

AFR/AFX

External Temperature Sensing Valve



Design Features

- Self-contained actuator
- No external power or remote signal
- In line serviceability
- Insensitive to line pressure
- Valve opens/closes gradually, preventing system shock
- High repeatability: No set point drift
- Set points from 35 to 255°F
- Max working pressure 200 psig
- 100% factory tested

Benefits

- Easy installation
- Reliable, unattended operation
- Minimal maintenance requirements

Specification and Ordering Information

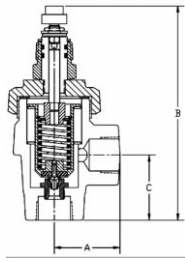


Figure 1

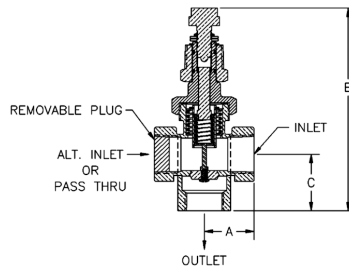
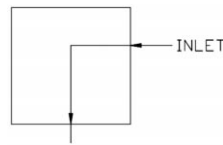
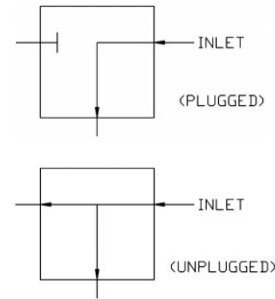
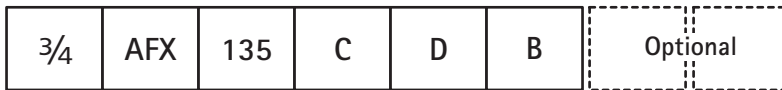


Figure 2



Inlet Size (npt)	Outlet Size (npt)	Valve Type	Full Open Set Point	Port (in)	Max Operating (psig)	Cv	Action	Body Material	Fig	Dimensions			Net Weight (lbs)
										A	B	C	
3/4	3/4	AFR	45-255°F	B=1/4"	200	0.5	R	B,S	1	1.88	6.17	1.88	4.5
3/4	3/4	AFR		C=3/8"	80	0.9	R	B,S	1	1.88	6.17	1.88	4.5
1	3/4	AFR		B=1/4"	200	1	R	B	2	2.13	8.62	2.41	4.6
1	3/4	AFR		C=3/8"	50	1.4	R	B	2	2.13	8.62	2.41	4.6
1-1/4	3/4	AFR		B=1/4"	200	1	R	B	2	2.13	8.62	2.41	4.6
1-1/4	3/4	AFR		C=3/8"	50	1.4	R	B	2	2.13	8.62	2.41	4.6
1-1/4	1-1/4	AFR		D=1-1/16"	125	5.2	R	B	2	2.13	8.62	2.41	5.3
3/4	3/4	AFX	35-240°F	A=1/8"	200	0.5	D	B,S	1	1.88	6.17	1.88	4.6
3/4	3/4	AFX		B=3/4"	200	0.8	D	B,S	1	1.88	6.17	1.88	4.6
3/4	3/4	AFX		C=3/8"	200	1	D	B,S	1	1.88	6.17	1.88	4.6
1	3/4	AFX		C=3/8"	200	1.2	D	B	2	2.13	8.62	2.41	4.6
1-1/4	3/4	AFX		C=3/8"	200	1.4	D	B	2	2.13	8.62	2.41	4.6

How To Order



Size (NPT)
Specify:
3/4, 1, 1-1/4

Valve Type
Specify:
AFX (direct acting)
AFR (reverse acting)

Temperature
Full Open
Specify temperature between 35° and 255°F in 5°F increments. Differential from full open to full closed is typically 10° to 15°F. Valve opens/closes gradually.

Body Material
Specify:
B = Bronze
S = Stainless Steel

Valve Action
Specify:
D = Direct
R = Reverse

Port Size
Specify:
A, B, or C, per the Valve Selection Chart

Plug Material
Direct Acting: Blank = Silicone, TP = Teflon
Reverse Acting: Blank = Urethane, V = Viton

For Reverse Action Valves

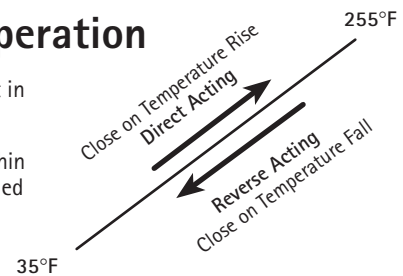
Optional standard leak ports. Add "L" with "X" or "Z" port size.
LX - 1/4 to 1/2 GPM at 60 PSIG
LZ - 1/2 to 1 GPM at 60 PSIG
Consult your distributor for additional leak port requirements.

Note: 1-1/4 D port Brass Only

Principle of Operation

Specify a full open set point in 5°F increments

Valve will slowly actuate within a 15°F differential of specified set point.



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Ogontz has a policy of continuous product research and improvement, and reserves the right to change specifications without notice.

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