



SPECIFICATIONS FOR
MODEL JPD DUPLEX
JOCKEY PUMP CONTROLLER
MICRO PROCESSOR BASED

DUPLEX JOCKEY PUMP CONTROLLER

The duplex jockey pump controller shall be a model JPD as manufactured by Tornatech and rated for:

_____ V. / _____ HP / _____ phase / _____ Hz.

APPROVAL AND LISTINGS

The jockey pump controller shall meet the requirements of UL508A, and by the City of New York.

ENCLOSURE RATING

The standard enclosure shall be NEMA 2

OPERATIONAL COMPONENTS

The duplex jockey pump controller shall be supplied with the following door mounted components approved to match the NEMA rating of the enclosure.

- Main disconnect switch complete with door interlock and padlock provision in the OFF position
- P1- Auto – P2 selector switch for manual or automatic alternation

The following control components shall be mounted inside the controller:

- Magnetic across-the-line motor contactor HP rated for each pump
- Thermo magnetic motor protector complete with short circuit and motor overload protection for each pump
- Electrical alternation device for automatic alternation of the pumps

MICRO PROCESSOR LOGIC

The jockey pump controller shall be supplied with a micro processor to perform the automatic sequence of operation. The micro processor shall be mounted inside the duplex jockey pump controller and have a front door mounted solid state operator interface which shall display the following:

- System Pressure
- Cut-In pressure setting
- Cut-out pressure setting
- Minimum Run Period Timer
- Sequential Start Timer

The operator interface shall have OFF-AUTO, Start and Stop pushbuttons and LED visual indication for:

- Manual motor run
- Automatic motor run
- System pressure above stop pressure setting
- System pressure in-between start and stop pressure setting
- System pressure below start pressure setting

The system pressure indication shall be continuously displayed. The micro processor shall allow the system pressure, cut-out and cut-in settings to be displayed in either Psi, Bar, kPA, meter of head or feet of head.



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PRESSURE SENSING DEVICE

The jockey pump controller shall be supplied with a 304 stainless steel pressure transducer rated for fresh water operational between 0 and 300psi. The pressure transducer shall be used to display the pressure in the sprinkler system and also control the automatic start circuit. The pressure transducer shall be installed inside the controller directly mounted to a bulkhead allowing for an external connection to the sprinkler system sensing line.

STANDARD OPTIONS

The jockey pump controller shall be supplied with the following options.

- Elapsed time meter
- MOTOR RUN alarm contact
- LOSS OF POWER alarm contact
- OVERLOAD or SHORT CIRCUIT alarm contact
- OVERLOAD red pilot light
- NEMA 12 enclosure
- NEMA 3R enclosure
- NEMA 4 enclosure
- NEMA 4X 304 stainless steel enclosure
- NEMA 4X 316 stainless steel enclosure
- Pressure transducer 316 stainless steel rated for 0-600psi
- CE listing c/w externally mounted wetted parts
- Externally mounted wetted parts
- Export packaging
- French labels
- Spanish Labels
- Labeling in language other than English, French or Spanish
- Audible alarm
- Anti-condensation heater and thermostat
- Anti-condensation heater and humidistat
- Tropicalization
- Phase reversal/failure pilot light and alarm contact
- Control power healthy pilot light and alarm contact
- Pump failure via current sensing relay with pilot light and dry alarm contact
- Low zone pump control function
- Mid zone pump control function
- High zone pump control function
- Controller in AUTO alarm contact
- Controller in OFF or Manual alarm contacts
- Motor heater circuit
- Service entrance rated