

MODEL 623A EXTENDED RANGE FLOW SWITCH

TS 623A

RELIABLY DETECTS AND ALARMS THE USAGE OF A SAFETY SHOWER OR AN EYE WASH STATION

- Detects flows of less than 1 gpm(3 ipm)
- Does not cause a High Pressure Drop at Up to 50 times the actuation rate
- SPDT or DPDT output contacts
- Flow powered, no electrical service required
- Reliable, proven in over 20 years of service

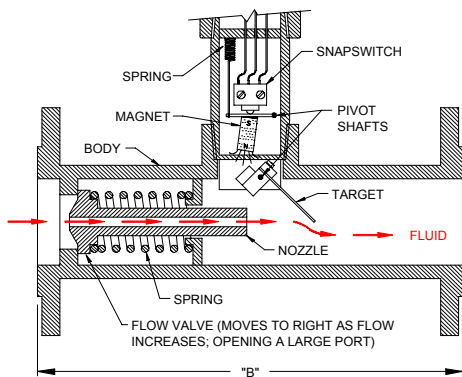
OPERATING PRINCIPLE

The Model 623A is a dual stage flow switch that actuates at low flow rates yet does not produce unacceptably high-pressure drops at 50 times the actuation rate. The Model 623A consists of two sections; a flow sensing target and a pressure operated flow bypass valve.

The water flow rate caused by operation of a single eye wash station is detected and alarmed. Simultaneous operation of a shower, or even multiple showers, does not cause significant decreases in the delivered flow rate. Unusually long flow lines do not cause the 623A to restrict the delivered flow volume.

As the flow rate begins to increase from zero, the fluid flows only through a restriction nozzle and impinges against a target, which rotates at the calibrated flow rate. A switch, magnetically coupled to the target, is then actuated. The switch output is used for alarm or control. The flow valve opens when the flow rate exceeds the actuation rate. This allows the additional fluid flow to bypass the restriction nozzle. The pressure drop is thus limited to a low value at high flow rates.

OPERATING SCHEMATIC (SHOWN WITH SWITCH ACTUATED & FLOW VALVE STILL CLOSED)



-- "B" DIMENSION (Inches Face to Face) --

TYPE CONN.	1"	1-1/2"	2"
FNPT	6.15	7.25	9.00
150# R.F.	11.25	6.55	6.50

Housing: Class 1, Division 1, Groups BCD, also 4X and IP67
Third Party Listings: CSA (Canada) and NRTL/C (USA); Aluminum



623 WITH 1 1/2" FPT PIPELINE CONNECTIONS

MODEL NUMBER

Basic Type	Wetted Material	Switch Contacts	Pipeline Size	Options
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Example: 623A - YY - B - 1 1/2" NPT - AA

M/N	BODY	TRIM/TARGET
YY	316 SS	316 SS

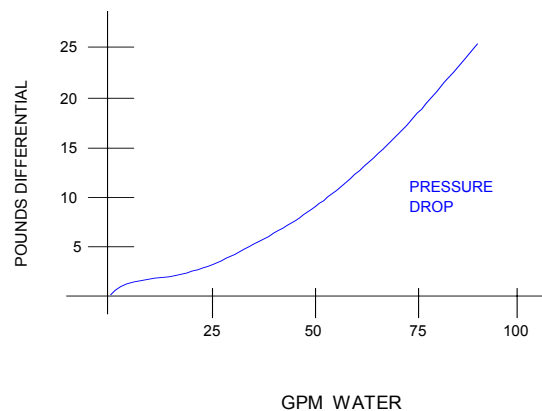
M/N	CONTACT	AMPS	CONN.
A	SPDT	10*	OXIDE
AG	SPDT	1	GOLD
C	DPDT	10*	OXIDE
CG	DPDT	1	GOLD

* AMP RATINGS UP TO 250 VAC;
RATED 4 AMPS AT 24 VDC

M/N	DESCRIPTION
AA	None
SH	SS HOUSING
TS	TERMINAL STRIP
SN	SS HOUSING NIPPLE
HF	HIGH FLOW RATES; OVER 120 GPM OR 360 SCFM
ZZ	OTHER CONFIGURATIONS

M/N	DESCRIPTION
1 1/2" NPT	BASIC; ANSI; FEMALE PIPE
ZZ	1" TO 2" (25 TO 50mm); NPT, BSP, OR FLANGED; ANY REQUIRED

SWITCHING POINTS (Fixed, Within 10%)
ACTUATION: 0.9 GPM Water
DEACTUATION: 0.5 GPM Water
MATERIALS: 316 S.S. Basic, others optional



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