

FAIRBANKS NIJHUIS

PUMP CORPORATION

A member of the Pentair Flow Technologies, LLC

ONE COPY OF A COMPLETE SUBMITTAL BROCHURE FOR AN
ELECTRIC DRIVEN HORIZONTAL SPLIT CASE FIRE PUMP

MIAMI LAKES GARAGE
FJ25958.001

BROTHERS FIRE PROTECTION, INC.
3781 N.E. 11TH AVENUE
POMPANO BEACH, FLORIDA 33064

DAVID SENGSOURLINHO
954-419-9377

MAY 14, 2026

THIS ORDER IS ON HOLD FOR APPROVAL AND WILL NOT BE RELEASED FOR PRODUCTION UNTIL
ONE APPROVED COPY OF THE SUBMITTAL HAS BEEN RETURNED TO THIS OFFICE

SUBMITTAL PREPARED BY GPM UNITED, INC.
561-627-1178



May 14, 2026

Brothers Fire Protection, Inc.

Project #: FJ25958.001

Miami Lakes Garage

Fire Pump: Fairbanks Nijhuis, Horizontal Split Case, 6" X 5" Model 5"-1823F
Rated for 1000 GPM @ 75 PSI, Shut Off Pressure: 84 PSI
Mounted to a Steel Base w/ Coupling & Coupling Guard
UL Listed/FM Approved

Fire Pump Driver: Factory Choice, ODP, 1800 RPM, 480/60/3, 75 HP
UL Listed

Fire Pump Controller: Tornatech, Across the Line, 480/60/3
Combined Manual & Automatic Operation, 100,000 AIC, NEMA 2 Enclosure
UL Listed/FM Approved
Transfer Switch: No

Jockey Pump: Fairbanks Nijhuis, Vertical Stackable, Model PVM1-9
Rated for 10 GPM @ 85 PSI

Jockey Pump Controller: Tornatech, Across the Line, 480/60/3, 1 HP

System Accessories: 1/2" Automatic Air Release Valve
3/4" Circulation Relief Valve
Suction & Discharge Gauges
8" X 6" Eccentric Suction Fitting
5" X 6" Concentric Discharge Fitting
6" Test Header w/ Valves, Caps & Chains
1/2" Jockey Pump Relief Valve
1-1/4" Jockey Pump Companion Flange Kit

One (1) NFPA 20 Warranty Commissioning Start Up & Flow Test Included for Up to Four (4) Hours.

Florida State Sales Tax and/or Surtax Not Included.

Terms: Delivery at Place (DAP).

Lead Time: 7-9 Weeks to Ship URO.

Validity: Thirty (30) Days.

All Tariffs, Duties & Sales Tax, Due in Full. Valid Resale Tax Exemption Certificate Required for Sales Tax Exemption. GPM United, Inc. & its Affiliates Will NOT be Responsible for Any Tariffs, Duties and/or Sales Tax.

Zac Michael

GPM United, Inc.

3569 91st Street North, Suite 7, Lake Park, Florida 33403 USA

Item Number / Tags	001 1000 GPM @ 75 PSI, GPA, 480 VAC	Size / Stages	/
Quote number	FJ25958	Pump speed	

Pump

Qty Description

1 *Fairbanks Nijhuis - Horizontal Splitcase 5"-1823F*

COS

Conditions of service

Flow: 1000 USgpm (227 m3/h)

Pressure rated: 75 psi

Speed: 1770 rpm

Suction pressure: 60 psi

Impeller diameter: 14

Shutoff head: 84 psi

Elevation: 300 ft

Temperature: 77° F

Country of origin: United States

Fire pump configuration

Pump

Materials of construction: Bronze fitted with Cast Iron casing

Pump rotation: Right handed

Flange rating (Suction/Discharge): (Suction 6 / Discharge 5) 125/125 LB

Pump base: Steel bent form base

Pump shaft material: Carbon Steel AISI C1045

Casing relief valve: UL listed & FM approved, Cla-Val

Available Kits

Available Sealing Kits: None

Available Overhaul Kits: None

Available Rotating Assembly Kits: None

Available Power Frame Assembly Kits: Power Frame Assembly Kit,-,Power Frame:

Driver

Qty Description

1 **Driver**

Driver type

Motor: Weg - 75HP 365TS ODP 1800rpm 60Hz 230/460V, Across-The-Line

Fire Pump Controller

Qty Description

1 **Fire pump controller**

Fire pump controller

Fire pump controller: Tornatech GPA, Across-The-Line, 480V, 3Phase, 60Hz, 75 HP - Manufacturer model number GPA-480/75/3/60/, D5, , , D26A

Transfer Switch: No

VFD Controller: No

Ship controller before pump: No

Do you want controller to be shipped direct: Yes – Ship direct to shipping address

Fire pump controller - alarm and indicators

Standard digital text indications for fire pump controller

Phase loss

Phase unbalance

Incoming over voltage

Fire Pump Controller

Qty	Description
	Incoming under voltage Motor over current Motor under current Motor run Fail to start Standard high luminous LED's Power available Phase reversal Pump on demand Weekly test Fire pump controller - additional option selections Enclosure for Standard Controller: NEMA 2 Pressure transducer: Pressure transducer and run test solenoid valve for fresh water, 0-500 PSI Suction pressure transducer: Not required Controller Rated Temperature: Controller rated for 40°C ambient temperature Anti condensation heater: None Withstand rating for controller: Standard Withstand Rating, 100,000 Amps Pump control function: None Label language: English Modbus Modbus TCP/IP provision Export packing: No

Remote Alarm Panel

Qty	Description
1	Remote Alarm Panel Remote Alarm Panel Remote Alarm Panel: None

Jockey Pump

Qty	Description
1	Jockey pump Pump and Motor Pump type: Stackable cast iron Flow rate: 10 USgpm TDH: 85 psi: 85.00 psi Jockey Pump (price includes selected motor): PVM1-9, Stackable Cast Iron, NPT Threaded / Flanged Jockey Pump Motor: 1 Hp, 3 Ph, 230/460V, premium Eff. Motor Jockey Pump Motor frame size: 56CZ Motor enclosure: Totally Enclosed Fan Cooled Frequency: 60 Hz Phase: Three Motor Voltage: 460 Volt Jockey pump relief valve: 1/2" Jockey pump companion flange kit: 2 250# flanges, gaskets, nuts and bolts

Jockey Pump Controller

Qty	Description
1	Jockey pump Controller JP controller details: Tornatech Model JPLT, Across-The-Line, 480V, 3 Phase, 60 Hz, 1 Hp - Manufacturer model number JPLT-480/1/3/60/ , , A1, A2, A3, A7A, A4, A7A Manufacturer: Tornatech Starting method: Across-The-Line Voltage: 480 V Horsepower: 1Hp Jockey pump controller options Enclosure: NEMA 2 Pressure switch: Standard Pressure Transducer 0-500 PSI (calibrated for 0-300 PSI) Wetted parts: None Labeling language: English Withstand rating: 5,000 Amp standard short circuit withstand rating Included lights and timers Minimum run period timer Visual Indication Visual Indication Overload pilot light Elapsed time meter (time totalizer)

System Accessories

Qty	Description
1	Accessories System Accessories Suction reducer, NFPA requires one: 8" x 6" reducer, 125 lb Discharge increaser: 5" x 6" increaser, 125 lb Hose valve header and options: Grooved 6" header / 4 valve, 300 lb Hose valve with caps: 2.5" valve for 6" size supply, 4 valves

Engineering Tests

Qty	Description
1	Testing Engineering Tests Driver to be used for engineering tests: Calibrated test lab motor

Weight, Freight, Boxing

Qty	Description
1	Weights Shipping Skid Details Skid weight: 125 lb (56.7 kg) Weight Approximate total weight for Qty shown Fire pump weight: 730 lb (331.12 kg) Driver weight: 660 lb (299.37 kg) Fire pump controller weight: 235 lb (106.59 kg) Jockey pump weight: 100 lb (45.36 kg) Jockey pump controller weight: 40 lb (18.14 kg) Suction reducer weight: 83 lb (37.65 kg) Discharge increaser weight: 55 lb (24.95 kg)

Weight, Freight, Boxing

Qty	Description
	Hose valve header weight: -1 lb (-0.45 kg)
	Hose valve with caps and chains weight: 80 lb (36.29 kg)
	Skid weight: 125 lb (56.7 kg)
	Total weight: 2107 lb (955.72 kg)
	Export boxing: Not required

Skid

Qty	Description
1	Weights Shipping Skid Details Pump and drive skid Pallet, 38" W x 72" L, Floor area per skid 19 sq.ft (1.77 sq.m) Controller skid Pallet 26 " W x 34 " L, Floor area per skid 6.14 sq.ft (0.57 sq.m) Jockey pump skid Pallet, 36" W x 36" L, Floor area per skid 9 sq.ft (0.84 sq.m) Ship loose items skid Pallet, 36" W x 36" L, Floor area per skid 9 sq.ft (0.84 sq.m) Shipping comments Pentair does not recommend stacking skids. Please use the estimated dimensions to calculate shipping container requirements, as floor load only. Total floor area 43.14 sq.ft (4.02 sq.m)

Special

Qty	Description
1	COS Conditions of service Do you want curve HP review/adjustment?: No

RedHot/QuickShip

Qty	Description
1	Fire Pump, Driver, and Jockey Pump shipping: 8 Week

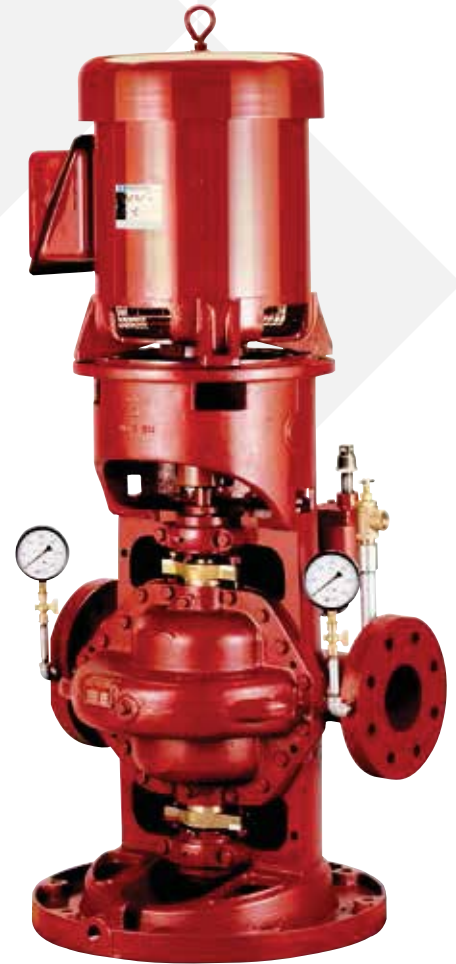
The Equipment referenced in the attached quote or proposal is specifically designed and dimensioned for, and intended only to be installed in Large Scale Fixed Installations (LSFI) as that term is defined in RoHS (EU Directive 2011/65) as such Directive may be amended from time to time.

The Buyer by placing its order warrants and represents, and shall ensure that any customer of the Buyer to whom the Buyer resells or otherwise assigns the Equipment warrants and represents, that (i) the Equipment will be solely and exclusively installed in combination with other equipment, sub-systems, apparatus and/or devices which are intended to be a part of a "large scale" installation (*Examples of "large scale" installations may include but are not limited to installations which (a) are too large to be moved in an ISO 20 foot container because the total sum of its parts as transported is larger than 5,71m x 2,35m x 2,39m; (b) are too heavy to be moved by a 44 tonne road truck; (c) have a rated power greater than 375 kW; and/or (d) require cranes to be completely installed); (ii) the installation in which the Equipment will be utilized will be assembled, installed, and de-installed by professionals holding the requisite knowledge, experience, and licenses necessary to undertake and complete the work related to the installation; and (iii) the overall system in which the Equipment will be included will be used permanently in a pre-defined and dedicated location.

The Buyer further acknowledges and agrees that Pentair is relying on the above warranties and representations by Buyer as a material inducement to sell the Equipment to Buyer, and Buyer will defend, indemnify, and hold Pentair harmless from and against any and all claims, losses, fines, decrees, penalties, and/or causes of action arising out of or related to breach of the above warranties and representations, including but not limited to those brought by any governmental or quasi-governmental authority.



HORIZONTAL SPLIT CASE PUMP



VERTICAL SPLIT CASE PUMP

FAIRBANKS NIJHUIS™ 900 SERIES SPLIT CASE FIRE PUMPS

Built Per NFPA 20



FAIRBANKS NIJHUIS™ 900 SERIES

Split Case Fire Pumps

Horizontal split case pumps are the most common type of fire pump. These pumps are specifically designed and tested for fire service applications where reliability of performance is of vital importance. Split case pumps are characterized by:

- Easy access to all working parts;
- Rugged construction;
- Liberal water passages; and
- Efficient operation.

Split case fire pumps are specified when the source of water is located above the surface of the ground and provides a positive suction pressure to the pump at any performance point. Single-stage or multistage pumps are available dependent upon discharge pressure requirements.

Fairbanks Nijhuis split case fire pumps are built per the rigid standards of NFPA 20 and are listed by Underwriters Laboratories (UL) and approved by Factory Mutual (FM).

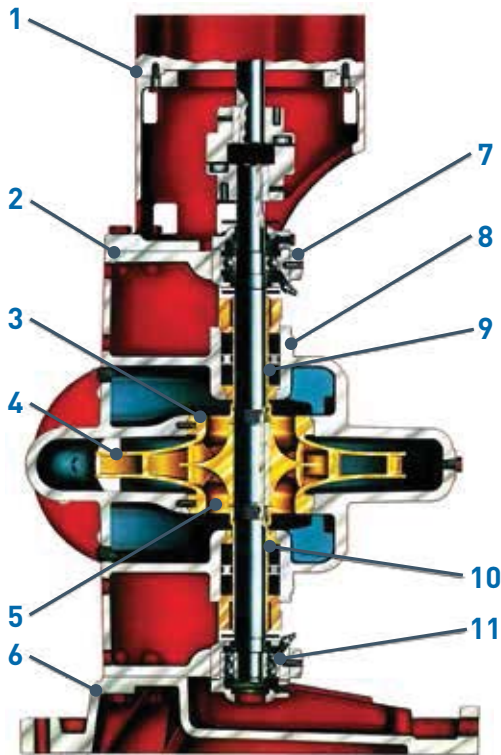
Available in a broad range of operating pressures and flows from a minimum of 250 GPM, Fairbanks Nijhuis split case pumps can be driven by either an electric motor or diesel engine. Fairbanks Nijhuis' UL-Listed, FM-Approved fire pump packages also include the system controller, with a full range of options and accessories available to complete the NFPA-compliant fire pump package.



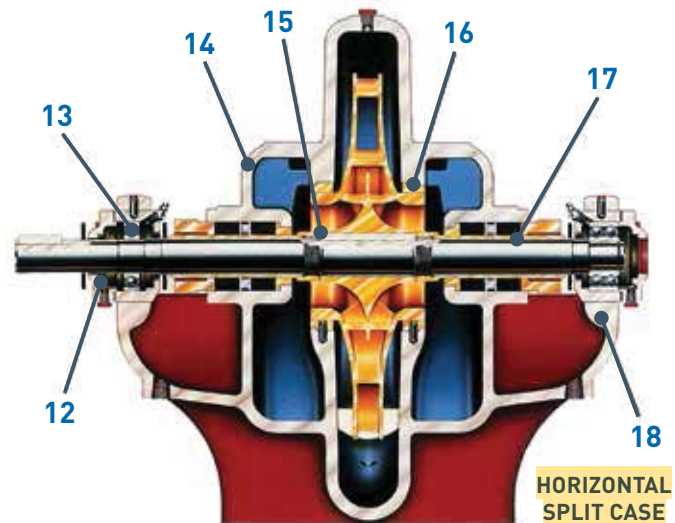
In addition to horizontal split case pumps, Fairbanks Nijhuis also offers split case performance in a vertical format. Vertical fire pumps provide distinct advantages over horizontal pump constructions.

- Less floor space is required.
- In-line piping arrangement allows piping in any direction in most cases.
- Elevated motor protects against potential flooding if the pump station is in a low area.
- Components are register-fitted to prevent misalignment.

Pump Features



**VERTICAL
SPLIT CASE**



**HORIZONTAL
SPLIT CASE**

- 1. Computer Machined**
major components with 360 degree registered fits to assure concentricity of parts.
- 2. Integral Bearing Arms**
eliminate bearing misalignment and simplify maintenance.
- 3. Enclosed Impeller Design**
provides high efficiency and performance.
- 4. Dynamically Balanced Impeller**
is keyed to the shaft and secured by adjustable shaft sleeves.
- 5. Double Suction Impeller**
balances hydraulic thrust loads.
- 6. Cast Iron Drip Rim Base**
directs condensation and any stuffing box leakage to drain.
- 7. Short Bearing Span**
holds shaft deflection to .002" at face of stuffing box at maximum load.
- 8. Internal Water Seal Passages**
between volute and stuffing box cannot be damaged.
- 9. Interwoven, Graphite Impregnated T.F.E.**
diagonally cut packing rings seal the pump shaft.
- 10. Stuffing Boxes**
are extra deep for proper sealing. Split packing glands simplify packing maintenance.
- 11. Double Row Thrust**
ball bearing.
- 12. Grease Seals**
and nonsparking neoprene rotating slingers protect both bearings during pump operation and washdown.
- 13. Bearings**
selected for 50,000 hour minimum life at maximum load. Average bearing life 5 x minimum.
- 14. Split Case Design**
simplifies disassembly. The suction and discharge piping and shaft alignment are not disturbed.
- 15. O-Ring Sealed Shaft Sleeves**
prevent corrosion of the shaft. This eliminates the need for stainless steel shafts.
- 16. Case Wearing Rings**
and throttle bushings protect the casing from wear and are easily and inexpensively replaced.
- 17. Bronze Shaft Sleeve**
prevents shaft wear, is slip fit over the shaft, keylocked, and extends the entire length of the seal box.
- 18. Certified Performance Test with Positive Suction Pressure**
is provided for each fire pump for customer approval. Pumps are also hydrostatically tested per NFPA 20 at no less than 250 psi.

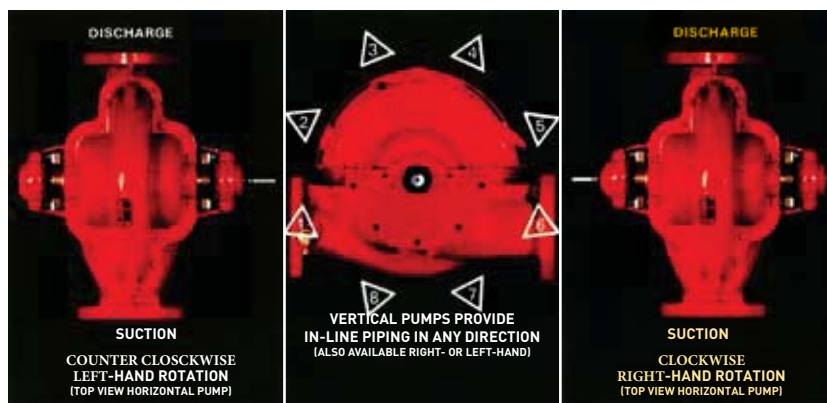
Fire Pump Feature Selector

Standard

- Bronze fitted pump construction
- Bronze shaft sleeves
- Bronze case wearing rings
- Dynamically balanced impellers
- Stainless steel impeller key
- Carbon steel shaft
- Corrosion-resistant lantern rings*
- Bronze stuffing box bushings
- Bronze or stainless steel glands
- Interwoven graphite-impregnated T.F.E. packing rings
- Cast integral bearing arms (most models)
- Regreaseable ball bearings
- Double row thrust bearing (outboard side)
- Upper casing lifting lugs
- Water slingers and grease seals
- Hydrostatic and Certified Performance test**
- Coupling guard
- Suction and discharge gauges with shutoff cocks
- Automatic air release valve
- Casing relief valve (electric driven units only)

Optional

- Ductile iron casings (available in selected 1800 and 1900 models)
- Some models available in 316 SST, duplex and super duplex
- Right- or left-hand rotation
- Impeller wearing rings
- Stainless steel shafts
- Double row ball bearings on inboard side
- External bypass line from casing to stuffing boxes (optional on Model 1800s and 1900s, standard on Model 2800s and 5800s)
- Formed steel drip-rim base (horizontal electric driven units only)
- 15' Suction lift test to verify performance at 150% of rated flow
- Available accessories include valves, headers, main relief valves, increasers and reducers, waste cones, and more.



* Standard on Model 2800s and 5800s; furnished when suction pressure is below 40 psi on Model 1800s and 1900s.

** Test is performed with positive suction pressure.

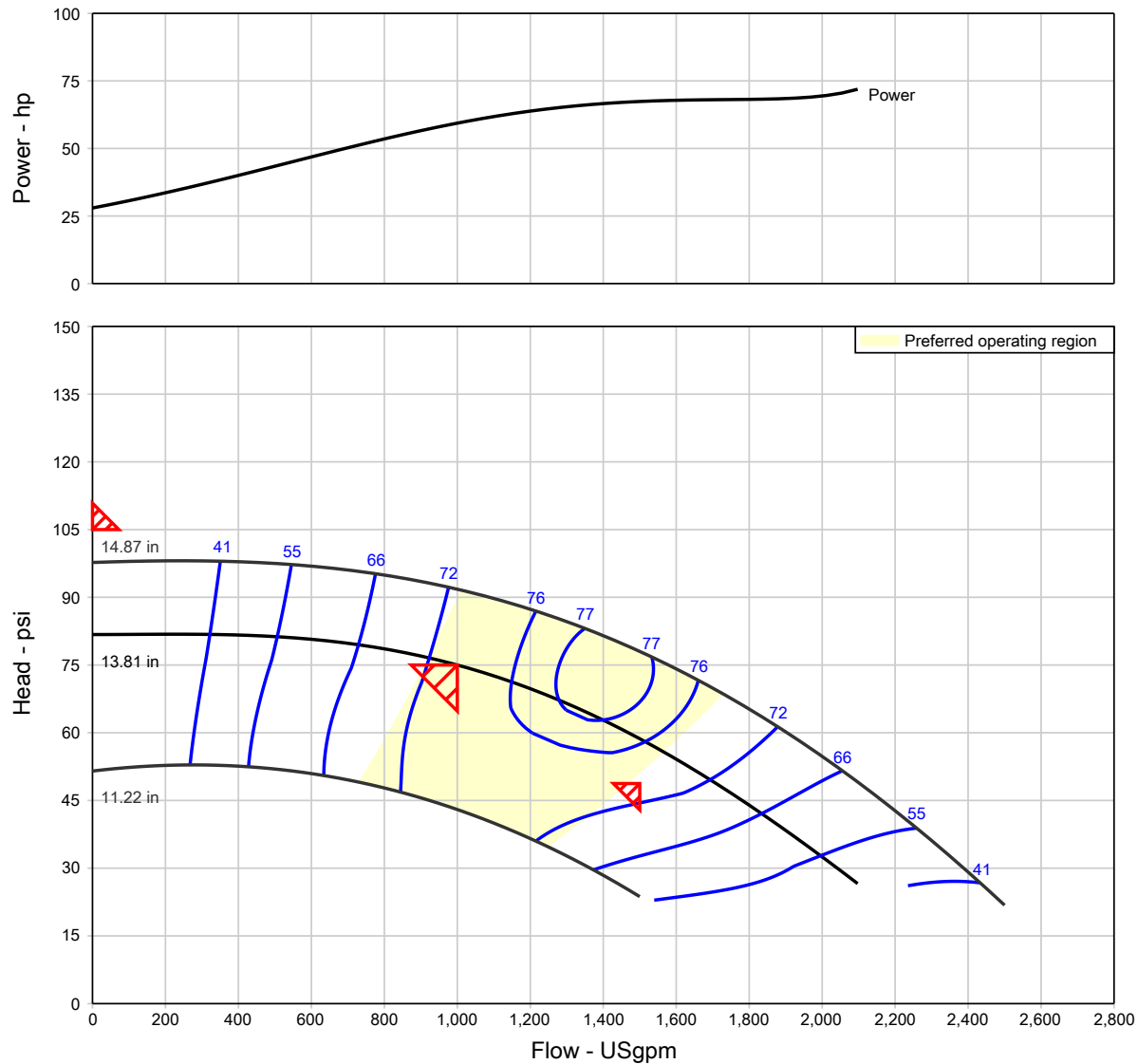


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Item Number / Tags : 001 1000 GPM @ 75 PSI, GPA, 480 VAC

Service :

Quantity : 1

Quote number : FJ25958

Date last saved : 13 May 2026 1:02 PM

Flow, rated : 1,000.0 USgpm

Differential head / pressure, rated : 75.00 psi

Flange rating (suction / discharge) : 125/125

Secondary Point (150% of rated flow) : 1,500.0 USgpm

Secondary Point (65% of rated head) : 48.75 psi

Max Shutoff per NFPA : 105.0 psi

Size : 5"-1823F

Stages : 1

Driver type : Motor

Frequency : 60 Hz

Speed, rated : 1770 rpm

Based on curve number : 184-5X6X15-1770

Efficiency : 73.69 %

Max working pressure, allowable : 175.0 psi.g

Max Shutoff Head (Calculated) : 84.31 psi

Max suction pressure, allowable : 90.69 psi.g

Suction pressure, max (user specified) : 60.00 psi.g

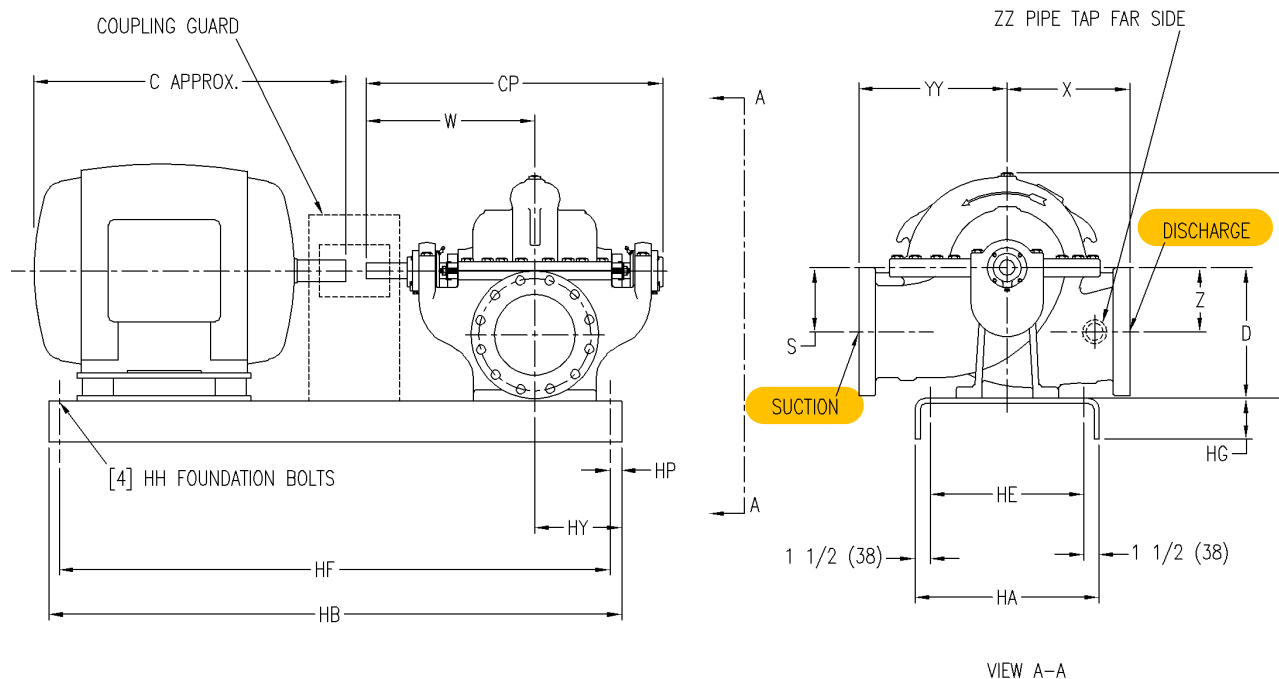
Pump shutoff w/ suction pressure : 144.3 psi.g

Power driver, minimum : 75.00 hp

General Arrangement

WARNING

DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



CP	W	X	YY	D	Z	S	HY	ZZ
28.50	16.00	13.25	15.00	12.50	6.25	6.25	6.00	1.25

C	HA	HB	HE	HF	HG	HH	HP	O
28.00	18.00	54.00	15.00	52.00	4.00	0.63	1.00	22.50

NOTES:

Not for construction, installation, or application purposes unless certified.

All dimensions are in inches

Dimensions may vary $\pm 1/2"$ (13mm) due to normal manufacturing tolerances.

Bases are designed to be completely filled with grout.

Coupling gap may vary 1/8" (3mm) through 2 1/16" (52mm)

See configuration for estimated total weight.

Pump Data

Series	Horizontal Splitcase
Model	5"-1823F
Size	5x6x15
Flow	1,000.0 USgpm
Rated Pressure	75.00 psi.g
RPM	1770 rpm
Rotation	Right handed
Liquid Type	Water
Discharge Size	5.00 in
Suction Size	6.00 in
Impeller Diameter	13.97 in
Connection Type	125/125
Base Type	Steel bent form base
-	-

Pump Materials of Construction

Pump	Bronze fitted with Cast Iron casing
Shaft	Carbon Steel AISI C1045

Motor Data

Power	75.00 hp
Phase	3
Frequency	60 Hz
Volts	230/460 V
RPM	1800
Frame	365TS
Service Factor	1.15
Enclosure	ODP
Manufacturer	Weg

Site Information

Elevation	300.0 ft
Temperature	77.00 deg F

Estimated Weights

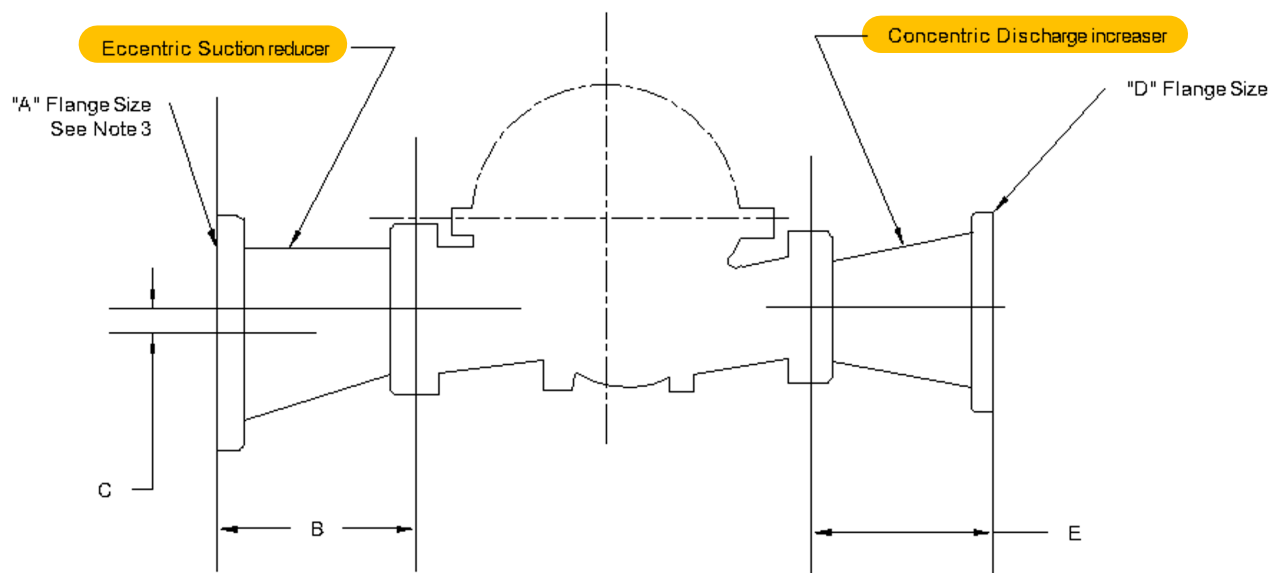
Pump	730.0 lb
Driver	660.0 lb

Quote Information

Customer	GPM United, Inc.
Customer Quote	2940377
Job Name	Miami Lakes Garage
Market	-

	Quote Item	001 1000 GPM @ 75 PSI, GPM
	Quote Date	13 May 2026

General Arrangement



Suction Size	A	B	C	Suction Reducer Flange Rating
8x6	8.00	11.00	1.00	125 lb

Discharge Size	D	E	Discharge Increaser Flange Rating
5x6	6.00	9.00	125 lb

NOTES:

1. Dimensions are in inches (mm) and may vary $\pm 1/4"$.
2. Dimensions applicable to both Class 125 & Class 250 fittings.
3. Illustrations show the intended installation positions and orientation of each fitting: Eccentric Suction Reducers are to be installed with the straight side to the top to prevent air entrapment.
4. Proper pipe supports are required to prevent strain on pump casing.
5. Fittings shown are intended to adapt the fire pump suction and discharge flanges to the actual system manifold pipe sizes. Refer to NFPA 20 for the minimum system manifold size for each flow rating (GPM), but in no case should the system suction pipe be a smaller pipe size than that of the pump suction flange.

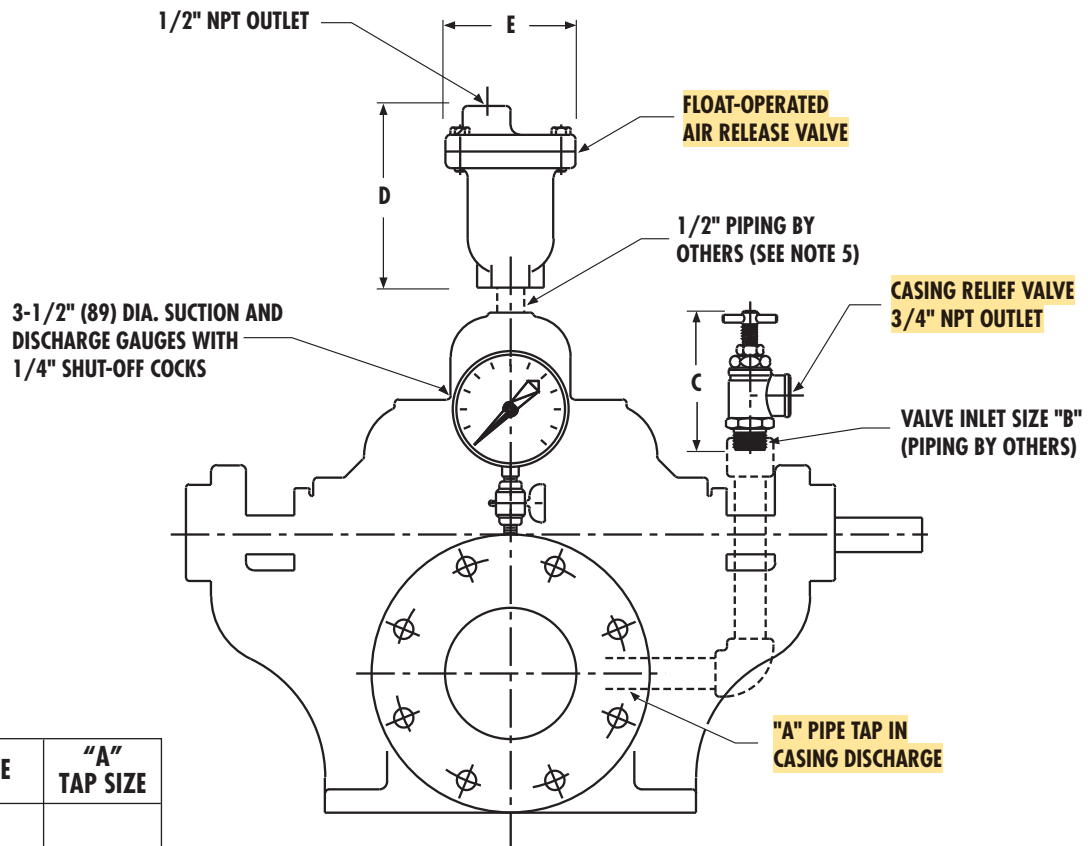
Quote Information			
Customer	GPM United, Inc.		
Customer Quote	2940377		
Job Name	Miami Lakes Garage		
Market	-		
 PENTAIR	Quote Item	001 1000 GPM @ 75 P	
	Quote Date	13 May 2026	

FAIRBANKS FIRE PUMPS

STANDARD FIRE PUMP ACCESSORIES

Section **916** Page **201**

Date **April 2006**



PIPE SIZE	"A" TAP SIZE
2.5" 1823F	1-1/4"
3" 1824F	
4" 1823F	
4" 1824F	
5" 1822F	
5" 1823F	
5" 1824F	
6" 1822F	
6" 1822HHF	
6" 1823HHF	
6" 1823F	2"
6" 1824F	
6" 1825F	
8" 1822F	
8" 1825F	
10" 1823F	3/4"
10" 1824DF	
8" 1824F	
10" 1824F	1-1/4"
12" 1824F	
ALL VERTICAL (1840) MODELS	3/4"
ALL 2-STAGE (1920) MODELS	1-1/4"
2800/5800 MODELS	3/4"

CASING RELIEF VALVE

SYSTEM G.P.M.	VALVE INLET SIZE - "B"	"C"
250	3/4"	4-1/2" (114)
500		
750		
1000		
1250		
1500	1"	5-1/2" (140)
2000		
2500		
3000		
3500		
4000		

NOTES:

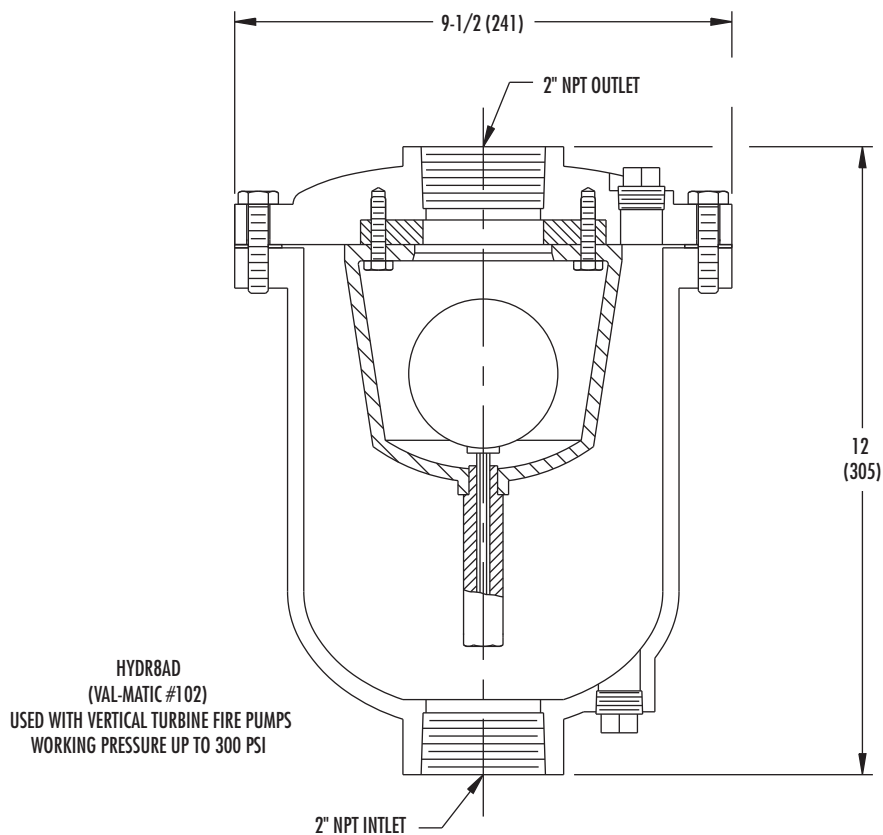
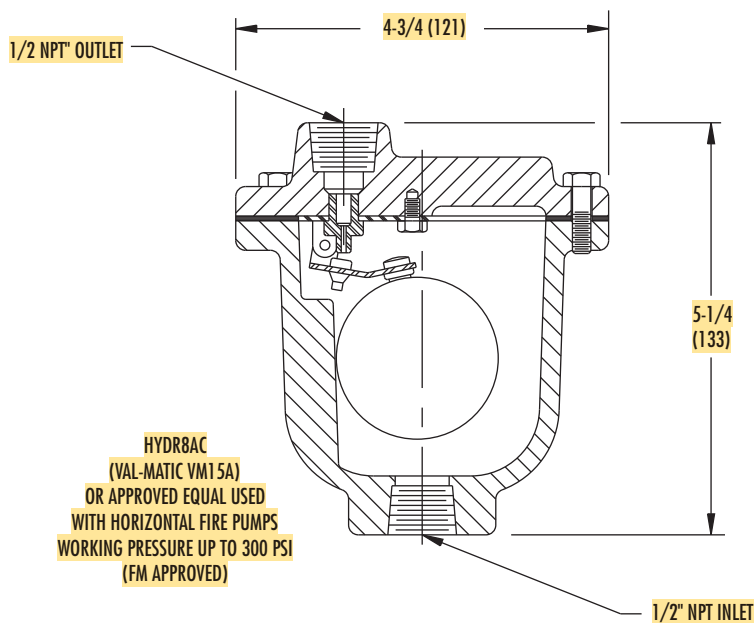
1. Dimensions are in inches (mm) and may vary $\pm 1/4"$ (6).
2. Accessories shown are shipped loose for field installation.
3. Casing relief valve is to be adjusted to appropriate pressure upon field installation.
4. Casing relief valve is furnished on electric motor driven units only.
5. Two stage pumps require both vent taps piped to air release valve.
6. Suction gauge range is 30"-0-150 PSI for suction pressures up to 75 PSI, or 30"-0-300 PSI for suction pressures over 75 PSI.
7. Discharge gauge range is 0-300-PSI for pumps with rated discharge pressures up to 150 PSI, or 0-600 PSI for pumps with rated discharge pressures over 150 PSI.

FLOAT OPERATED AIR RELEASE VALVE

SYSTEM OPERATING PRESSURE	"D"	"E"
UP TO 175 P.S.I.	5-7/8" (149)	3-3/4" (95)
OVER 175 P.S.I.	6-11/16" (170)	5-5/8" (143)

FAIRBANKS FIRE PUMPS

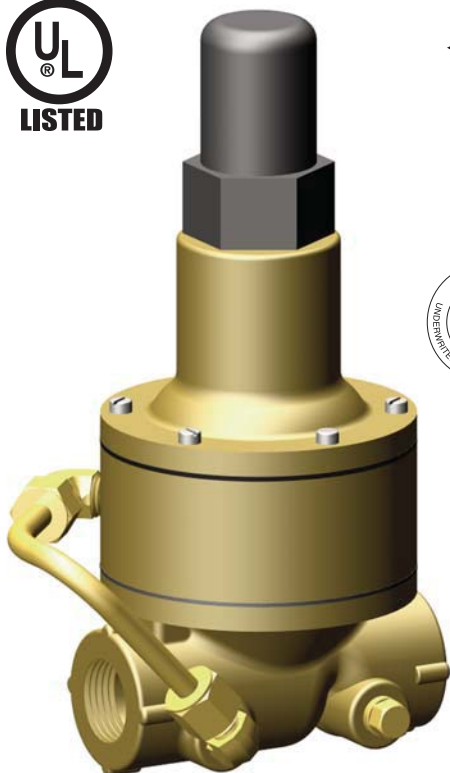
AUTOMATIC AIR RELEASE VALVE



NOTES:

1. All dimensions are in inches (mm) and may vary $\pm 1/4$ (6).

Pressure Relief Valve



- **UL Listed**
- **Factory Mutual Approved**
- **Direct Acting - Precise Pressure Control**
- **Positive Dependable Opening**
- **Drip Tight Closure**
- **No Packing Glands or Stuffing Boxes**
- **Sensitive to Small Pressure Variations**

The Cla-Val Model 55L (**UL Listed FM approved**) Pressure Relief Valve is a direct-acting, spring loaded, diaphragm type relief valve. The valve may be installed in any position and will open and close within very close pressure limits.

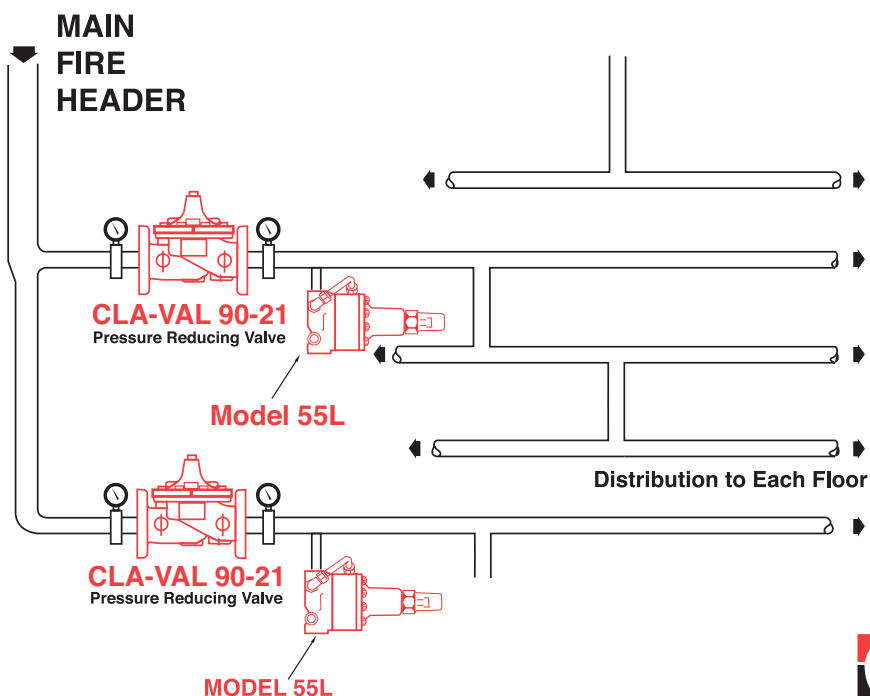
The Model 55L is normally held closed by the force of the compression spring above the diaphragm. When the controlling pressure applied under the diaphragm exceeds the spring setting, the disc is lifted off its seat, permitting flow through the control. When control pressure drops below the spring setting, the spring forces the control back to its normally closed position. The controlling pressure is applied to the chamber beneath the diaphragm through an external tube on the 55L.

Pressure adjustment is simply a matter of turning the adjusting screw to vary the spring load on the diaphragm. The 55L is available in three pressure ranges; 0 to 75 psi, 20 to 175 psi, 100 to 300 psi. To prevent tampering, the adjustment cap can be wire sealed by using the lock wire holes provided in the cap and cover.

Note: Also Available in Seawater Service Material

Typical Applications

Fire Protection System Service
Using the **Model 55L** in a fire protection system or other closed type system, prevents pressure build-up whenever line pressure exceeds the setting of the spring. The valve will relieve excess pressure to atmosphere preventing damage to the distribution network.



Specifications

Size	1/2" & 3/4" Threaded
Temperature Range	Water, Air: to 180°F Max.
Materials	
Body & Cover:	Cast Bronze ASTM B62 Stainless Steel ASTM A743-CF-16Fa
Trim:	Brass & Stainless Steel 303
Rubber:	Buna-N® Synthetic Rubber

UL Listed 55L Range psi	Approximate Increase for Each Clockwise Turn of Adjusting Screw
20 to 175	28.0 psi

FM Approved 55L Range psi	Approximate Increase for Each Clockwise Turn of Adjusting Screw
0 to 75	8.5 psi
20 to 200	28.0 psi
100 to 300	18.0 psi

Pressure Ratings	Cast Bronze 400 psi Max. Stainless Steel 400 psi Max.
Other Materials	Available on special order
Adjustment Ranges	0 to 75 psi 20 to 200 psi 100 to 300 psi

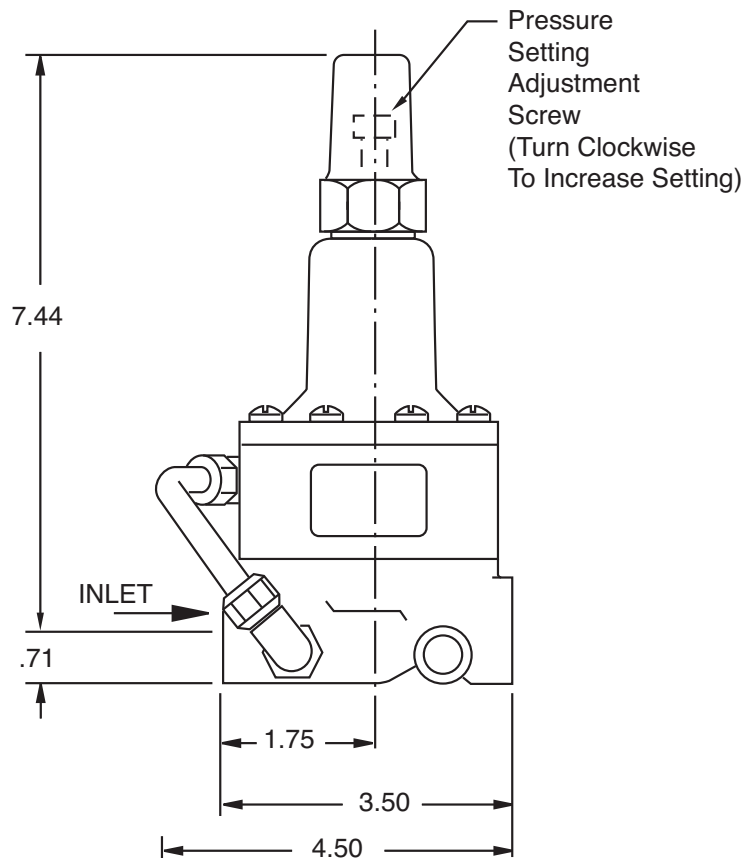
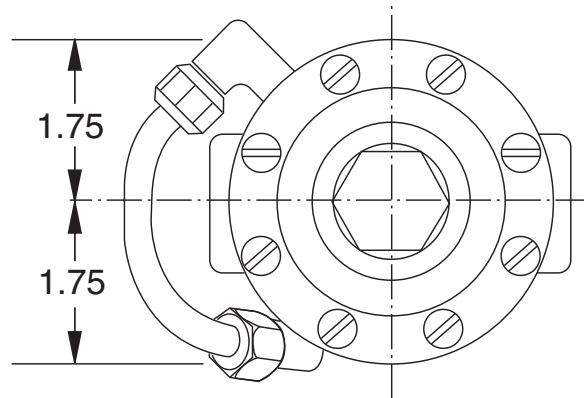
Flow Loss Chart (Full Open Valve)

Valve Size	C _v Factor	Flow of Water - Gallons Per Minute				
		5	10	16	20	30
1/2"	6	0.7	2.7	6	11	--
3/4"	8.5	0.3	1.4	3.1	5.5	12.2

When Ordering, Please Specify

1. Catalog No. 55L
2. Valve Size
3. Adjustment Range Desired
4. Optional Materials

55L Basic Valve Dimensions (In Inches)



0 to 75 and 20 to 175 psi design



E-55L (R-9/2011)

CLA-VAL

PO Box 1325 Newport Beach CA 92659-0325

800-942-6326 • Fax: 949-548-5441 • Web Site: cla-val.com • E-mail: claval@cla-val.com

CLA-VAL CANADA

4687 Christie Drive
Beamsville, Ontario
Canada L0R 1B4
Phone: 905-563-4963
Fax: 905-563-4040
E-mail: sales@cla-val.ca

CLA-VAL EUROPE

Chemin des Mésanges 1
CH-1032 Romanel/
Lausanne, Switzerland
Phone: 41-21-643-15-55
Fax: 41-21-643-15-50
E-mail: cla-val@cla-val.ch

CLA-VAL UK

Dainton House, Goods Station Road
Tunbridge Wells
Kent TN1 2 DH England
Phone: 44-1892-514-400
Fax: 44-1892-543-423
E-mail: info@cla-val.co.uk

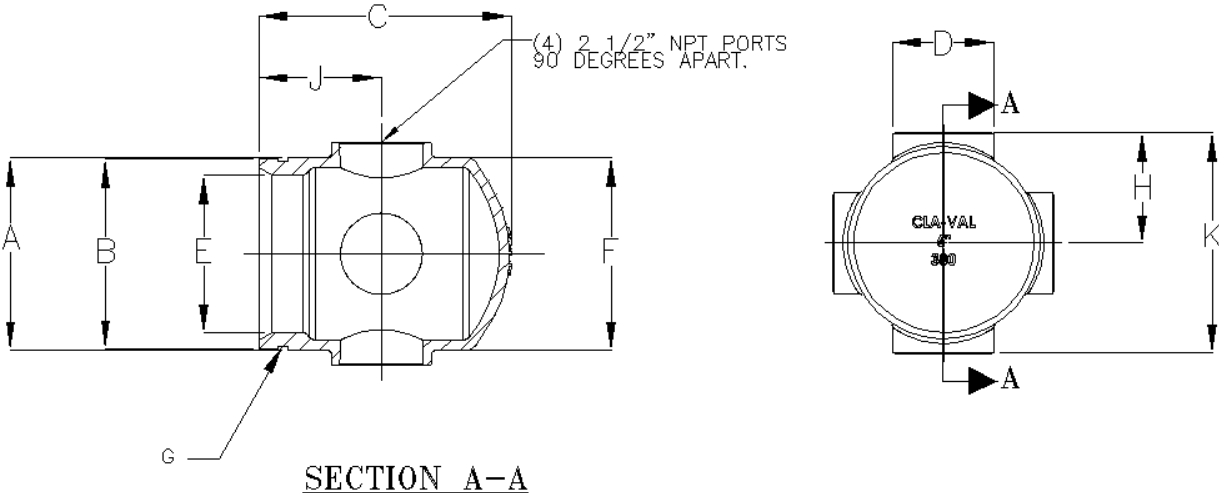
CLA-VAL FRANCE

Porte du Grand Lyon 1
ZAC du Champ du Pérrier
France - 01700 Neyron
Phone: 33-4-72-25-92-93
Fax: 33-4-72-25-04-17
E-mail: cla-val@cla-val.fr

CLA-VAL PACIFIC

306 Port Hills Road (Level Two)
Woolston, Christchurch, 8042
New Zealand
Phone: 64-39644860
Fax: 64-39644786
E-mail: gnuthall@cla-val.com

General Arrangement

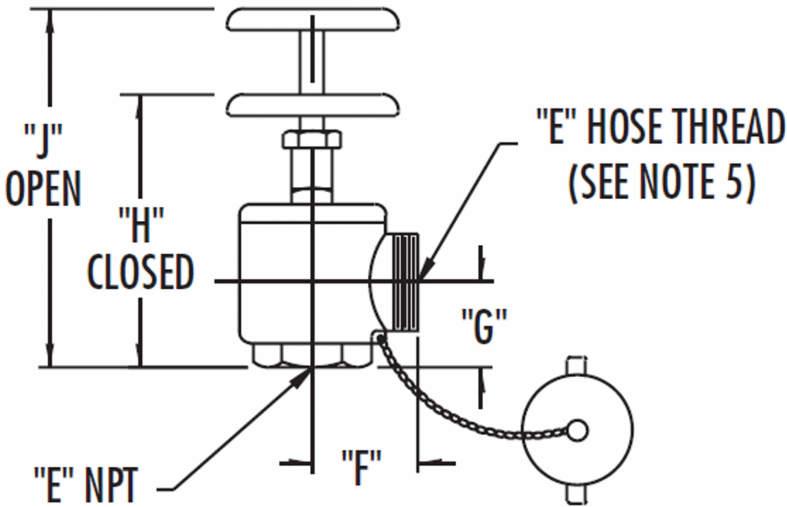


Model	A	B	C	D	E	F	G	H	J
6" X 4 TAPS	6.75	6.64	8.80	3.50	5.50	6.75	6" Grooved Connection	3.88	4.25

- NOTES:
1. Dimensions are in inches (mm) and may vary $\pm 1/4$ (6).
 2. Dimensions are for reference only and are for identification purposes.
 3. Drawing depicts purchased OEM CLA-VAL test header p/n 21120301h, size 6", gpm 750 - 1000, four ports, 2 1/2 npt port size, and grooved 300# flange.

Quote Information		
Customer	GPM United, Inc.	
Customer Quote	2940377	
Job Name	Miami Lakes Garage	
Market	-	
	Quote Item	001 1000 GPM @ 75 P
	Quote Date	13 May 2026

General Arrangement



E	F	G	H	J
2.50	3.50	2.75	9.50	11.00

- NOTES:
- 1. Dimensions are in inches (mm) and may vary $\pm 1/4$ (6).
 - 2. Components shown are shipped loose for field installation and assembly.
 - 3. Manifold supply size "A" and the number of hose valves ("B") meets or exceeds the minimums specified by N.F.P.A. 20 for the pump ratings indicated.
 - 4. Manifolds for 3000 through 5000 GPM ratings consist of multiple sections and may require support (by others).
 - 5. 1-1/2" Hose valves furnished with 1-1/2" National Standard Fire Hose Thread: 1.9900 (50.55) O.D. (max.), 6 threads per inch. 2-1/2" Hose valves are furnished with 2-1/2" National Standard Fire Hose Thread: 3.0686 (77.94) O.D. (max.), 7-1/2 threads per inch. Refer to factory for other thread conventions or adaptors.

Quote Information			
Customer	GPM United, Inc.		
Customer Quote	2940377		
Job Name	Miami Lakes Garage		
Market	-		
		Quote Item	001 1000 GPM @ 75 P
		Quote Date	13 May 2026



FAIRBANKS NIJHUIS® PVM(X) SERIES VERTICAL MULTISTAGE PUMPS

60Hz Catalog

www.FairbanksNijhuis.com



PVMX1
through
PVMX33 Only

PVM(X)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

HIGH HYDRAULIC EFFICIENCY, MOTOR DESIGNED TO NEMA STANDARDS

The PVM and PVMX are vertical multistage pumps with flanged/NPT or grooved connections.

Stage construction with stainless steel impellers, chambers and pressure casing. Pump shaft and motor shaft of the NEMA-standard motor are directly close coupled.

All pumps are equipped with a cartridge type mechanical seal for easy maintenance.

PVM and PVMX pumps have different pump sizes and various numbers of stages to provide the flow and the pressure required.

APPLICATIONS

- Water supply
- Pressure boosting systems
- Water treatment/filtration
- Irrigation
- High pressure washes
- Liquid transfer
- Firefighting systems
- Boiler feed



PVM(X)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PRODUCT DATA

60Hz	PVM(X)						
	1	3	5	10	15	20	33
Nominal Flow – US GPM	8.8	16	32	53	93	106	160
Flow Range – US GPM	1-20	6.5-30	13-60	25-95	45-150	50-170	80-225
Max. Pressure – psi (ft)	360 (832)	360 (832)	360 (832)	360 (832)	360 (832)	360 (832)	435 (1005)
Fluid Temperature – °F [°C]	5°F to + 250°F (-15°C to + 120°C)						
Motor Power – hp	0.5-3	0.5-5	0.75-7.5	0.75-15	2-25	3-25	5-40
Version							
PVM: Cast Iron	•	•	•	•	•	•	•
PVMX: Stainless Steel EN 1.4401/AISI 316”	•	•	•	•	•	•	•
Motor							
Main Connection, 3 Phase	208-230V/460V (0.5-15 hp) 230V/460V (20-100 hp)						
Insulation Class	B						
Ambient Temperature	40°C						
PVM Pipe Connection							
Flange Raised Face	1-1/4” ANSI 250#	1-1/4” ANSI 250#	1-1/4” ANSI 250#	2” ANSI 250#	2” ANSI 250#	2” ANSI 250#	2-1/2” ANSI 250#
NPT	1-1/4” NPT Female	1-1/4” NPT Female	1-1/4” NPT Female	2” NPT Female	2” NPT Female	2” NPT Female	-
PVMX Pipe Connection							
Flange Raised Face	1-1/4 ANSI 300#	1-1/4 ANSI 300#	1-1/4 ANSI 300#	2” ANSI 300#	2” ANSI 300#	2” ANSI 300#	2-1/2” ANSI 300#
Grooved Connection	R¼ DN32	R¼ DN32	R¼ DN32	R2 DN50	R2 DN50	R2 DN50	N/A
Mechanical Seals							
SiC/SiC	Standard						
Seals							
EPDM	Standard						
Viton®	Optional						

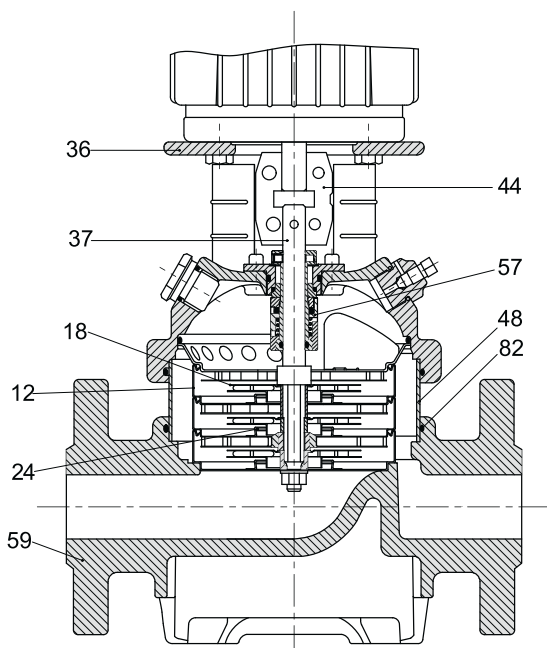
PVM(X)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

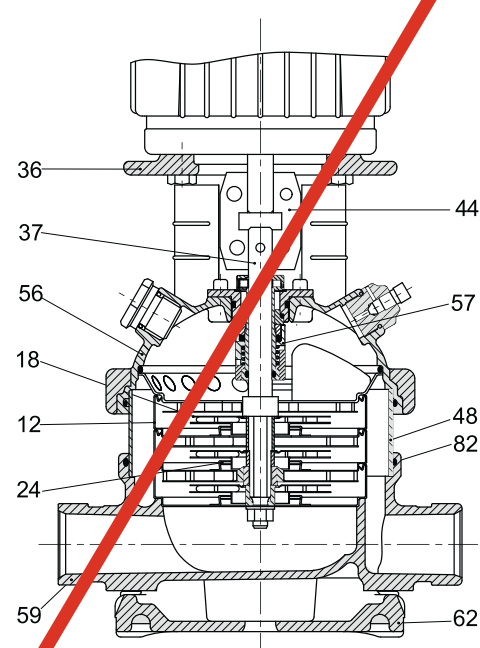
PUMP CONSTRUCTION

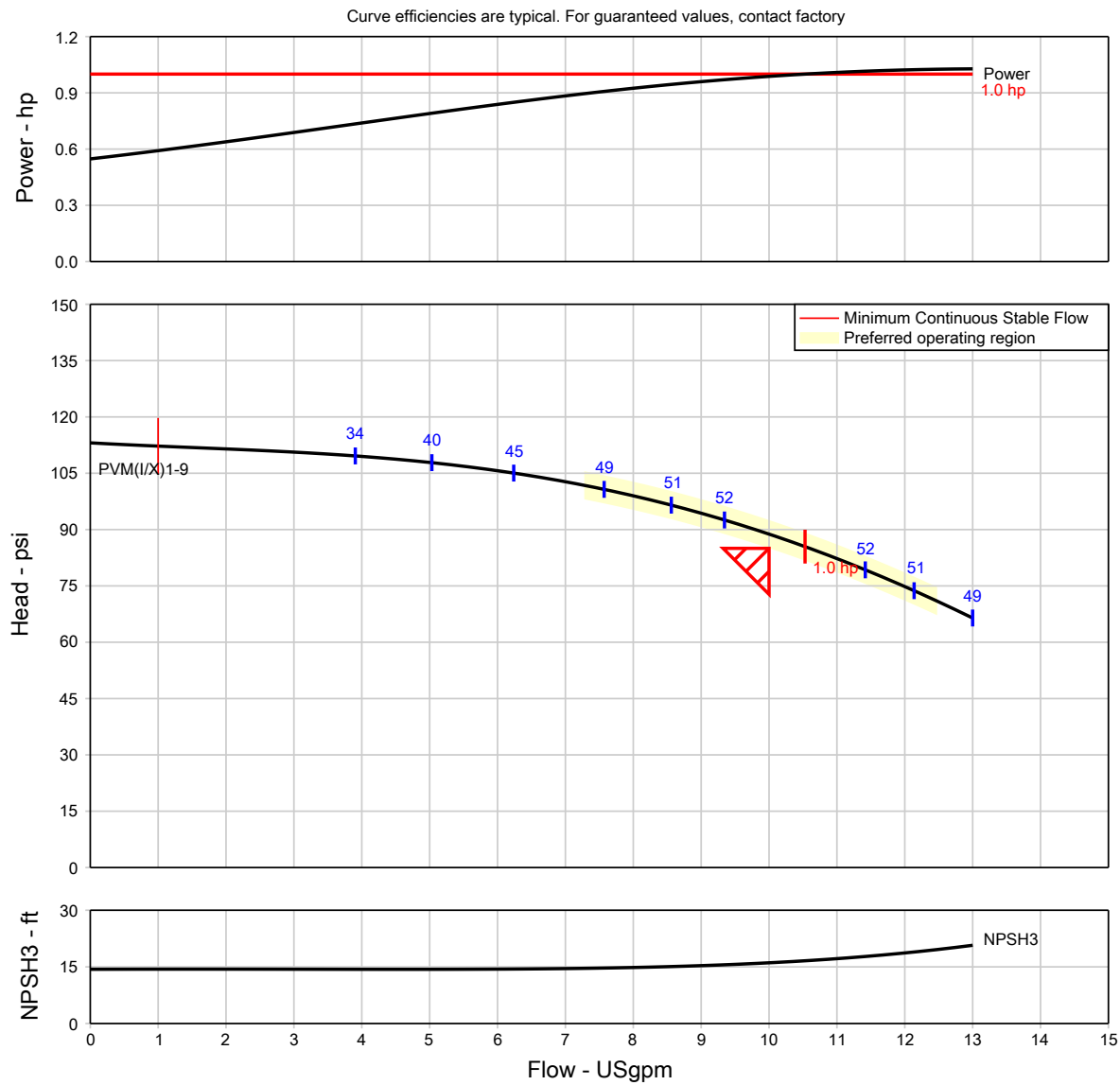
POS.	NAME	MATERIAL	PVM 1, 3, 5, 10, 15, 20	PVMX 1, 3, 5, 10, 15, 20
36	Pump Head	Cast Iron	EN-GJL-200 ; ASTM 25B	EN-GJS-450-10 ; ASTM 65-45-12
56	Pump Head Cover	Stainless Steel	-	1.4401 ; AISI 316
18	Impeller	Stainless Steel	1.4301 ; AISI 304	1.4401 ; AISI 316
37	Shaft	Stainless Steel	1.4057 ; AISI 431	1.4401 ; AISI 316
48	Outer Sleeve	Stainless Steel	1.4301 ; AISI 304	1.4401 ; AISI 316
82	O-Ring for Outer Sleeve	EPDM	-	-
12	Chamber	Stainless Steel	1.4301 ; AISI 304	1.4401 ; AISI 316
24	Neck Ring	PTFE	-	-
59	Base	Cast Iron	EN-GJL-200 ; ASTM 25B	-
		Stainless Steel	-	1.4401 ; AISI 316
62	Base Plate	Cast Iron	-	EN-GJL-200 ; ASTM 25B
44	Coupling	Fe-Cu-C	SINT C11 ; MPIF FC0525	SINT C11 ; MPIF FC0525
57	Mechanical Seal	Cartridge Type	-	-

PVM - 1, 3, 5, 10, 15, 20



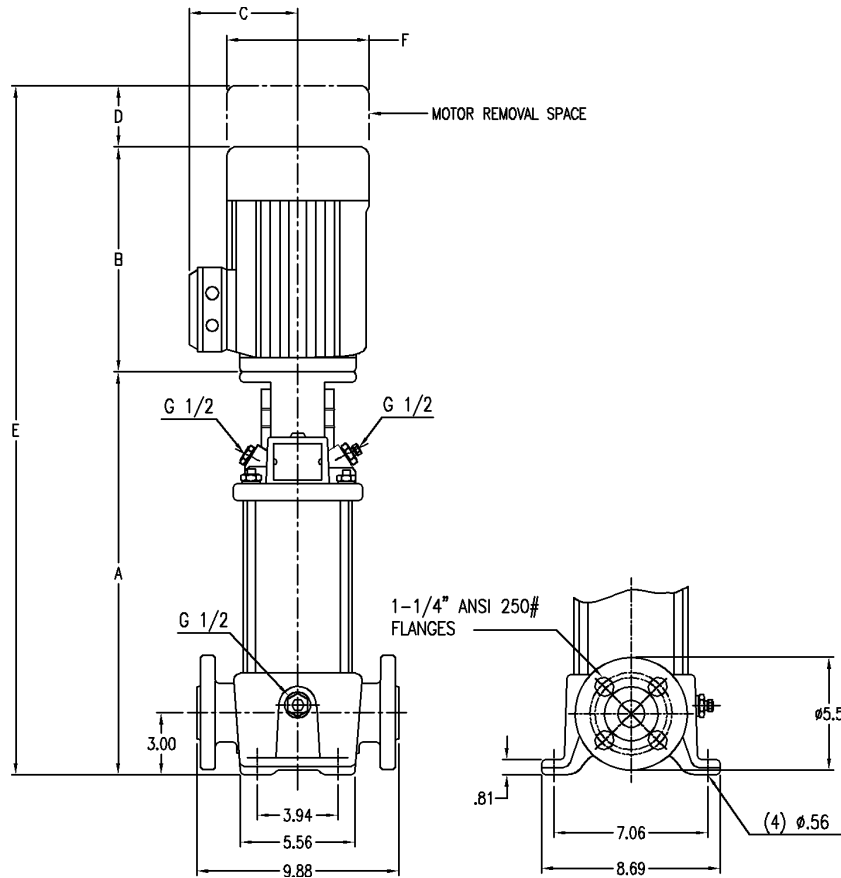
PVMX - 1, 3, 5, 10, 15, 20





Item Number / Tags	: 001 1000 GPM @ 75 PSI, GPA, 480 VAC	Size	: PVM(X)1-9
Service	:	Stages	: 9
Quantity	: 1	Speed, rated	: 3500 rpm
Quote number	: FJ25958	Based on curve number	: PVM(X)1-9
Date last saved	: 13 May 2026 1:02 PM	Efficiency	: 52.43 %
Flow, rated	: 10.00 USgpm	Power, rated	: 0.99 hp
Differential head / pressure, rated	: 85.00 psi	NPSH required	: 16.08 ft
Fluid density, rated / max	: 0.999 / 0.999 SG	Viscosity	: 1.00 cP
		Cq/Ch/Ce/Cn [ANSI/HI 1.1-1.5-1994]	: 1.00 / 1.00 / 1.00 / 1.00 / 1.34

General Arrangement



A	B	C	D	E	F
15.50	10.40	7.20	2.10	28.00	7.20

NOTES:

All dimensions are in inches.

Dimensions may vary $\pm 1/4$ " (6mm) due to normal manufacturing tolerances

-
-

Pump Data

Model	PVM1-9
Stages	9
Flow	10.00 USgpm
Head	85.00 psi
Rotation	Right Hand
Suc/Disch Size	0.00 in
Connection Suc/Disch	1.25" ANSI 250# flg w/ 1.25" NPT female

Motor Data

Power	1.00 hp
Phase	3
Frequency	60 Hz
Voltage	230/460
Speed	3500
Frame Size	56CZ
Efficiency	premium
Enclosure	TEFC

Pump Materials of Construction

Pump Material	Cast Iron
Elastomer	-

Estimated Weights

Pump	100.0 lb
Motor	0.00 lb

Additional Options

Quote Information

Customer	GPM United, Inc.
Customer Quote	2940377
Job Name	Miami Lakes Garage
Market	-



Quote Item	001 1000 GPM @ 75 P
Quote Date	13 May 2026



TORNATECH

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

**Technical Data
Submittal Document**

GPx Series

**Full Service
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.



November 2025



WARNING

**IMPROPER DRILLING CAN CREATE A POTENTIAL ARC FLASH
HAZARD AND RENDER THE EQUIPMENT INOPERABLE:
PLEASE READ ENTIRE LETTER BELOW**

Subject: Advised location of entry for electrical connections (normal power, alternative power, motor leads, alarm wiring, etc.) into a fire pump controller

To Whom It May Concern:

This letter hereby confirms that Tornatech always recommends bottom entry for electrical connections and highly discourages top entry penetration. Tornatech controllers are supplied with gland plates for bottom entry of normal power, alternate power, and motor leads. All efforts must be made by the installing contractor to utilize the gland plates for incoming electrical connections.

If utilizing the gland plate is not possible, the next viable solution is to enter the enclosure from the bottom side or back walls within the first 12 inches of the enclosure. If this method is used, a NEMA 4 (watertight) hub **MUST** be installed. If a NEMA 4 (watertight) hub is not installed, the Tornatech commissioning agent has the authority to refuse to commission the fire pump controller until the appropriate equipment is installed.

Furthermore, the installer is hereby cautioned that penetration into the top of electrical equipment could result in metal shavings falling onto the internal electrical components and PC boards. Top penetration could also allow water infiltration if the correct watertight hub is not used. Any moisture or a single metal shaving will put the internal components at risk of shorting out, making the affected fire protection equipment inoperable, and could cause an arc flash hazard. **An arc flash hazard is a danger to any personnel operating the equipment.** Top entry could also compromise the UL/NEMA rating of the enclosure and void the manufacturer's warranty.

Tornatech Inc.
4100 Desserte Sud, (A-440 Ouest)
Laval, Québec, Canada H7T 0H3

Tel: +1 514 334 0523



Top entry of the electrical connections is **NOT** recommended and as mentioned above can void the manufacturer's warranty. **If top entry is the only solution, the following procedure MUST be applied:**

- 1.) When drilling into the enclosure, make sure that all internal components are protected with a cover so that absolutely no debris falls into or on the components. When possible, it is recommended to use a hole punch to make the opening as it will minimize the debris produced.
- 2.) Drilling oil should **NOT** be used when drilling into the enclosure.
- 3.) A NEMA 4 (watertight) hub **MUST** be used so that no water can get into the enclosure.
- 4.) Clear the bottom of the controller of all drilling debris.

Failure to follow the above procedure, or any evidence seen by the Tornatech commissioning agent suggesting that the above procedure was not followed, can result in refusal to commission the equipment, a voided manufacturer's warranty, or both.

Please contact us if you require any further explanation or assistance in this matter.

Sincerely,

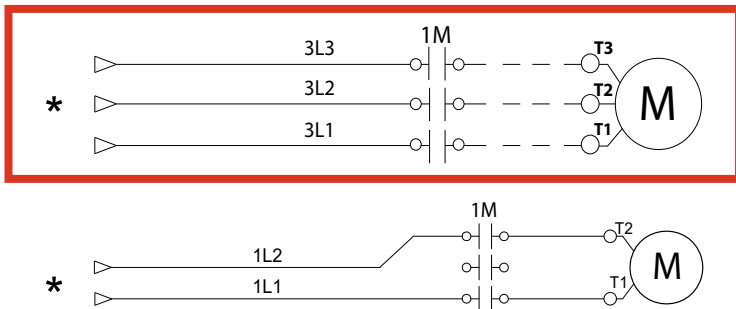
Martin Tomasic
Director of Sales
Office/Mobile: +1.513.307.6766
Martint@tornatech.com

Sebastien Desormeaux
Customer service Director
Office: +1.514.334.0523 / +1.800.363.8448
Mobile: +1.514.816.9898
Sebastiend@tornatech.com

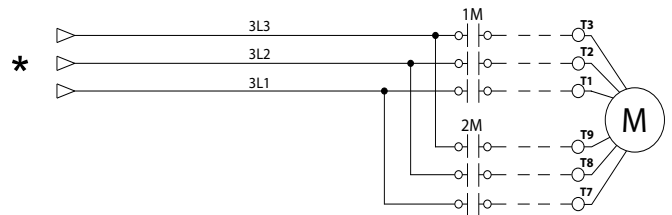


Select starting method

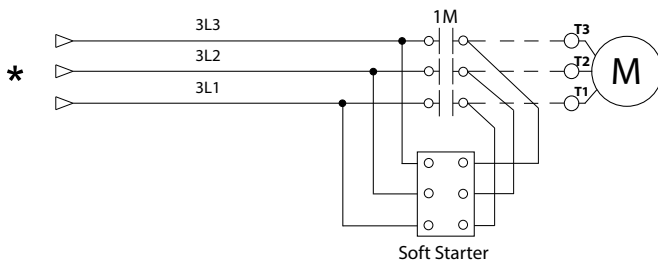
Model GPA Across the line



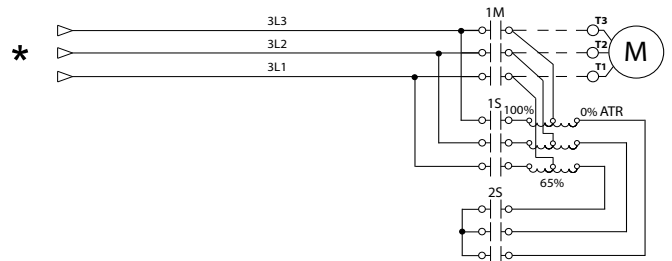
Model GPP Partwinding



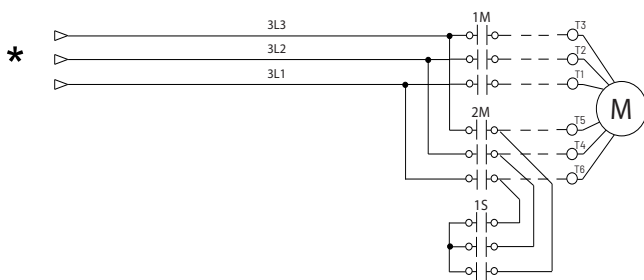
Model GPS Soft Start Soft Stop



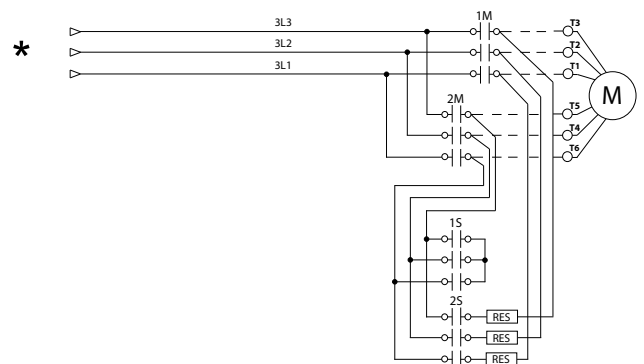
Model GPR Autotransformer



Model GPY Wye-Delta Open



Model GPW Wye-Delta Closed



*From normal incoming power through Disconnecting Means (IS/CB)

*Please see Disconnecting Means details on page 4

Select voltage and power rating

Voltage	Select Voltage	HP	Select HP
120V/1ph/60Hz ¹		5	
200V/1ph/60Hz ¹		7.5	
208V/1ph/60Hz ¹		10	
220V/1ph/60Hz ¹		15	
230V/1ph/60Hz ¹		20	
240V/1ph/60Hz ¹		25	
200V/3ph/50-60Hz ³		30	
208V/3ph/50-60Hz ³		40	
220V/3ph/50-60Hz ⁴		50	
230V/3ph/50-60Hz ⁴		60	
240V/3ph/50-60Hz ⁴		75	
380V/3ph/50-60Hz ⁵		100	
400V/3ph/50-60Hz ⁵		125	
415V/3ph/50-60Hz ⁵		150	
440V/3ph/50-60Hz ⁶		200	
460V/3ph/50-60Hz ⁶		250	
480V/3ph/50-60Hz ⁶		300	
575V/3ph/60Hz ⁶		350	
600V/3ph/60Hz ⁶		400	
		450	
		500	

Voltage	Select Voltage	kW ²	Select kW
380V/3ph/50-60Hz		4	
400V/3ph/50-60Hz		5.5	
415V/3ph/50-60Hz		7.5	
		11	
		15	
		18.5	
		22	
		30	
		37	
		45	
		55	
		75	
		90	
		110	
		132	
		160	
		200	
		250	
		315	
		355	
		400	
		450	

Notes: ¹ Only available for Model GPA. Maximum power rating is 30HP.

² kW power ratings only available for Models GPA, GPS and GPY.

³ Maximum power rating is 200HP.

⁴ Maximum power rating is 250HP.

⁵ Maximum power rating is 450HP.

⁶ Maximum power rating is 500HP.



Standard, Listings, Approvals and Certifications	Built to NFPA 20		
	Underwriters Laboratory (UL)	UL218 - Fire Pump Controllers	
	FM Global	Class 1321/1323	
	New York City	Accepted for use in the City of New York by the Department of Buildings	
	CE Mark	Various EN, IEC & CEE directives and standards	
	Built in Canada or U.A.E		Built in Europe
	CE Mark Option		Supplied as Standard
Enclosure	Protection Rating		
	Built in Canada or U.A.E		Built in Europe
	Standard: NEMA 2		Standard: IP55
	Optional		
	NEMA 12	NEMA 4X-304 sst painted	IP54
	NEMA 3	NEMA 4X-304 sst brushed finish	IP55
	NEMA 3R	NEMA 4X-316 sst painted	IP65
	NEMA 4	NEMA 4X-316 sst brushed finish	IP66
	Accessories • Bottom entry gland plate • Lifting Lugs • Keylock handle		
	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish		

Short Circuit Withstand Ratings															
HP	200V to 208V 50/60Hz/3ph			220V to 240V 50/60Hz/3ph			380V to 415V 50/60Hz/3ph			440V to 480V 50/60Hz/3ph			575V to 600V 60Hz/3ph		
	Standard	Inter-mediate	High	Standard	Inter-mediate	High	Standard	Inter-mediate	High	Standard	Inter-mediate	High	Standard	Inter-mediate	High
		Option D13	Option D13B		Option D13	Option D13B		Option D13	Option D13B		Option D13	Option D13B		Option D13	Option D13B
≤150	100kA	150kA	200kA	100kA	150kA	200kA	100kA	150kA	200kA	100kA	150kA	200kA	50kA	100kA	-
200	50kA	100kA	-												
250	-	-	-	50kA	100kA	-									
300	-	-	-	-	-	-		100kA	-						
350	-	-	-	-	-	-			-						
400	-	-	-	-	-	-	50kA		-						
450	-	-	-	-	-	-	30kA	-	50kA	100kA	-				
500	-	-	-	-	-	-		-			-				



Ambient Temperature Rating	Standard: 4°C to 40°C / 39°F to 104°F Optional: 4°C to 55°C / 39°F to 131°F Controllers built in Dubai, UAE (Tornatech FZE) are supplied standard with 55°C rating.
Surge Suppression	Surge arrestor rated to suppress surges above line voltage
Disconnecting Means	- Isolating switch and circuit breaker assembly: - Door interlocked in the ON position - Isolating switch rated not less than 115% of motor full load current - Circuit breaker continuous rating not less than 115% of motor full load current - Overcurrent sensing non-thermal type, magnetic only - Instantaneous trip setting of not more than 20 times the motor full load current - Common flange mounted operating handle
Service Entrance Rating	Suitable as service entrance equipment (not applicable for installations in Canada).
Emergency Start Handle	- Flange mounted - Integrated limit switch - Pull and latch activation - Across the line start (direct on line)
Locked Rotor Protector	- Operate shunt trip to open circuit breaker - Factory set at 600% of motor full load current - Trip between 8 and 20 seconds
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 are stored in memory for the life of the controller. - Data viewable on operator interface display screen - Downloadable by USB port to external memory device or wireless connection to manufacturers App (mobile device).
Pressure Sensing	- Pressure transducer and run test solenoid valve assembly for fresh water application - Pressure sensing line connection 1/2" Female NPT - Drain connection 3/8" - Rated for 0-500PSI working pressure (standard display at 0-300PSI) - Externally mounted with protective cover



Audible Alarm	Alarm buzzer - 85dB at 3 meters		
Visual Indications	• Power available • Motor run • Periodic test • Manual start	• Deluge valve start • Remote automatic start • Remote manual start • Emergency start	• Pump on demand/Automatic start • Pump room temperature (°F or °C) • Lockout
Visual & Audible Alarms	Visual • Control voltage not healthy • Invalid cut-in • Lock rotor current • Loss of power • Low ambient temperature • Low water level • Motor trouble • Phase reversal (normal power) Visual and audible • Fail to start Overcurrent • Overcurrent • Overvoltage • Phase loss L1 • Phase loss L2 • Phase loss L3 • Phase unbalanced • Pressure transducer fault detected Pump on demand • Pump on demand • Pump room alarm • Service required • Undercurrent • Undervoltage • Check weekly test solenoid • Weekly test cut-in reached		
Remote Alarm Contacts	DPDT-8A-250V.AC • Power available • Phase reversal • Motor run • Common pump room alarm (field re-assignable)** • Overvoltage • Undervoltage • Phase unbalance • Low pump room temperature • High Pump room temperature • Common motor trouble (field re-assignable)** • Overcurrent • Fail to start • Undercurrent • Ground fault • Free (field programmable)**		

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



ViZiTouch V2.1 Operator Interface	• Embedded microcomputer with software PLC logic • 7.0" color touch screen (HMI technology) • Upgradable software • Multi-language		
Communication Protocol Capability	• Protocol: Modbus • Connection type: Shielded female connector RJ45 • Frame Format: TCP/IP • Addresses: See bulletin MOD-GPx		
Operation	Automatic Start	• Start on pressure drop • Remote start signal from automatic device • Deluge valve start	
	Manual Start	• Start pushbutton • Run test pushbutton • Remote start from manual device	
	Stopping	• Manual with Stop pushbutton • Automatic after expiration of minimum run timer ***	
	Timers	Field Adjustable & Visual Countdown	• Minimum run timer ***(off delay) • Sequential start timer (on delay) • Periodic test timer
	Actuation	Visual Indication	• Pressure • Non-pressure
	Mode		• Automatic • Non-automatic

***Can only be used if approved by the AHJ



A4	Flow switch provision
A8	Foam pump application w/o pressure transducer and run test solenoid valve.
A9	Low zone pump control function
A10	Middle zone pump control function
A11	High zone pump control function
A13	Non-pressure actuated controller w/o pressure transducer and run test solenoid valve
A16	Lockout/interlock circuit from equipment installed inside the pump room
B11	Built in alarm panel (120V.AC supervisory power) providing indication for: • Audible alarm & silence pushbutton for motor run, phase reversal, loss of phase. • Pilot lights for loss of phase & supervisory power available
B11B	Built in alarm panel same as B11 but 220-240VAC supervisory power
B19A	High motor temperature c/w thermostat relay and alarm contacts (DPDT)
B19B	High motor temperature c/w PT100 relay and alarm contacts (DPDT)
B21	Ground fault alarm detection c/w visual indication and alarm contact (DPDT)
B25	Digital flow test feature complete with access to Pump Curve menu, display of flow rate on main screen and 25ft cable (Option ONLY suitable for connection with Tornatech digital flow meter)
C1	Extra motor run alarm contact (DPDT)
C4	Periodic test alarm contact (DPDT)
C6	Low discharge pressure alarm contact (DPDT)
C7	Low pump room temperature alarm contact (DPDT)
C10	Low water reservoir level alarm contact (DPDT)
C11	High electric motor temperature alarm contact (DPDT)
C12	High electric motor vibration c/w visual indication and alarm contact (DPDT)
C14	Pump on demand / automatic start alarm contact (DPDT)
C15	Pump fail to start alarm contact (DPDT)
C16	Control voltage healthy alarm contact (DPDT)

C17	Flow meter valve loop open c/w visual indication and alarm contact (DPDT)
C18	High water reservoir level c/w visual indication and alarm contact (DPDT)
C19	Emergency start alarm contact (DPDT)
C20	Manual start alarm contact (DPDT)
C21	Deluge valve start alarm contact (DPDT)
C22	Remote automatic start alarm contact (DPDT)
C23	Remote manual start alarm contact (DPDT)
C24	High pump room temperature alarm contact (DPDT)
C25	Second set of standard alarm contacts (DPDT) (Typical for city of Los Angeles and Denver)
Cx	Additional visual and alarm contact (Specify function) (DPDT)
D1	Low suction pressure transducer for fresh water rated at 0-500PSI with visual indication and alarm contact
D1A	Low suction pressure transducer for sea water rated at 0-500PSI with visual indication and alarm contact
D5	Pressure transducer and run test solenoid valve for fresh water rated for 0-500PSI (for factory calibration purposes only)
D5D	Pressure transducer and run test solenoid valve for sea water rated for 0-500PSI
D10	Omit mounting feet (when applicable)
D14	Anti-condensation heater & thermostat
D14A	Anti-condensation heater & humidistat
D14B	Anti-condensation heater & thermostat & humidistat
D15	Tropicalization
D18	CE Mark with factory certificate
D27	Motor heater connection (external single phase power source and heater on/off contact)
D27A	Motor heater connection (internal single phase power source and heater on/off contact)
D28	Customized drawing set

*For fire pump controller section only.

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.



D34A	Field programmable I/O board - 5 Input / 5 output
D36	Redundant pressure transducer for fresh water rated for 0-500PSI
D36A	Redundant pressure transducer for sea water rated for 0-500PSI
D43	Seismic Certification compliant to CBC 2019, IBC 2018 rigid base/wall mounted only
D44	Special Seismic Certification compliant to OSHPD rigid base/wall mounted only

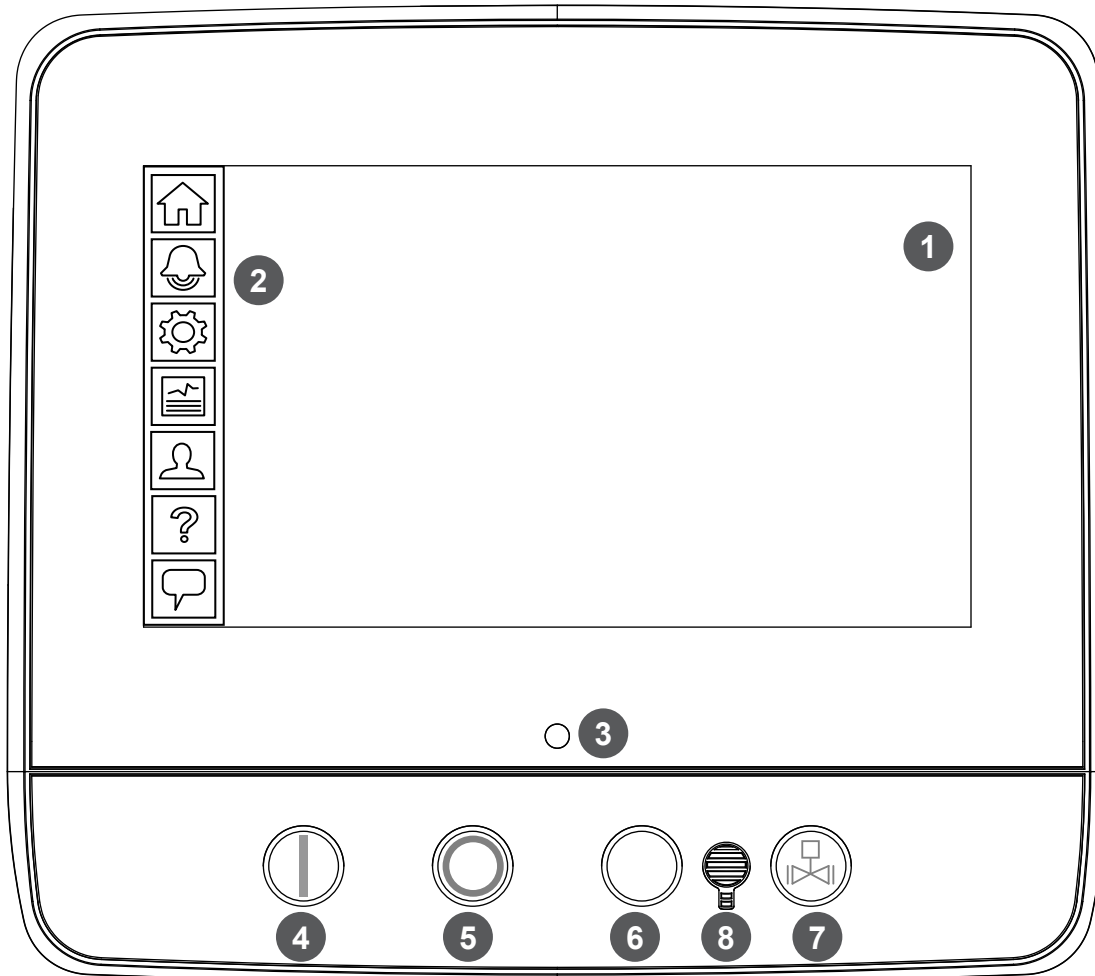
L01	Other language and English (bilingual)
L02	French
L03	Spanish
L04	German
L05	Italian
L06	Polish
L07	Romanian
L08	Hungarian
L09	Slovakian
L10	Croatian
L11	Czech
L12	Portuguese
L13	Dutch
L15	Turkish
L16	Swedish
L21	Danish
L25	Chinese
L28	Finnish
L29	Norwegian

Additional Options:

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.



ViZiTouch V2.1 Operator Interface



1 - Color touch screen

2 - Onscreen menu

- HOME page
- ALARM page
- CONFIGURATION page
- HISTORY page
- SERVICE page
- MANUAL page
- LANGUAGES page

3 - Power LED (3 colors)

4 - START button

5 - STOP button

6 - Not Used

7 - RUN TEST button

8 - Alarm buzzer

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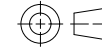
BY DD/MM/YY

DRAWN BY MLC 04/10/24

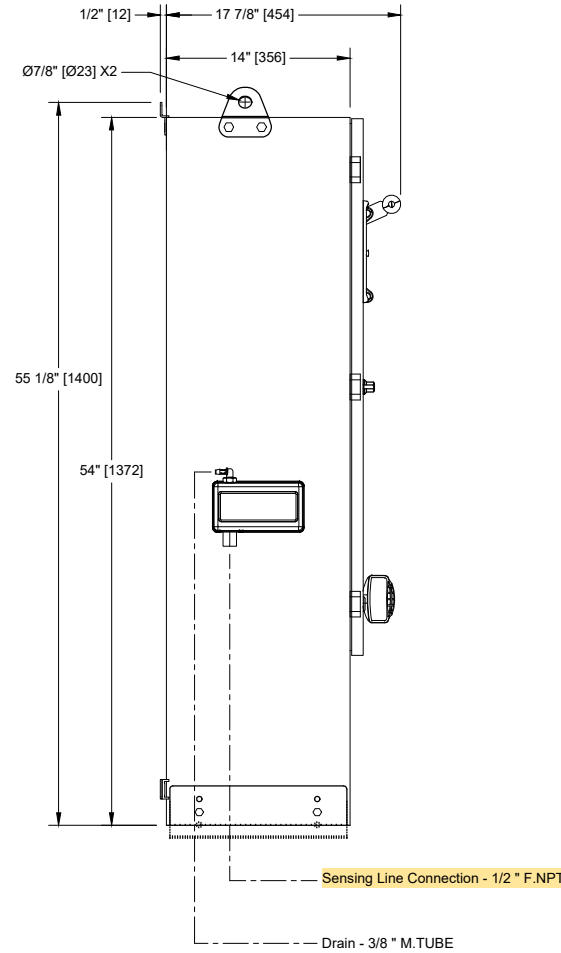
FINAL APPROVAL FC 07/11/24

ELECTRIC FIRE PUMP CONTROLLER**MODEL: GPA/GPP/GPY**

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

THIRD ANGLE
PROJECTION

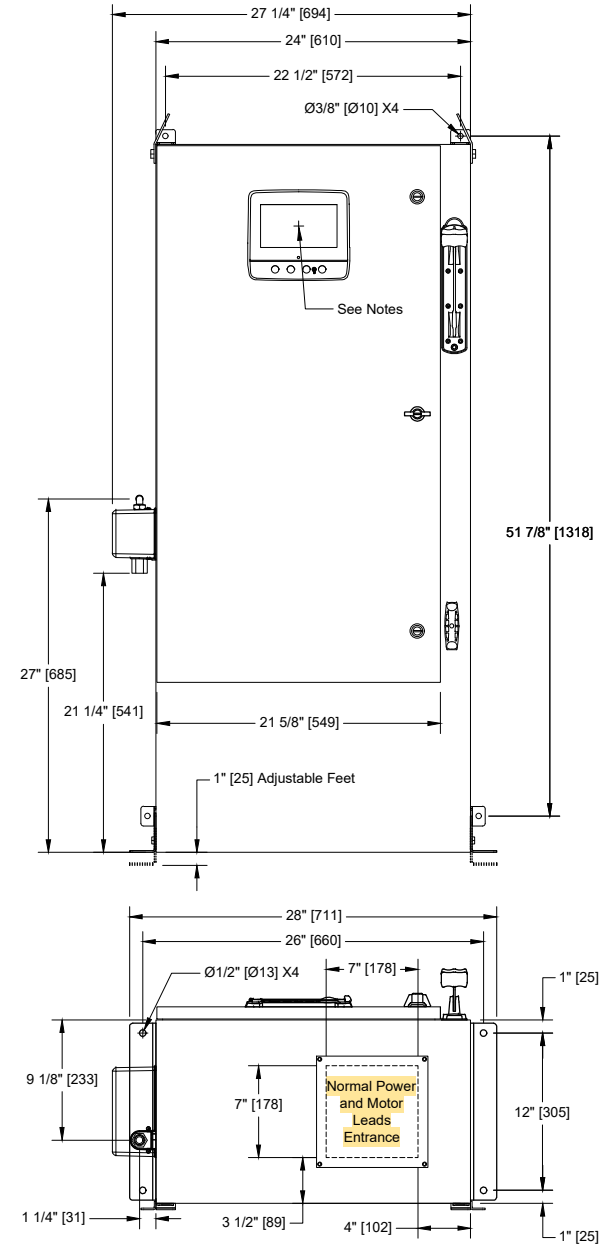
DRAWING NUMBER
GPX-DI920/E
DWG REV. 0
SHEET 1 OF 1

**Voltage / Power Table**

Voltage	Min HP	Max HP
208	40	60
220 - 240	40	75
380 - 400 - 415	75	125
440 - 480	75	150
600	100	150

Notes:

- Standard: NEMA 2
- Standard paint : textured red RAL 3002.
- All dimensions are in inches [millimeters].
- Center of screen: 47-5/8" [1208] from bottom.
- Bottom conduit entrance through removable gland plate recommended.
- Use watertight conduit and connector only.
- Protect equipment against drilling chips.
- Door swing equal to door width.





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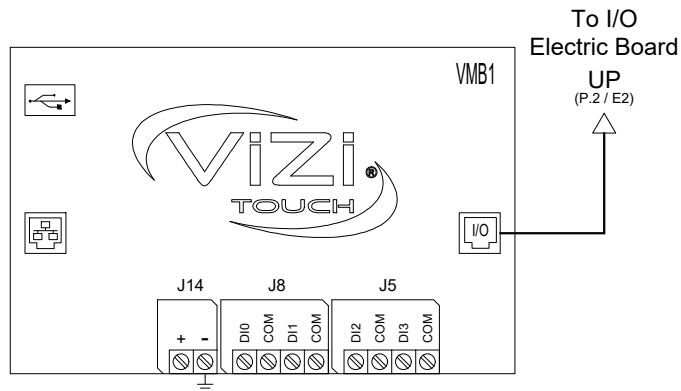
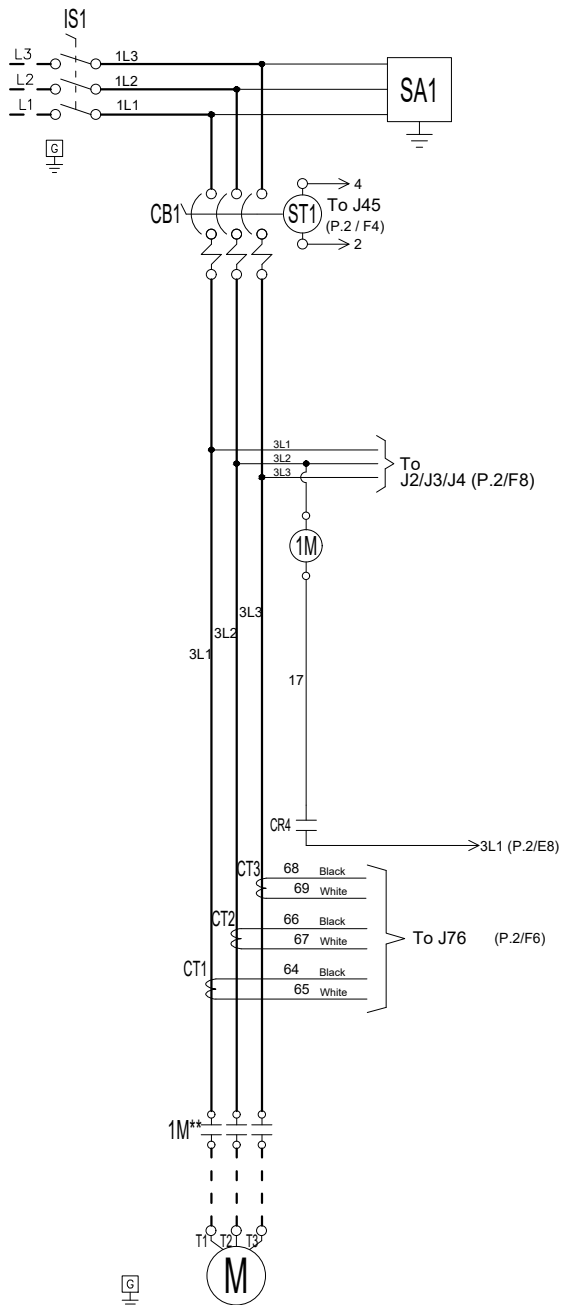
ELECTRIC FIRE PUMP CONTROLLER FULL VOLTAGE / ACROSS THE LINE

MODEL:GPA

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPA-WS800/E
DWG REV. 0
SHEET 1 OF 2



Legend	
1M	Contactor
AB	Alarm Bell
CB	Circuit Breaker
CR	Control Relay
CT	Current Transformer
EB	Electric I/O Board
IS	Isolating Switch
J	Jumper
LS	Limit Switch
PT	Pressure Transducer
SA	Surge Arrester
ST	Shunt Trip
SV	Solenoid Valve
VMB	Main Board
XTR	Transformer

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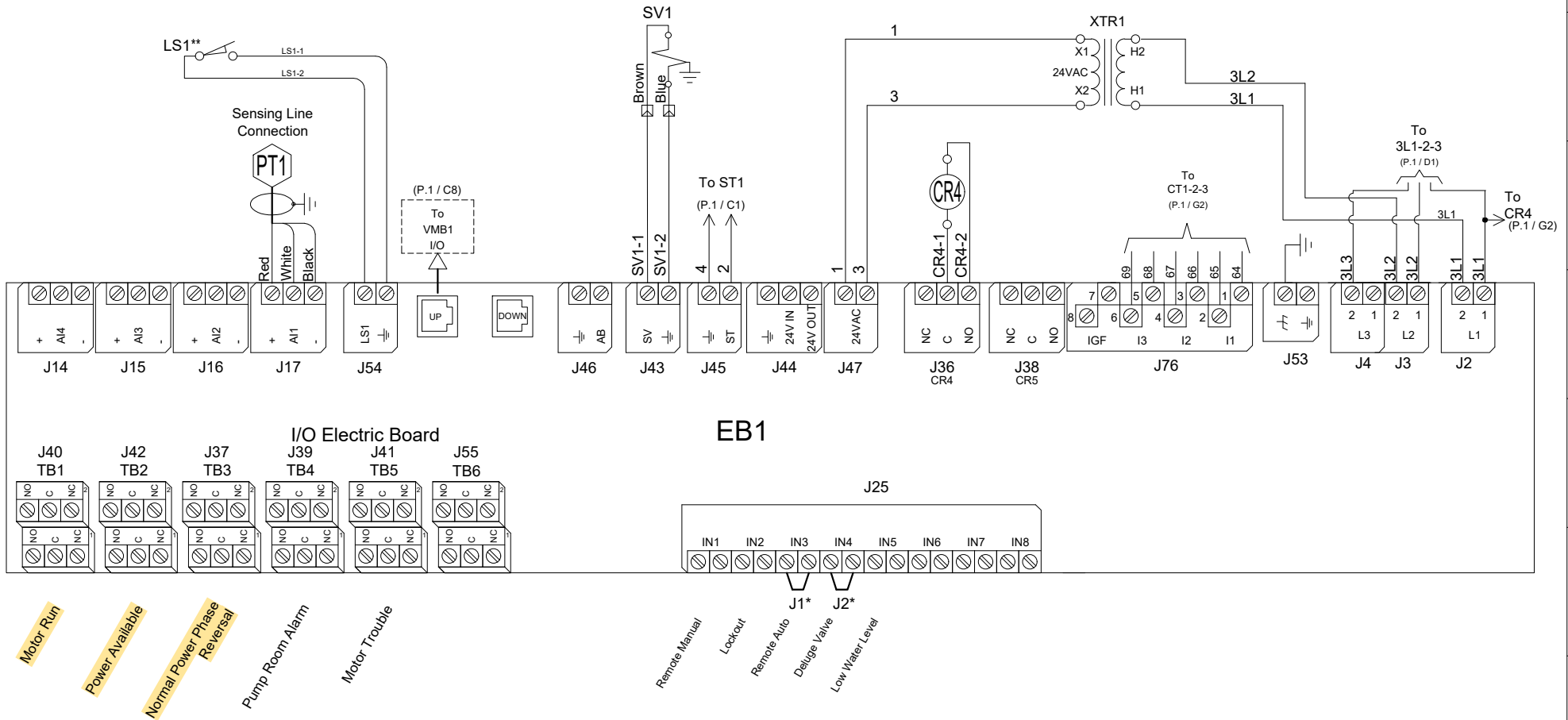
BY DD/MM/YY

DRAWN BY ACD 28/02/23

FINAL APPROVAL FC 28/02/23

**ELECTRIC FIRE PUMP CONTROLLER
FULL VOLTAGE / ACROSS THE LINE****MODEL:GPA**

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

DRAWING NUMBER
GPA-WS800/E
DWG REV. 0
SHEET 2 OF 2

* Remove jumper to use this feature

** Contact closes when emergency start is in "ON" position



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ELECTRIC FIRE PUMP CONTROLLER

MODEL:GPX

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPX-TD907/E
DWG REV. 0
SHEET 1 OF 1

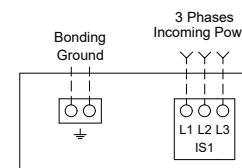
COPPER CONDUCTORS for Isolating Switch (IS1).

Field Wiring According to Bending Space (AWG or MCM). **Terminals L1 - L2 - L3**

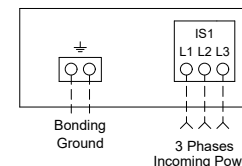
Bending Space	5 " (127 mm)							8 " (203 mm)		
HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)
220 to 240	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 1/0)
440 to 480	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)
600	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)

Bending Space	12 " (305 mm)				16 " (406 mm)***						
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	2x (1/0 to 500)	2x (2/0 to 500)	2x (4/0 to 500)	2x (250 to 500)	3x (4/0 to 500)	-----	-----	-----	-----	-----	-----
220 to 240	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (350 to 500)	3x (250 to 500)	-----	-----	-----	-----	-----
380 to 416	1x (1/0 to 250)	1x (3/0 to 250)	1x (250)	1x (300 to 500)	1x (500)	2x (4/0 to 500)	2x (300 to 500)	3x (4/0 to 500)	3x (250 to 500)	4x (3/0 to 500)	-----
440 to 480	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	1x (4/0 to 250)	1x (350 to 500)	1x (500)	2x (4/0 to 500)	2x (300 to 500)	3x (3/0 to 500)	3x (4/0 to 500)	3x (250 to 500)
600	1x (3 to 1/0)	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	1x (250 to 500)	1x (350 to 500)	1x (500)	2x (4/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (350 to 500)
Bending Space	5 " (127 mm)				8 " (203 mm)				12 " (305 mm)		

Power Terminals



***Only for 16"(406 mm) bending space



ALUMINUM CONDUCTORS for Isolating Switch (IS1).***

Field Wiring According to Bending Space (AWG or MCM). **Terminals L1 - L2 - L3**

Bending Space	5 " (127 mm)							8 " (203 mm)		10 " (254 mm)
HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 1/0)	1x (1/0)	1x (3/0)	1x (4/0 to 250)	1x (300) ** or 1x (250) 90°C *
220 to 240	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	1x (2/0 to 3/0)	1x (3/0) 90°C *	1x (250)
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	1x (1/0)
440 to 480	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)
600	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)

Bending Space	12 " (305 mm)				16 " (406 mm)***						
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	2x (2/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	3x (300 to 500)	-----	-----	-----	-----	-----	-----
220 to 240	1x (350) ** N/A	2x (3/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (500)	3x (400 to 500)	-----	-----	-----	-----	-----
380 to 416	1x (3/0 to 250)	1x (250)	Consult Factory	1x (500)	Consult Factory	2x (300 to 500)	2x (500)	3x (300 to 500)	3x (350 to 500)	3x (400 to 500)	-----
440 to 480	1x (1/0 to 250)	1x (3/0 to 250)	1x (250)	1x (250) 90°C *	1x (500)	Consult Factory	2x (300 to 500)	2x (400 to 500)	3x (250 to 500)	3x (300 to 500)	3x (350 to 500)
600	1x (1 to 1/0)	1x (2/0 to 250)	1x (4/0 to 250)	1x (4/0 to 250)	1x (350 to 500)	1x (500)	Consult Factory	2x (300 to 500)	2x (350 to 500)	2x (400 to 500)	2x (500)
Bending Space	5 " (127 mm)				8 " (203 mm)				12 " (305 mm)		

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.

**Consult Factory

*** Aluminum is not permitted in Canada.

Notes:

- 1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- 2 - Controller suitable for use as service equipment in USA.
- 3 - Controller use as service equipment prohibited in Canada.
- 4 - For more accurate motor connections refer to motor manufacturer or motor nameplate.
- 5 - Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

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



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FINAL APPROVAL FC 07/11/24

ELECTRIC FIRE PUMP CONTROLLER

MODEL: GPA

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPX-TD901/E
DWG REV. 0
SHEET 1 OF 1

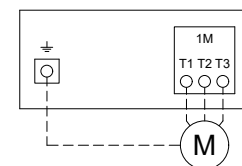
COPPER CONDUCTORS for Motor Connection (1M).

Field Wiring According to Bending Space (AWG or MCM). **Terminals T1 - T2 - T3**

HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (4 to 2)	1x (3 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (3/0)	1x (4/0 to 300)
220 to 240	1x (10 to 2)	1x (10 to 2)	1x (8 to 2)	1x (6 to 2)	1x (4 to 2)	1x (4 to 2/0)	1x (3 to 2/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0)
380 to 416	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 4)	1x (4 to 2)	1x (3 to 2)	1x (1 to 2/0)
440 to 480	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 4)	1x (4 to 2)	1x (3 to 2/0)
600	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 2)	1x (4 to 2/0)

HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (300)	2x (2/0 to 300)	2x (4/0 to 300)	2x (250 to 300)	2x (400 to 600)	-----	-----	-----	-----	-----	-----
220 to 240	1x (250 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (350 to 500)	2x (500 to 600)	-----	-----	-----	-----	-----
380 to 416	1x (1/0 to 3/0)	1x (3/0)	1x (250 to 300)	1x (300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300 to 600)	2x (400 to 600)	2x (500 to 600)	2x (600)	-----
440 to 480	1x (1 to 2/0)	1x (2/0 to 3/0)	1x (3/0 to 300)	1x (4/0 to 300)	2x (1/0 to 300)	2x (3/0 to 300)	2x (4/0 to 600)	2x (300 to 600)	2x (350 to 600)	2x (400 to 600)	2x (500 to 600)
600	1x (3 to 2/0)	1x (1 to 3/0)	1x (2/0 to 300)	1x (3/0 to 300)	2x (1 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 600)	2x (250 to 600)	2x (300 to 600)	2x (350 to 600)

Motor Terminals



Model: GPA

ALUMINUM CONDUCTORS for Contactor (1M).***

Field Wiring According to Bending Space (AWG or MCM). **Terminals T1 - T2 - T3**

HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (3 to 2/0) **	1x (1 to 2/0) **	1x (1/0 to 2/0) **	1x (2/0) 90°C *	Consult Factory	1x (300)
220 to 240	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (3 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0) **	1x (2/0)	1x (3/0) 90°C *	Consult Factory
380 to 416	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0) **	1x (1/0 to 2/0)
440 to 480	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0)
600	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0)

HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (300) 90°C *	2x (4/0 to 300)	2x (300)	2x (300) 90°C *	2x (600)	-----	-----	-----	-----	-----	-----
220 to 240	1x (300) 90°C *	2x (3/0 to 300)	2x (250 to 300)	2x (300)	2x (500)	2x (600)	-----	-----	-----	-----	-----
380 to 416	1x (3/0)	Consult Factory	1x (300) 90°C *	Consult Factory	2x (4/0 to 300)	2x (300)	2x (500 to 600)	2x (600)	2x (600) 90°C *	2x (600) 90°C *	-----
440 to 480	1x (1/0 to 2/0)	1x (3/0)	1x (250 to 300)	1x (300)	2x (3/0 to 300)	2x (250 to 300)	2x (300 to 600)	2x (400 to 600)	2x (500 to 600)	2x (600) 90°C *	2x (600) 90°C *
600	1x (1 to 2/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (4/0 to 300)	2x (1/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300 to 600)	2x (350 to 600)	2x (400 to 600)	2x (500 to 600)

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.

** Option V659 required.

*** Aluminum is not permitted in Canada.

Notes:

- 1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- 2 - Controller suitable for use as service equipment in USA.
- 3 - Controller use as service equipment prohibited in Canada.
- 4 - For more accurate motor connections refer to motor manufacturer or motor nameplate.
- 5 - Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

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DRAWN BY ACD 18/12/23

FINAL APPROVAL FC 19/12/23

ELECTRIC FIRE PUMP CONTROLLER

MODEL:GPX

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

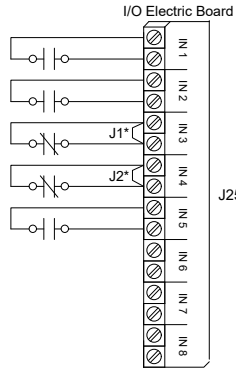


DRAWING NUMBER
GPX-TD803/E
DWG REV. 0
SHEET 1 OF 1

Field Connections

Terminals Wire Size:
24 - 12 AWG
0.5 Nm

Remote Manual
Lockout
Remote Auto
Deluge Valve
Low Water Level



Network Connections

Terminals Wire Size:
Shielded Female Connector RJ45

Modbus TCP/IP RJ45

Located on Main Board



Alarm Contacts

Terminals Wire Size:
24 - 12 AWG
0.5 Nm

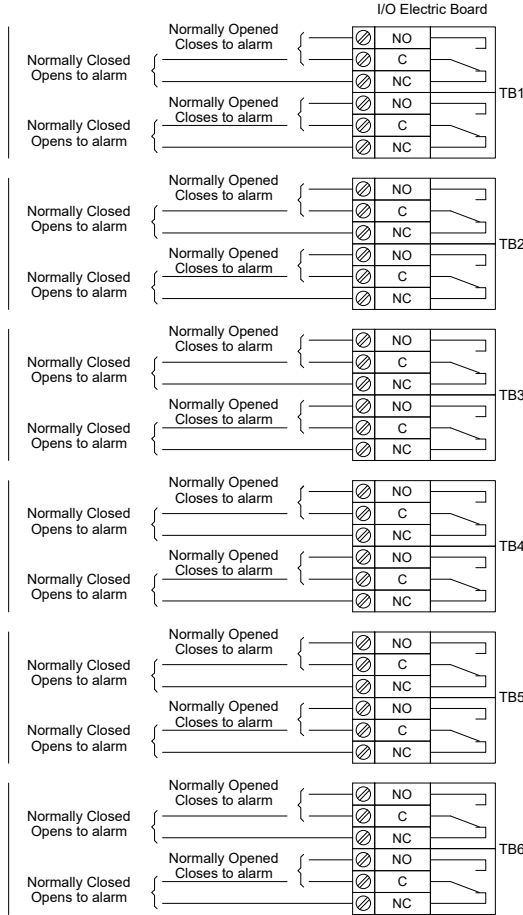
Motor Run
Power Available
Normal Power Phase Reversal

Normal Power Phase Reversal

Pump Room Alarm**

Motor Trouble**

(Field Programmable***)



* Remove jumper to use this feature
** Re-assignable
*** Not available on GPS models



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BY DD/MM/YY

DRAWN BY ACD 21/11/24

FINAL APPROVAL FC 21/11/24

ELECTRIC FIRE PUMP CONTROLLER MOTOR CONNECTIONS

MODEL: GPA/GPR/GPS

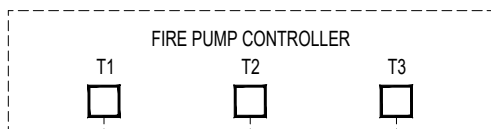
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GPX-MC001/E

DWG REV. 2

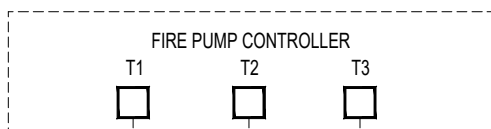
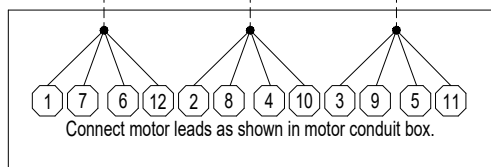
SHEET 1 OF 1

IMPORTANT : - NFPA 20-2022 Art. 9.5.3.2 :

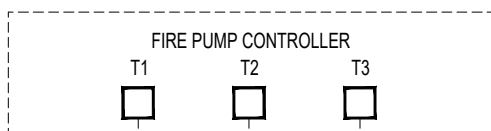
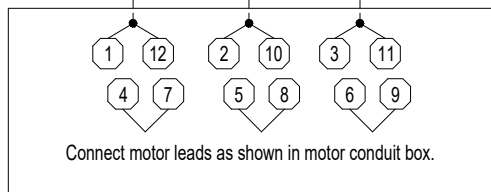
A MOTOR TERMINAL CONNECTING DIAGRAM FOR MULTIPLE LEAD MOTORS SHALL BE FURNISHED BY THE MOTOR MANUFACTURER.



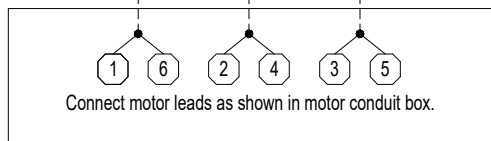
12 LEADS MOTOR
FOR DUAL VOLTAGE MOTOR
OPERATING ON THE LOWER
OF THE TWO VOLTAGES



12 LEADS MOTOR
FOR DUAL VOLTAGE MOTOR
OPERATING ON THE HIGHER
OF THE TWO VOLTAGES



6 LEADS MOTOR
FOR DELTA CONNECTION



**Tornatech Inc. ASSUMES NO
LIABILITY FOR INCORRECT WIRING
OF THE MOTOR TO THE
CONTROLLER**

WARNING :

- THIS DRAWING IS FOR GENERAL INFORMATION.
- CONSULT MOTOR MANUFACTURER BEFORE CONNECTING TO CONTROLLER.
- CONNECT MOTOR LEADS AS SHOWN IN MOTOR CONDUIT BOX



TORNATECH

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

Technical Data Submittal Document

Model JPLT

Across the Line Start
Jockey 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.



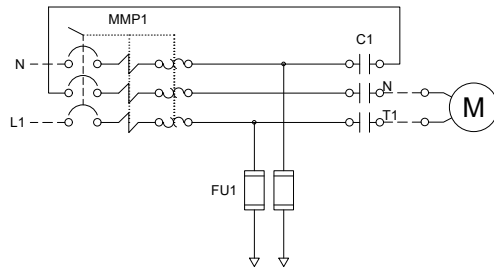
N.Y.C.
APPROVED



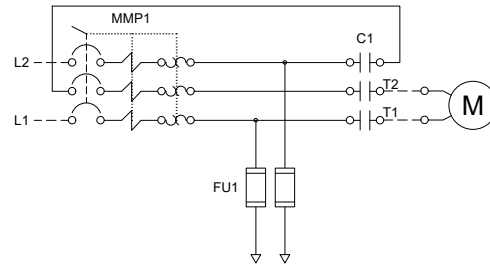
February 2026

Select Incoming Voltage

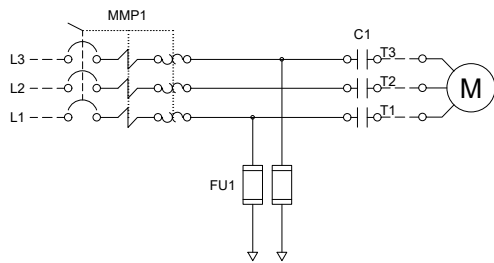
110-120V/1Phase



200-240V/1Phase



200-600V/3Phase



N.Y.C.
APPROVED





Select voltage and power rating

Voltage	Select Voltage	HP	Select HP
120V/1ph/60Hz ¹		0.25	
200V/1ph/60Hz ²		0.33	
208V/1ph/60Hz ²		0.5	
220V/1ph/50-60Hz ²		0.75	
230V/1ph/50-60Hz ²		1	
240V/1ph/50-60Hz ²		1.5	
200V/3ph/50-60Hz ³		2	
208V/3ph/50-60Hz ³		3	
220V/3ph/50-60Hz ⁴		4	
230V/3ph/50-60Hz ⁴		5	
240V/3ph/50-60Hz ⁴		7.5	
380V/3ph/50-60Hz ⁵		10	
400V/3ph/50-60Hz ⁵		15	
415V/3ph/50-60Hz ⁵		20	
440V/3ph/60Hz ⁶		25	
460V/3ph/60Hz ⁶			
480V/3ph/60Hz ⁶			
575V/3ph/60Hz ⁷			
600V/3ph/60Hz ⁷			

Notes: ¹ Maximum power rating is 5HP.

² Maximum power rating is 10HP.

³ Maximum power rating is 7.5HP.

⁴ Maximum power rating is 10HP.

⁵ Maximum power rating is 15HP.

⁶ Maximum power rating is 20HP.

⁷ Maximum power rating is 25HP.

Listing	Underwriters Laboratory (UL)	UL508A - Industrial Pump Controllers	
	New York City	Accepted for use in the City of New York by the Department of Buildings	
	Optional		
	CE Mark	Various EN, IEC & CEE directives and standards	
Enclosure	Protection Rating		
	Standard: NEMA 2		
	Optional		
	NEMA 12	NEMA 4X-304 sst painted	
	NEMA 3	NEMA 4X-304 sst brushed finish	
	NEMA 3R	NEMA 4X-316 sst painted	
	NEMA 4	NEMA 4X-316 sst brushed finish	
Accessories		Paint Specifications	
• Wall mounting lugs (x4)		• Red RAL3002 • Powder coating • Glossy textured finish	



Short circuit current rating

	Voltage						
	Single Phase		Three Phase				
HP	110 - 120V	200 - 240V	200 - 208V	220 - 240V	380 - 415V	440 - 480V	600V
0.25	65kA	65kA	65kA	65kA	65kA	65kA	10kA
0.5	65kA	65kA	65kA	65kA	65kA	65kA	10kA
0.75	42kA	65kA	65kA	65kA	65kA	65kA	10kA
1	42kA	65kA	65kA	65kA	65kA	65kA	10kA
1.5	42kA	65kA	65kA	65kA	65kA	65kA	10kA
2	42kA	65kA	65kA	65kA	65kA	65kA	10kA
3	CF	42kA	65kA	65kA	65kA	65kA	10kA
4	CF	42kA	42kA	42kA	65kA	65kA	10kA
5	CF	42kA	42kA	42kA	65kA	65kA	10kA
5.5	CF	CF	42kA	42kA	65kA	65kA	10kA
7.5	CF	CF	42kA	42kA	42kA	65kA	10kA
10	CF	CF	CF	42kA	42kA	42kA	10kA
15	CF	CF	CF	CF	42kA	42kA	5kA
20	CF	CF	CF	CF	CF	42kA	5kA
25	CF	CF	CF	CF	CF	CF	5kA



Fuseless Motor Starter	• Type -F fuse-less magnetic motor starter • Rotary handle, padlockable • Door interlocked		
Control Circuit	• 24V.AC		
ViZiLT Operator Interface	• High luminosity alphanumeric digital display • HAND-OFF-AUTO pushbuttons • MENU navigation pushbuttons		
Pressure Sensing	• Pressure transducer for fresh water application 316 stainless steel construction • Rated for 0-600psi working pressure • Pressure sensing line connection 1/2" brass Male NPT		
Visual Indications	• H-O-A position • System pressure • Cut-out and Cut-In pressure setting • Manual motor run • Automatic motor run • Motor overload (occured) • Pump start counter • Elapsed time meter (hours / non-resettable)		
Timers	• Minimum run timer (off delay) • Delay start timer (on delay) • Visual countdown		
Counters	• Pump start counter • Elapsed timer meter (hours / non-resettable)		
Operators	• Main disconnect handle • HAND-OFF-AUTO pushbuttons • MENU navigation pushbuttons		
Operation	Automatic Start	Start on pressure drop	
	Manual Start	Start pushbutton	
	Stopping	Stop pushbutton	
	Timers	Field adjustable & visual countdown	• Minimum run timer (off delay) • Delay start timer (on delay)

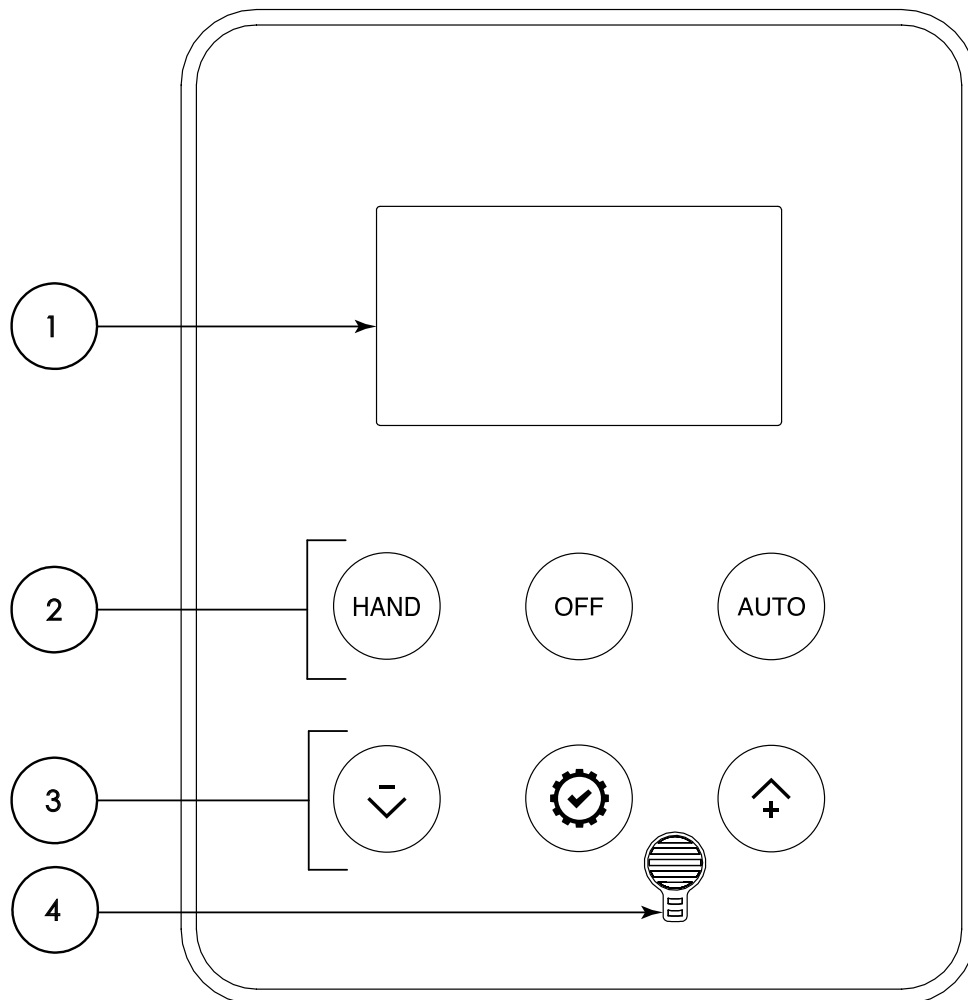


A5	Motor run alarm contact
A6	Loss of power alarm contact
A7	Overload or short circuit alarm contact
D11D	Pressure transducer 0-600psi with ½" MNPT 316 stainless steel bushing
D13A	Externally mounted wetted parts
D18	Audible alarm
D19	Anti-condensation heater and thermostat
D20	Anti-condensation heater and humidistat
D21	Tropicalization
D22	Phase reversal / failure pilot light and alarm contact
D23	Controller power healthy pilot light and alarm contact
D24	Pump failure via current sensing relay with pilot light and dry alarm contact
D25	Low zone pump control function
D26	Mid zone pump control function
D27	High zone pump control function
D28	Controller in AUTO alarm contacts
D29	Controller not in AUTO alarm contacts
D30	Motor heater circuit
D35	Seismic Certification compliant to CBC 2019, IBC 2018 rigid base/wall mounted only
D36	Special Seismic Certification compliant to OSHPD rigid base/wall mounted only
D37	100kA high short circuit withstand rating for 200V to 600V

L01	Other language and English (bilingual)
L02	French
L03	Spanish
L04	German
L05	Italian
L06	Polish
L07	Romanian
L08	Hungarian
L09	Slovakian
L10	Croatian
L11	Czech
L12	Portuguese
L13	Dutch
L15	Turkish
L16	Swedish
L21	Danish
L28	Finnish
L29	Norwegian

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

ViZiLT Operator Interface



- 1 - High luminosity alphanumeric digital display
- 2 - HAND-OFF-AUTO pushbuttons
- 3 - MENU navigation pushbuttons
- 4 - Audible Alarm



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BY DD/MM/YY

DRAWN BY ACD 15/05/23

FINAL APPROVAL FC 15/05/23

JOCKEY PUMP CONTROLLER

MODEL: JPLT

BUILT TO THE LATEST EDITION OF THE UL 508A



NYC
Dpt of Building
Approved

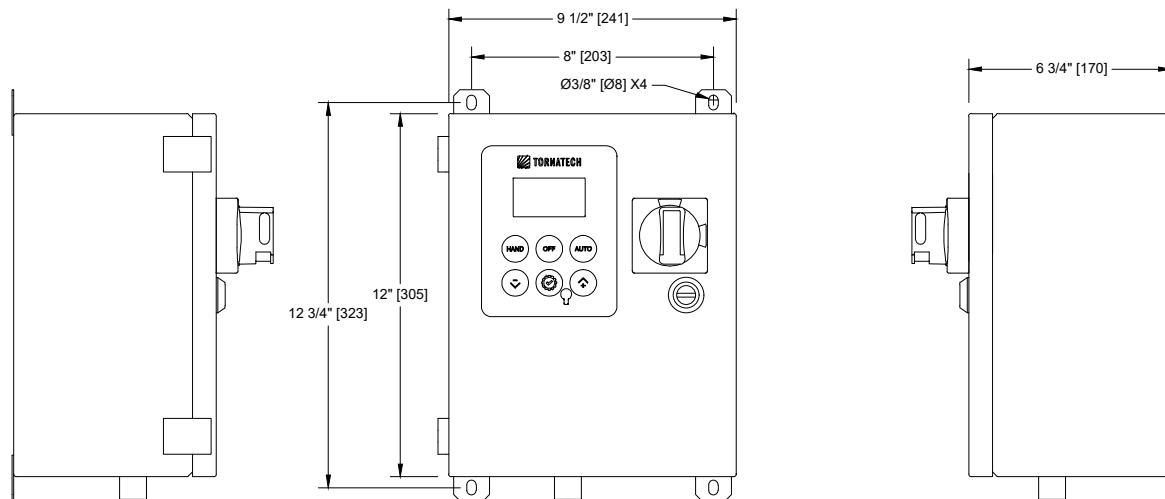


THIRD ANGLE
PROJECTION

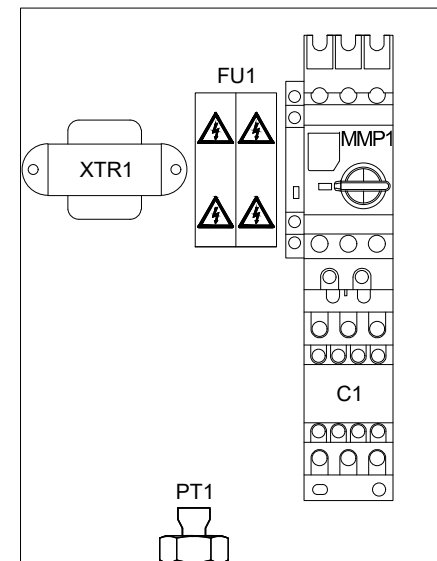
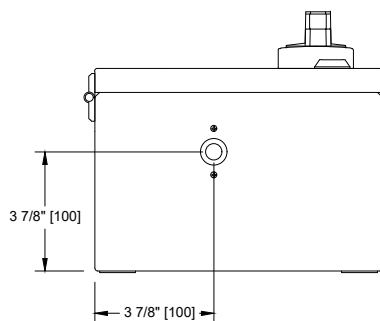
DRAWING NUMBER
JPLT-DI001/E

DWG REV. 0

SHEET 1 OF 1



Sensing Line Connection 1/2 " M.NPT



Standard Internal Layout

Voltage / Power Table

Voltage	Max HP
1 Phase	
110 - 120	2
200 - 208	5
220 - 240	5
3 Phases	
200 - 208	7.5
220 - 240	10
380 - 400 - 415	15
440 - 480	20
600	25

Notes:

- Standard NEMA: NEMA 2
- Standard Paint: Textured Red RAL 3002.
- All Dimensions are in Inches [Millimeters]
- Use Watertight Conduit and Connector Only.
- Protect Equipment Against Drilling Chips.
- Door Swing Equal to Door Width

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.

*Dimensions may change depending on option required. Consult Factory for exact dimensions.

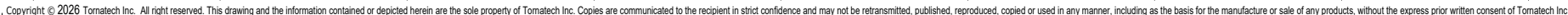


	BY	DD/MM/YY
DRAWN BY	ACD	15/05/23
FINAL APPROVAL	FC	15/05/23

MODEL: JPLT

BUILT TO THE LATEST EDITION OF THE UL 508A

DRAWING NUMBER	JPLT-WS003 / E
DWG REV. 1	
SHEET 1 OF 1	





TORNATECH

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BY DD/MM/YY

DRAWN BY ACD 15/05/23

FINAL APPROVAL FC 15/05/23

JOCKEY PUMP CONTROLLER ACROSS THE LINE / 3 PHASES

MODEL: JPLT

BUILT TO THE LATEST EDITION OF THE UL 508A



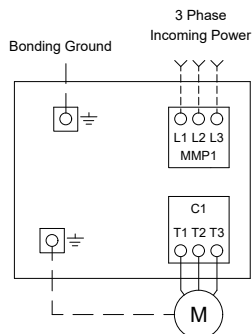
NYC
Dpt of Building
Approved

DRAWING NUMBER
JPLT-TD003/E

DWG REV. 0

SHEET 1 OF 1

Power Connections and Motor Connections



Line Terminals (L1,L2,L3,GND)

Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
7.5HP	10HP	15HP	20HP	25HP	#14 AWG - #8 AWG	2.5 Nm	#14 AWG - #2 AWG

Motor Terminals (T1,T2,T3,GND)

Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
3HP	4HP	5.5HP	7.5HP	10HP	#14 AWG - #10 AWG	1.7 Nm	#14 AWG - #2 AWG
7.5HP	10HP	15HP	20HP	25HP	#14 AWG - #8 AWG	2.5 Nm	#12 AWG - #2 AWG