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1	Tamper Switch with FM/UL Certificates
2	Flow Switch with FM/UL Certificates
3	Consultant Approval

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Tamper Switch with FM/UL Certificates

١٥ شارع خالد بن الوليد شيراتون - القاهرة تليفون: ٢٢٦٧٥٣٣٩-٢٢٦٦٤٩٢٠/٠٣

موبايل: ٠١٢٣٧٩٠٥٢٤٨ - ٠١٢٣٧٣٨٩٥٢٨ - ٠١٢١١١٧٨٢٥٠ - ٠١٠١٩٥٤٢٩٤١



OSYSU-1, -2

OUTSIDE SCREW AND YOKE VALVE SUPERVISORY SWITCH

Potter Electric Signal Company
2081 Craig Road • St. Louis, MO 63146-4161
(314) 878-4321 • (800) 325-3936
www.pottersignal.com

Potter Electric Signal & Mfg., LTD.
55 Glen Cameron Road
Thornhill, Ontario, Canada L3T 1P2
(905) 882-1833



OSYSU-1 Stock No. 1010106
OSYSU-2 Stock No. 1010206

**UL and CSFM LISTED, FM APPROVED and NYMEA
ACCEPTED**

Dimensions: 6.19"L X 2.25"W X 5.88"H
15.7cm L X 5.7cm W X 14.6cm H

Weight: 2 lbs (.9 kg)

Enclosure: Cover - Die-Cast
Finish - Red Spatter Enamel
Base - Die Cast Zinc
All parts have corrosion resistant finishes

Cover Tamper: Tamper resistant screws,
Optional cover tamper kit available.

Contact Ratings:
OSYSU-1: One set of SPDT (Form C)
OSYSU-2: Two sets of SPDT (Form C)
15.00 Amps at 125/250VAC
2.50 Amps at 30VDC resistive

Environmental Limitations:
-40°F to 140°F (-40°C to 60°C)
NEMA 4 and NEMA 6P Enclosure (IP67)
Indoor or outdoor use (Not for use in hazardous
locations. See Bulletin No. 5400705 OSYS-U-EX
for hazardous locations).

Conduit Entrances:
2 knockouts for 1/2" conduit provided

Service Use:
Automatic Sprinkler NFPA-13
One or two family dwelling NFPA-13D
Residential occupancy up to four stories NFPA-13R
National Fire Alarm Code NFPA-72

GENERAL INFORMATION

The OSYSU is used to monitor the open position of an OS & Y (outside screw and yoke) type gate valve. This device is available in two models; the OSYSU-1, containing one set of SPDT (Form C) contacts and the OSYSU-2, containing two sets of SPDT (Form C) contacts. These switches mount conveniently to most OS & Y valves ranging in size from 2" to 12". They will mount on some valves as small as 1/2".

The cover is held in place by two tamper resistant screws that require a special tool to remove. The tool is furnished with each device and should be left with the building owner or responsible party. Replacement or

additional cover screws and hex keys are available. See ordering information on page 4.

OPTIONAL COVER TAMPER SWITCH

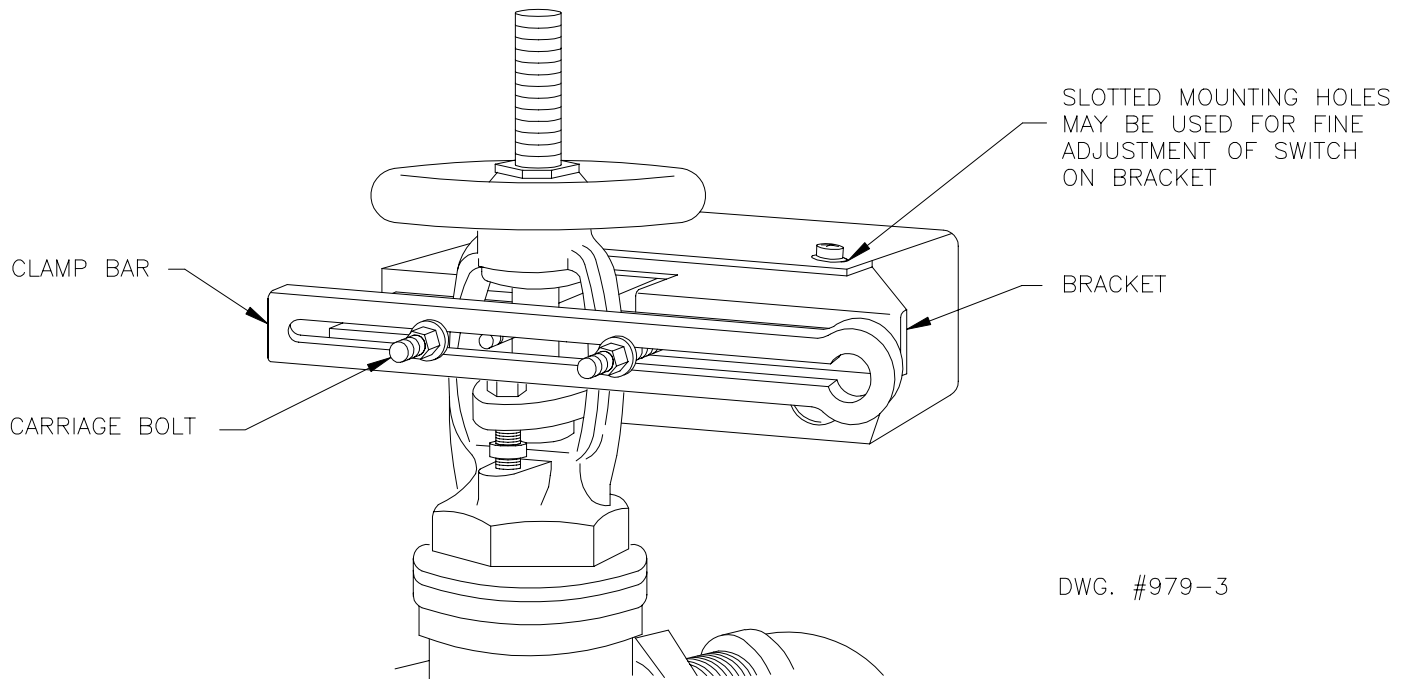
A field installable cover tamper switch is available as an option which may be used to indicate removal of the cover. See ordering information on page 4.

TESTING

The OSYSU and its associated protective monitoring system should be inspected and tested in accordance with applicable NFPA codes and standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

FIG. 1 SMALL VALVE INSTALLATION - 1/2" THRU 2 1/2" SIZES

THESE SWITCHES MOUNT CONVENIENTLY TO MOST 2" TO 12" OS & Y VALVES. THEY WILL MOUNT ON SOME VALVES AS SMALL AS 1/2". J-HOOKS MAY BE REQUIRED ON VALVES WITH LIMITED CLEARANCE.



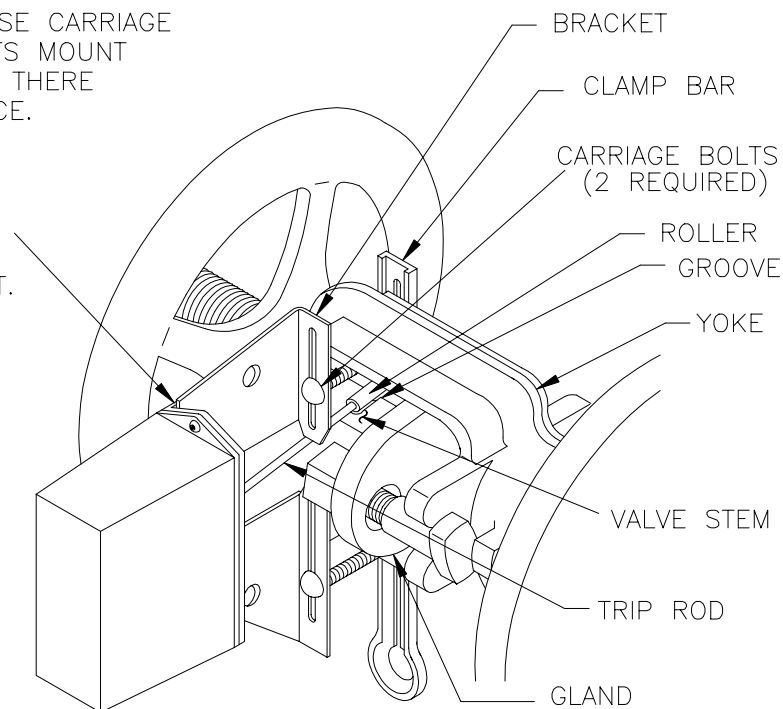
SMALL VALVE INSTALLATION

1. Remove and discard "C" washer and roller from the trip rod.
 2. With the valve in the FULL OPEN position, locate the OSYSU across the valve yoke as far as possible from the valve gland, so that the trip rod lays against the non-threaded portion of the valve stem.
 3. Loosen the locking screw that holds the trip rod in place and adjust the rod length (see Fig. 4). When adjusted properly, the rod should extend past the valve screw, but not so far that it contacts the clamp bar. Tighten the locking screw to hold the trip rod in place.
NOTE: If trip rod length is excessive, loosen the locking screw and remove the trip rod from the trip lever. Using pliers, break off the one (1) inch long notched section (see Fig. 5). Reinstall trip rod and repeat Step 3 procedure.
 4. Mount the OSYSU loosely with the carriage bolts and clamp bar supplied. On valves with limited clearance use J-hooks supplied instead of the carriage bolts and clamp bar to mount the OSYSU.
 5. Mark the valve stem at the center of the trip rod.
 6. Remove the OSYSU. File a 1/8" deep groove centered on the mark on the valve stem utilizing a 3/16" diameter straight file. Round and smooth the edges of the groove to prevent damage to the valve packing and to allow the trip rod to move easily in and out of the groove as the valve is operated.
 7. Mount the OSYSU with the trip rod centered in groove.
 8. Final adjustment is made by loosening 2 screws (see Fig. 1) and sliding the OSYSU on the bracket. Adjustment is correct when switches are not activated with the trip rod seated in the valve stem groove and that the switches activate when the trip rod moves out of the groove.
 9. Tighten the adjustment screws and all mounting hardware. Check to insure that the rod moves out of the groove easily and that the switches activate within one turn when the valve is operated from the FULL OPEN towards the CLOSED position.
- NOTE:** CLOSE THE VALVE FULLY TO DETERMINE THAT THE STEM THREADS DO NOT ACTIVATE THE SWITCH. THE SWITCH BEING ACTIVATED BY THE STEM THREADS COULD RESULT IN A **FALSE VALVE OPEN** INDICATION.

FIG. 2 LARGE VALVE INSTALLATION - 3" THRU 12" SIZES

3" THRU 12" VALVES USE CARRIAGE BOLTS. CARRIAGE BOLTS MOUNT ON INSIDE OF YOKE, IF THERE IS SUFFICIENT CLEARANCE.

SLOTTED MOUNTING HOLES. MAY BE USED FOR FINE ADJUSTMENT OF SWITCH ON BRACKET.



DWG. #979-4

LARGE VALVE INSTALLATION

1. With the valve in the FULL OPEN position, locate the OSYSU across the valve yoke as far as possible from the valve gland, so that the trip rod lays against the non-threaded portion of the valve stem.
2. Mount the OSYSU loosely with the carriage bolts and clamp bar supplied.
3. Loosen the locking screw that holds the trip rod in place and adjust the rod length (see Fig. 4). When adjusted properly, the rod should extend past the valve screw, but not so far that it contacts the clamp bar. Tighten the locking screw to hold the trip rod in place.
- NOTE:** If trip rod length is excessive, loosen the locking screw and remove the trip rod from the trip lever. Using pliers, break off the one (1) inch long notched section (see Fig. 5). Reinstall trip rod and repeat Step 3 procedure.
4. Mark the valve stem at the center of the trip rod.
5. Remove the OSYSU. File a 1/8" deep groove centered on the mark of the valve stem utilizing a 3/8" diameter straight file. Round and smooth the edges of the groove to prevent damage to the valve packing and to allow the trip rod to move easily in and out of the groove as the valve is operated.
6. Mount the OSYSU loosely with the trip rod centered in groove.
7. Final adjustment is made by loosening 2 screws (see Fig. 2) and sliding the OSYSU on the bracket. Adjustment is correct when switches are not activated with the trip rod seated in the valve stem groove and that the switches activate within one turn when the valve is operated from the FULL OPEN towards the CLOSED position.
8. Tighten the adjustment screws and mounting hardware. Check to insure that the rod moves out of the groove easily and that the switches activate within one turn when the valve is operated from the FULL OPEN towards the CLOSED position.
- NOTE:** CLOSE THE VALVE FULLY TO DETERMINE THAT THE STEM THREADS DO NOT ACTIVATE THE SWITCH. THE SWITCH BEING ACTIVATED BY THE STEM THREADS COULD RESULT IN A **FALSE VALVE OPEN** INDICATION.

FIG. 3 DIMENSIONS

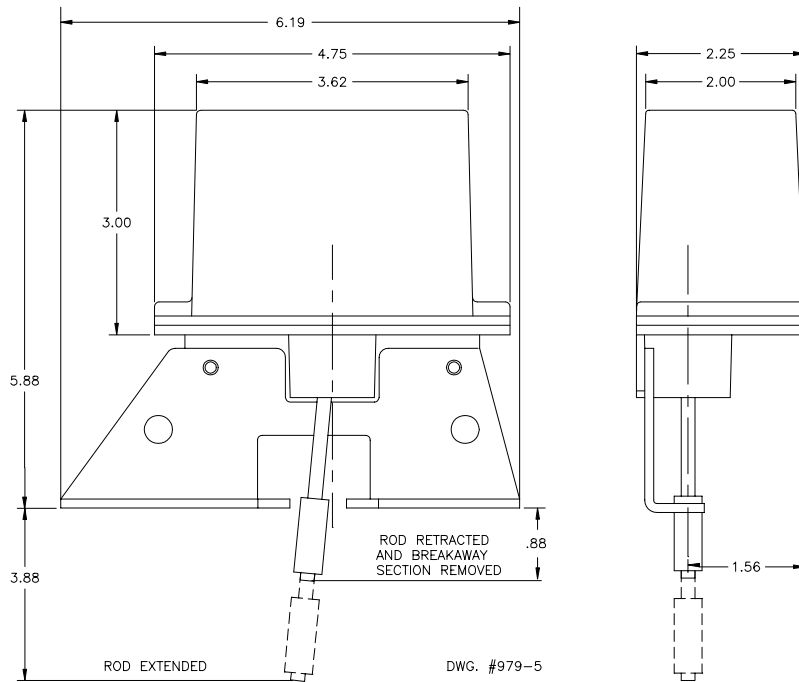
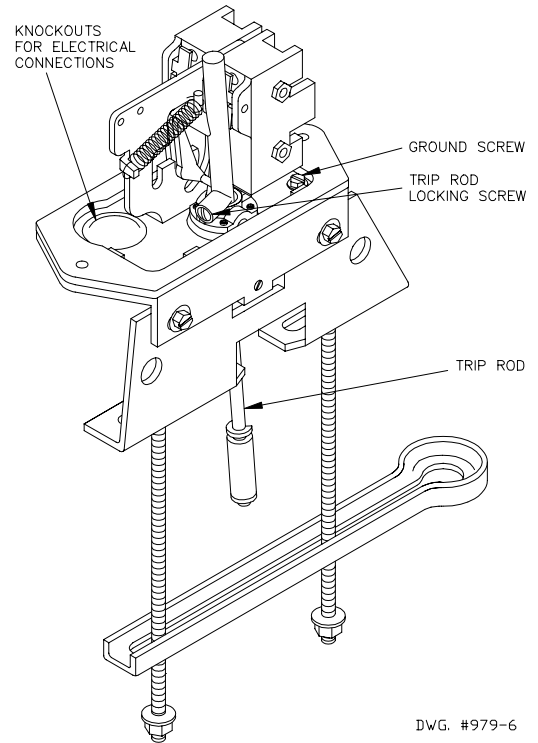
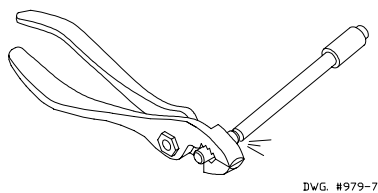


FIG. 4 PARTS

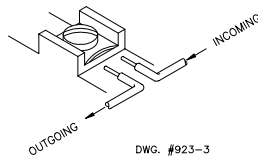


BREAKING EXCESSIVE ROD LENGTH

FIG. 5

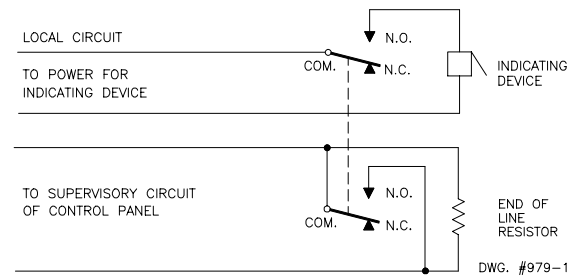


SWITCH TERMINAL CONNECTIONS CLAMPING PLATE TERMINAL



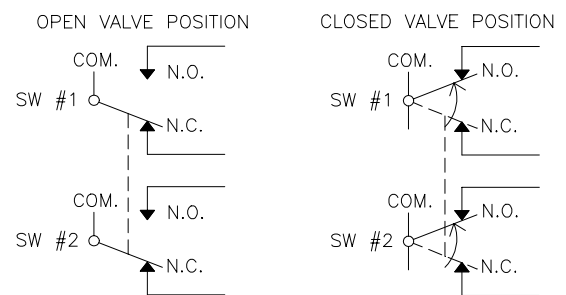
CAUTION:
An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire becomes dislodged from under the terminal.

TYPICAL ELECTRICAL CONNECTIONS



Contacts shown in normal (valve open) condition.

TYPICAL SWITCH ACTION



DWG. #979-2

ORDERING INFORMATION

MODEL	DESCRIPTION	STOCK NO.
OSYSU-1	Outside Screw & Yoke-Supervisory Switch (Single switch)	1010106
OSYSU-2	Outside Screw & Yoke-Supervisory Switch (Double switch)	1010206
--	Cover Screw	5490293
--	Hex Key for Cover Screws and Installation Adjustments	5250062
--	Optional Cover Tamper Switch Kit	0090131

For pressure reducer type valve installation kits (if required) contact valve manufacturer.

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

USQT7.S309 - Extinguishing System Attachments Certified for Canada

Extinguishing System Attachments Certified for Canada

POTTER ELECTRIC SIGNAL CO L L C

1609 PARK 370 PL

HAZELWOOD, MO 63042-4417 United States

S309

Supervisory signal initiating devices, valve supervisory switches, Models PTS-B, PTS-C plug type switches-special applications. Models BVS-1", -3/4", -1/2" Supervised trim valves..

Model RBVS Retro-fit Ball Valve Supervisory Switch.

Supervisory Water Temperature devices, Models TTS-W, TTS-W for steel or wood tanks, indoor or outdoor use.

Supervisory Air Temperature devices, Models RTS-C, RTS-O, for indoor use.

Water supply valve position signals, Models PCVS-1 and PCVS-2, Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC 15 A; **Models OSYSU-1 and OSYSU-2,** Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC; Model PTS-B, Contact rating: 28 V ac-dc, 0.25 A; Model PMS, Contact rating: 24 V ac-dc, 0.15 A; 120 V dc, 0.1 A.

Wet-pipe sprinkler system attachments, Waterflow indicators (vane type), Models VS-SP, VS-SPB, VSR-F, Contact rating: 125/250 V ac, 15 A; 125 V dc, 0.5 A; 250 V dc, 0.25 A; Model VSR-SF, Contact rating: 125/250 V ac, 10 A, 0-30 V dc, 2 A.

SPRINKLER SYSTEM ALARM INITIATING DEVICES DRY-PIPE & WET-PIPE, PRESSURE TYPE

Model	Oper Pressure psig	Max System Pressure psig
PS-10	0-20	300
PS-10A	4-8	300
PS10-1	4-15	300
PS10-1A	4-20	250
PS10-2	4-15	300
PS10-2A	4-20	250
PS10-1 w/Brass Bushing	4-15	300
PS10-2 w/Brass Bushing	4-15	300
PS-100	20-225	300
PS-100A	20-175	300
PS100-2	25-175	300
PS100-2A	20-225	300
WFS-B	10	250
WFSPDB	100	250

WFSR-F	4-8	175
QRS	10-65	175

**SUPERVISORY SIGNAL INITIATING DEVICES
PRESSURE DEVICES**

Model	Oper Pressure psig	Max System Pressure psig
PS-40	20-225	300
PS15-2	5-30	300
PS-40A	20-175	300
PS40-1	10-60	300
PS40-1A	20-175	300
PS40-2A	20-175	300
PS25-2	10-60	300
PS40-2	10-60	300
PS40-1 w/Brass Bushing	10-60	300
PS40-2 w/Brass Bushing	10-60	300
HLS-B	40	250
PS-120	20-225	300
PS-120A	20-175	300
PS120-1	25-175	300
PS120-1A	20-175	300
PS120-2	25-175	300
PS120-2A	20-175	300
PS120-1 w/Brass Bushing	35-225	300
PS120-2 w/Brass Bushing	35-225	300
EPS10EXP	4-20	250
EPS40EXP	10-100	250
EPS120EXP	10-200	250
EPS10-1	4-20	300
EPS10-2	4-20	300
EPS120-1	10-200	300
EPS120-2	10-200	300

Sprinkler System Alarm initiating Devices Wet pipe, Paddle Type

Model	Size In.	Pipe Schedule	Max System Pressure psig
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VSR-SFG, VSR-SFT, VSR-ST, VSR-SG	1, 1-1/4, 1-1/2, 2	Listed Plastic	250
VSR-F, VSR-FE, VSR-FE-2, VS-F	2, 2-1/2, 3,	10-40	450
	3-1/2, 4, 5,	Steel	
VSR-S, VSR-S (EU)	1, 1-1/4, 1-1/2, 2	10-40 Steel	300
		Listed Plastic	
		K, L, M Copper	
VSR-SF, VS-SP, VS-SPB	1, 1-1/4, 1-1/2, 2	10-40 Steel	250
		Listed Plastic	
		K, L, M Copper	
VSR-CF, VSR-C	2, 2-1/2, 3,	Listed Plastic	175
	2, 2-1/2, 3, 4	K, L, M Copper	
VSR, VSR-CR	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8, 10		
VSR-AT	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8		
VSR-EU	2, 2-1/2, 3, 4, 5, 6, 8	10-40 Steel	450
VSG	2, 2-1/2, 3, 4	Water Mist	450
WFD20EXP	2	10-40 Steel	450
WFD25EXP	2.5	10-40 Steel	450
WFD30-2EXP	3	10-40 Steel	450
WFD35EXP	3.5	10-40 Steel	450
WFD40EXP	4	10-40 Steel	450
WFD50EXP	5	10-40 Steel	450
WFD60EXP	6	10-40 Steel	450
WFD80EXP	8	10-40 Steel	450

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type), suitable for indoor and outdoor installation shipped without "U" bolts and nuts to Victaulic customer. Models may be single or bulk-packaged. The packing cartons will also include the assigned Victaulic Part Code on the exterior.

Model WFD20VN with Victaulic Part Code CXS020747020.

Model WFD25VN with Victaulic Part Code CXS024747022.

Model WFD30VN with Victaulic Part Code CSX030747N23.

Model WFD40VN with Victaulic Part Code CXS040747025.

Model WFD60VN with Victaulic Part Code CXS060747027.

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type):

Model	Size In.	Pipe Schedule	Max Working Pressure psig
WFD20VN	2	Victaulic Risers	450
WFD25VN	2-1/2	Victaulic Risers	450
WFD30VN	3	Victaulic Risers	450
WFD40VN	4	Victaulic Risers	450
WFD60VN	6	Victaulic Risers	450
WFD20N, WFD20NA	2	7, 10, 40	450
WFD25N, WFD25NA	2-1/2	7, 10, 40	450
WFD30N, WFD30NA	3	7, 10, 40	450
WFD40N, WFD40NA	4	7, 10, 40	450
WFD50N, WFD50NA	5	10, 40	450
WFD60N, WFD60NA	6	10, 40	450
WFD80N, WFD80NA	8	10, 40	450
WFDTN, WFDTNA, WFDTVN, WFDTNRN, RFDTHN	Threaded Brass or steel: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 Tyco, Spears, Victaulic and NIBCO brand Chlorinated Polyvinyl Chloride: 1		375
WFDNFS, WFDNFSA	SPEARS brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 TYCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 IPEX brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2		175
WFDNFT, WFDNFTA	Steel/Brass Threaded: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1 "CPVC SPEARS w/Metal Band": 1, 1-1/2 "CPVC SPEARS w/Brass Insert": 1 TYCO brand Chlorinated Polyvinyl Chloride: 1		175

The WFD Series waterflow indicators employ an enclosure that was evaluated for Type NEMA 4/IP 54 rating.

Model VS-SP, VS-SPB for outdoor use with Kit No. 1940037. Models VS-F, VSR-F, VSR-CF, VSR-C, VSR-FE, VSR-FE-2 for outdoor use with Kit No. 1940036.

Accessory, Cover Tamper Switch Kit, Model PSCTSK for use with the PS Series Pressure Switches.

Trademark and/or Tradename:  **Safe Signal™**

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للتوريدات الهندسية
إستيراد وتصدير
والتوكيلات التجارية

Flow Switch with FM/UL Certificate

٥ شارع خالد بن الوليد شيراتون - القاهرة تليفون: ٠٣/٢٢٦٦٤٩٢-٢٢٦٧٥٣٣٩

موبايل: ٠١٢٣٧٩٠٥٢٤٨ - ٠١٢٣٧٣٨٩٥٢٨ - ٠١٢١١١٧٨٢٥٠ - ٠١٠١٩٥٤٢٩٤١

E-mail: Kir.mary@yahoo.com

website: www.Kirmary.com



Specifications subject to change without notice.

Ordering Information			
Nominal Pipe Size		Model	Part Number
2"	DN50	VSR-2	1144402
2 1/2"	DN65	VSR-2 1/2	1144425
3"	DN80	VSR-3	1144403
3 1/2"	-	VSR-3 1/2	1144435
4"	DN100	VSR-4	1144404
5"	-	VSR-5	1144405
6"	DN150	VSR-6	1144406
8"	DN200	VSR-8	1144408

Optional: Cover Tamper Switch Kit, stock no. 0090148

Replaceable Components: Retard/Switch Assembly, stock no. 1029030

UL, CUL and CSFM Listed, FM Approved, LPCB Approved, For CE Marked (EN12259-5) / VdS Approved model use VSR-EU

Service Pressure: 450 PSI (31 BAR) - UL

Flow Sensitivity Range for Signal:

4-10 GPM (15-38 LPM) - UL

Maximum Surge: 18 FPS (5.5 m/s)

Contact Ratings: Two sets of SPDT (Form C)
10.0 Amps at 125/250VAC
2.0 Amps at 30VDC Resistive
10 mAmps min. at 24VDC

Conduit Entrances: Two knockouts provided for 1/2" conduit.
Individual switch compartments suitable for dissimilar voltages.

Environmental Specifications:

- NEMA 4/IP54 Rated Enclosure suitable for indoor or outdoor use with factory installed gasket and die-cast housing when used with appropriate conduit fitting.
- Temperature Range: 40°F - 120°F, (4.5°C - 49°C) - UL
- Non-corrosive sleeve factory installed in saddle.

Service Use:

Automatic Sprinkler	NFPA-13
One or two family dwelling	NFPA-13D
Residential occupancy up to four stories	NFPA-13R
National Fire Alarm Code	NFPA-72

WARNING

- Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.
- Shock hazard. Disconnect power source before servicing. Serious injury or death could result.
- Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

CAUTION

Waterflow switches that are monitoring wet pipe sprinkler systems shall not be used as the sole initiating device to discharge AFFF, deluge, or chemical suppression systems. Waterflow switches used for this application may result in unintended discharges caused by surges, trapped air, or short retard times.

Important: This document contains important information on the installation and operation of the VSR waterflow switches. Please read all instructions carefully before beginning installation. A copy of this document is required by NFPA 72 to be maintained on site.

General Information

The Model VSR is a vane type waterflow switch for use on wet sprinkler systems. It is UL Listed for use on a steel pipe; schedules 5 through 40, sizes 2" - 6" and is UL Listed and FM Approved for use on steel pipe; schedules 10 through 40, sizes 2" thru 8" (50 mm thru 200 mm). LPC approved sizes are 2" thru 8" (50 mm thru 200 mm). See Ordering Information chart.

The VSR may also be used as a sectional waterflow detector on large systems. The VSR contains two single pole, double throw, snap action switches and an adjustable, instantly recycling pneumatic retard. The switches are actuated when a flow of 10 GPM (38 LPM) or more occurs downstream of the device. The flow condition must exist for a period of time necessary to overcome the selected retard period.

Enclosure

The VSR switches and retard device are enclosed in a general purpose, die-cast housing. The cover is held in place with two tamper resistant screws which require a special key for removal. A field installable cover tamper switch is available as an option which may be used to indicate unauthorized removal of the cover. See bulletin number 5401103 for installation instructions of this switch.

Potter Electric Signal Company, LLC • St. Louis, MO • Phone: 866-956-1211/Canada 888-882-1833 • www.pottersignal.com

Installation (see Fig. 1)

These devices may be mounted on horizontal or vertical pipe. On horizontal pipe they shall be installed on the top side of the pipe where they will be accessible. The device should not be installed within 6" (15 cm) of a fitting which changes the direction of the waterflow or within 24" (60 cm) of a valve or drain.

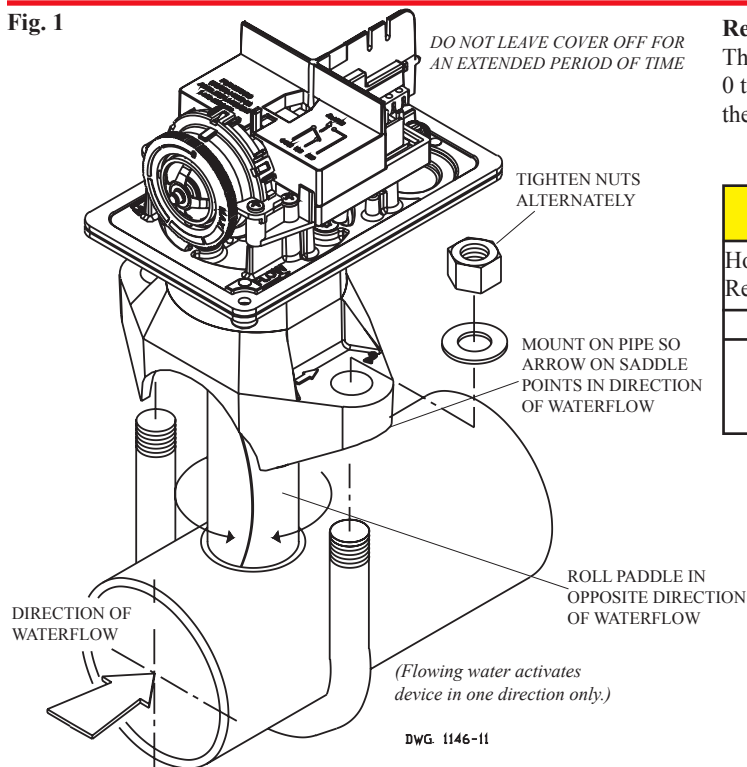
NOTE: Do not leave cover off for an extended period of time.

Drain the system and drill a hole in the pipe using a hole saw in a slow speed drill (see Fig. 1). Clean the inside pipe of all growth or other material for a distance equal to the pipe diameter on either side of the hole. Roll the vane so that it may be inserted into the hole; do not bend or crease it. Insert the vane so that the arrow on the saddle points in the direction of the waterflow. Take care not to damage the non-corrosive bushing in the saddle. The bushing should fit inside the hole in the pipe. Install the saddle strap and tighten nuts alternately to required torque (see the chart in Fig. 1). The vane must not rub the inside of the pipe or bind in any way.

CAUTION

Do not trim the paddle. Failure to follow these instructions may prevent the device from operating and will void the warranty. Do not obstruct or otherwise prevent the trip stem of the flow switch from moving when water flows as this could damage the flow switch and prevent an alarm. If an alarm is not desired, a qualified technician should disable the alarm system.

Fig. 1

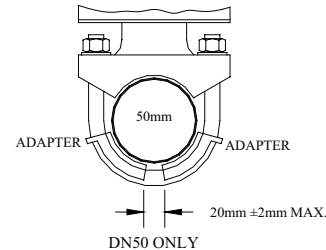
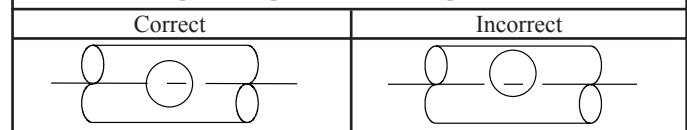


Retard Adjustment

The delay can be adjusted by rotating the retard adjustment knob from 0 to the max setting (60-90 seconds). The time delay should be set at the minimum required to prevent false alarms

CAUTION

Hole must be drilled perpendicular to the pipe and vertically centered. Refer to the Compatible Pipe/Installation Requirements chart for size.



USE (2) 5180162 ADAPTERS AS SHOWN ABOVE

DWG# 1146-1F

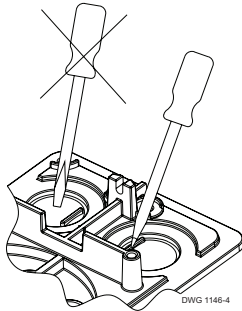
Compatible Pipe/ Installation Requirements

Model	Nominal Pipe Size		Nominal Pipe O.D.		Pipe Wall Thickness										Hole Size		U-Bolt Nuts Torque			
					Lightwall		Schedule 10 (UL)		Schedule 40 (UL)		BS-1387 (LPC)		DN (VDS)							
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	ft-lb	n-m		
VSR-2	2	DN50	2.375	60.3	.065	1.651	0.109	2.77	0.154	3.91	0.142	3.6	0.091	2.3	1.25 ± .125/- .062	33.0 ± 2.0	20	27		
VSR-2 1/2	2.5	-	2.875	73.0	.084	2.134	0.120	3.05	0.203	5.16	-	-	-	-						
VSR-2 1/2	-	DN65	3.000	76.1	-	-	-	-	-	-	0.142	3.6	0.102	2.6						
VSR-3	3	DN80	3.500	88.9	.083	2.108	0.120	3.05	0.216	5.49	0.157	4.0	0.114	2.9	2.00 ± .125	50.8 ± 2.0				
VSR-3 1/2	3.5	-	4.000	101.6	-	-	0.120	3.05	0.226	5.74	-	-	-	-						
VSR-4	4	DN100	4.500	114.3	.084	2.134	0.120	3.05	0.237	6.02	0.177	4.5	0.126	3.2						
VSR-5	5	-	5.563	141.3	-	-	0.134	3.40	0.258	6.55	-	-	-	-						
VSR-6	6	DN150	6.625	168.3	.115	2.921	0.134	3.40	0.280	7.11	0.197	5.0	0.157	4.0						
VSR-8	8	DN200	8.625	219.1	-	-	0.148	3.76	0.322	8.18	0.248	6.3	0.177	4.5						

NOTE: For copper or plastic pipe use Model VSR-CF.

Fig. 2

To remove knockouts: Place screwdriver at inside edge of knockouts, not in the center.



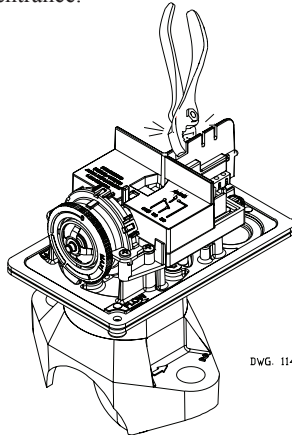
DWG. 1146-4

NOTICE

Do not drill into the base as this creates metal shavings which can create electrical hazards and damage the device. Drilling voids the warranty.

Fig. 3

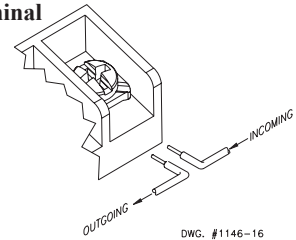
Break out thin section of cover when wiring both switches from one conduit entrance.



DWG. 1146-13

Fig. 4

Switch Terminal Connections Clamping Plate Terminal



DWG. #1146-16

WARNING

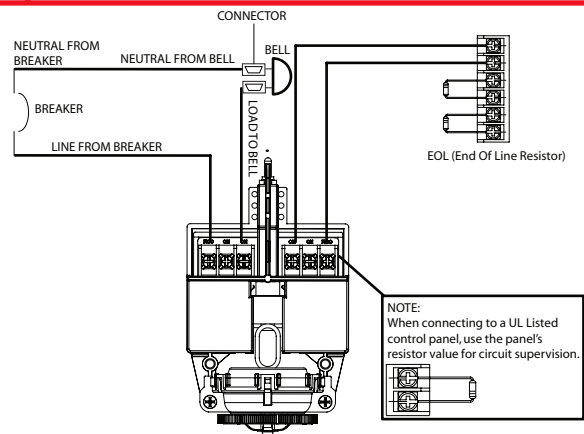
An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire become dislodged from under the terminal. Failure to sever the wire may render the device inoperable risking severe property damage and loss of life.

Do not strip wire beyond 3/8" of length or expose an uninsulated conductor beyond the edge of the terminal block. When using stranded wire, capture all strands under the clamping plate.

Fig. 5 Typical Electrical Connections

Notes:

1. The Model VSR has two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other contact is used to operate a local audible or visual annunciator.
2. For supervised circuits, see "Switch Terminal Connections" drawing and warning note (Fig. 4).



NOTE:
When connecting to a UL Listed control panel, use the panel's resistor value for circuit supervision.

Testing

The frequency of inspection and testing for the Model VSR and its associated protective monitoring system shall be in accordance with applicable NFPA Codes and Standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

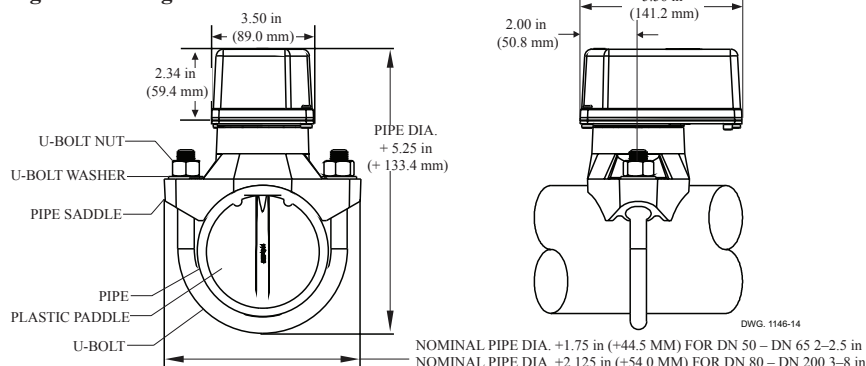
If provided, the inspector's test valve shall always be used for test purposes. If there are no provisions for testing the operation of the flow detection device on the system, application of the VSR is not recommended or advisable.

A minimum flow of 10 GPM (38 LPM) is required to activate this device.

NOTICE

Advise the person responsible for testing of the fire protection system that this system must be tested in accordance with the testing instructions.

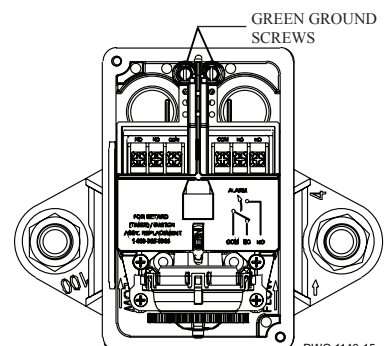
Fig. 6 Mounting Dimensions



DWG. 1146-14

NOMINAL PIPE DIA. +1.75 in (+44.5 mm) FOR DN 50 - DN 65 2-2.5 in
NOMINAL PIPE DIA. +2.125 in (+54.0 mm) FOR DN 80 - DN 200 3-8 in

Fig. 7



DWG. 1146-15

Maintenance

Inspect detectors monthly. If leaks are found, replace the detector. The VSR waterflow switch should provide years of trouble-free service. The retard and switch assembly are easily field replaceable. In the unlikely event that either component does not perform properly, please order replacement retard switch assembly stock #1029030 (see Fig. 8). There is no maintenance required, only periodic testing and inspection.

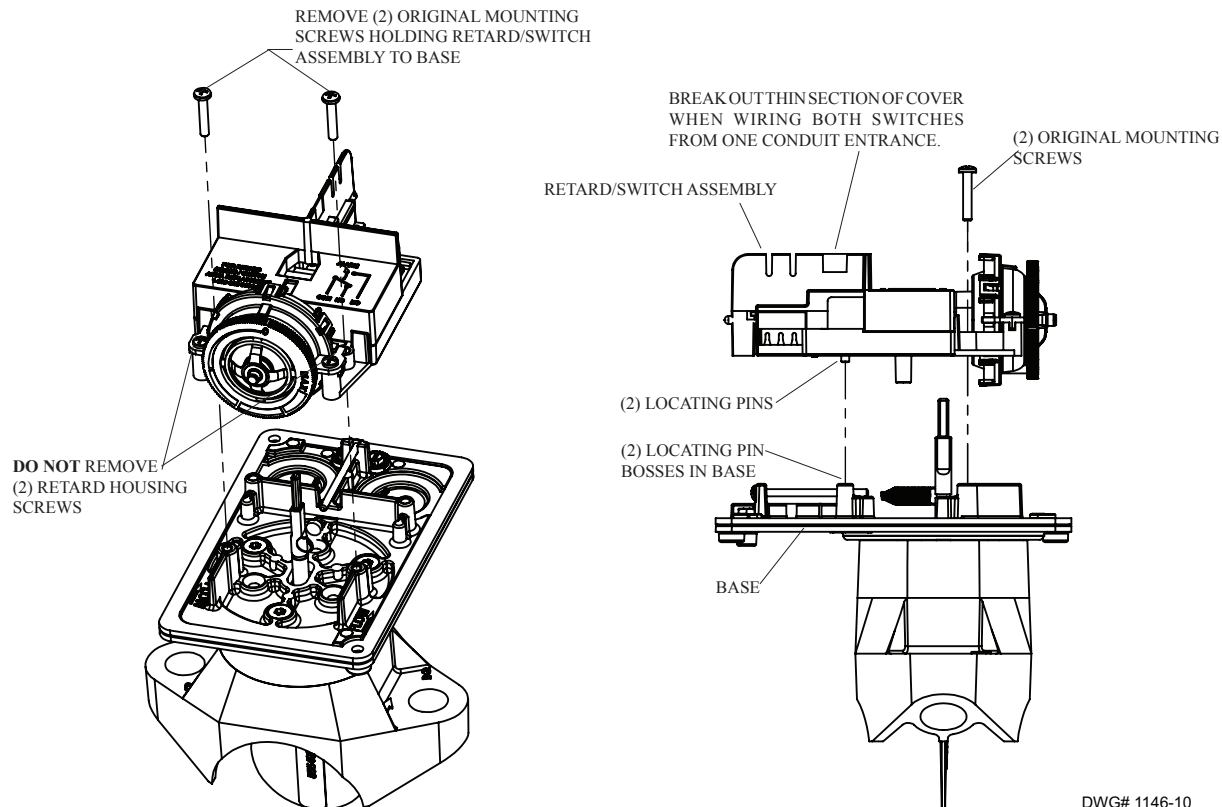
Retard/Switch Assembly Replacement (See Fig. 8)

NOTICE

The Retard/Switch Assembly is field-replaceable without draining the system or removing the waterflow switch from the pipe.

1. Make sure the fire alarm zone or circuit connected to the waterflow switch is bypassed or otherwise taken out of service.
2. Disconnect the power source for local bell (if applicable).
3. Identify and remove all wires from the waterflow switch.
4. Remove the (2) mounting screws holding retard/switch assembly to the base. **Do not** remove the (2) retard housing screws.
5. Remove the retard assembly by lifting it straight up over the tripstem.
6. Install the new retard assembly. Make sure the locating pins on the retard/switch assembly fit into the locating pin bosses on the base.
7. Re-install the (2) original mounting screws.
8. Reconnect all wires. Perform a flow test and place the system back in service.

Fig. 8



Removal of Waterflow Switch

- To prevent accidental water damage, all control valves should be shut tight and the system completely drained before waterflow detectors are removed or replaced.
- Turn off electrical power to the detector, then disconnect wiring.
- Loosen nuts and remove U-bolts.
- Gently lift the saddle far enough to get your fingers under it. With your fingers, roll the vane so it will fit through the hole while continuing to lift the waterflow detector saddle.
- Lift detector clear of pipe.

UL Listed, FM Approved

SWITCH CONTACTS: SPDT (Form C)

CONTACT RATING:

3 Amps at 250VAC

5 Amps at 125VAC

1 mA at 5 VDC min

TERMINATIONS: 8" (20 cm) N.O. 22 AWG wire leads

STOCK NO: 0090148

The VSRCTSK Cover Tamper Switch Kit provides a SPDT (single pole, double throw) contact that is used to detect the removal of the cover from the VSR Series Vane Type Waterflow Switch, and can be field installed.

CAUTION

Carefully read and follow the instructions provided. Failure to read and follow the instructions provided could result in improper operation.

WARNING

- Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.
- Shock hazard. Disconnect power source before servicing. Serious injury or death could result.
- Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

INSTALLATION:

1. The VSRCTSK must be installed on the switch housing cover on the same side of the conduit entrance being used.
2. Insert the leads from the switch into the strain relief slot located in the switch housing as shown in Fig. 1.
3. Mount the tamper switch in the notches provided in the switch housing cover using the screws, washers, and nuts provided, as shown in Figure 2. For proper operation the mounting screws must be bottomed in the notches on the cover.
4. Pull up on the wires to lock them in the strain relief notches in the switch housing.

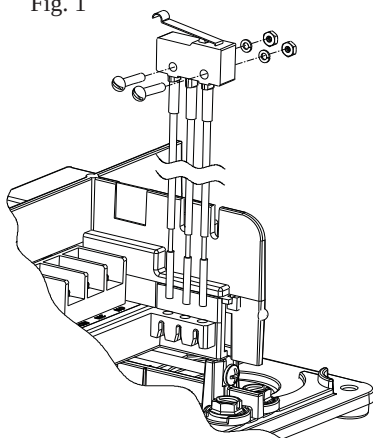
WIRING INFORMATION, CIRCUIT CONDITION WITH COVER AFFIXED:

N.O. - For normally open circuit with cover attached use Common (white) and Normally Open (black) Leads.

N.C. - For normally closed circuit with cover attached use Common (white) and Normally Closed (red) Leads.

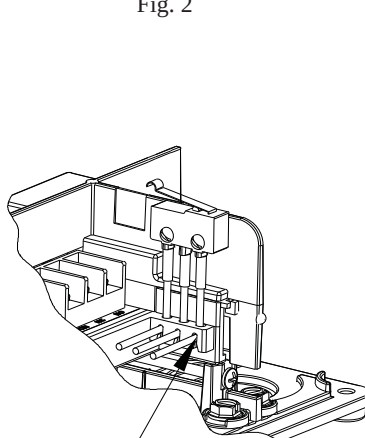
Adjustment - Some adjustment may be necessary to correctly position the blade of the switch. This can be accomplished by carefully bending the blade of the switch upward toward the cover to ensure engagement. Be careful to bend the switch-blade at the center to avoid damage to the switch.

Fig. 1



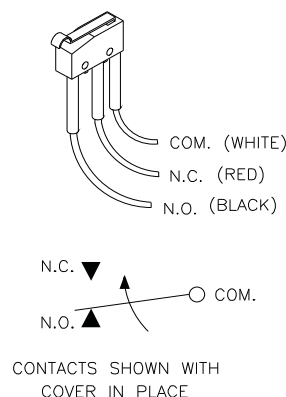
DWG. #1103-1

Fig. 2



BEND WIRE 90° TO
LOCK IN PLACE

Fig. 3



Vane type waterflow switches should be tested using the inspectors test valve to indicate water flow equivalent to that of a single sprinkler.

In some instances the waterflow switch will “cycle” on and off during this test. This is usually an indication of excessive air trapped in the sprinkler system.

This phenomenon has increased with the use of backflow preventors and inspector test valves in close proximity to the flowswitch instead of at the hydraulically remote locations.

Without a valve at the far end of the sprinkler system being open when the system is being filled, the air in the piping cannot vent as the water enters. All of this air compresses and can result in sprinkler pipes being partially filled with water.

In addition to excessive amounts of oxygen leading to increased corrosion, it can also cause the waterflow switch to cycle on and off, delayed operation of the flowswitch or false alarms. When the inspectors test valve is opened, the trapped compressed air expands pushing system water out of the test valve. When the system pressure drops enough, the backflow or check valve opens allowing fresh supply water to enter the system. The supply water flows past the waterflow switch, moves the paddle and starts the retard action. The incoming supply water also compresses the air in the system causing pressure to build up. When the system pressure equals the supply pressure the backflow will close and the flowswitch resets. Then the entire cycling process starts all over. While there may be as a steady stream of water flowing out of the test valve, there is not a steady stream of water flowing past the flowswitch.

The delayed flowswitch operation occurs because the cycling keeps going until eventually it takes long enough for the backflow to close that the flowswitch finally goes into alarm or in the event of a real fire, another sprinkler opens and now it flows enough water that the backflow stays open.

False alarms can occur because when you open the ITV you bleed off any pressure that may have built up in the system. Now when the city turns on their pumps late at night to build up pressure for the morning water demand of the city, this water flows into the system and trips the flowswitch because the pipes are only partially full and the system pressure is lower than the supply pressure because the system pressure was vented through the ITV the day before.

Potter makes an automatic air vent, model [PAAR-B](#) or [PAV](#), that can be used to automatically vent air from the system or remote valves can be installed for venting the system as it is being filled

Regards,



Mike Henke CET
Product Manager
Sprinkler Products Division

February 28, 2017

NFPA 13, 2016, 23.4.4.8.1 (I) requires that the friction loss across [vane-type water flow switches](#) 2 inches and smaller be included in the fire sprinkler hydraulic calculations. As each community, County, State or local AHJ adopts this standard, Potter can expect to receive telephone calls related to this topic. Potter Flow Switches products are manufactured and tested to [UL Standard 346](#).

[UL Standard 346](#) allows a maximum pressure drop of 3 psig (20.7 kPa) for flowswitches up to and including 4" and 1 psi in flowswitches 5" and larger. Potter's flow switches meet or improve upon that requirement.

The actual friction loss may be substantially less than the UL requirement. Field testing may be used to verify this. However, in the absence of field testing, using the 3 psig (20.7 kPa) figure is a conservative approach.

This response is consistent with the requirements of [NFPA 13](#), 24.4.4.7 "Table 24.4.2.7 shall be used to determine the equivalent length of pipe for fittings and devices unless manufacturer's test data indicate that other factors are appropriate."

This memorandum is not confidential and may be distributed as needed.

Regards,



Mike Henke CET
Product Manager
Sprinkler Products Division

Vane-Type Waterflow Switch

UL, CUL Listed / FM, LPCB, VdS Approved and CE Marked vane type waterflow switches shall be furnished and installed at each sprinkler system connection to the wet pipe main where indicated on the drawings and plans and as required by applicable local and national codes and standards.

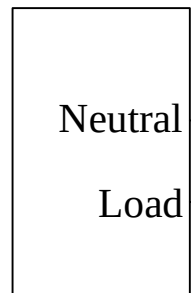
The device shall consist of a saddle with factory installed non-corrosive insert, gasket and non-corrosive vane and trip stem assembly as well as a field replaceable adjustable time delay / switch mechanism to prevent false alarms from water surges. All wetted parts of the waterflow switch shall be non-metallic to resist being affected by or contributing to corrosion. The waterflow switch enclosures shall be NEMA 4 rated and the cover shall be held captive by tamper resistant screws. It shall be possible to install an optional cover tamper switch to detect removal of the enclosure.

The field replaceable instantly recycling adjustable pneumatic retard shall provide a 0-90 second time delay and visual indication of activation. Expiration of the retard time shall result in the simultaneous operation of two sets of single pole double throw (SPDT) switch contacts rated at 10A, 125VAC and 2A, 30VDC. Each switch contact shall have a separate wiring chamber and separate conduit entrance to comply with the NEC requirements for separation of power limited and non power limited conductors without the need for special wire or wire methods.

The device shall be listed for pressures up to 450 psi, maximum water surges of 18 fps and alarm activation by a continuous flow of 10gpm. The device shall be Listed for installation on pipe schedules from 5-40 for 2" – 6" and schedule 10-40 for 8" through 10" size.

The waterflow switch shall be a model VSR manufactured by Potter Electric Signal Company LLC.

110VAC
Power



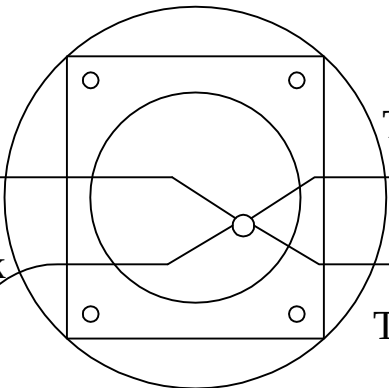
White (Neutral)

Black(Hot)

White

Black

110VAC
Alarm Bell



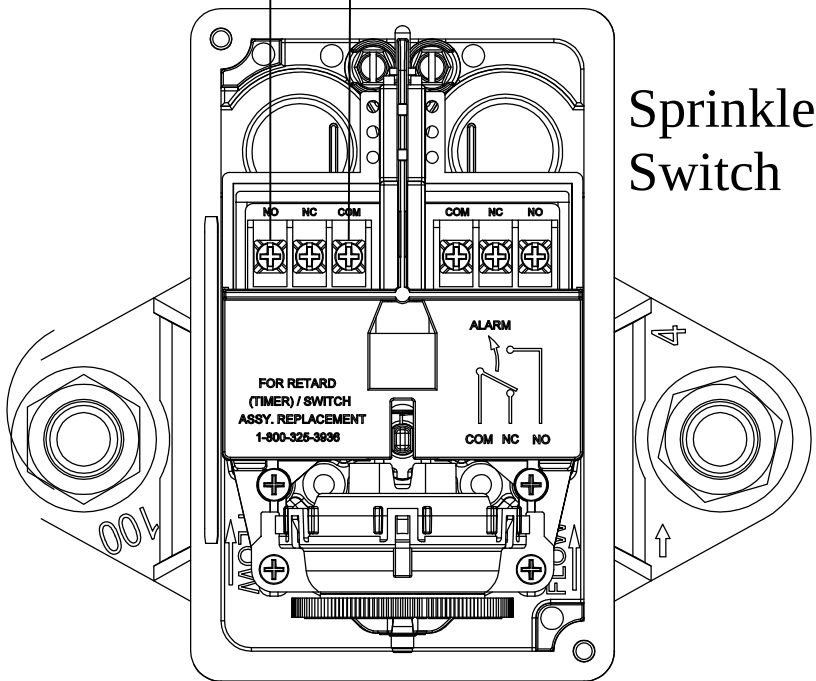
To Next Bell Or Cap Off The White Wire

White
Black

Wire Nuts

To Next Bell Or Cap Off The Black Wire

Sprinkler Flow
Switch



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)

USQT7.S309 - Extinguishing System Attachments Certified for Canada

Extinguishing System Attachments Certified for Canada

POTTER ELECTRIC SIGNAL CO L L C
1609 PARK 370 PL
HAZELWOOD, MO 63042-4417 United States

S309

Supervisory signal initiating devices, valve supervisory switches, Models PTS-B, PTS-C plug type switches-special applications. Models BVS-1", -3/4", -1/2" Supervised trim valves..

Model RBVS Retro-fit Ball Valve Supervisory Switch.

Supervisory Water Temperature devices, Models TTS-W, TTS-W for steel or wood tanks, indoor or outdoor use.

Supervisory Air Temperature devices, Models RTS-C, RTS-O, for indoor use.

Water supply valve position signals, Models PCVS-1 and PCVS-2, Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC 15 A; Models OSYSU-1 and OSYSU-2, Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC; Model PTS-B, Contact rating: 28 V ac-dc, 0.25 A; Model PMS, Contact rating: 24 V ac-dc, 0.15 A; 120 V dc, 0.1 A.

Wet-pipe sprinkler system attachments, Waterflow indicators (vane type), Models VS-SP, VS-SPB, VSR-F, Contact rating: 125/250 V ac, 15 A; 125 V dc, 0.5 A; 250 V dc, 0.25 A; Model VSR-SF, Contact rating: 125/250 V ac, 10 A, 0-30 V dc, 2 A.

SPRINKLER SYSTEM ALARM INITIATING DEVICES
DRY-PIPE & WET-PIPE, PRESSURE TYPE

Model	Oper Pressure psig	Max System Pressure psig
PS-10	0-20	300
PS-10A	4-8	300
PS10-1	4-15	300
PS10-1A	4-20	250
PS10-2	4-15	300
PS10-2A	4-20	250
PS10-1 w/Brass Bushing	4-15	300
PS10-2 w/Brass Bushing	4-15	300
PS-100	20-225	300
PS-100A	20-175	300
PS100-2	25-175	300
PS100-2A	20-225	300

WFS-B	10	250
WFSPDB	100	250
WFSR-F	4-8	175
QRS	10-65	175

**SUPERVISORY SIGNAL INITIATING DEVICES
PRESSURE DEVICES**

Model	Oper Pressure psig	Max System Pressure psig
PS-40	20-225	300
PS15-2	5-30	300
PS-40A	20-175	300
PS40-1	10-60	300
PS40-1A	20-175	300
PS40-2A	20-175	300
PS25-2	10-60	300
PS40-2	10-60	300
PS40-1 w/Brass Bushing	10-60	300
PS40-2 w/Brass Bushing	10-60	300
HLS-B	40	250
PS-120	20-225	300
PS-120A	20-175	300
PS120-1	25-175	300
PS120-1A	20-175	300
PS120-2	25-175	300
PS120-2A	20-175	300
PS120-1 w/Brass Bushing	35-225	300
PS120-2 w/Brass Bushing	35-225	300
EPS10EXP	4-20	250
EPS40EXP	10-100	250
EPS120EXP	10-200	250
EPS10-1	4-20	300
EPS10-2	4-20	300

EPS120-1	10-200	300
EPS120-2	10-200	300

Sprinkler System Alarm initiating Devices Wet pipe, Paddle Type

Model	Size In.	Pipe Schedule	Max System Pressure psig
VSR-SFG, VSR-SFT, VSR-ST, VSR-SG	1, 1-1/4, 1-1/2, 2	Listed Plastic	250
VSR-F, VSR-FE, VSR-FE-2, VS-F	2, 2-1/2, 3,	10-40	450
	3-1/2, 4, 5,	Steel	
VSR-S, VSR-S (EU)	1, 1-1/4, 1-1/2, 2	10-40 Steel	300
		Listed Plastic	
		K, L, M Copper	
VSR-SF, VS-SP, VS-SPB	1, 1-1/4, 1-1/2, 2	10-40 Steel	250
		Listed Plastic	
		K, L, M Copper	
VSR-CF, VSR-C	2, 2-1/2, 3,	Listed Plastic	175
	2, 2-1/2, 3, 4	K, L, M Copper	
VSR, VSR-CR	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8, 10		
VSR-AT	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8		
VSR-EU	2, 2-1/2, 3, 4, 5, 6, 8	10-40 Steel	450
VSG	2, 2-1/2, 3, 4	Water Mist	450
WFD20EXP	2	10-40 Steel	450
WFD25EXP	2.5	10-40 Steel	450
WFD30-2EXP	3	10-40 Steel	450
WFD35EXP	3.5	10-40 Steel	450
WFD40EXP	4	10-40 Steel	450
WFD50EXP	5	10-40 Steel	450
WFD60EXP	6	10-40 Steel	450
WFD80EXP	8	10-40 Steel	450

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type), suitable for indoor and outdoor installation shipped without "U" bolts and nuts to Victaulic customer. Models may be single or bulk-packaged. The packing cartons will also include the assigned Victaulic Part Code on the exterior.

Model WFD20VN with Victaulic Part Code CXS020747020.

Model WFD25VN with Victaulic Part Code CXS024747022.

Model WFD30VN with Victaulic Part Code CSX030747N23.

Model WFD40VN with Victaulic Part Code CXS040747025.

Model WFD60VN with Victaulic Part Code CXS060747027.

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type):

Model	Size In.	Pipe Schedule	Max Working Pressure psig
WFD20VN	2	Victaulic Risers	450
WFD25VN	2-1/2	Victaulic Risers	450
WFD30VN	3	Victaulic Risers	450
WFD40VN	4	Victaulic Risers	450
WFD60VN	6	Victaulic Risers	450
WFD20N, WFD20NA	2	7, 10, 40	450
WFD25N, WFD25NA	2-1/2	7, 10, 40	450
WFD30N, WFD30NA	3	7, 10, 40	450
WFD40N, WFD40NA	4	7, 10, 40	450
WFD50N, WFD50NA	5	10, 40	450
WFD60N, WFD60NA	6	10, 40	450
WFD80N, WFD80NA	8	10, 40	450
WFDTN, WFDTNA, WFDTVN, WFDNTRN, RFDTHN	Threaded Brass or steel: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 Tyco, Spears, Victaulic and NIBCO brand Chlorinated Polyvinyl Chloride: 1		375
WFDNFS, WFDNFSA	SPEARS brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 TYCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 IPEX brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2		175
WFDNFT, WFDNFTA	Steel/Brass Threaded: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1 "CPVC SPEARS w/Metal Band": 1, 1-1/2 "CPVC SPEARS w/Brass Insert": 1 TYCO brand Chlorinated Polyvinyl Chloride: 1		175

The WFD Series waterflow indicators employ an enclosure that was evaluated for Type NEMA 4/IP 54 rating.

Model VS-SP, VS-SPB for outdoor use with Kit No. 1940037. Models VS-F, VSR-F, VSR-CF, VSR-C, VSR-FE, VSR-FE-2 for outdoor use with Kit No. 1940036.

Accessory, Cover Tamper Switch Kit, Model PSCTSK for use with the PS Series Pressure Switches.

Trademark and/or Tradename:  **Safe Signal™**

Last Updated on 2021-07-01

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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Ordering Information

Model	Description	Stock No.
PS10-1	Pressure switch with one set SPDT contacts	1340103
PS10-2	Pressure switch with two sets SPDT contacts	1340104
	Hex Key	5250062
	Cover Tamper Switch Kit	0090200

Tamper

Cover incorporates tamper resistant fastener that requires a special key for removal. One key is supplied with each device. For optional cover tamper switch kit, order Stock No. 0090200. See bulletin #5401200 PSCTSK.

Installation

The Potter PS10 Series Pressure Actuated Switches are designed for the detection of a waterflow condition in automatic fire sprinkler systems of particular designs such as wet pipe systems with alarm check valves, dry pipe, preaction, or deluge valves. The PS10 is also suitable to provide a low pressure supervisory signal; adjustable between 4 and 15 psi (0,27 and 1,03 BAR).

1. Apply Teflon tape to the threaded male connection on the device.
(Do not use pipe dope)
2. Device should be mounted in the upright position (threaded connection down).
3. Tighten the device using a wrench on the flats on the device.

Wiring Instructions

1. Remove the tamper resistant screw with the special key provided.
2. Carefully place a screwdriver on the edge of the knockout and sharply apply a force sufficient to dislodge the knockout plug. See Fig 9
3. Run wires through an approved conduit connector and affix the connector to the device.
4. Connect the wires to the appropriate terminal connections for the service intended. See Figures 2,4,5, and 6. See Fig 7 for two switch, one conduit wiring.

Testing

The operation of the pressure alarm switch should be tested upon completion of installation and periodically thereafter in accordance with the applicable NFPA codes and standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

Wet System

Method 1: When using PS10 and control unit with retard - connect PS10

UL, cUL, and CSFM Listed, FM and LPC Approved, NYMEA Accepted, CE Marked

Dimensions: 3.78" (9,6cm)W x 3.20" (8,1cm)D x 4.22" (10,7cm)H

Conduit Entrance: Two knockouts provided for 1/2" conduit. Individual switch compartments and ground screws suitable for dissimilar voltages.

Enclosure: Cover - Die-cast with textured red powdercoat finish, single cover screw and rain lip.

Base - Die-cast

Pressure Connection: Nylon 1/2" NPT Male

Factory Adjustment: 4 - 8 PSI (0,27 - 0,55 BAR)

Differential: 2 PSI (0,13 BAR) typical

Maximum System Pressure: 300 PSI (20,68 BAR)

Switch Contacts: SPDT (Form C)

10.1 Amps at 125/250VAC, 2.0 Amps at 30VDC

One SPDT in PS10-1, Two SPDT in PS10-2

Environmental Specifications:

NEMA 4/IP66 Rated Enclosure - indoor or outdoor when used with NEMA 4 conduit fittings.

Temperature range: -40°F to 140°F (-40°C to 60°C)

Service Use:

Automatic Sprinkler	NFPA-13
One or two family dwelling	NFPA-13D
Residential Occupancy up to four stories	NFPA-13R
National Fire Alarm Code	NFPA-72

into alarm port piping on the input side of retard chamber and electrically connect PS10 to control unit that provides a retard to compensate for surges. Insure that no unsupervised shut-off valves are present between the alarm check valve and PS10.

Method 2: When using the PS10 for local bell application or with a control that does not provide a retard feature - the PS10 must be installed on the alarm outlet side of the retard chamber of the sprinkler system.

Testing: Accomplished by opening the inspector's end-of-line test valve. Allow time to compensate for system or control retard.

Note: Method 2 is not applicable for remote station service use, if there is an unsupervised shut-off valve between the alarm check valve and the PS10.

Wet System With Excess Pressure

Connect PS10 into alarm port piping extending from alarm check valve. Retard provisions are not required. Insure that no unsupervised shut-off valves are present between the alarm check valve and the PS10.

Testing: Accomplished by opening the water by-pass test valve or the inspector's end-of-line test valve. When using end-of-line test, allow time for excess pressure to bleed off.

Dry System

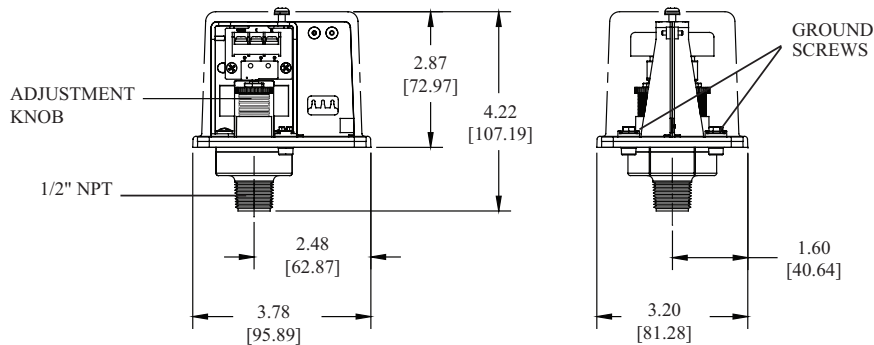
Connect PS10 into alarm port piping that extends from the intermediate chamber of the alarm check valve. Install on the outlet side of the in-line check valve of the alarm port piping. Insure that no unsupervised shut-off valves are present between the alarm check valve and the PS10.

Testing: Accomplished by opening the water by-pass test valve.

Note: The above tests may also activate any other circuit closer or water motor gongs that are present on the system.

Dimensions

Fig. 1

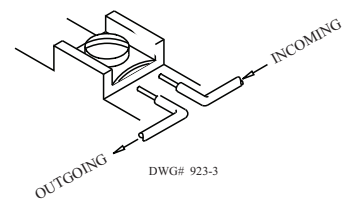


NOTE: To prevent leakage, apply Teflon tape sealant to male threads only.

DWG# 930-1

Switch Clamping Plate Terminal

Fig. 2



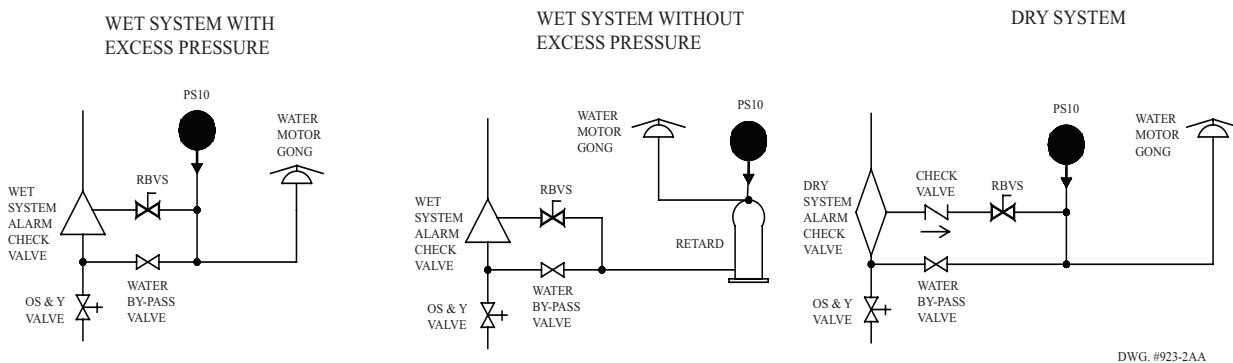
DWG# 923-3

WARNING

An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire becomes dislodged from under the terminal.

Typical Sprinkler Applications

Fig. 3



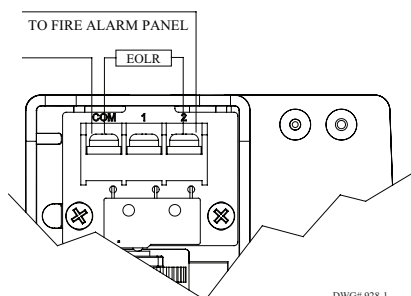
DWG. #923-2AA

CAUTION

Closing of any shutoff valves between the alarm check valve and the PS10 will render the PS10 inoperative. To comply with NFPA-72 any such valve shall be electrically supervised with a supervisory switch such as Potter Model RBVS.

Low Pressure Signal Connection

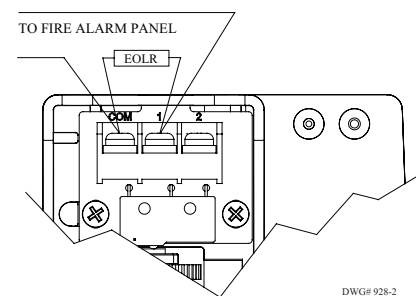
Fig. 4



DWG# 928-1

Waterflow Signal Connection

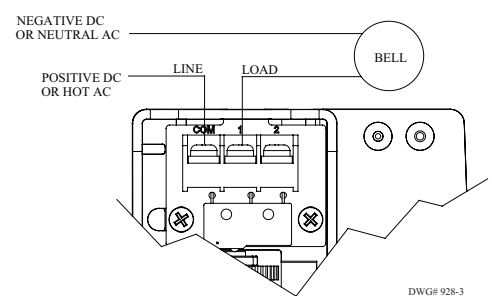
Fig. 5



DWG# 928-2

Local Bell For Waterflow Connection

Fig. 6

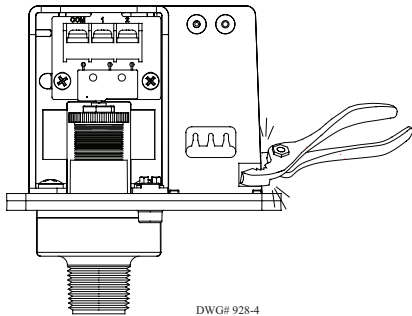


DWG# 928-3

One Conduit Wiring

Fig. 7

Break out thin section of divider to provide path for wires when wiring both switches from one conduit entrance.



Switch Operation

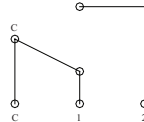
Fig. 8

Terminal

C: Common

- 1: Closed when installed under normal system pressure.
- 2: Open when installed under normal system pressure. Closes on pressure drop. Use for low pressure supervision.

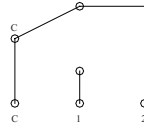
W/ PRESSURE APPLIED



Terminal

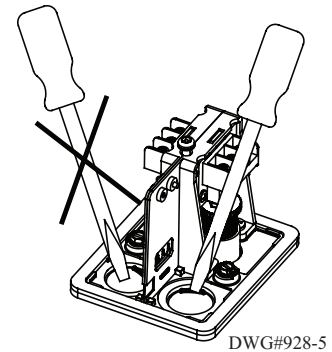
- 1: Open with no pressure supplied. Closes upon detection of pressure. Use for waterflow indication.
- 2: Closed with no pressure applied.

W/O PRESSURE APPLIED



Removing Knockouts

Fig. 9



WARNING

- Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.
- Shock hazard. Disconnect power source before servicing. Serious injury or death could result.
- Read all instructions carefully and understand them before starting installation. Save instructions for future use. Failure to read and understand instructions could result in improper operation of device resulting in serious injury or death.
- Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

CAUTION

- Do not tighten by grasping the switch enclosure. Use wrenching flats on the bushing only. Failure to install properly could damage the switch and cause improper operation resulting in damage to equipment and property.
- To seal threads, apply Teflon tape to male threads only. Using joint compounds or cement can obstruct the pressure port inlet and result in improper device operation and damage to equipment.
- Do not over tighten the device, standard piping practices apply.

Engineer/Architect Specifications Pressure Type Waterflow Switch

Pressure type waterflow switches; shall be a Model PS10 as manufactured by Potter Electric Signal Company, St Louis MO., and shall be installed on the fire sprinkler system as shown and or specified herein.

Switches shall be provided with a 1/2" NPT male pressure connection and shall be connected to the alarm port outlet of; Wet Pipe Alarm Valves, Dry Pipe Valves, Pre-Action Valves, or Deluge Valves. The pressure switch shall be actuated when the alarm line pressure reaches 4 - 8 PSI (0,27 - 0,55 BAR).

Pressure type waterflow switches shall have a maximum service pressure rating of 300 PSI (20,68 BAR) and shall be factory adjusted to operate on a pressure increase of 4 - 8 PSI (0,27 - 0,55 BAR)

Pressure switch shall have one or two form C contacts, switch contact rating 10.1 Amps at 125/250 VAC, 2.0 Amps at 30 VDC.

Pressure type waterflow switches shall have two conduit entrances one for each individual switch compartment to facilitate the use of dissimilar voltages for each individual switch.

The cover of the pressure type waterflow switch shall be Zinc die-cast with rain lip and shall attach with one tamper resistant screw. The Pressure type waterflow switch shall be suitable for indoor or outdoor service with a NEMA 4/IP66 rating.

The pressure type waterflow switch shall be UL U1c and CSFM listed, FM and LPC approved and NYMEA accepted.

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Engineering Supplies
Importing & Exporting
Trading Agencies



كيرماري

للتوريدات الهندسية
إستيراد وتصدير
والتوكيلات التجارية

Consultants Approvals

١٥ شارع خالد بن الوليد شيراتون - القاهرة تليفون: ٠٣/٢٢٦٦٤٩٢-٢٢٦٧٥٣٣٩

موبايل: ٠١٢٢٧٩٠٥٢٤٨ - ٠١٢٢٧٣٨٩٥٢٨ - ٠١٢١١١٧٨٢٥٠ - ٠١٠١٩٥٤٢٩٤١

Contractor: Atrium Quality Contractors 	Owner: Arab Company for projects and Urban Development  	Project Manager: Dar Al-Handasah 	Supervision Consultant: EHAF Consulting Engineers 
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MATERIAL SUBMITTAL (MS)

Project Name: Craft & Commercial Zone Project No. : 1157 Employer : TMG Project Manager: DAR		Package : Commercial Zone Phase : B14 & B15 Supervision Consultant: EHAF Contractor: Atrium Quality Contractors	
From : Atrium Quality Contractors To : EHAF Attn. : Eng. ASMAA SHARAWY Subject: firefighting Tamper switch		Date: 14-11-2021 Submittal Ref.: 1157/MS/ATR/EHAF/MECH/21/008/R01	
Material/ Equipment for Approval: supplier approval Description: Tamper switch for gate valves			
Specification Reference:		Quantity: -	
Manufacturer's Details : Potter.		Bill of Quantities Reference:	
Manufacturer: : Potter.		Date of arrival on site:	
Model Number:	Serial number:	Bill of lading:	
Country of Origin: USA		Certificate of origin: -----	
Storage Location: On site		Signature:  Main Contractor Eng. Ahmed Salah Eldien	
Action Code Legend: (A) Approved (B) Approved as Noted (C) Revise and Resubmit (D) Rejected Notes : - Production, supply and /or implementation shall proceed only when action code is A / or B. - Regarding action code C, resubmittal shall be within the limit set in the contract. - Review dose not relieve the contractor from responsibility of compliance with all requirments of contract documents. - If rejected please see comments.			
Consultant Comments:			
Inspection Report:	Yes/No	Initials Inspector	Engineer
1- Physical damage?			
2- Details given above correct?			
3- Conforms with approved submission?			
4- Accessories / Spare parts included?			
Remarks : <i>Ref to attached Comments sheet.</i>			
Consultant Manager Remarks:			
Actions required from Contractor :			
Attachments:			
☒ Hard Copy ☐ Soft Copy ☐ Sample ☐ Mockup			
			Supervision Consultant Authorized representative
Employer's Representative Comments (if quired):			
			Employer Representative Authorized representative



Contractor: Atrium
Quality Contractors



Owner: Arab Company for projects and
Urban Development



Project Manager:
Dar Al-Handasah



Supervision Consultant:
EHAF Consulting Engineers



MATERIAL SUBMITTAL (MS)

Project Name: Craft & Commercial Zone	Package : Commercial Zone
Project No. : 1157	Phase : B14 & B15
Employer : TMG	Supervision Consultant: EHAF
Project Manager: DAR	Contractor: Atrium Quality Contractors
From : Atrium Quality Contractors	Date: 14-11-2021
To : EHAF	Submittal Ref.: 1157/MS/ATR/EHAF/MECH/21/010/R01
Attn. : Eng. ASMAA SHARAWY	
Subject: Water flow switch	

Material/ Equipment for Approval: supplier approval
Description: firefighting Water flow switch potter type

Specification Reference: Quantity: - Bill of Quantities Reference:

Manufacturer's Details : Potter.

Manufacturer: : Potter.

Model Number: Serial number: Date of arrival on site:

Country of Origin: USA Certificate of origin: ----- Bill of lading: -----

Storage Location: On site

for
Main Contractor
Eng. Ahmed Salah Eldien

Action Code Legend:

(A) Approved (B) Approved as Noted (C) Revise and Resubmit (D) Rejected

Notes :

- Production, supply and /or implementation shall proceed only when action code is A / or B.
- Regarding action code C, resubmittal shall be within the limit set in the contract.
- Review dose not relieve the contractor from responsibility of compliance with all requirements of contract documents.
- If rejected please see comments.

Consultant Comments:

Inspection Report:	Yes/No	Initials Inspector	Engineer
1- Physical damage?	-----	-----	-----
2- Details given above correct?	-----	-----	-----
3- Conforms with approved submission?	-----	-----	-----
4- Accessories / spare parts included?	-----	-----	-----

Remarks : Refer to attached Comments sheet

Consultant Manager Remarks:

Actions required from Contractor :

Attachments:

☒ Hard Copy ☐ Soft Copy ☐ Sample ☐ Mockup

Supervision Consultant
Authorized representative

Employer's Representative Comments (if quired):

Employer Representative
Authorized representative

RECEIVED

15 NOV 2021



1157 - Madinaty Craft Zone

RECEIVED

15 NOV 2021
Madinaty Craft Zone
Commercial buildings - DC



LMD°

X-SABOOR

**LMS
CONSTRUCTION**

1-Ninety Project

**HILL
International****MATERIAL SUBMITTAL FORM – (MAR)**

Contract No.: PEG 1145

Package No.: CP01

TO: Eng. Tamer Abutahoun
Project Manager, Hill international

SUBMITTAL NO: PEG-1145-CP01-A01-AM-CN-LS-MAR-0191

FROM: Eng. Hesham El-Sammak
Projects Director, LMS construction

DATE: 23 Dec 2021

TITLE: Tamper Switch & Flow Switch
(POTTER) for Valve Assembly (ZCV)

REVISION NO: Rev.: 00

C/REF.:

MATERIAL SUBMISSION DESCRIPTION

Discipline:

☐ C-CIVIL ☐ S-STRUCTURAL ☐ A-ARCHITECTURAL ☐ E-ELECTRICAL ☒ M-MECHANICAL ☐ O-OTHER

Description of Material: Tamper Switch & Flow Switch (POTTER) for Valve Assembly (ZCV)

Manufacturer: POTTER -USA

Supplier / Local Agent: KIRMARY

Specification: Section No. Section 15330

BOQ Ref: Nil

Description of Attachments:

1. Material Submittal

Description of Samples: N/A

Specification Comparison Sheet: N/A

Comparison in case of Alternative Submittal: N/A

Date: 23 Dec. 2021

CONTRACTOR SIGNATURE:

LMS
CONSTRUCTION
Prepared By:

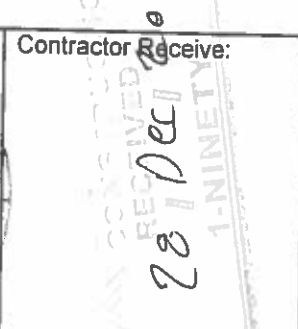
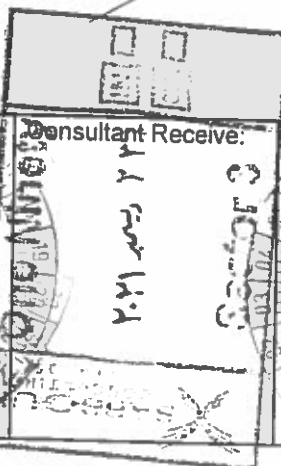
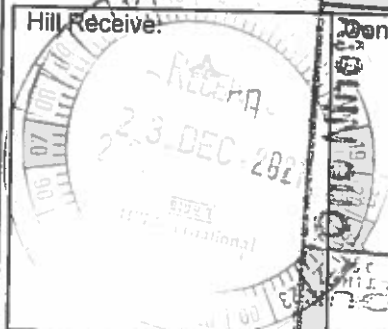
1-NINETY

Hill Receive:

Consultant Receive:

Returned From Consultant:

Contractor Receive:



LMD°

X-SABBOUR

**LMS
CONSTRUCTION***1-Ninety Project***HILL
International****MATERIAL SUBMITTAL FORM – (MAR)****Contract No.: PEG 1145****Package No.: CP01****EMPLOYER'S COMMENTS – (Optional)**

Name:

Signature:

Date:

PROJECT MANAGEMENT CONSULTANT'S REVIEW - (Hill International)

Name:

Tamer Toun

Signature:

Date:

27 / 12 / 21

SUPERVISION CONSULTANT'S COMMENTS☐ A-APPROVED☒ B-APPROVED AS NOTED, WORK MAY
PROCEED – INCORPORATE COMMENTS☐ C- REVISE / RESUBMIT☐ D- REJECTED

- Follow Review comments form.

For & On behalf of (Sabbour)

Reviewer26/12/2021
DATE
PROJECT MANAGER

DATE

SUBMITTAL NO.: PEG-1145-CP01-A01-AM-CN-LS-MAR-0191 REVISION NO: Rev.: 00

Project Name:- Al Hammam Agricultural Drainage Water treatment plant.

MOL OC AC HAC
JOINT VENTURE



19 DEC 2021



Contractor:-
MOL-OC-AC-HAC-JV

CONSULTANT:-
Katib&Alami (K&A)

Client:-
GOE (Water Departments)

Material Submittal

From	MOL-OC-AC-HAC-JV			To	Katib&Alami (K&A)	
Transmittal No	NDWTP-MT-CV-ME-KA-ON-0286	Rev	00	Date	18-Dec-21	
Subject	SPRINKLERS-HYDRANTS-GROOVED FITTINGS-VALVES- FIRE HYDRAINT- THREADED FITTINGS- FIRE HOSE CABINETS- SWITCHES-DRAINS- AIR VENT- HANGERS			Attachment	Data sheet , pre approval & cheek	
Manufacturer:	VIKING-LEDE-MECH-ZYFIRE-SYSTEM SENSOR-POTTER-ZURN-VALMATIC-ERICO	Supplier	KIRMARY	Area Of Application	ALL	
Discipline	☐ Civil / Str.	☐ Arch.	☐ Elect	☒ Mech	☐ Other	
Ser	Description				No of Copies	
1	PRE-QUAILIFACTION FOR KIRMARY & DATA SHEETS FOR PRODUCTS				2	

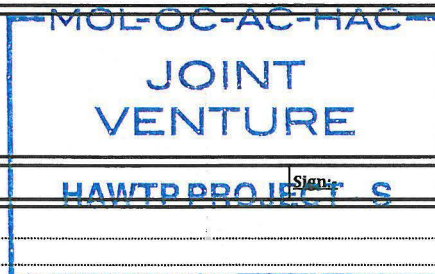
Contractor Commitment:-

the document attached has been reviewed regarding to contract and consider acceptable to be used in the project

Contractor

on shore civil manager
ENG. Nagy Azmy

(Signature of ENG. Nagy Azmy)



PROJECT DIRECTOR
ENG. Waleed Fahmy

(Signature of ENG. Waleed Fahmy)

Consultant Receiving

Name:-

Sign:-

Date:-

Consultant Remarks

** Refer to our Revised Sheet for Comments*

Assigned Consultant Engineer

Name:-

Sign:-

Date

A

☐

Approved

B

☒

Approved with comments, the work can proceed according to notes

C

☐

Re-submit after rectify comments

D

☐

Rejected

Consultant Approval

Name:-

Contractor Receiving

Name:-

New Del Date: VTP
In ElDaba: Date: *(Signature)*

Distribution before approval

Consultant

Client

20 DEC 2021

Distribution After approval

Client

Contractor

Consultant

Civil

Arch

Elect

HVAC

Mech

Planning

Q.S

Submittal For Approval Of Materials

Date: 17-Oct-20

Request no: MAT-CSCEC-00-ME-FF-0385-00

Project No. & Title: E18066-020A5 The Central Business District of the New Administrative Capital of Egypt

Employer: 	Engineer:  dar	Contractor:  中国建筑股份有限公司 CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.
--	---	--

1. Material description (one item only on this form) :

Fire Fighting Valves (Zone Control Valve UL&FM)

Area of application : General for all CBD Tower (according to the attached material list)

Drawing ref. :

B.O.Q. ref. no.: 211313&211200

Specification Ref. : SECTION-211313&211200

Standards:

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : LEDE

Address : 5A Khaled Ibn Alwalid st.-Shelaton, Heliopolis, Cairo, Egypt

Local agent : KIRMARY

3. Delivery :

Country of origin : China

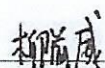
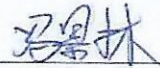
Availability
☐ Locally Manufactured ☒ Overseas

Delivery :
Ex-works/ total duration [] []
Estimated time of arrival on site [] []

Program :
Date material required on site [1month]
Latest date for order [] []

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : Liu Qianwei Zhu Yefei

Signature:  

4. Engineer's Representative comments:

Refer to comments on the attached (A4) sheet

H. Ghonaimy

28-10-2020

Signature: Ahmed Elbanna Date: 28-10-2020

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☐ Sample required
- ☐ Tests required
- ☐ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

Submittal for approval of materials

Shair and Partners
24 OCT 2018
RECEIVED
Pg. No. E16104-0400S 2/02

Date: 24-Oct-18

Request no: GRB-MAT-MFF-123-Rev 00

Project no. & title:

E16104-0400S/T-08/Ministerial Buildings on Plots 19B & 20B

Employer: 	Engineer: dar	Contractor: 
--	-------------------------	--

1. Material description (one item only on this form) :

Lede Valves (Zone Control UL&FM)

Attachment :-

- Hard Copy
- CD
- No Sample

Area of application : All Building

Drawing ref. : N/A

B.O.Q. ref. no.: N/A

Specification Ref. : 15111

Standards: N/A

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : Kirmary

Address : 5A Khaled Ebn El Waleed st. Sheraton, Calro, Egypt

Local agent : -

3. Delivery :

Ex-Stock

Country of origin : Egypt

Availability

☒ Locally Manufactured

☐ Overseas

Delivery : Ex-works/ total duration

Estimated time of arrival on site

Program :

Date material required on site

Latest date for order

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : ENG./ Ahmed ElMessery

Signature:

4. Engineer's Representative comments:

Refer to The Comments on The attached sheet.

study okayed

28 10 018.

28/10/18

Signature:

A.Ra

Date: 28/10/18

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☒ Sample required
- ☐ Tests required
- ☒ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

Chad

29/10/18

التوقيع:



09 JAN. 2020

MATERIAL SUBMITTAL (MS)

Project Name: Arab Investment Bank Headquarter

Package : Main Package

Project No. : 1185

Phase : Construction

Employer : Arab Investment Bank

Supervision Consultant: EHA F Consulting Engineers

Project Manager : EHA F Consulting Engineers

Contractor : El Soadaa Group

From : El Soadaa Group

Date : 28/12/2019

To : EHA F Consulting Engineers

Submittal Ref.: 1185/SOD/EHF/MS/MEC/019/0035-00

Attn. : Eng. Mohamed Helmy

Previous Ref.: N/A

Subject: Firefighting Valves and Zone Control - (LEDE)

Material/ Equipment For Approval:

Description: Firefighting Valves and Zone Control - (LEDE)

Specification Reference :

Quantity :

Bill of Quantities Reference :

Manufacturer's Details:

Manufacturer : LEDE

Model Number :

Serial number :

Date of arrival on site :

Country of Origin: CHINA

Certificate of origin :

Bill of lading :

Storage Location:

Main Contractor :

Attachments: 2 Catalogues & Compliance Sheet & Previous Manufacture's Works & Test Certificates & UL FM & CD

Action Code Legend:

(A) Approved

(B) Approved as Noted

(C) Revise and Resubmit

(D) Rejected

Notes:

- Production, supply and /or implementation shall proceed only when action code is A / or B.
- Regarding action code C, resubmittal shall be within the limit set in the contract.
- Review does not relieve the contractor from responsibility of compliance with all requirements of contract documents.
- If rejected please see comments.

Consultant Comments:

Inspection Report:

- Physical damage?
- Details given above correct?
- Conforms with approved submission?
- Accessories / Spare parts included?

Yes/No

Initials Inspector

Engineer

Remarks :

Consultant Manager Remarks:

Actions required from Contractor:

Attachments:



Hard Copy



Soft Copy (CD)

Supervision Consultant

Employer's Representative Comments (if required):

Employer Representative

RECEIVED

28 DEC 2019

30

THE.07.01.REC.S

Transmittal Info

بيانات نموذج التقديمات

Specs. Division # / Section # : Fire Protection Section 15315 : المواصفات رقم-

Transmittal Reference : موضوع نموذج التقديمات :
باب/قسم

Zone Control Valve Alternative

Transmittal purpose

الهدف من التقديمات

☐ For information ☐ For review ☒ For Approval ☐ For use on site
للعلم للمراجعة للاعتماد للاستخدام بالموقع

Transmittal for submission of

بيان التقديمات

☐ Shop Drawings ☐ Samples / Mock-Ups ☒ Catalogues ☐ Reports
رسومات تشغيل عينات / عينات على الطبيعة كتالوجات تقارير
☐ Site / Works Photos ☐ Time Schedule ☐ Certificate of Origin ☐ Others
صور الموقع / الأعمال جدول زمني شهادة منشأ غير ذلك

No. of copies/items : 3 : عدد النسخ/الأصناف

Deviation from contract: : الاختلاف عن العقد

#	Description / البيان	Rev. No. رقم المراجعة	Sheet Size مقاس اللوحات	Qty. عدد / كمية	Action Code كود الاجراء
01	Zone Control Valve Alternative (LEDE)	01	A4	53	A / N
02					
03					
04					
05					
06					
07					
08					
09					
10					

☒ A Approved ☒ N Approved with notes ☐ R To resubmit ☐ D Rejected
يعتمد يعتمد بملاحظات يعاد تقديمه مرفوض

Contractor Engineer name/اسم مهندس المقاول: Hazem Abdallah Date/التاريخ: 02 / 07 / 17 Signature/توقيع: H. Abdallah

I hereby confirm receipt of the aforementioned documents/items original. استلمت أصل المستندات الموجودة أعلاه

Consultant Engineer name : محمد عيسى date: 3 / 7 / 2017, hour : AM/PM Signature: H. Abdallah
اسم المهندس الاستشاري التاريخ الساعة التوقيع

Approval Notes : ملاحظات الاعتماد :

Reviewed by/قام بالمراجعة : / / 17 Signature/التوقيع :

Transmittal returned to contractor at: / / 2017 THE Signature Cont. Signature:
أعيد أصل النموذج للمقاول بتاريخ توقيع الاستشاري توقيع المقاول

Record Control

مراقبة السجل

Office copy			Project File			Engineer			Site Manager			Projects Manager		
التاريخ	بالتاكس	باليد	التاريخ	بالتاكس	باليد	التاريخ	بالتاكس	باليد	التاريخ	بالتاكس	باليد	التاريخ	بالتاكس	باليد
Date	By Fax	Msgr.	Date	By Fax	Msgr.	Date	By Fax	Msgr.	Date	By Fax	Msgr.	Date	By Fax	Msgr.
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SHAKER



TRANSMITTAL نموذج تقديمات
مستشفى شفاء الأورمان - المرحلة الثانية

Issues description	ملاحظات الاعتماد	#
— OSLV — Check valve * Valves should be 1.75 Psi class * Certificate for girth should be submitted.	CODE N	
— flow switch — Temp switch — Pressure gauge — Test & drain	CODE A APPROVED M. Mohamed 3/7/2017	



SHAKER



ZONE CONTROL VALVE

(FIRE FIGHTING Applications)

Material Submittal - Alternative

(Rev.00)

TABLE OF CONTENT:

- 1- Application Schedule
- 2- BOQ
- 3- OS & Y
- 4- CHECK VALVE
- 5- FLOW SWITCH
- 6- TAMPER SWITCH
- 7- TEST & DRAIN
- 8- PRESSURE GAUGE
- 9- Company Profile & Reference Project



} → CODE (N)

} CODE (A)

M. Molanabadi
3/7/2017



مشروع جراج روكسي (عدد رقم) (لأعلى الكهروميكانيكية)

ملاحظات
تم الموانع على المراكات المقدمة بالمشروع والى ان يتم توريد
نفس الماكينات المقدمة بالمشروع بالو ازال المقتمة .

أ = معتمد ☐ ج = معتمد مع ملاحظات ويعد التقديم مرة أخرى ☐
ب = معتمد مع ملاحظات. يمكن العمل أن يمتد بناء على ملاحظات ☒ د = العقب مرفوض ويعد التقديم مرة أخرى ☐

أشرك الاستشاري مجموعة فروع المصريين للاستشارات الكهروميكانيكية	التاريخ / / 2016
استلام المقتول شركة المقاولون العرب	التاريخ / / 2016

التوزيع قبل الاعتماد : التوزيع بعد الاعتماد

No.	الملك	الاستشاري	الملك	المقتول ACCB	مفتي	معماري	كهربية	تكليف	ميكانيكا	تخطيط	Q.S

RECEIVED
5.2.2017
APPROVED
RECEIVED
RECEIVED
Signature