



Automatic Flow Limiter w/ Ball Valve - AFLB Series

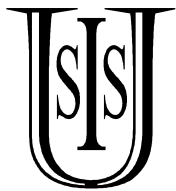
Technical drawing of a 3/4 inch ball valve with a handle. The drawing shows the valve body, handle, and internal components. The handle is in the open position. The flow direction is indicated by an arrow pointing to the right, labeled "FLOW".

STANDARD MATERIAL SPECIFICATIONS		STANDARD OPERATING SPECIFICATIONS	
Body	Forged Brass ASTM B283-06		
O-Ring	EPDM		
Tail Piece	Brass ASTM B124-09, B228-06, or B763-08A	Control Range:	2 psi - 60+ psi
Flow Cartridge	ASTM A582 Type 303 Stainless Steel	Accuracy:	±5%
Diaphragm	EPDM	Max Working Pressure:	600 WOG
Spring	Stainless Steel	Max Operating Temperature:	40°F to 250°F
PT Port	EPDM Dual Durometer Core	Start-Up Head Loss:	5 Feet of H ₂ O
Ball Valve	Forged Brass ASTM B283-06		
Stem	Brass ASTM B124-09 - Explosion Proof		
Ball	Chrome Plated Brass - Full Port		
Ball Seat	Teflon		
Handle	Chrome Plated Steel		

* Custom flow rates can be calibrated at the factory for an additional charge.

- Flow measurement capability for problematic systems, high performance coils, or projects where verifiable sustainable energy savings is desirable
- Stainless steel construction on all flow cartridge wear surfaces
- Static orifice design that maximizes the size of the flow orifice across large pressure differentials
- Large operational differential range across the flow cartridge
- Provides continual flow at differential pressures above design limits
- Removable cartridges for cleaning or exchange if required
- Flushing through the cartridge body in case debris gets inside the cartridge (optional drain/flush valve available)
- Low start-up pressure to operate with low energy requirements

The information presented on the submittal is correct at the time of publication. US Industrial Sourcing, L.L.C. reserves the right to change design, and/or material specifications without notice.

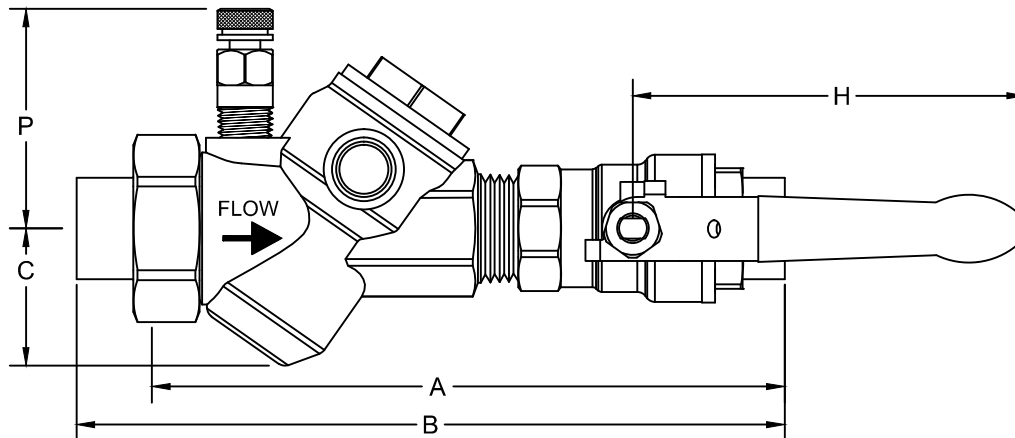


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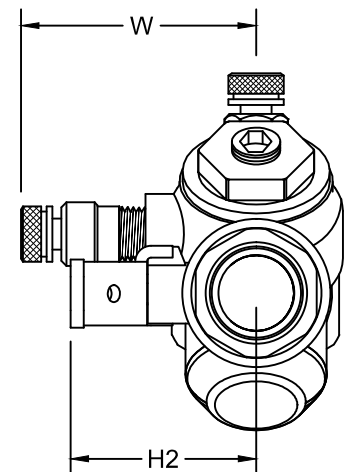
DIMENSIONS

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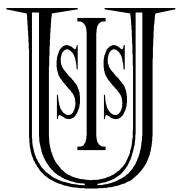
A: AFLB - 1/2" - 1" L



BALL VALVE SIZE AND TYPE	A	TAIL PIECE	B	WEIGHT (lbs)	C	H	H2	P	W
1/2" SWT	6.52	- M	8.09	2.29	1.30	3.54	2.05	2.25	0.85
		1/2" - F	7.62	2.29					
		- S	7.27	2.17					
1/2" FPT	6.15	- M	7.72	2.28	1.30	3.54	2.05	2.25	0.85
		1/2" - F	7.25	2.28					
		- S	6.90	2.16					
3/4" SWT	6.09	- M	7.66	2.45	1.30	3.74	2.06	2.25	0.85
		1/2" - F	7.19	2.45					
		- S	6.84	2.33					
		- M	7.85	2.48					
		3/4" - F	6.89	2.37					
		- S	6.88	2.33					
3/4" FPT	5.80	- M	7.36	2.44	1.30	3.74	2.06	2.25	0.85
		1/2" - F	6.90	2.44					
		- S	6.55	2.32					
		- M	7.56	2.47					
		3/4" - F	6.60	2.36					
		- S	6.55	2.32					
1" SWT	7.50	1/2" - M	9.06	2.77	1.30	4.53	2.31	2.25	0.85
		3/4" - M	9.26	2.80					
		- S	8.29	2.65					
		1" - M	10.25	2.98					
		1" - F	9.82	2.83					
		- S	9.90	2.74					
1" FPT	7.22	1/2" - M	8.79	2.79	1.30	4.53	2.31	2.25	0.85
		3/4" - M	8.79	2.82					
		- S	8.01	2.67					
		1" - M	10.17	3.01					
		1" - F	9.57	2.86					
		- S	9.66	2.77					



Note: All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions, weights, and material specifications.
Sweat size listed is nominal and will differ from the actual, measurable size.

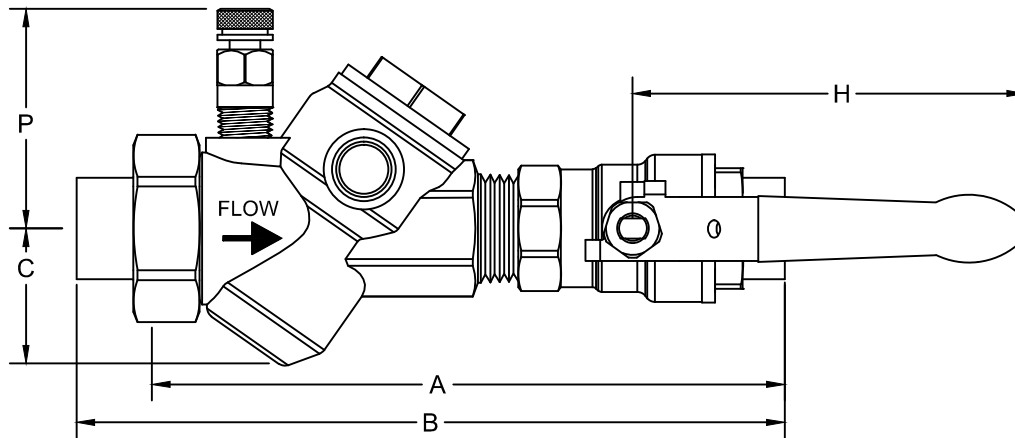


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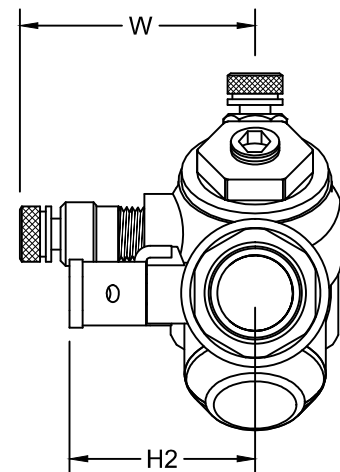
DIMENSIONS

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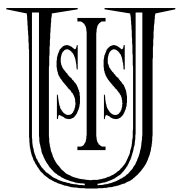
B: AFLB - 1" H - 1½" L



BALL VALVE SIZE AND TYPE	A	TAIL PIECE	B	WEIGHT (lbs)	C	H	H2	P	W
1" SWT	9.66	- M	11.66	6.60	1.43	4.16	2.31	2.30	2.62
		1" - F	10.56	6.25					
		- S	10.67	6.23					
1" FPT	9.38	- M	11.38	6.62	1.43	4.16	2.31	2.30	2.62
		1" - F	10.28	6.27					
		- S	10.39	6.25					
1¼" SWT	8.44	- M	10.44	6.21	1.43	4.64	3.00	2.30	2.62
		1" - F	9.77	5.86					
		- S	10.44	5.84					
		- M	10.44	6.28					
		1¼" - F	9.44	6.15					
		- S	9.54	5.85					
1¼" FPT	8.09	- M	10.09	6.17	1.43	4.64	3.00	2.30	2.62
		1" - F	9.42	5.82					
		- S	10.09	5.80					
		- M	10.09	6.24					
		1¼" - F	9.09	6.11					
		- S	9.19	5.81					
1½" SWT	9.13	- M	11.63	7.74	1.43	5.45	3.15	2.30	2.62
		1¼" - F	11.63	7.80					
		- S	10.59	7.15					
		- M	11.63	7.67					
		1½" - F	10.38	7.33					
		- S	10.36	7.13					
1½" FPT	8.87	- M	11.37	7.78	1.43	5.45	3.15	2.30	2.62
		1¼" - F	11.37	7.84					
		- S	10.33	7.19					
		- M	11.37	7.71					
		1½" - F	10.12	7.37					
		- S	10.10	7.17					



Note: All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions, weights, and material specifications.
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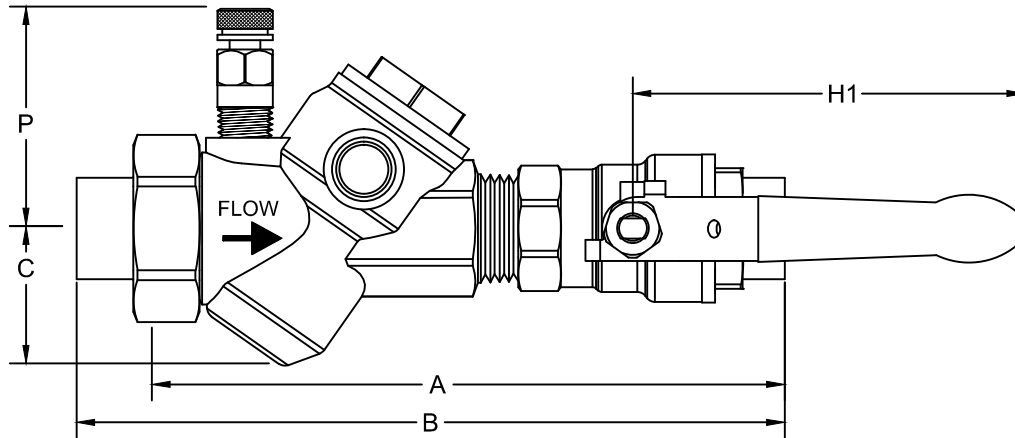


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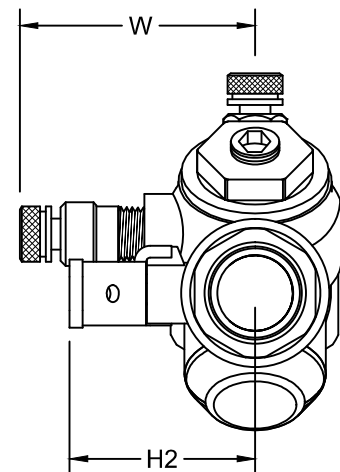
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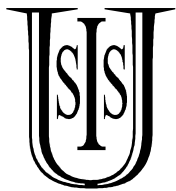
C: AFLB - 1½" H - 2½"



BALL VALVE SIZE AND TYPE	A	TAIL PIECE	B	WEIGHT (lbs)	C	H1	H2	P	W
1½" SWT	13.7	- M	16.2	18.4	2.5	3.5	2.1	3.0	3.7
		1¼" - F	16.2	18.5					
		- S	15.2	17.9					
		- M	16.2	18.4					
		1½" - F	15.0	18.0					
		- S	15.0	17.8					
1½" FPT	13.4	- M	15.9	18.5	2.5	3.5	2.1	3.0	3.7
		1¼" - F	15.9	18.6					
		- S	14.9	17.9					
		- M	15.9	18.4					
		1½" - F	14.7	18.0					
		- S	14.7	17.8					
2" SWT	12.5	- M	15.5	19.7	2.5	3.5	2.1	3.0	3.7
		1½" - F	15.5	19.6					
		- S	14.1	18.7					
		- M	15.5	19.7					
		2" - F	13.7	19.0					
		- S	14.0	18.7					
2" FPT	12.0	- M	15.0	19.6	2.5	3.5	2.1	3.0	3.7
		1½" - F	15.0	19.5					
		- S	13.6	18.6					
		- M	15.0	19.6					
		2" - F	13.2	18.9					
		- S	13.5	18.6					
2½" FPT	14.5	- M	18.6	23.6	2.5	8.5	4.5	3.0	3.7
		2½" - F	20.2	24.2					
		- S	18.5	16.5					



Note: All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions, weights, and material specifications.

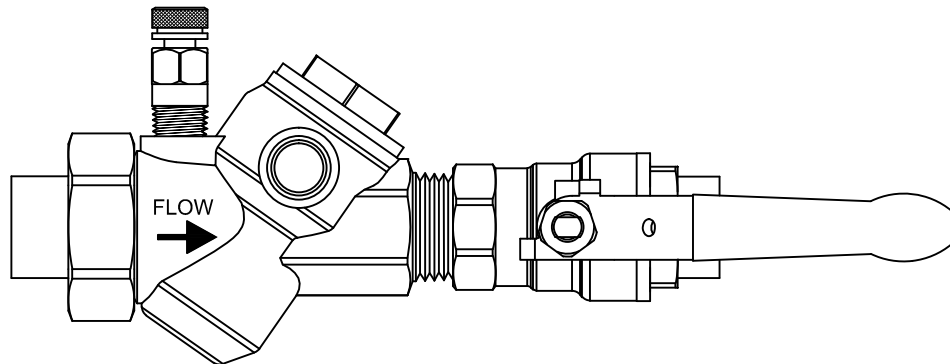


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SUBMITTAL

Automatic Flow Limiter w/ Ball Valve - AFLB Series

- A: AFLB - ½" - 1" L
 B: AFLB - 1" H - 1½" L
 C: AFLB - 1½" H - 2½" L



AFLB - X - X - X - X - X - X - XX,

MODEL DESIGNATION AFLB - Automatic Flow Limiter w/ Ball Valve	VALVE SIZE A B C	FIXED END CONNECTION F - FPT S - SWT M - MPT	FIXED END LINE SIZE 1 - ½" 2 - ¾" 3 - 1" 4 - 1¼" 5 - 1½" 6 - 2" 7 - 2½"	TAIL PIECE CONNECTION F - FPT S - SWT M - MPT	TAIL PIECE SIZE 1 - ½" 2 - ¾" 3 - 1" 4 - 1¼" 5 - 1½" 6 - 2" 7 - 2½"	FLOW RATE CODE <i>Use chart below for code or specify special rate.</i>	OPTIONS <i>separate w/ comma</i> XH - Extended Handle XM - Extended Handle w/ Memory Stop XP - Extended PT
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Valve Size		FLOW RATES (GPM)* CONTROL RANGE 2 - 60+ PSID																									
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A	½" - 1" L	.33	.50	.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	9	10	11	12
B	1" H - 1½" L	5	5.5	6	6.5	7	8	9	10	12	13	14	15	16	18	20	22	24	26	28	30	32	34	36	38	40	42
C	1½" H - 2½" L	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	130	140	150	160	170	180

* Custom flow rates can be calibrated at the factory for an additional charge. Unless confirmed as special, flow rates will default to standard flow rate.

JOB NAME:		CUSTOMER:	
ENGINEER:		REF/PO#:	
CONTRACTOR:		SUBMITTED BY:	
		DATE:	
		DATE:	
PART # (See table above)	TAGGING/JOB INFORMATION	GPM	QUANTITY