

Pressure Gauges

Gauges for sprinkler systems and fire pumps are designed for use with air or water. These gauges are usually of the Bourdon tube type. The moving parts are fabricated of appropriate corrosion-resistant materials.

When installed on the air side of a dry pipe system, a retard type gauge may be used. This gauge is assembled with a tube appropriate to the unretarded pressure range of the gauge and is provided with a spring to resist the full scale load.

The two common sizes are 4 1/2 and 3 1/2 in. diameter. These gauges can be calibrated with a hydraulic testing unit by adjusting the dial pointer to read correctly at known pressures. Accuracy requirements are that the gauge be correct within 2% over the center third of its scale and within 3% over the remaining two-thirds. Dial marking subdivisions correspond to the maximum accuracy of the gauge.

For service on fire pumps where the suction may be taken under a lift, compound pressure vacuum gauges are available graduated in pressure units over both the pressure and vacuum scales, and are designed not to be injured by vacuum.

To minimize possible damage and provide maximum accuracy, gauges should be selected with scales of about twice the maximum system pressure.

Model 111.10SP.100

Air or Water Pressure Gauge - Model 111.10SP.100

- 0-300 psi (0-2068 kPa). 4 in. (100 mm) size, Plastic Case.
- 0-300 psi (0-2068 kPa). 4 in. (100 mm) size, Steel case with brass plated finish.
- 0-400 psi (0-2760 kPa). 4 in. (100 mm) size, Plastic Case.
- 0-400 psi (0-2760 kPa). 4 in. (100 mm) size, Steel case with brass plated finish.
- 0-600 psi (0-4140 kPa). 4 in. (100 mm) size, Plastic case.
- 0-600 psi (0-4140 kPa). 4 in. (100 mm) size, Steel case with brass plated finish.

Retard Pressure Gauge - Model 111.10SP.100

- 0-80-250 psi (0-550-1725 kPa). 4 in. (100 mm) size

These gauges have a BSP or 1/4 in. male NPT bottom connection.

Company Name:	Wika Instrument Corp
Company Address:	1000 Wiegand Blvd, Lawrenceville, Georgia 30043, USA
Company Website:	http://www.wika.com
Listing Country:	United States of America
Certification Type:	FM Approved

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Type 35-W1005P-02L-XUL

"Ashcroft" Brand Type 35-W1005P-02L-XUL Pressure Gauge. 0-100 psi (0-690 kPa), 0-150 psi (0-1035 kPa), 0-250 psi (0-1725 kPa), 0-300 psi (0-2070 kPa), 0-600 psi (0-4135 kPa). 3 1/2 in. Retard Pressure Gauge. 0-80-250 psi (0-550-1725 kPa).

Company Name:	Ashcroft Inc
Company Address:	250 E Main St, Stratford, Connecticut 06614, USA
Company Website:	http://www.ashcroftinc.com
Listing Country:	United States of America
Certification Type:	FM Approved

Waterflow Detectors, Vane Type

Waterflow detectors installed in sprinkler systems provide an electrical alarm when a flow of water from the system equals or exceeds that of a single sprinkler. They can be used with either open or closed signaling circuits.

They may consist of a flexible vane which projects into the waterway or a pressure-sensing device. For the flexible vane type, water movement deflects the vane, and the motion is transmitted to an alarm-actuating switch after a predetermined time delay. The time delay is accomplished by the use of an instantly recycling retard.

Unless otherwise noted in the listing, the flexible vane type is to be used with pipe having an inside diameter which corresponds to Schedule 40 pipe for sizes up to and including 6 in. (152 mm) or Schedule 30 pipe for sizes 8 and 10 in. (203 and 254 mm).

Waterflow detectors should not be specified for those systems where the time duration of a pressure fluctuation is greater than the retard time. Instantly recycling retards will not transmit an electrical alarm until the time duration of the pressure fluctuation or waterflow past the vane of the flow detector has exceeded the predetermined time setting of 30-60 seconds. Unless otherwise noted in the listing, these detectors have 175 psi (1205 kPa) rated working pressure.

Model VSR

Model VSR. 2 through 8 in. NPS. Furnished with two snap switches and pneumatic retard. 450 psi (3100 kPa) rated working pressure.

Model VSR-TSK. 2 through 6 in. NPS. Furnished with two snap switches and pneumatic retard, and a tamper switch to indicate that the cover was removed. 450 psi (3100 kPa) rated working pressure.

Model VSR-F. 2 through 8 in. NPS. Furnished with two snap switches and pneumatic retard. 450 psi (3105 kPa) rated working pressure.

Models VS-F, VSR-F. 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS (203 mm), for use with pipe having a wall thickness of 0.188 in. (5 mm), or Schedule 40 pipe.

Model VSR-FE-2. 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS, for use with pipe having a wall thickness of 0.188 in. (5 mm). All sizes also for use in Schedule 40 pipe. 450 psi (3105 kPa) rated working pressure. Furnished with electronic retard.

Model VSR-FEX. 2 through 8 in. NPS. For simultaneous usage as explosionproof for Class I, Division 1, Groups C and D; dust-ignitionproof for Class II/III, Division 1, Groups E, F and G hazardous (classified) locations indoors and outdoors (NEMA Type 4); 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS, for use with pipe having a wall thickness of 0.188 in. (5 mm). All sizes also for use in Schedule 40 pipe. 450 psi (3105 kPa) rated working pressure. Furnished with pneumatic retard.

Company Name:	Potter Electric Signal Company
Company Address:	2081 Craig Road, Saint Louis, Missouri 63146, USA
Company Website:	Not Available
Listing Country:	United States of America
Certification Type:	FM Approved

Quick Opening Valves

Manually operated ball valves are used to control water to small open-head extinguishing systems or in the trim on waterflow alarm valves, dry pipe valves or automatic water control valves.

The friction loss through these valves should be considered when they are used in hydraulically calculated extinguishing systems. Consult the manufacturer for details. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

FBV-3C, FBVS-3C, FBV-3C-SS

<i>Product Designation</i>	<i>Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Pressure Rating, psi (kPa)</i>	<i>Remarks</i>
FBV-3C	Ball Valve	1/2, 3/4, 1, 1 1/4, 1 1/2	600 (4135)	a
FBV-3C	Ball Valve	2	300 (2070)	a
FBVS-3C	Ball Valve	1/2, 3/4, 1, 1 1/4, 1 1/2	600 (4135)	b
FBVS-3C	Ball Valve	2	300 (2070)	b
FBV-3C-SS	Ball Valve	1/2, 3/4, 1, 1 1/4, 1 1/2	600 (4135)	a
FBV-3C-SS	Ball Valve	2	300 (2070)	a

Remarks:

- a. Valve supplied with female NPT pipe thread connections.
- b. Valve supplied with solder end connections.

Company Name:	Watts Regulator Co
Company Address:	815 Chestnut St, North Andover, Massachusetts 01845, USA
Company Website:	http://www.watts.com
Listing Country:	United States of America
Certification Type:	FM Approved

Sprinkler System Alarm Testers

Each separate sprinkler system must be equipped with a separate waterflow alarm. In a high rise building, the system for each floor must be separately alarmed. Where pressure reducing valves are used, a dual alarm and drain piping arrangement is required. The alarm testers listed below combine test and drain valves, a waterflow sight glass, and a calibrated flow orifice in a single assembly to simplify the piping required for such arrangements.

Model 1000 TESTanDRAIN

Model 1000 TESTanDRAIN. 1, 1 1/4, 1 1/2, 2 in. NPT or 1, 1 1/4, 1 1/2, 2 in. BSP. Female threaded connections. 2.8, 5.6, 8.0, 11.0 nominal K-factor. 300 psi (2070 kPa) rated working pressure. For 1 1/4, 1 1/2, 2 in. NPT size only, 14.0, 16.8, 22.4, and 25.2 nominal K-factor. 300 psi (2070 kPa) rated working pressure. 1, 1 1/4, NPT sizes have either a 1/2 or 3/4 in. NPT tapped and plugged outlet in the tailpiece. 1 1/2 and 2 in. NPT sizes have either a 1/2, 3/4, or 1 in. NPT tapped and plugged outlet in the tailpiece.

Company Name:	AGF Mfg Inc
Company Address:	100 Quaker Lane, Malvern, Pennsylvania 19355, USA
Company Website:	http://www.testandrain.com
Listing Country:	United States of America
Certification Type:	FM Approved

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Model 1011 TESTanDRAIN

Model 1011 TESTanDRAIN 1, 1 1/4, 1 1/2, 2 in. NPT or 1, 1 1/4, 1 1/2, 2 in. BSP Female threaded connections. 2.8, 5.6, 8.0, 11.0 nominal K-factor. 300 psi (2070 kPa) rated working pressure. For 1 1/4, 1 1/2, 2 in. size only, 14.0, 16.8, 22.4, and 25.2 nominal K-factor. 300 psi (2070 kPa) rated working pressure. 1, 1 1/4 NPT sizes have either a 1/2 or 3/4 in. NPT tapped and plugged outlet in the tailpiece 1 1/2, 2 in. NPT size have either a 1/2, 3/4, or 1 in. NPT tapped and plugged outlet in the tailpiece.

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