

13-ULV50-R

co

2 x 2 - 8 VI

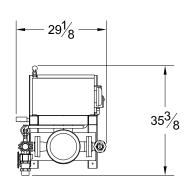
50GPM UL Fire Pump System

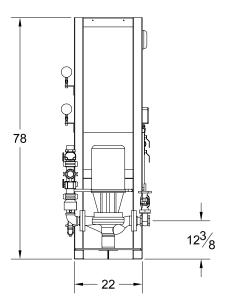
NFPA-20 Submittal Packet

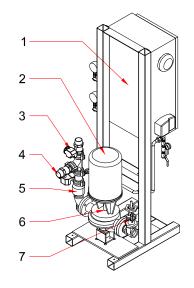


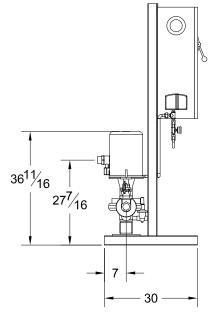
RESIDENTIAL & COMMERCIAL FIRE PUMP SPECIALISTS
6040 NE 112TH AVE. PORTLAND, OR 97220
800-878-8055 WWW.TALCOFIRE.COM

NFPA13R Packaged Fire Pump System UL Fire Pump









13-ULV50-R

Compact Residential Package Design Condition: 50GPM @ 60PSI

System Specifications:

Motor

- -7.5 Horsepower Electric
- -230 Volt, 34.6 Amp
- -Single Phase
- -3450 RPM

Pump

- -UL Vertical Inline Fire Pump
- -2" Suction (FNPT)
- -2" Discharge (Grooved)
- -175 PSI max working pressure

System Components (UL Listed by Manufacturer)

- -1- Limited Service Fire Pump Controller
- -2- Electric Motor
- -3- Discharge Monitored Ball Valve
- -4- Test Connection Monitored Ball Valve
- -5- Check Valve
- -6- Vertical Inline Fire Pump
- -7- Suction OS&Y

(All Dimensions Are Approximate)

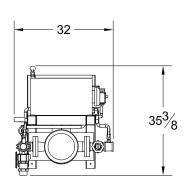
- -36" Depth
- -78" Height
- -32" Width

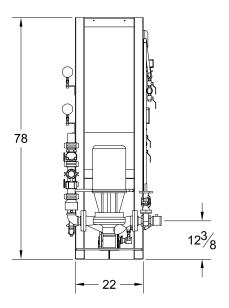
TALCO FIRE SYSTEMS

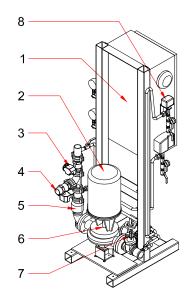


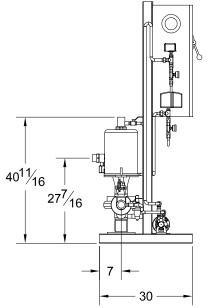
RESIDENTIAL & COMMERCIAL FIRE PUMP SPECIALISTS
6040 NE 112TH AVE. PORTLAND, OR 97220
800-878-8055 WWW.TALCOFIRE.COM

NFPA13R Packaged Fire Pump System UL Fire Pump with Jockey Pump









13-ULV50-R

Compact Residential Package Design Condition: 50GPM @ 60PSI

System Specifications:

Motor

- -7.5 Horsepower Electric
- -230 Volt, 34.6 Amp
- -Single Phase
- -3450 RPM

Pump

- -UL Vertical Inline Fire Pump
- -2" Suction (FNPT)
- -2" Discharge (Grooved)
- -175 PSI max working pressure

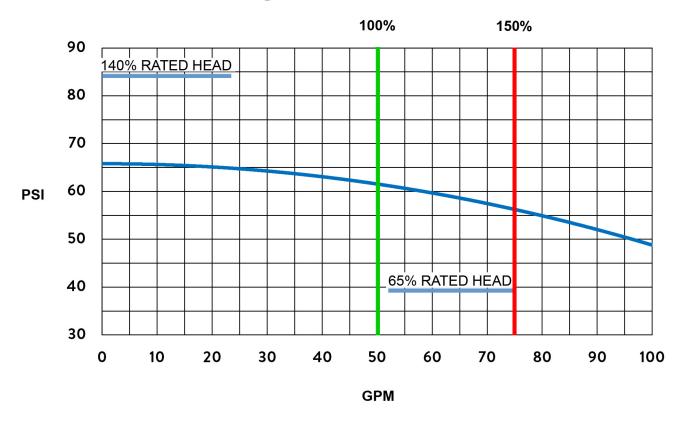
System Components (UL Listed by Manufacturer)

- -1- Limited Service Fire Pump Controller
- -2- Electric Motor
- -3- Discharge Monitored Ball Valve
- -4- Test Connection Monitored Ball Valve
- -5- Check Valve
- -6- Vertical Inline Fire Pump
- -7- Suction OS&Y
- -8- Pressure Switch (Jockey Control)

(All Dimensions Are Approximate)

- -36" Depth
- -78" Height
- -32" Width

13-ULV50 50GPM @ 60PSI 7.5HP UL VERTICAL INLINE FIRE PUMP







Fire Pump Controller



Technical Data Submittal Document

Model GPL

Limited Service Full Voltage Across the Line Start Electric Fire Pump Controller



Contents:

Data Sheets
Dimensional Data
Wiring Schematics
Field Connections

Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.

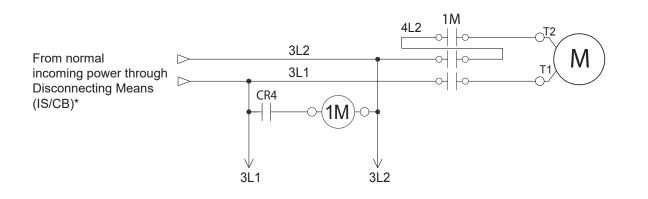














APPROVED





	Built to NFPA 20 (latest edition	n)	
Standard, Listings, Approvals and	Underwriters Laboratory (UL)	• UL218 - Fire Pump • CSA C22.2 No. 14	Controllers Industrial Control Equipment
Certifications	New York City	Accepted for use in	the City of New York by the Department of Buildings
	Seismic Certification	See page 5 for detai	ils
Enclosure	□ NEMA 3 □ NEMA 3R □	NEMA 4X-304 sst pa NEMA 4X-304 sst bru NEMA 4X-316 sst pa	ushed finish inted
	Accessories • Wall mounting lugs • Keylock handle		Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish

^{*}Please see Disconnecting Means details on page 3.

Shortcircuit Withstand Rating	208V to 240V- 3ph - 50/60Hz
Standard	65,000A
☐ Optional	n/a



Limitations	 Across the line starting only Horsepower rating of maximum 30hp Can only be installed where acceptable by the authority having jurisdiction Not accepted in FM insured property 				
Surge Suppression	Surge arrestor rated to suppress	s surges above line voltage			
Disconnecting Means	Circuit breaker (inverse time nor	n adjustable) rated between 150%	and 250% of motor full load current		
Service Entrance Rating	Suitable as service entrance equ	uipment			
Emergency Start Handle	Push and slide to lock Across the line start (direct on	ine)			
Electrical Readings	Voltage phase to phase (normal power)Amperage of each phase when motor is running				
Pressure Readings	Continuous system pressure display Cut-in and Cut-out pressure settings				
Pressure and Event recorder	 Pressure readings with date stamp Event recording with date stamp Under regular maintained operation, events can be stored in memory for up to 5 years. Data viewable on operator interface display screen Downloadable by USB port to external memory device 				
Pressure Sensing	 Pressure transducer for fresh water application Pressure sensing connection 1/2" Female NPT Rated for 0-500PSI working pressure (standard display at 0-300PSI) Internally mounted 				
Visual Indications	 Motor run Periodic test F	Deluge valve start Remote automatic start Remote manual start Emergency start	 Pump on demand/Automatic start Low discharge pressure Pump room temperature (°F or °C) Lockout 		
Visual Alarms	 Alternate lock rotor current Alternate power phase reversa Automatic transfer switch troub Control voltage not healthy Fail to start Invalid cut-in Lock rotor current Loss of power Low ambient temperature 	 Low water level Motor trouble Normal power phase reversa Overcurrent Overvoltage Phase loss L1 Phase loss L2 Phase loss L3 Phase unbalanced 	Pressure transducer fault detected Pump on demand Pump rrom alarm Service required Undercurrent Undervoltage Check weekly test solenoid Weekly test cut-in not reached		



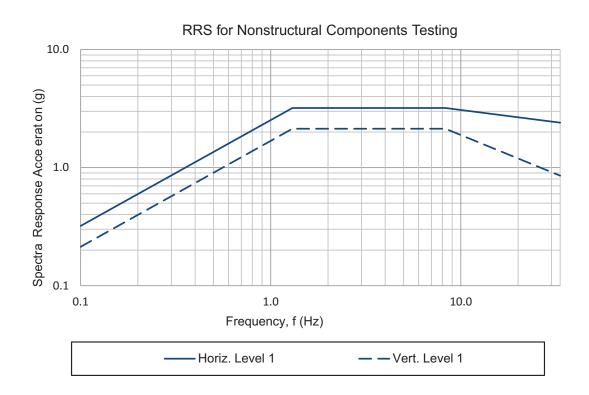
	T							
	DPDT-8A-250V.AC							
	Power available							
	Phase reversal							
	Motor run							
	Common pump room alarm							
	• Overvoltage							
Remote Alarm	Undervoltage							
Contacts	Phase unbalance							
Jointaoto	Low pump room temperature High Division rooms to see the second control of the							
	High Pump room temperature							
	Common motor trouble Oversumment							
	Overcurrent							
	Undercurrent							
	• Fail to start							
	Ground fault							
	Embedded microcomputer with software PLC logic							
ViZiTouch V2	• 7.0" color touch screen (HMI	technology)						
Operator Interface	Upgradable software	•						
	Multi-language							
Communication	Protocol: Modbus							
Protocol	Connection type: Shielded fell	male connector RJ45						
Capability	Frame Format: TCP/IP							
Gapasinty	Addresses: See bulletin MOI	D-GPx						
	Automatic Start	Start on pressure drop						
	Automatic Start	Remote start signal from automatic device						
		Start pushbutton						
	Manual Start	Run test pushbutton						
	Ivialiual Start	Deluge valve start						
		Remote start from manual	al device					
	Stonning	Manual with Stop pushbu						
Operation	Stopping	Automatic after expiration	n of minimum run timer ***					
		Field Adjustable 0	Minimum run timer ***(off delay)					
	Timers	Field Adjustable & Visual Countdown	Sequential start timer (on delay)					
		Visual Countdown	Periodic test timer					
			Pressure					
	Actuation	.,, .,	Non-pressure					
		Visual Indication	Automatic					
1	Mode	1						
			Non-automatic					

^{**}Tornatech reserves the right to use any of these three alarm points for special specific application requirements.

^{***}Can only be used if approved by the AHJ



	Seismic Certification Company	TRU Com A Tobalsk	•				TWE	I Project N	o.: 15014		
	Mounting details	Rigid wall	ligid wall mounting								
Seismic Certification	Seismic Information	Building Code	Test Criteria	Seismic Parameters	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
		IBC 2015,	ICC-	1 450 - 7-10	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		CBC 2016	Chapter 13		3.2	0.0	1.5	3.20	1.28	2.13	0.85



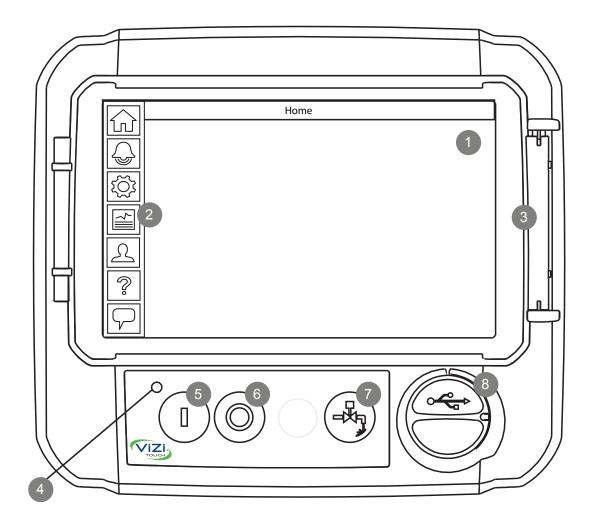
Notes:

- Components are tested in accordance with ICC-ES AC156, IBC 2015 & CBC 2016.
- OSHPD Special Seismic Certification Preapproval (OSP)



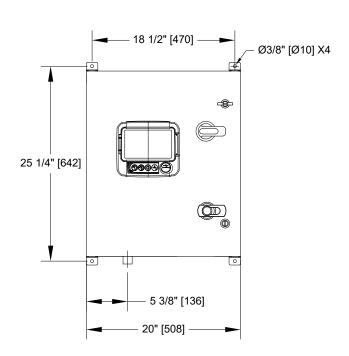
ViZiTouch V2 Operator Interface

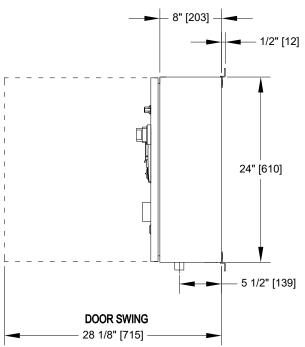


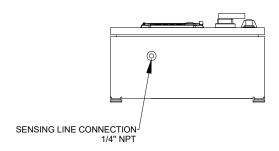


- 1 Color touch screen
- 2 Onscreen menu
 - HOME page
 - ALARM page
 - CONFIGURATION page
 - HISTORY page
 - SERVICE page
 - MANUAL page
 - LANGUAGES page

- 3 Screen protector
- 4 Power LED (3 colors)
- 5 START button
- 6 STOP button
- 7 RUN TEST button
- 8 USB port







VOLT/Hz	HP R	ATING	WITHSTAND R	ATING [ka] RMS
	MIN HP	MAX HP	STANDARD	HIĞH
				(OPT. D13A)
1 PHASE				•
200-208 / 60	3 HP	15 HP	65kA	N/A
230-240 / 50-60	3 HP	15 HP	65kA	N/A
3 PHASES	•			
200-208 / 60	3 HP	30 HP	65kA	N/A
230-240 / 50-60	3 HP	30 HP	65kA	N/A
380-415 / 50-60	3 HP	30 HP	25kA	65kA
440-480 / 50-60	3 HP	30 HP	25kA	65kA
575-600 / 60	3 HP	30 HP	18kA	25kA

NOTES:

- Standard NEMA: NEMA 2.
- All dimensions are in inches [millimeters].
- Paint : Textured red RAL 3002.

- Use watertight conduit connector only.
 Protect equipment against drilling chips.
 Ambient temperature: Between 41°F (5°C) and 104°F (40°C).
 Seismic mounting to be rigid wall and base only.

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.









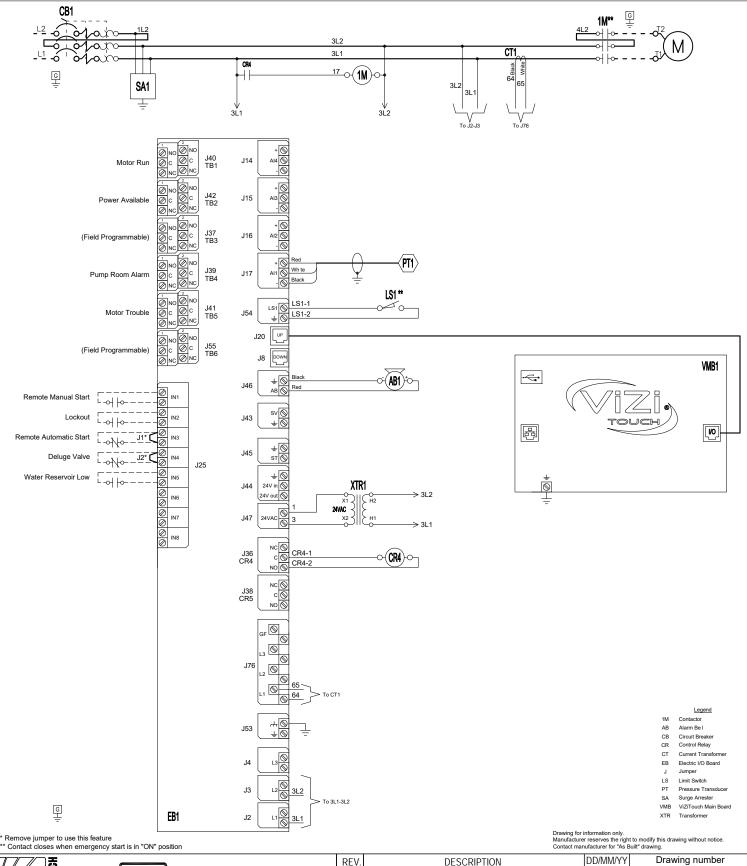
REV.	DESCRIPTION	DD/MM/YY	DRAW NG No.
1.	Revised logo	18/06/18	GPL-D
0.	First issue	17/11/16	

GPL-DI600 /E

Model: GPL

Wiring schematic

Built to the latest edition of the NFPA 20 standard







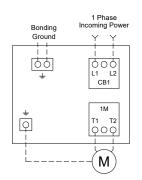


NYC Dpt of Building Approved

REV.	DESCRIPTION	DD/MM/YY	
2	Update Logo	23/04/18	
1	Removed (fail safe) text from Power Available relay	20/02/17	
0	First issue	10/11/16	

GPL-WS600 /E

Power Terminals Model: GPL 1 Phase



- Notes:

 1 For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.

 2 Controller suitable for service entrance in USA.

 3 For more accurate motor connections refer to motor manufacturer or motor nameplate.

 4 Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

 5 Field wiring and lug sizes are based on copper conductors only.

 Do not use aluminium conductors.

Bending Space	3 " (76 mm)							
HP Voltage	3	5	7.5	10	15			
208	1x (10 to 1)	1x (8 to 1)	1x (6 to 1)	1x (4 to 1)	1x (3 to 1)			
220 to 240	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)	1x (3 to 1)			

HP /oltage	3	5	7.5	10	15
208	1x (10 to 3)	1x (8 to 3)	1x (6 to 3)	1x (4 to 1)	1x (3 to 1)
220 to 240	1x (10 to 3)	1x (8 to 3)	1x (8 to 3)	1x (6 to 1)	1x (3 to 1)

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice Contact manufacturer for "As Built" drawing.

(Use Copper Conductors Only)





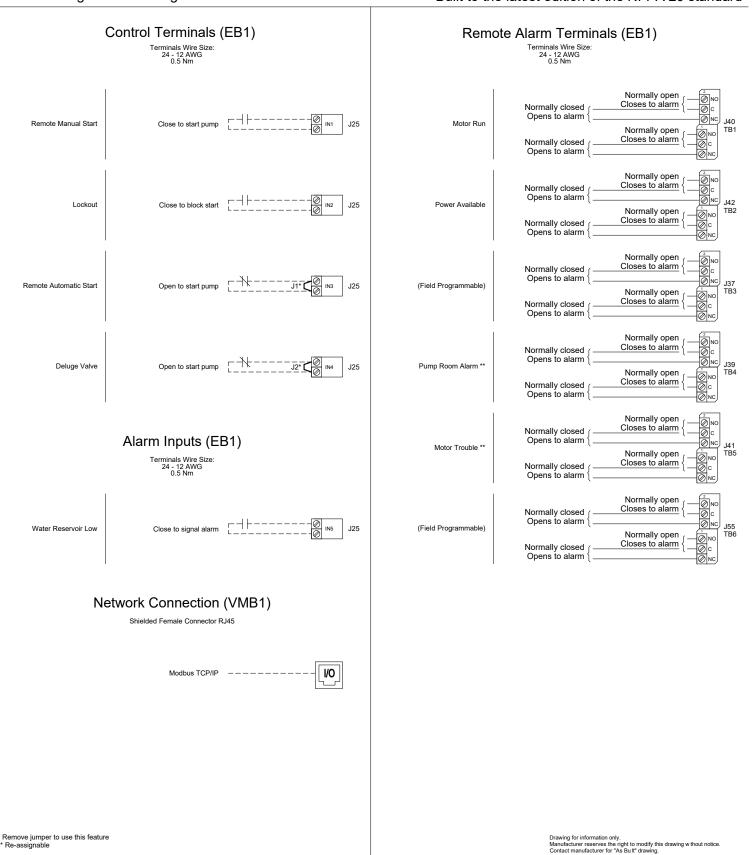




	REV.	DESCRIPTION	DD/MM/YY	Drawing number
)	2	Revised logo	18/06/18	
)	1	Removed (fail safe) text from Power Available relay	20/02/17	GPL-TD600 1/2 /E
	0	First issue	10/11/16	

Terminal Diagram and Sizing

Built to the latest edition of the NFPA 20 standard











REV.	DESCRIPTION	DD/MM/YY	Drawing number
2	Revised logo	18/06/18	
1	Removed (fail safe) text from Power Available relay	20/02/17	GPL-TD600 2/2 /E
0	First issue	10/11/16	



Jockey Pump

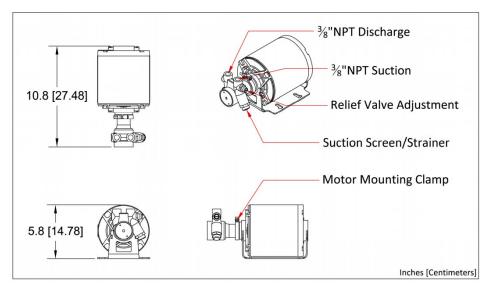
cTo

(Optional Equipment)

Talco ULV Jockey Pump

- High Quality Rotary Vane Pump
 - o 1.8GPM @ 240PSI
- 1/3HP* 200V-240V Electric Motor
 - Resilient Mounted
 - Permanently Lubricated
- Integrated Recirculation Relief Valve
 - Factory Set to 170PSI
 - No External Discharge
- Removable Mesh Suction Strainer
 - o Cleanable & Reusable





Dimensions are approximate.
*Motor HP subject to change without notice based on availability.

503-688-1231 www.talcofire.com 6040 NE 112th Ave, Portland OR



Commercial Pressure Switches

Electromechanical Square D Brand 9013 For power circuits, FRG, FHG, and G

Environmental characterist	.103		FRG			FHG			G		
			41174			Engl.	a				
Conformity to standards			UL 508, NEC Article 430-84, ANSI /NSF Standard 61, FDA 21CFR.2600								
Product Certifications			UL File E12158 CCN NKPZ , CSA File LR 25490 Class 321106								
Protective treatment			N/A								
Ambient air temperature		°C	For operation, 0 °C (32 °F) min to 125 °C (257 °F) max For storage, -30 °C (-22 °F) min to 70 °C (158 °F) max								
Fluids controlled			Fresh water, or sea water (with Form Q)								
Materials			Cover: polypropylene, Noryl thermoplastic resin or equivalent for Type 3R, Component material in contact with fluid: flange, zinc plated or equivalent (fluid entry) nitrile or equivalent rubber (diaphragm)								
Operating position			NEMA Type 1, and Type IP20 in any position, NEMA Type 3R in the vertical position							position	
Vibration resistance			only —								
Shock resistance			-								
Electric shock protection			_								
Degree of protection			NEMA Type 1, IP20 and NEMA Type 3R (some references) must be mounted in							ed in	
Operating rate		cycles/m	vertical position to maintain enclosure rating							-	
Repeat accuracy		Jonan	+/- 3 % of the range								
Fluid connection			1/8" NPSF internal, 1/4" NPSF internal, 1/2"NPT External, 1/4" Bayonet (barbed), 9 deg. Elbow 1/4" Bayonet, Four Way Flange, 3/8" NPSF (Internal), 1/4" Flare, other specials								
Electrical connection			2 open side entries, 3/4" diameter, with two flats 3 Conduit 1/2" Knockouts								
Contact block characteristi	cs										
Type of contacts			One 2 pole, 2 N/C (4 terminal) contacts, snap action								
Resistance across terminals		mΩ	< 25								
Terminal referencing			NA								
Short-circuit protection		Α	5,000							2.	
Connection					inals. Clai	mping cap	acity up t	o #10 AV	/G (5.261	mm²)	
Electrical durability		cycles	100,000								
Mechanical durability		cycles	300,000								
Electrical Ratings											
1 Pole			FRG			FHG A			G		
Power ratings of controlled motors	Voltage		\sim 1-phase	\sim 3-phase	-	\sim 1-phase	$_{ extstyle 3-phase}^{ extstyle }$		∼ 1-phase	\sim 3-phase	=
	32 V		-	-	-			-		-	-
			0.75 kW		0.18kW		1.5 kW (2 HP)	0.18 kW (.25 HP)	0.75 kW (1 HP)		0.37kW (.50 HP)
Note: Type FRG and G are all Form H	115 V				(.25 HP)	(110111)				-	0.37kW (.50 HP)
Type FRG and G are all Form H ▲ Includes	230 V		(1 HP) 0.75 kW	-	0.18kW	1.5 kW	2.2 kW (3 HP)	0.18 kW (.25 HP)			1.3011
Type FRG and G are all Form H ▲ Includes			(1 HP)	-		1.5 kW	(3 HP) 0.75 kW	(.25 HP)	(2 HP) 1.5 kW	-	(.5011F) —
Type FRG and G are all Form H ▲ Includes FHG 2, 3, 4, 9, 12, 13, 14, 19, 42, 44, 49	230 V		(1 HP) 0.75 kW (1 HP) —	_ ~	0.18kW	1.5 kW (2 HP) —	(3 HP) 0.75 kW (1 HP) ~	(.25 HP)	(2 HP) 1.5 kW (2 HP)	— ∼ 3.phase	
Type FRG and G are all Form H ▲ Includes FHG 2, 3, 4, 9, 12, 13, 14, 19, 42, 44, 49 2 Pole	230 V 460 / 575 V		(1 HP) 0.75 kW (1 HP)		0.18kW (.25 HP) — — 0.18kW	1.5 kW (2 HP) —	(3 HP) 0.75 kW (1 HP) ~	(.25 HP) —	(2 HP) 1.5 kW (2 HP)	— 3·phase —	- -
Type FRG and G are all Form H ▲ Includes FHG 2, 3, 4, 9, 12, 13, 14, 19, 42, 44, 49 2 Pole Power ratings of controlled motors	230 V 460 / 575 V Voltage		(1 HP) 0.75 kW (1 HP) —	~	0.18kW (.25 HP) —	1.5 kW (2 HP) — 1-phase	(3 HP) 0.75 kW (1 HP) ~	(.25 HP) —	(2 HP) 1.5 kW (2 HP) ~ 1-phase	~ 3·phase ~ 2.2 kW	
Type FRG and G are all Form H ▲ Includes FHG 2, 3, 4, 9, 12, 13, 14, 19, 42, 44, 49 2 Pole Power ratings of controlled motors ■ Includes	230 V 460 / 575 V Voltage 32 V 115 V		(1 HP) 0.75 kW (1 HP) — ~ 1-phase	− 2-phase −	0.18kW (.25 HP) — — 0.18kW (.25 HP)	1.5 kW (2 HP) — 1-phase —	(3 HP) 0.75 kW (1 HP) ~ 3-phase	(.25 HP) — ===	(2 HP) 1.5 kW (2 HP) 	3·phase —	= = =
	230 V 460 / 575 V Voltage 32 V		(1 HP) 0.75 kW (1 HP) 	3-phase 0.75 kW (1 HP)	0.18kW (.25 HP) — 0.18kW (.25 HP) 0.18kW	1.5 kW (2 HP) — 1-phase — 1.5 kW (2 HP) 2.2 kW	(3 HP) 0.75 kW (1 HP) ~ 3-phase —	(.25 HP)	(2 HP) 1.5 kW (2 HP) ~ 1-phase — 1.5 kW (2 HP) 2.2 kW	3-phase — 2.2 kW	

Commercial Pressure Switches

Electromechanical Square D Brand 9013 For power circuits G 2-pole 2 N/C contacts Degree of protection IP20, NEMA Type 1, 7 & 9

Flange Style













Adjustable range of switching point Contacts open on rising pressure

2 Pole

2 Pole						
Fluid connections	1/8" NPSF internal	1/4" NPSF internal	3/8" NPSF internal	1/8" NPSF internal	1/4" NPSF internal	3/8" NPSF internal
References	-	4			-	da -
NEMA Type 1, IP20	9013GHG1	9013GHG2	9013GHG3			
NEMA Type 7, NEMA Type 9				9013GHR1	9013GHR2	9013GHR3
Fluids / Pressure controlled	Water or Air	Water or Air	Water or Air	Water or Air	Water or Air	Water or Air
Pressure range						
Cut-0ut PSIG (bar)	60-200	60-200	60-200	65-200	65-200	65-200
Cut-In PSIG (bar)	40-170	40-170	40-170	35-150	35-150	35-150
Weight lbs (kg)	2 lbs (0.91)	2 lbs (0.91)	2 lbs (0.91)	8 lbs (3.62)	8 lbs (3.62)	8 lbs (3.62)
Complementary cha	racteristics not	shown under gene	ral characteristics			
Differential PSIG (bar)	20-40 (1.4-2.8)	20-40 (1.4-2.8)	20-40 (1.4-2.8)	30-50 (2.1-3.5)	30-50 (2.1-3.5)	30-50 (2.1-3.5)
Maximum permissible pressure PSIG (bar)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)	200 (13.8)
Mechanical life	300, 000 operating o	ycles				
Cable entry	3 Conduit 1/2" Knockouts	3 Conduit 1/2" Knockouts	3 Conduit 1/2" Knockouts	2 3/4" 14 NPT	2 3/4" 14 NPT	2 3/4" 14 NPT
Pressure switch type	Diaphragm					
	1/2" Knockouts					

Ordering Information

Pressure Codes

Below is the pressure code table.

Existence of a code does not imply that the code is available for any or all devices.

	Settings	Code
	20-40 PSI	J20
1	30-50 PSI	J21
ĺ	40-20 PSI	J23
	40-60 PSI	J24
1	60-80 PSI	J25
i	70-90 PSI	J26
ģ	70-100 PSI	J28
e	75-100 PSI	J29
	80-100 PSI	J30
r	90-120 PSI	J31
ĺ	100-80 PSI	J51
	100-125 PSI	J53
е	110-125 PSI	J54
ı	110 150 PSI	J56
ĺ	120-150 PSI	J57
ĺ	125-150 PSI	J58
	125 175 PSI	J60
1	130-175 PSI	J61
	140-170 PSI	J66
ĺ	140 175 PSI	J62
1	145-175 PSI	J63
	150-120 PSI	J64
	150-175 PSI	J67
	215-250 PSI	J65
	Specify pressure settings	J99
	125 175 PSI 130-175 PSI 140-170 PSI 140 175 PSI 145-175 PSI 150-120 PSI 150-175 PSI 215-250 PSI	J60 J61 J66 J62 J63 J64 J67 J65

1 Specify Class 9013 Type G.

2 Select pressure code and add code designation to end of type number. Be sure that pressure code falls within the limits of the device as shown in the device listings.

- 3 If special features are desired, add the appropriate Form letter to the Class and Type. Arrange Form letters in alphabetical sequence when ordering more than one special feature.
- 4 Place packaging code at end of sequence with other forms when ordering. If no packaging code is indicated, devices will be shipped individually packaged.

For standard pack of 10 devices per box C10 Available on GHB, GHG, GSB, and GSG

See page 25 for Form C10.





Valves & Fittings

Fire Main Gate Valve



OS&Y Valves (Outside Stem & Yoke), RS

Description

FPPI OS&Y Valves feature a bronze* body (ASTM C83600) cast iron hand wheel, with steel, stainless steel, and brass components for extended service life. OS&Y valves (outside stem and yoke) are perfect for sprinkler system monitoring. When the valve is opened, the stem is visible above the hand wheel. In the closed position, the stem is concealed inside the valve body. This allows for immediately identifying if the valve is "OPEN" or "CLOSED". OS&Y valves can also be fitted with external tamper switches for central station or panel monitoring.



Installation

Install in accordance with customary installation practices.

The information contained herein is produced in good faith and is believed to be reliable but is provided for guidance and information purposes only. FPPI and its agents cannot assume liability or responsibility for results obtained in the use or misuse of its product by persons whose methods and qualifications are outside and beyond our control. It is the user's responsibility to determine the suitability of, methods of use, preparation prior to use, and appropriate installation for all products purchased from FPPI. It is the user's sole responsibility to observe and adapt such precautions as may be advisable or necessary for the protection of personnel and property in the handling and use of any of our products.



3198 LIONSHEAD AVE CARLSBAD, CA 92010 + 1 (760) 599-1168 + 1 (800) 344-1822

+ 1 (800) 344-1622 + 1 (800) 344-3775 FAX

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Specifications

Material:

Body: Bronze* ASTM C83600 **Bonnet:** Bronze* ASTM C83600

Stem: Brass*

Hand Wheel: Cast Iron

Packing Gland: Bronze* ASTM

C83600

Disc: Bronze* ASTM C83600

Disc Pin: SS-304

Gland Packing: Graphite

Stud: Steel

Yoke Bushing: Brass*

Set Screw: Steel

Item Numbers / Sizes:

06-702-00 1" IPS 06-704-00 1 1/4" IPS 06-706-00 1 1/2" IPS 06-708-00 2" IPS

Finish:

Body: Rough Brass*
Handwheel: Red

*Contains lead. Not for use in water systems intended for human consumption.









Stock No. 1010201

UL and cUL Listed, FM Approved, CSFM Listed, NYMEA Accepted

Dimensions: 7" L x 3.75 W x 3" D (including bracket)

(17,7 cm x 9,5 cm x 7,6 cm)

Weight: 13.6 oz. (385,5 g.)

Enclosure: Non-Corrosive Composite Material

Environmental Limitations:

- NEMA 4 and NEMA 6P rated enclosure when proper electrical fittings are used. (IP67)
- Temperature range: -40° F to 140° F (-40° C to 60° C)

Housing Cover Tamper: Activated by housing cover removal.

Contact Ratings: SPDT Plug Contacts: 100 mA at 28 VDC/AC

250 mA at 12 VDC/AC

SPDT Cover Tamper: 250 mA at 28 VDC/AC

Cable: 2-wire, 18 Ga. Waterproof - Approx. 8' (2,43m) long

General

The Model PTS-C is designed to supervise sprinkler system control valves and may also be used to secure gates and other applications. This unit is particularly useful for unusual conditions, such as non-rising stem valves.

Nema 6P enclosure allows the device to be mounted outdoors, even in areas subject to flooding such as pits and wells. Sealed reed switch operation virtually eliminates contact corrosion.

Turning the valve wheel will pull the plug out of the receptacle. The plug cannot be reinserted after operation until the plug receptacle cover is removed with the special hex key provided. This key should be left with the building owner or responsible party. Replacement or additional cover tamper screws and hex keys are available. For cover tamper screws, order stock no. 5490344. For hex key, order stock no. 5250062.

Installation

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Insert plug into housing, take the loose end of the cable and loop it through the valve handle and into the housing. Adjust the length of cable so the plug must be pulled from the housing when the valve is closed. Cut off excess cable and terminate on the plug terminals of the PC board. Do not leave more than 2" (50mm) of excess wiring in the housing. Dress wires to outside edge of housing so as not to interfere with cover tamper.

Wire Checkout

With the plug wired to the two P terminals and the plug inserted fully into the receptacle, place an ohmmeter across the C and N.O. terminals. The meter will show Open. Unplug the plug from the receptacle. The meter will show continuity.

Note: The two P terminals will always show continuity when the plug is connected regardless of whether the plug is inserted or not.

The cover tamper switch can be wired into the plug circuit or wired as a separate circuit. (See wiring diagrams.)

Testing

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

A CAUTION

Be sure valve is fully open before restoring PTS-C.

WARNING

As Stipulated By Factory Mutual And Underwriters Laboratories

This unit is not intended or designed for ordinary use. It is a special application device to be used for unusual conditions such as non-rising stem gate valves where no other approved or listed method of protection is available or practical. As this unit does not meet NFPA codes and standards, requiring restoration signal when the valve is positioned to normal, special attention should be given by the responsible parties to assure that the proper operation of this device is maintained. This device should only be restored to normal when the valve is in the normal condition.

Potter Electric Signal Company, LLC • 2081 Craig Road, St. Louis, MO, 63146-4161 • Phone: 800-325-3936/Canada 888-882-1833 • www.pottersignal.com

TrimFit® Bronze Butterfly Valve

INSIST ON EPP P 1

Installation Instructions

Description

TrimFit® Model BFT (Threaded Butterfly Valve) and Model BFG (Grooved Butterfly Valve) close slowly to prevent water hammer. The butterfly valves are designed to be installed in any orientation and monitored to signal if the valve is opened or closed. They are Listed and Approved for use in a fire sprinkler system.



Installation

- 1. The valve can be installed in any orientation in a piping system with standard ASME B1.20.1 NPT or standard roll or cut grooved pipe.
- 2. When threading to pipe, apply PipeFit® or equivalent thread sealant or tape.
- 3. Use a wrench to cramp on the hexagon end of the valve.
- 4. The tamper switch features two switches: Switch-1 has dual leads on the terminals. This switch is used for connection of the supervisory circuit of a listed fire alarm control panel. Switch-2 has a single lead. This switch is used for connection of auxiliary equipment.
- 5. All the unused wires need to be capped with lead nuts and tucked into a junction box.
- 6. All connections need to be reviewed and approved by the appropriate jurisdictional authorities.

- 7. A No. 14 green wire is fixed inside the switch housing. It is provided as a ground for the housing.
- 8. The valves are intended for use with ANSI B36.10 Schedule 40 and/or Schedule 80 pipes, sizes 1", $1-\frac{1}{4}$ ", $1-\frac{1}{2}$ ", 2" and $2-\frac{1}{2}$ ".

NOTE: ALL REPLACEMENT PARTS
MUST BE OBTAINED FROM THE
MANUFACTURER TO ASSURE PROPER
OPERATION OF THE VALVE, AND TO
MAINTAIN APPROVAL OF THE DEVICE.

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Specifications

Rated to 300 PSI Switch rating: 10.1Amps125/250VAC-60Hz Actual switch application rating: 10 Amps/115 VAC-60Hz 0.5 Amps/28 VDC Indoor/Outdoor Use

Materials

Body: Bronze ASTM 584

C83600 Disc: SS304

Handwheel: ASTM A216 WCB Seat: ASTM D2000 Viton Indicator: Powder Metal Housing/Cover: Forged Brass JIS C3771 (Ref. ASTM C37700)

Available Sizes

TrimFit® Model BFT (Threaded)
06-500-00 1" UL/FM
06-502-00 11/4" UL/ULc/FM
06-504-00 11/2" UL/ULc/FM
06-506-00 2" UL/ULc/FM
06-508-00 21/2" UL/ULc/FM

TrimFit® Model BFG (Grooved) 06-522-00 11/4" UL/ULc/FM 06-524-00 11/2" UL/ULc/FM 06-526-00 2" UL/ULc/FM 06-528-00 21/2" UL/ULc/FM

CA Bldg. Materials Listing # 7770-2164-0100





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Valve Handle Lockout Covers

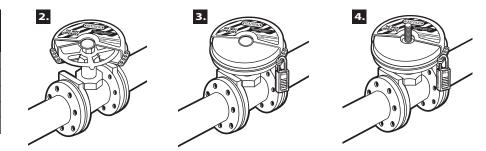
1.

Product Number Modèle n° Modelo Núm.	For Valve Handle Diameters Diamètre du volant de manœuvre Para diámetros de manija de válvula				
480	1 in 3 in. (25 mm - 76 mm)				
481	2 in 5 in. (51 mm - 12.7 cm)				
482	4 in 6.5 in. (10.2 cm - 16.5 cm)				
483	6 in 10 in. (15.2 cm - 25.4 cm)				
484	8 in 13 in. (20.3 cm - 33 cm)				



- Select the properly-sized cover for the specific valve handle to be locked out. Note: Cover should be loose enough when applied that it does not bind to the valve handle.
- Rotate the lockout cover to completely surround the valve handle (Illustration 2).
- Secure with Master Lock safety lockout padlock(s) by inserting shackle(s) through the overlapping locking eyelets (Illustration 3).
- To secure a valve handle which has a rising stem, cut out the circular center section of the lockout cover (Illustration 4).





One "Valve Handle Lockout Cover" or equivalent, shall be provided; to be used in accordance with NFPA 20, sections 4.17.1 (3) & 4.17.2.

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Check Valves

UL LISTED AND FM APPROVED

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- Brass Body* (C38000) for superior corrosion resistance
- Listed valves available in the following sizes: 1 ½"**, 2", 2 ½", 3" and 4"
- Available Grooved, Threaded, or Thread by Groove reducing the need for additional fittings and minimizing installation time.
- Pressure rated to up to 300 PSI
- Tapped and plugged for easy use of accessories such as ball drips or gauges





 $^{\star}\text{Contains}$ lead. Not for use in water systems intended for human consumption.

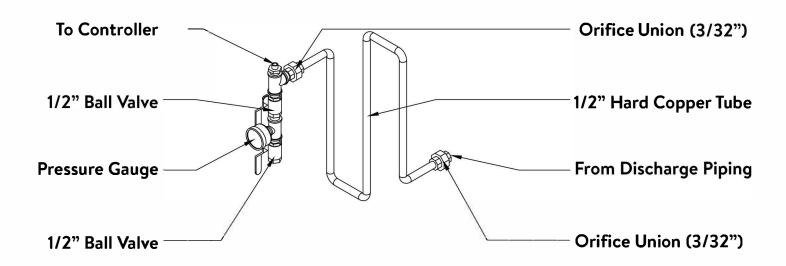
^{**1 1/2&}quot; size is UL/ULc listed only







NFPA20 Sensing Line Detail



Pressure Sensing Lines constructed in accordance with NFPA 20: All brass or copper components, orifice unions at connections to both discharge piping & controller valve assembly, minimum 60" hard copper tubing between unions.