



Breakthrough
engineering for
a better world

Process
Automation

IMI PBM



AN Series 5 Sizes 1/2" to 6"

pbmvalve.com

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

Design Features

- Valves are rated for full vacuum
- Valves have blowout proof stem
- Unique Adjust-O-Seal® feature allows in-line seat adjustment to compensate for normal wear
- AN Series ANSI Valves have O-Ring body seal
- Valves are a 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 some steam applications)
- Valves are 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 Tested Qualified option available
- Self-Flushing Ball option available
- Valves are 100% tested per ASME/ANSI B16.34
- Valves are designed assembled and tested at our factory in the U.S.
- 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	150# and 300# RF Flange
Seats, Seals & Stem Packings	V-TEF™, S-TEF®, C-TEF™ others available
O-Rings	O-Ring Seal (FKM V1274-75/80, EPDM E3609-70, others available)
Body Bolts & Nuts	B16.34 bolting
Maximum Working Pressure	In accordance with B16.34

Size	CV Values (gpm)		
	Cv (gpm)	Weight 150# Class	Weight 300# Class
1/2"	13	3.5 lbs	4.8 lbs
3/4"	52	4.8 lbs	7.3 lbs
1"	80	8 lbs	11 lbs
1 1/2"	190	16 lbs	23 lbs
2"	400	25 lbs	30 lbs
3"	1,100	50 lbs	71 lbs
4"	2,400	96 lbs	130 lbs
6"	5,600	242 lbs	326 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)			
AN	H	Cast 316/ 316L S / S	K	Double Block 150# Class	5	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
										G	V-TEF™ Seats / Seals EPDM O-Ring	4	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	V-TEF™ Seats / Seals / VTFE Cav Fill / EPDM O-Ring	2	2" Full Port	H	2" Full Port	E	(1) 1/2" FNPT Bleed Port 90° from Stem	16	Stem Extension w/ lockable lever handle (1/2" thru 4")	F	20 Ra ID after Electro Polish
										K	V-TEF™ Seats / Seals / VTFE Cav Fill / EPDM O-Ring	3	3" Full Port	K	3" Full Port	F	(1) 1/2" FNPT Bleed Port 180° from Stem	20	Double Acting 80psig actuator		More polish available - Contact IMI PBM
										L	V-TEF™ Seats / Seals FEP encapsulated FKM O-Ring	4	4" Full Port	L	4" Full Port	G	(1) 3/4" FNPT Bleed Port 90° from Stem	27	Double Acting 60psig actuator		
										M	V-TEF™ Seats / Seals FEP encapsulated FKM O-Ring	6	6" Full Port	M	6" Full Port	H	(1) 3/4" FNPT Bleed Port 180° from Stem	34	Spring Return 80psig actuator		
										H	S-TEF™ Seats / Seals FKM O-Ring					J	(1) 1/4" Socket Weld Bleed Port 90° from Stem	41	Spring Return 60psig actuator		
										0	S-TEF™ Seats / Seals EPDM O-Ring					K	(1) 1/4" Socket Weld Bleed Port 180° from Stem				

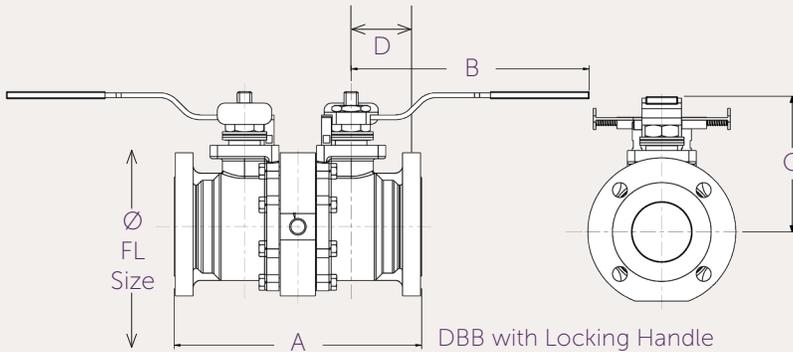
Other material options available - Contact IMI PBM

Other seat/seal options available - Contact IMI PBM

Note: End Connections are always the same size.

Other operator options available - Contact IMI PBM

Other bleed port options available - Contact IMI PBM



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	11.00	12.50					

For 6" with gear operator consult IMI PBM for dimensions.

Find out more
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