

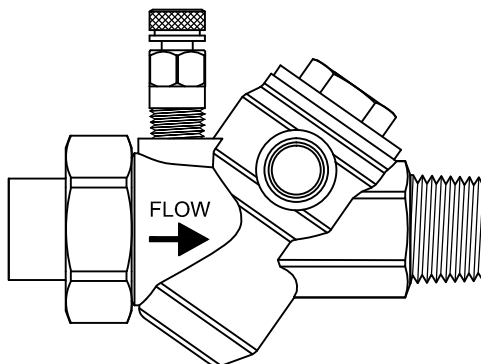


# US Industrial Sourcing, L.L.C.

## SPECIFICATIONS

### Automatic Flow Limiter Device - AFLD Series

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



**PRODUCT DESCRIPTION:** The USIS AFLD is an Automatic Flow Limiting Device, male ended by union, rated at 600 WOG. The AFLD is supplied with a stainless steel flow limiting cartridge that can be removed for cleaning, inspection, and, if necessary, cartridge exchange. The AFLD comes standard with two pressure/temperature ports and a hanging ID tag for easy identification. The union side connections are available in NPTM, NPTF, SWT, and a variety of reductions.

STANDARD MATERIAL SPECIFICATIONS		STANDARD OPERATING SPECIFICATIONS	
Body	Forged Brass ASTM B283-06	Control range:	2 psi - 60+ psi
O-Ring	EPDM	Accuracy:	±5%
Tail Piece	Brass ASTM B124-09, B228-06, or B763-08A	Max Working Pressure:	600 WOG
Flow Cartridge	ASTM A582 Type 303 Stainless Steel	Max Operating Temperature:	40°F to 250°F
Diaphragm	EPDM	Start-Up Head Loss:	5 Feet of H <sub>2</sub> O
Spring	Stainless Steel		
PT Port	EPDM Dual Durometer Core		

*NOTE: The specific ASTM standard may vary and should be confirmed at time of order.*

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

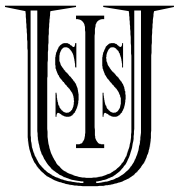
\* Custom flow rates can be calibrated at the factory for an additional charge.

### PRODUCT SPECIFICATIONS:

- 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

*US patent pending.*

The information presented in this 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.

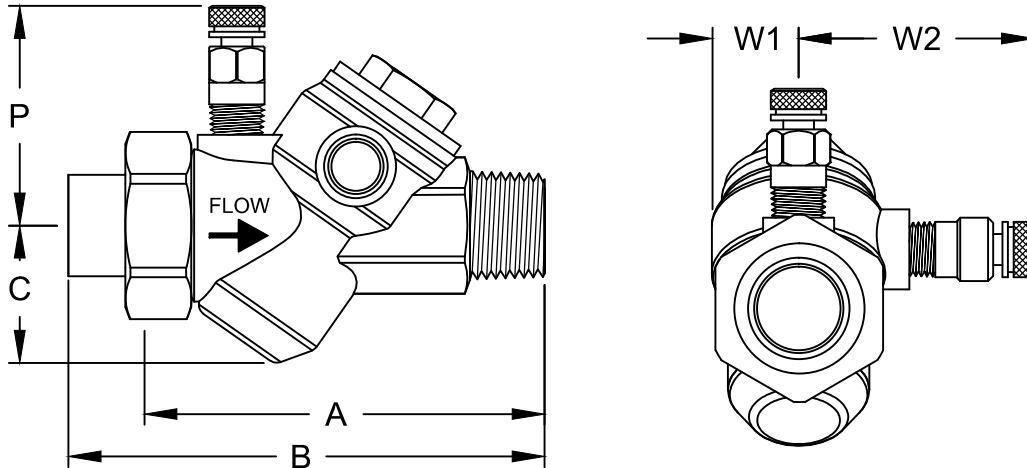


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## DIMENSIONS

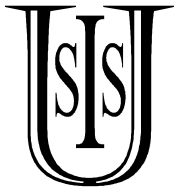
### Automatic Flow Limiter Device - AFLD Series

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



SIZE	A	TAIL PIECE	B	WEIGHT (lbs)	C	P	W1	W2
A: ½" - 1" L	3.94	- M	5.51	1.81	1.30	2.25	0.85	2.33
		½" - F	5.04	1.81				
		- S	4.69	1.69				
		- M	5.51	1.84				
		¾" - F	5.04	1.73				
		- S	4.69	1.69				
		- M	6.98	2.02				
		1" - F	6.01	1.87				
		- S	6.08	1.78				
B: 1" H - 1½" L	5.50	½" - M	7.50	4.66	1.43	2.39	1.27	2.70
		- M	7.50	4.86				
		¾" - F	7.50	4.84				
		- M	7.50	4.47				
		1" - F	7.50	4.49				
		- S	6.83	4.91				
		- M	7.50	4.78				
		1¼" - F	6.50	4.48				
		- S	6.51	4.76				
C: 1½" H - 2½" L	7.90	- M	10.90	16.7	2.5	3.0	2.14	3.51
		1¼" - F	10.90	16.3				
		- S	9.41	15.5				
		- M	10.90	16.5				
		1½" - F	10.90	16.4				
		- S	9.53	15.5				
		- M	10.90	16.5				
		2" - F	9.06	15.8				
		- S	9.04	15.5				
		- M	11.80	19.4				
		2½" - F	10.57	20.6				
		- S	10.42	17.9				

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

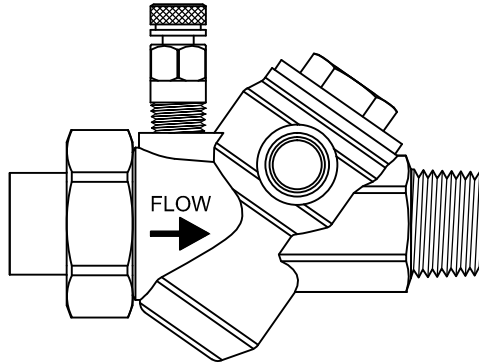


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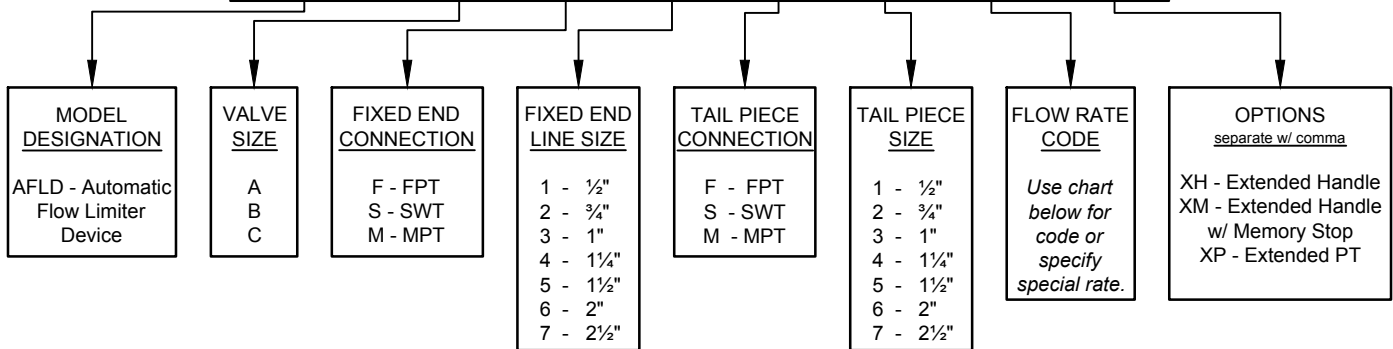
## SUBMITTAL

### Automatic Flow Limiter Device - AFLD Series

- A: AFLD - ½" - 1" L  
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 C: AFLD - 1½" H - 2½"



**AFLD - X - X - X - X - X - X - XX,**



Valve Size		FLOW RATES (GPM)*    CONTROL RANGE 2 - 60+ PSID																											
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C	1½" H - 2½"	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