FM Approvals

Valves | Water Control Valves (OS&Y and NRS Gate Valves) | Gate Valves, Outside Screw and Yoke

Model KM800

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
KM800	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	Flange x Flange (ANSI)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Automatic Sprinkler Systems

Valves

Gate Valves

Gate Valves, Outside Screw and Yoke

Outside screw and yoke gate valves are recommended for service indoors and in pits outdoors. They are not recommended for throttling service. The stem indicates at a glance whether or not the valve is open. Smaller sizes, ¾ through 2 in. NPS inclusive, are of bronze. Large sizes, 2 ½ through 14 in. NPS inclusive, are of iron, bronze mounted. One manufacturer makes valves of bronze up through the 3 in. size. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

FM Approvals

Valves | Water Control Valves (OS&Y and NRS Gate Valves) | Gate Valves, Outside Screw and Yoke

Model KM850

Product Description

Resilient Seated Gate Valves. 3 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
KM850	3, 4, 5, 6, 8, 10, 12	(80, 100, 125, 150, 200, 250, 300)	362	(2495)	Groove x Groove (AWWA)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Automatic Sprinkler Systems

Valves

Gate Valves

Gate Valves, Outside Screw and Yoke

Outside screw and yoke gate valves are recommended for service indoors and in pits outdoors. They are not recommended for throttling service. The stem indicates at a glance whether or not the valve is open. Smaller sizes, ¾ through 2 in. NPS inclusive, are of bronze. Large sizes, 2 ½ through 14 in. NPS inclusive, are of iron, bronze mounted. One manufacturer makes valves of bronze up through the 3 in. size. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

FM Approvals

Valves | Water Control Valves (OS&Y and NRS Gate Valves) | Gate Valves, Inside Screw

Model KM103-300, KM104-300

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Model KM104-300 is available with indicator post flange. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
KM103-300	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	Flange x Flange (ANSI)
KM104-300	4, 5, 6, 8, 10, 12	(100, 125, 150, 200, 250, 300)	300	(2065)	Flange x Flange (ANSI)

Details

Category	Gate Valves, Inside Screw
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Automatic Sprinkler Systems

Valves

Gate Valves

Gate Valves, Inside Screw

Inside screw gate valves are used underground with indicator posts attached or as roadway box valves (curb box installation). FM Approved valves are available with a variety of end connections as indicated in the listings.

Valves having Ring-Tite, Fluid-Tite or Tyton-Joint connections should be anchored in place during installation. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

FM Approvals

Valves | Angle Hose Valves | Hose Valves, Angle

KM300

Product Description

Model No	Description	Valve Size		Rated Working Pressure	
		in	(mm)	psi	(kPa)
KM300	Standard Hose Valve Female NPT x Male NH, Female NPT x Female NPT	1 1/2	(38)	300	(2065)
KM300	Standard Hose Valve Female NPT x Male NH, Female NPT x Female NPT	2 1/2	(64)	300	(2065)

Details

Category	Hose Valves, Angle
Class of Work	1521 - Angle Hose Valves
Approval Standard	FM 1521, 1522 - Angle and Straightaway Hose Valves
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Hydrants & Hoses

Hose Valves

Hose valves of 1 ½ in. (38 mm) may be used on connections from sprinkler systems; 2 ½ in. (64 mm) valves are used on hose standpipes and fire pump headers. For pressures above 175 psi (1205 kPa), an appropriate pressure reducing device shall be used.

Hose Valves, Angle

FM Approvals

Other Fire Protection Products | Fire Department Connections | Fire Service Connections

KM100

Product Description

Model No	Description	Nominal Size, Inlets x Outlet, in	Rated Working Pressure	
			psi	(kPa)
KM100	Straightway Single Clapper	2 1/2 x 2 1/2 x 4	300	(2065)

Details

Category	Fire Service Connections
Class of Work	1530 - Fire Department Connections
Approval Standard	FM 1530 - Fire Department Connections
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Automatic Sprinkler Systems

Fire Service Connections

A fire service pumper connection, located outside buildings, permits the fire service to pump water into a sprinkler system from a nearby public hydrant or reservoir. Water supplied at high pressure will aid automatic sprinklers to control a fire. The connection may also be used to supply building standpipes.

FM Approved connections are made of bronze and consist of two inlet couplings threaded for standard fire hose and siamesed into an outlet pipe connection. A check valve is provided in each inlet so that either connection may be used separately. The connections are available in straight, 45° or 90° patterns. Unless otherwise noted in the listing, these connections have 175 psi (1205 kPa) rated working pressure.

Approvals

Sprinkler System Components | Branch Line Alarm Testers | Sprinkler System Alarm Testers

KM200

Product Description

Model No	Nominal Pipe Size		K-Factor	Rated Working Pressure		Remarks
	in	(mm)		psi	(kPa)	
Model KM200	1	(25)	5.6	300	(2065)	a, b, c
Model KM200	1 1/4	(32)	5.6	300	(2065)	a, c
Model KM200	1 1/2	(40)	5.6	300	(2065)	a, c
Model KM200	2	(50)	5.6	300	(2065)	a, b, c

Remarks:

a. Available with female NPT connections.

b. Available with grooved connections.

c. Available with female threaded BSP connections.

Details

Category	Sprinkler System Alarm Testers
Class of Work	1625 - Branch Line Testers
Approval Standard	FM 1625 - Sprinkler System Alarm Test Devices
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Automatic Sprinkler Systems

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.

FM Approvals

Valves | Quick Opening Ball Valves | Quick Opening Valves

KM250

Product Description

Model No	Description	Valve Size		Rated Working Pressure		Remarks
		in	(mm)	psi	(kPa)	
KM250	Brass Ball Valve	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	(15, 20, 25, 32, 40, 50)	300	(2065)	a

Remarks:

a. Valve supplied with female NPT end connections .

b. Valve supplied with soldered end connections.

Details

Category	Quick Opening Valves
Class of Work	1140 - Valves (QOT), Ball
Approval Standard	FM 1140 - Quick Opening Valves 1/4 Inch Through 2 Inch Nominal Size
Certification Type	FM Approved
Listing Country	United States of America

Company

Kirmary International LLC
91 Linden Ave, Irvington Township , New Jersey 07111
United States of America
http://kirmary.com

FM Approvals

Additional Info

Automatic Sprinkler Systems

Valves

Miscellaneous Valves

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.

Electrical Signaling

Electrical protective signaling systems are configurations of components used to produce alarm signals indicative of fire, smoke, sprinkler waterflow or other emergency and to produce supervisory signals indicative of conditions needing attention with respect to protection equipment or watch service. System configurations are classified according to where and how the signals are received. The categories are commonly designated as local, municipal, remote station, proprietary, emergency voice/alarm communication, emergency communication, and central station. Auxiliary systems are either local or proprietary systems interconnected with a municipal system.

This category presents the major system component categories and the integrated system configurations. The selection of components to form a hybrid system should be made only by those skilled in system design. Also, the suitability of any system application should be judged on the basis of the hazard(s) being protected.

Supervisory Signal Initiating Devices

Supervisory signals indicate non-alarm conditions affecting important parts of a protection system or timed watchman tours. Normal/abnormal functions are monitored by these switches and switch-actuated transmitters.

Sprinkler System Supervision – Standard Security

Examples of sprinkler supervisory functions are control valve position, tank pressure, tank level, tank temperature, air pressure, fire pump power and fire pump operation.

Models OSYS-B, OSYSU-1, OSYSU-2

Gate Valve Switch. Models OSYS-B, OSYSU-1, OSYSU-2. For supervising open position of an OS&Y type gate valve. Contacts are rated for 15 A at 125/250 V ac and 2.5 A at 0-30 V dc. For indoor or outdoor (NEMA 4) use in ambient temperatures of -40° to 140°F (-40° to 60°C).

Company Name:	Potter Electric Signal Company
Company Address:	1609 Park 370 Place, Hazelwood, Missouri 63042, USA
Company Website:	http://pottersignal.com
New/Updated Product Listing:	No
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.

Models VS-F, VSR, VSR-F, VSR-FE, VSR-FEX, VSR-TSK

Model VSR, VSR-TSK, VSR-F, VS-F, VSR-FE-2, VSR-FEX, VSR-EU
Certificate 3022784

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

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.

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

Company Name:	Potter Electric Signal Company
Company Address:	1609 Park 370 Place, Hazelwood, Missouri 63042, USA
Company Website:	http://pottersignal.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	1042-Waterflow Detectors(vane type)

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 PFE pressure gauge

Air or Water Pressure Gauge - Model PFE Series, 3-1/2 in. (89 mm) size, Plastic Case

• 0 to 80 to 250 psi (0 to 550 to 1750 kPa) Retard Pressure Gauge
• 0 to 300 psi (0 to 2000 kPa)

This gauge has a 1/4 in. male NPT bottom connection.

Company Name:	WINTERS INSTRUMENTS
Company Address:	121 Railside Rd , Toronto, Ontario M3A 1B2, CAN
Company Website:	http://winters.com
New/Updated Product Listing:	No
Listing Country:	Canada
Certification Type:	FM Approved
Class of Work:	