1.24
CVDM**-20FL?-4411	2"		5.00	2.50	3.63	4.08	4.08	1.64
CVDM**-25FL?-4411	2 1/2"		Contact Factory for latest specifications					
CVDM**-30FL?-4411	3"							
CVDM**-40FL?-4411	4"	275 PSI	Please call Factory for latest specifications on large ANSI and DIN flange check valves.					
CVDM**-50AA?-4411	4"							
CVDM**-60AA?-4411	4"							
CVDM FL/DM: SAE C.61 & DM-FLANGE, STEEL BODY, TO 3000 PSI								
CVDM**-05FL?-1111	1/2"	3000 PSI	2.38	1.19	1.63	1.74	1.74	0.44
CVDM**-07FL?-1111	3/4"		2.88	1.44	1.88	1.97	1.97	0.63
CVDM**-10FL?-1111	1"		3.25	1.62	2.25	2.42	2.42	0.75
CVDM**-12FL?-1111	1 1/4"		3.50	1.75	2.75	2.87	2.87	1.06
CVDM**-15FL?-1111	1 1/2"		4.25	2.12	3.13	3.29	3.29	1.24
CVDM**-20FL?-1111	2"		5.00	2.50	3.63	4.08	4.08	1.64
CVDM**-25FL?-1111	2 1/2"	2500 PSI	Contact Factory for latest specifications					
CVDM**-25DM?-1111	3000 PSI							
CVDM**-30FL?-1111	2000 PSI							
CVDM**-30DM?-1111	3000 PSI							
CVDM**-40FL?-1111	500 PSI							
CVDM**-40DM?-1111	3000 PSI							
CVDM**-50DM?-1111	5"	3000 PSI	Contact Factory for latest specifications					
CVDM**-60DM?-1111	6"	3000 PSI						
CVDM FH/DH: SAE C.62 & DM-FLANGE, STEEL BODY, 6000 PSI								
CVDM**-05FH?-1111	1/2"	6000 PSI	2.50	1.25	1.75	0.87	1.74	0.44
CVDM**-07FH?-1111	3/4"		3.00	1.50	2.25	1.12	1.97	0.63
CVDM**-10FH?-1111	1"		3.50	1.75	2.63	1.31	2.42	0.75
CVDM**-12FH?-1111	1 1/4"		4.00	2.00	3.12	1.56	2.87	1.06
CVDM**-15FH?-1111	1 1/2"		5.00	2.50	3.75	1.87	3.29	1.24
CVDM**-20FH?-1111	2"		6.00	2.75	4.62	2.31	4.08	1.64
CVDM**-25DH?-1111	2 1/2"		Contact Factory for latest specifications					
CVDM**-30DH?-1111	3"							
CVDM**-40DH?-1111	4"							
CVDM**-50DH?-1111	5"							
CVDM**-60DH?-1111	6"	6000 PSI	Contact Factory for latest specifications					

NOTE: (1) For OEM quantity, poppet orifice option is available. Call Factory for selection info.
(2) SAE Code 61 large sizes above 2" are derated to SAE C.61 working pressure by spec.



Direct Mount Ball & Check Valves Ordering Codes

SPRING CRACK PSI:

5: 5 PSI
 65: 65 PSI
Quick delivery options:
 0: Zero PSI (call)
 15: 15 PSI
 30: 30 PSI
 75: 75 PSI
 115: 115 PSI
 135: 135 PSI

O-RING FACE POSITION:

U: O-Ring face at Inlet (std)
 C: O-Ring face at Outlet

BODY MAT'L:

1: Carbon Steel
 2: Stainless Steel
 4: Aluminum

POPPET MATERIAL:

1: Carbon Steel
 2: Stainless Steel

O-RINGS:

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

ORIFICE:

1: None
 Call for orifice options

CVDM **65** **15** **FL** **U** **1** **1** **1** **1**
BVDM **25** **FL** **1** **1** **1** **1** **A** **Z** **Z** **A**

VALVE SERIES:

BVDM: Direct Mount Ball Valve
 CVDM: Direct Mount Check Valve

SIZE:

05: 1/2" 25: 2 1/2"
 07: 3/4" 30: 3"
 10: 1" 40: 4"
 12: 1 1/4" 50: 5"
 15: 1 1/2" 60: 6"
 20: 2"

CONNECTION TYPE:

FL: SAE Code 61
 FK: SAE Code 62
 DM: DMIC Flange 3000 PSI
 DH: DMIC Flange 6000 PSI
 AA: ANSI Class 150 (275 PSI)
 AB: ANSI Class 300 (720 PSI)
 AC: ANSI Class 400 (960 PSI)
 AD: ANSI Class 600 (1440 PSI)
 AE: ANSI Class 900 (2160 PSI)
 AF: ANSI Class 1500 (3600 PSI)
 AG: ANSI Class 2500 (6000 PSI)
 DA: DIN 3202-F1
 DB: DIN 3203-F4

BODY MATERIAL:

1: Carbon Steel
 2: Stainless Steel
 4: Aluminum

BALL & STEM MAT'L:

1: Carbon Steel
 2: Stainless Steel

BALL SEALS:

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

O-RING SEALS:

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

Authorized Distributor:



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



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