

REMOTE MANUAL PULL STATION

The remote manual pull station (Part No. 434618 or 435960) is made out of a molded red composite material. The red color makes the pull station more readily identifiable as the manual means for fire suppression system operation. The pull station is compatible with the ANSUL Flexible Conduit. The molded manual pull station should be mounted at a point of egress and positioned at a height determined by the authority having jurisdiction. Trim Rings (Part No. 427074) (pack of 10), are available.

Part No. 434618 (Without Wire Rope)

Part No. 435960 (With 50 ft (15.2 m) of Wire Rope)

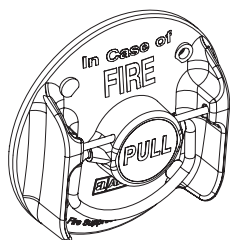


FIGURE 3-26
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FLEXIBLE CONDUIT

Flexible conduit allows for quicker installations and the convenience of being able to route the cable over, under and around obstacles. Flexible conduit can be used as a substitute for standard EMT conduit or can be used with EMT conduit. Flexible conduit can be used only with the Molded Manual Pull Station (Part No. 434618) and mechanical gas valve installations. The Flexible Conduit comes in a 500 ft (152.4 m) length (Part No. 434525) or together with 500 ft (152.4 m) of wire rope (Part No. 435959).

- A 50 ft (15.2 m) Flexible Conduit pre-fed with wire rope (Part No. 439104) is available.

Also available is a Flexible Conduit Strain Relief (50-pack) (Part No. 435979).

- A 50-pack of Flexible Conduit Inserts (Part No. 434347) and a 50-pack of P-Clips (Part No. 436150) are also available.

► **Note 1: Flexible conduit is intended for indoor use ONLY.**

► **Note 2: Flexible conduit cannot be used in detection systems.**

MECHANICAL GAS VALVES

The mechanical gas valves are designed to shut off the flow of gas to the appliances upon actuation of the regulated release assembly. The valves are available in sizes of 3/4 in., 1 in., 1 1/4 in., 1 1/2 in., and 2 in. ANSUL style; and 2 1/2 in. and 3 in. ASCO style. The valves are rated for natural and LP gas. Both styles are UL Listed and includes the air cylinder, tubing, and fittings (Part No. 15733) for connection to the release mechanism.

Part No.	Description	Maximum Operating Pressure
55598	3/4 in. Gas Valve (ANSUL)	10 psi (0.69 bar)
55601	1 in. Gas Valve (ANSUL)	10 psi (0.69 bar)
55604	1 1/4 in. Gas Valve (ANSUL)	10 psi (0.69 bar)
55607	1 1/2 in. Gas Valve (ANSUL)	10 psi (0.69 bar)
55610	2 in. Gas Valve (ANSUL)	10 psi (0.69 bar)
25937	2 1/2 in. Gas Valve (ASCO)	5 psi (0.35 bar)
25938	3 in. Gas Valve (ASCO)	5 psi (0.35 bar)

Pipe Size (inches)	Flow Capacity (CFH) P.D. 1 in. WC 0.64 SP GR	BTU/HR, at 1 in. P.D. 0.64 SP GR 1000 BTU/ft ³ Natural Gas
3/4	751	751,000
1	1288	1,288,000
1 1/4	1718	1,718,000
1 1/2	2630	2,630,000
2	4616	4,616,000
2 1/2	5700	5,800,000
3	7100	7,300,000

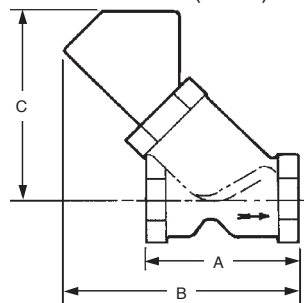
To calculate gas flow for other than 1 inch p.d.:

$$\text{New cfh} = (\text{cfh at 1 inch}) \times \sqrt{\text{new p.d.}}$$

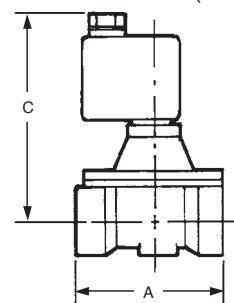
To calculate gas flow for other than 0.64 SP GR:

$$\text{New cfh} = (\text{cfh at 0.64}) \times \sqrt{\frac{0.64}{\text{New SP GR}}}$$

Valve Size	A in. (mm)	B in. (mm)	C in. (mm)
3/4 in.	3 3/4 (95.3)	6 3/8 (161.9)	5 1/2 (139.7)
1 in.	3 3/4 (95.3)	6 3/8 (161.9)	5 1/2 (139.7)
1 1/4 in.	4 7/8 (123.8)	7 3/8 (187.3)	6 3/8 (161.9)
1 1/2 in.	4 7/8 (123.8)	7 3/8 (187.3)	6 3/8 (161.9)
2 in.	5 7/8 (149.2)	7 7/8 (200.0)	6 11/16 (169.9)
2 1/2 in.	7 13/16 (198.4)	-----	9 1/16 (230.2)
3 in.	7 25/32 (197.6)	-----	9 1/16 (230.2)



3/4 IN. THRU 2 IN.



2 1/2 IN. THRU 3 IN.

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FIGURE 3-27