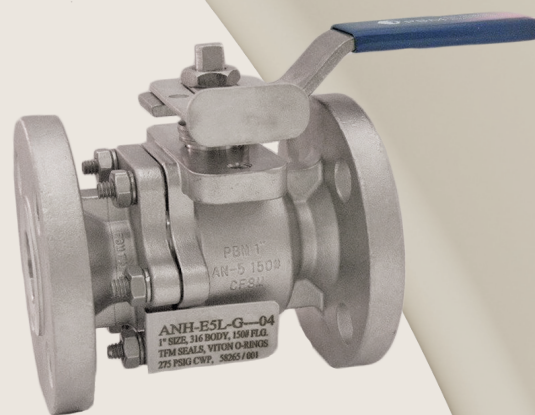




Breakthrough
engineering for
a better world

Process Automation

IMI PBM



AN Series 5 Sizes 1/2" to 6"

Industrial ANSI Valves Class 150 & 300

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
- Two piece "split body" design with flanges per ANSI B16.5 and face-to-face dimensions that conform to ASME B16.10 long pattern
- Standard Live Loaded Stem packing
- Upstream and downstream bubble-tight sealing capability allows valve body cleaning, purging and draining
- 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
- API-607 Fire Test Qualified option available as Series 6 Design
- Optional purge port, milled ball flats, or drain holes in ball allow inline CIP to prevent clogging and plug formation
- Self-Flushing Ball and V-Ball options 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

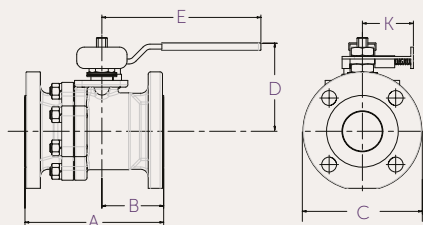
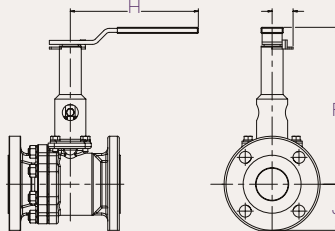
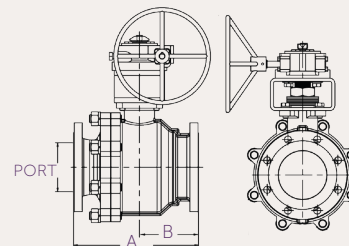
AN SERIES 5 INDUSTRIAL BALL VALVES

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

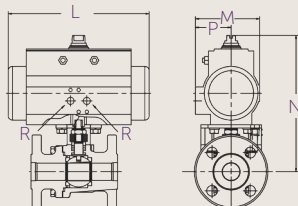
Size	Cv (gpm)	Weight Class 150	Weight Class 300
1/2"	13	3.5 lbs	4.8 lbs
3/4"	52	4.8 lbs	7.3 lbs
1"	80	8 lbs	11 lbs
1 1/2"	190	16 lbs	23 lbs
2"	400	25 lbs	30 lbs
3"	1,100	50 lbs	71 lbs
4"	2,400	96 lbs	130 lbs
6"	5,600	242 lbs	326 lbs

PRODUCT (1-2) MATERIAL (3-4)			SIZE (5) SERIES (6)		END CONNECTION (7-8)		SEAT / SEAL / O-RING (9)		PURGE PORT BALL OPTIONS (10-11)		BALL / STEM OPTIONS (12)		OPERATOR (13- 14)		POLISH OPTIONS (15-16)	
AN	H-	Cast 316/ 316L S/S	C	1/2"	5	L- 150# RF Flange	G	V-Tef™ Seats / Seals FKM O-Ring	--	No Purge Port or Ball Option	-	Standard Ball and Stem	--	W/ Standard Lever Handle	-	125 Ra ID Standard
	E-	Carbon Steel	D	3/4"	M-	M- 300# RF Flange	J	V-Tef™ Seats / Seals / VTFE Cav Fill / FKM O-Ring	- 8	Self Flushing Ball	F	Internal / External Grounding	02	W/O Handle W/ Stem Actuator Prep	A	20 Ra ID
	C-	Hastelloy C-276	E	1"			Z	V-Tef™ Seats / Seals EPDM O-Ring	- V	Slotted V-Ball	G	17-4PH Stem	04	Locking Lever Handle	C	20 Ra ID / 32 Ra OD
	Y-	Hastelloy C-22	G	1-1/2"			2	V-Tef™ Seats / Seals / VTFE Cav Fill / EPDM O-Ring	- W	30° V-Ball			08	Gear Operator (Req'd for 6")	F	20 Ra ID after Electro Polish
			H	2"					- X	45° V-Ball			16	Extended Stem w/Lockable Handle (1/2" thru 4")		
	P-	AL6XN	K	3"					- Y	60° V-Ball			20	DA 80psig actuator		
	Other material options available - Contact IMI PBM		L	4"			H	S-Tef® Seats / Seals FKM O-Ring	Other Purge Port & Ball Options - Contact IMI PBM				27	DA 60psig actuator		More polish available - Contact IMI PBM
			M	6"			0	S-Tef® Seats / Seals EPDM O-Ring					34	SR 80psig actuator		
													41	SR 60psig actuator		
													Other operator options available - Contact IMI PBM			

ANSI VALVE - LOCKING LEVER HANDLE

**ANSI VALVE - EXTENDED STEM
WITH LOCKABLE LEVER HANDLE**

**ANSI VALVE - GEAR OPERATOR
[6" ONLY]**


Valve Size	Size Code	Port Dia	A		B		C		D	E	J		Ext. Locking Handle		Locking Handle			
			Overall Length		CL to End		Flange Diameter				CL to top of Handle	Handle Length from CL	CL to Bottom		F	H	K	Hole Dia. for Lock
			150#	300#	150#	300#	150#	300#					150#	300#				
1/2"	C	0.50	4.25	5.50	1.85	2.52	3.50	3.75	2.66	4.15	1.62	1.75	5.12	5.09	1.62	.25		
3/4"	D	0.75	4.62	6.00	2.12	2.90	3.88	4.62	2.78	4.15	1.80	2.15	5.27	5.09	1.62	.25		
1"	E	1.00	5.00	6.50	2.25	3.15	4.25	4.88	3.09	5.09	2.06	2.38	5.61	5.09	2.08	.28		
1 1/2"	G	1.50	6.50	7.50	2.68	3.18	5.00	6.12	4.16	8.03	2.38	3.00	6.40	8.03	2.58	.38		
2"	H	2.00	7.00	8.50	3.12	3.84	6.00	6.50	4.46	8.03	2.88	3.12	6.71	8.03	2.58	.38		
3"	K	3.00	8.00	11.12	3.57	5.19	7.50	8.25	6.85	12.06	3.50	4.00	8.63	12.06	3.47	.38		
4"	L	4.00	9.00	12.00	3.84	5.34	9.00	10.00	9.00	24.06	4.38	4.75	9.90	24.06	NA	NA		
6	M	6.00	15.50	15.88	7.33	7.70	11.00	12.50	NA	NA	6.75	7.72	NA	NA	NA	NA		

80 PSI Double Acting						60 PSI Double Acting					80 PSI Spring Return					60 PSI Spring Return				
Size	L	M	N	P	R	L	M	N	P	R	L	M	N	P	R	L	M	N	P	R
1/2"	5.55	2.80	5.84	1.61	1/8	5.55	2.80	5.84	1.61	1/8	5.55	2.80	5.84	1.61	1/8	6.46	3.17	6.29	1.77	1/8
3/4"	5.55	2.80	5.99	1.61	1/8	5.55	2.80	5.99	1.61	1/8	6.46	3.17	6.44	1.77	1/8	6.46	3.17	6.44	1.77	1/8
1"	5.55	2.80	6.71	1.61	1/8	5.55	2.80	6.71	1.61	1/8	8.27	3.72	7.87	2.07	1/8	8.27	3.72	7.87	2.07	1/8
1-1/2"	6.46	3.17	8.44	1.77	1/8	8.27	3.72	9.15	2.07	1/8	10.83	4.84	10.20	2.68	1/4	10.83	4.84	10.20	2.68	1/4
2"	8.27	3.72	9.45	2.07	1/8	8.27	3.72	9.45	2.07	1/8	10.83	4.84	10.50	2.68	1/4	13.11	5.39	11.86	2.87	1/4
3"	13.11	5.39	13.81	2.87	1/4	13.11	5.39	13.81	2.87	1/4	14.65	5.83	14.29	3.15	1/4	17.13	6.46	15.18	3.44	1/4
4"	17.13	6.46	17.34	3.44	1/4	17.13	6.46	17.34	3.44	1/4	19.69	7.32	18.28	3.90	1/4	19.69	7.32	18.28	3.90	1/4
6"	22.78	8.54	24.13	4.29	1/4	22.78	8.58	24.13	4.29	1/4	22.78	8.54	24.13	4.29	1/4	26.46	11.42	28.89	5.71	1/4


ACTUATED DIMENSIONS

Unit of measure = inches

 Dimensions based on actuators
 used with V-Tef® seats

 Find out more
pbmvalve.com