

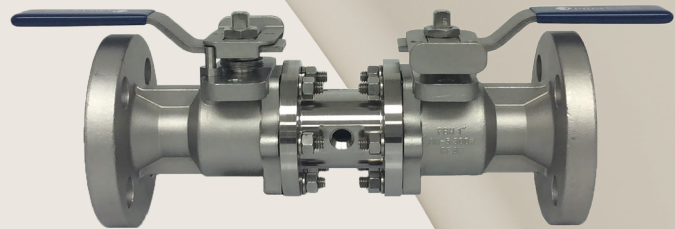


Breakthrough  
engineering for  
a better world

# Process Automation

IMI PBM

## AN Series 5 Sizes 1/2" to 6"



## Industrial ANSI Double Block & Bleed Valves Class 150 & 300

[pbmvalve.com](http://pbmvalve.com)

### Design Features

- Rated for full vacuum
- Blowout proof stem
- Unique Adjust-O-Seal® feature allows in-line seat adjustment to compensate for normal wear
- AN Series ANSI Valves have an O-Ring body seal
- Three piece design with flanges per ANSI B16.5 and includes a spool piece with bleed/gauge port between two valve bodies
- Standard Live Loaded Stem Packing
- Upstream/downstream bubble tight sealing capability allows valve body cleaning, purging and draining
- Bleed or Gauge Ports included
- Valves meet API 641, 200°F Max
- Encapsulated ID seat design useable for steam applications)
- ADI free
- Stem assembly accommodates IMI PBM Direct Mount Actuation for accurate alignment and increased cycling life
- Actuators mounted perpendicular to flow unless they are opposing each other by 180°
- API-607 Fire Test Qualified option available as Series 6 Design
- Self-Flushing Ball option available
- 100% tested per ASME/ANSI B16.34
- Designed, assembled and tested at our factory in the USA
- V-TEF™ and S-TEF® seats and seals are FDA Compliant and USP Class VI
- Material Test Report (MTRS) can be provided for wetted metal components

### SPECIFICATIONS

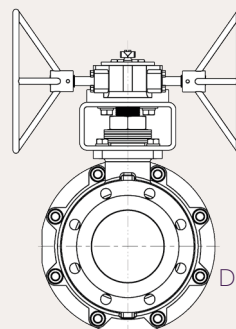
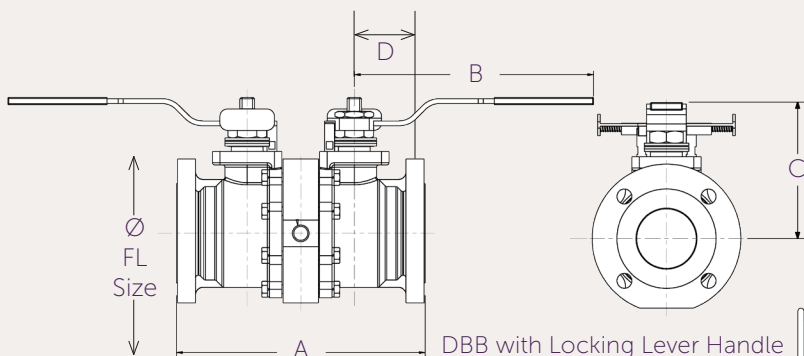
### AN SERIES 5 INDUSTRIAL DBB BALL VALVES

Sizes	1/2" - 6" Series 5
Material	316 Stainless Steel, Hastelloy® C-276, Carbon Steel, others
Temperatures	-20°F to 450°F depending on seat and seal material
End Connections	Class 150 and 300 RF Flange
Seats, Seals & Stem Packings	V-TEF™, S-TEF®, C-TEF™ others available
O-Rings	O-Ring Seal (FKM V1274-80, EPDM E3609-70, others available)
Body Bolts & Nuts	B16.34 bolting
Maximum Working Pressure	In accordance with B16.34

### CV Values & Weights

Size	Cv (gpm)	Weight 150# Class	Weight 300# Class
1/2"	13	7.4 lbs	8 lbs
3/4"	52	8.8 lbs	10 lbs
1"	80	22 lbs	26 lbs
1 1/2"	190	50 lbs	64 lbs
2"	400	72 lbs	79 lbs
3"	1,100	88 lbs	116 lbs
4"	2,400	206 lbs	249 lbs
6"	5,600	556 lbs	792 lbs

PRODUCT (1-2) MATERIAL (3-4)			TYPE / CLASS (5) SERIES (6)		1ST END CONNECTION TYPE (HP / UPSTREAM) (7)		2ND END CONNECTION TYPE (LP/DOWNSTREAM) (8)		SEAT / SEAL (9)		1ST END CONNECTION SIZE (HP / UPSTREAM) (10)		2ND END CONNECTION SIZE (LP/DOWNSTREAM) (11)		BLEED PORT OPTIONS (12)		OPERATOR (13-14)		POLISH OPTIONS (15-16)									
AN	H-	Cast 316/ 316L S / S	K	Double Block 150# Class	S	L	RF Flange	L	RF Flange	G	V-TEF™ Seats / Seals FKM O-Ring	1	1/2" Full Port	1	1/2" Full Port	A	(1) 1/4" FNPT Bleed Port 90° from Stem	--	W/ Standard Lever Handle	-	125 Ra ID Standard							
	E-	Carbon Steel 150# Class Only	L	Double Block 300# Class						J	V-TEF™ Seats / Seals / VTFE Cav Fill / FKM O-Ring	E	3/4" Full Port	E	3/4" Full Port	B	(1) 1/4" FNPT Bleed Port 180° from Stem	02	W/O Handle W/ Stem Actuator Prep	A	20 Ra ID							
	C-	Hastelloy C-276								Z	V-TEF™ Seats / Seals EPDM O-Ring	4	1" Full Port	4	1" Full Port	C	(1) 3/8" FNPT Bleed Port 90° from Stem	04	Locking Lever Handle	C	20 Ra ID / 32 Ra OD							
Other material options available - Contact IMI PBM												G	1-1/2" Full Port	G	1-1/2" Full Port	D	(1) 3/8" FNPT Bleed Port 180° from Stem	08	Gear Operator (Req'd for 6")									
												H	2" Full Port	H	2" Full Port	E	(1) 1/2" FNPT Bleed Port 90° from Stem											
											2	V-TEF™ Seats / Seals / VTFE Cav Fill / EPDM O-Ring	K	3" Full Port	K	3" Full Port	F	(1) 1/2" FNPT Bleed Port 180° from Stem	16	Stem Extension w/ lockable lever handle (1/2" thru 4")	F	20 Ra ID after Electro Polish						
												9	V-TEF™ Seats / Seals FEP encapsulated FKM O-Ring	L	4" Full Port	L	4" Full Port	G	(1) 3/4" FNPT Bleed Port 90° from Stem	20	Double Acting 80psig actuator	More polish available - Contact IMI PBM						
												M	6" Full Port	M	6" Full Port	H	(1) 3/4" FNPT Bleed Port 180° from Stem	27	Double Acting 60psig actuator	Other operator options available - Contact IMI PBM								
												H	S-TEF® Seats / Seals FKM O-Ring	Note: End Connections are always the same size.											J	(1) 1/4" Socket Weld Bleed Port 90° from Stem	34	Spring Return 80psig actuator
												O	S-TEF® Seats / Seals EPDM O-Ring												K	(1) 1/4" Socket Weld Bleed Port 180° from Stem	41	Spring Return 60psig actuator
														L	(1) 3/8" Socket Weld Bleed Port 90° from Stem													
Other end/seat options available - Contact IMI PBM												M	(1) 3/8" Socket Weld Bleed Port 180° from Stem															
												N	(1) 1/2" Socket Weld Bleed Port 90° from Stem															
												P	(1) 1/2" Socket Weld Bleed Port 180° from Stem															
												Q	(1) 3/4" Socket Weld Bleed Port 90° from Stem															
												R	(1) 3/4" Socket Weld Bleed Port 180° from Stem															



DBB with Gear Operator [6" ONLY]

## AN Series 5 Double Block & Bleed Dimensioned Valves in Inches

Valve Size	A		B		C		D		ØFL	
	CL150	CL300	CL150	CL300	CL150	CL300	CL150	CL300	CL150	CL300
1/2"	7.00	8.34	4.15	4.15	2.66	2.66	1.85	2.52	3.50	3.75
3/4"	7.75	9.31	4.15	4.15	2.81	2.81	2.12	2.90	3.88	4.62
1"	9.04	10.84	5.09	5.09	3.09	3.09	2.25	3.15	4.25	4.88
1-1/2"	11.57	13.32	8.03	8.03	4.43	4.43	2.68	3.18	5.00	6.12
2"	12.60	14.04	8.03	8.03	4.74	4.74	3.12	3.84	6.00	6.50
3"	12.54	15.78	12.06	12.06	6.85	6.85	3.57	5.19	7.50	8.25
4"	14.72	17.96	24.06	24.06	9.00	9.00	3.84	5.34	9.00	10.00
6"	24.46	29.19	GEAR OP	GEAR OP	GEAR OP	GEAR OP	GEAR OP	GEAR OP	11.00	12.50

For 6" with Gear Operator consult IMI PBM for dimensions.

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