



Specification

DRV40R The Brain® Digital Recirculation Valve

Category: The Brain®

Type: Digital Recirculation Valve

Model: DRV40R

1.0 Digital Recirculation Valve (DRV40R)

- 1.1 DRV shall have four thermistors integral of the mixing valve body that measure the cold water inlet, hot water inlet, mixed water outlet, and over-temp safety temperatures.
- 1.2 DRV mixing valve body shall be of 316L stainless steel, mixing valve proportioner of 316L stainless steel, and a NEMA 3S electronics enclosure.
- 1.3 DRV40F shall have 1.5" inlets and outlet connections that will deliver 48 gpm @ 5 psid.
- 1.4 DRV shall be capable of +/- 2°F control during high, low or extended periods of zero system demand with a continuous recirculation of >5 gpm. Temperature control shall be achieved without aquastat-like control of the recirculation pump.
- 1.5 DRV setpoint shall be configured by the factory to customer specification. DRV shall also be field adjustable.

2.0 DRV40R shall have the following operational specifications:

- 2.1 +/- 2°F water temperature control
- 2.2 1°F minimum return differential
- 2.3 Minimum continuous recirculation of 5 gpm
- 2.4 Automatic shutoff of hot water flow upon cold water inlet supply failure
- 2.5 Automatic shutoff of hot water flow in the event of a power failure
- 2.6 Programmable set point range of 81-158°F (27-70°C)
- 2.7 Programmable thermal disinfection mode
- 2.8 Programmable 1st level hi/lo temp alert display
- 2.9 Programmable temperature error level for safety shutdown

3.0 DRV shall have the following connectivity specifications:

- 3.1 SPCO relay outputs which are energized during operation

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- 3.2 LCD display which indicates: set point, delivered temperature, error codes and alarm conditions
- 3.3 MODBUS 485 port for remote set point adjustment and remote operating temperature visibility
- 3.4 RS485 Serial Port for connection to a performance matched hot water monitoring system
- 4.0 DRV shall be certified to ASSE 1017, UL listed, and conform to CSA B125.
- 5.0 Warranty
 - 5.1 DRV shall have a 5-year all components warranty, with exception of batteries and O-rings.
 - 5.2 Pre-piped DMC components shall have a 2-year warranty from date of installation, but not longer than 27 months from date of shipment.

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