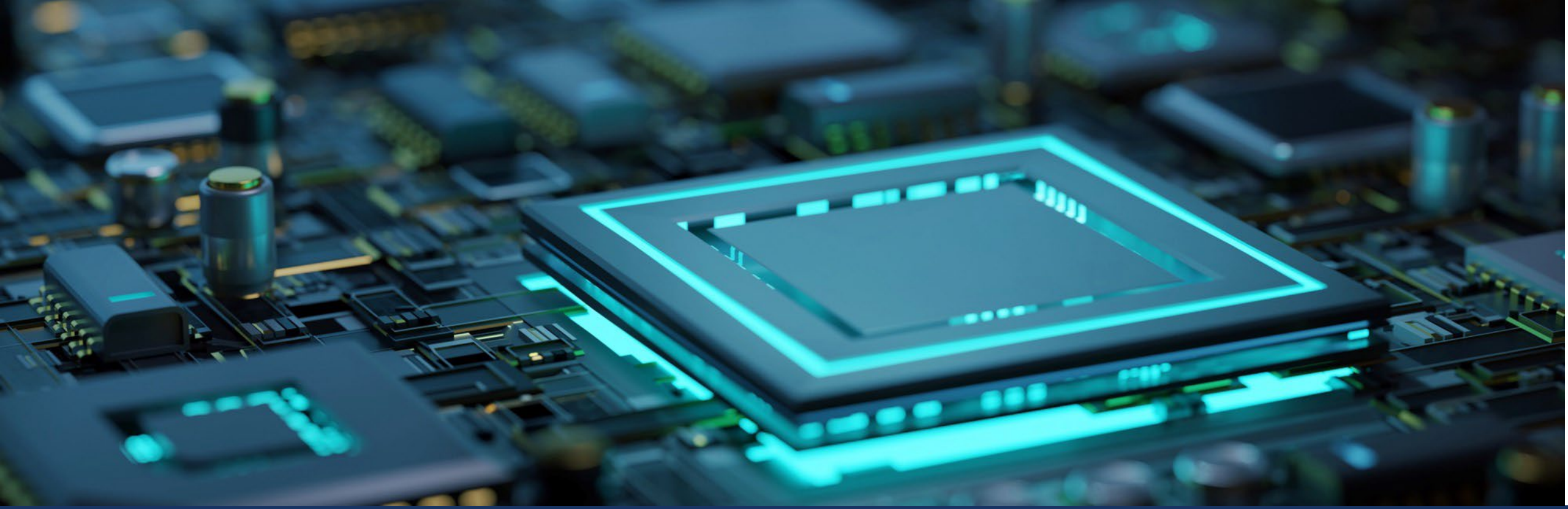


Data Center Cooling – Fluid Control Division

Current and New Product Developments

October 2026

ENGINEERING YOUR SUCCESS.

Parker - Fluid Control Division

Broad Range of Solenoid Valves and Fluid Control Systems

Markets Served:

- Industrial Equipment
- Fuel Dispensing
- Transportation
- Process Control
- HVAC
- Data Center
- Medical
- Power Generation
- Commercial Equipment













Shut-off Valves

- 24F24O6180A3F4C80
  - 1-1/2”
  - Female NPT, BSPP, SAE-ORB
  - 2 Way
  - Diaphragm Offset Pilot
  - Normally Open
  - 316, 430 FR & 300 Series Stainless
  - NBR Seals
  - 1-1/4” Orifice (22.50 Cv)
  - 125psi
  - 5 psi min operating pressure differential
  - Standard Class Coil
  - ½” Conduit w/ 18” leads
  - 24 VDC
  - 11.5 watt



https://ph.parker.com/us/en/product/24-series-general-purpose-solenoid-valves/24f24o6180a3f4c80

- 08F23O6340A3F4C80
  - 1/2”
  - Female NPT
  - 2 Way
  - Direct Lift
  - Normally Open
  - 316, 430 FR & 300 Series Stainlessl
  - EPDM Seals
  - 5/8” Orifice (4.0 Cv)
  - 125psi
  - 0 psi min operating pressure differential
  - Standard Class Coil (NEMA 4,4X)
  - ½” Conduit w/ leads
  - 24 VDC
  - 11.5 watt



https://ph.parker.com/us/en/product/22-23-series-general-purpose-solenoid-valves/08f23o6340a3f4c80

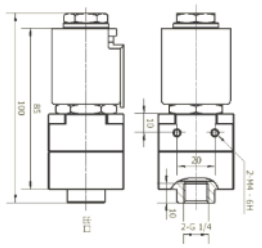
Solenoid Valve – Normally Open

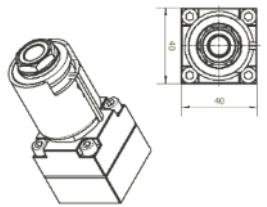
- Normally Open In-Line Coolant Valve
- 300 and 430FR Stainless
- 25 psi Operating Pressure Differential
- 142 psi Proof Pressure
- 22 Watt Coil
- In-Line 1 U Tray Form Factor

Flow Through Center

Solenoid Valve
Normally Open

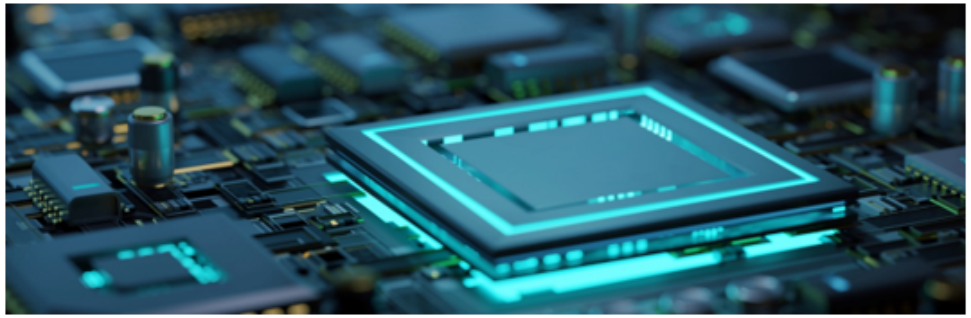






Cooling Shut-Off Valve (In Line)

Data Center Cooling



Data Center Cooling

Product Features :

- High flow coefficient in a compact size
- Compact Size to allow for placement in 1U tray

Key Design Attributes :

- Part Number ..... PENDING
- Valve Function ..... 2-Way Normally Open
- Flow Direction ..... One Direction
- Flow ..... 8.9 LPM
- Media ..... Propylene Glycol | PG25
- Minimum Operating Pressure Differential ..... 0 psig [0.0 BarG]
- Maximum Operating Pressure Differential ..... 32 psig [2.2 BarG]
- Minimum Operating Temperature ..... 14°F [-10°C]
- Maximum Operating Temperature ..... +149°F [+65°C]
- Leakage Rate ..... < 2.0 sCCM
- Solenoid Coil ..... 12 VDC
- Solenoid Coil Power ..... 22 Watts
- Materials of Construction
  - Stainless Steel ..... 300 Series and 430FR
  - Seal Materials ..... EPDM
- Interface :
  - Port Connections ..... G 1/4



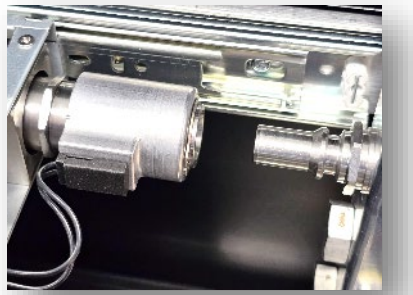
Parker Hannifin Corporation
Fluid Control Division
95 Edgewood Avenue
New Britain, CT 06051
Phone : 860 827 2300

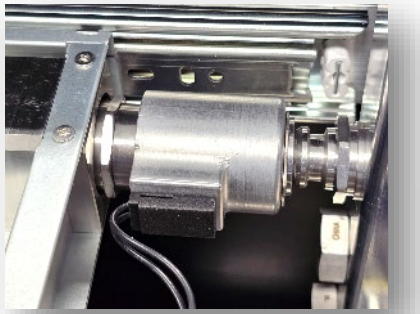
Bulletin 0000 April 2026

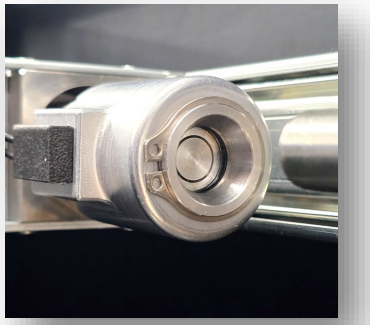
ENGINEERING YOUR SUCCESS

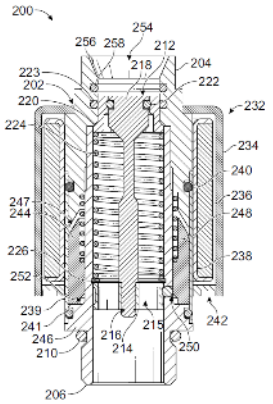
UQDB with Integrated Shut-Off *

- Leverage UQDB
- Same Quick Disconnect Configuration
- Normally “Open” – Full Flow
- Circuit Leak Detected – Fully Closed
- 1U Tray Form Factor for 04 & 06 Sizes
- Electronic Closure Feedback Possible
- Meets OCP UQDB Operating Pressures



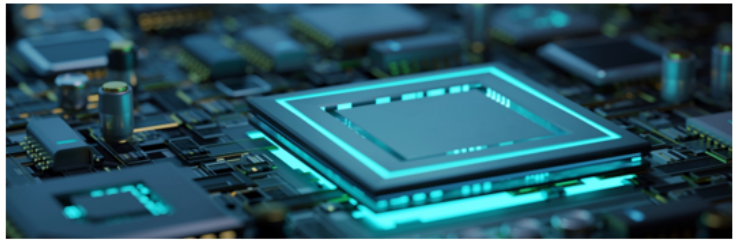






UQDB Socket Shut-Off Valve

Data Center Cooling



Data Center Cooling

Product Features :

- UQDB Socket with Integrated Shut-off
- Server Tray Level Protection

Key Design Attributes :

- Part Number ..... PENDING
- Size ..... UQDB 6 (Other sizes available upon request)
- Valve Function ..... Normally Open
- Flow Direction ..... Both
- Flow Coefficient | C_v 2.2
- Rated Flow (UQDB 6) ..... 3 GPM [11.36 L/min]
- Media ..... Propylene Glycol
- Maximum Operating Pressure ..... 100 psig [6.7 BarG]
- Minimum Operating Temperature ..... 41°F [5°C]
- Maximum Operating Temperature ..... 149°F [65°C]
- Fluid Loss Per Cycle ..... 0.04 mL
- Solenoid Coil ..... 12 VDC
- Solenoid Coil Current Pulse to Shut ..... 5.5 amps for 500msec
- Materials of Construction
  - Stainless Steel ..... 303, 304 and 430FR
  - Seal Materials ..... EPDM
- Interface :
  - Port Connection ..... #10 SAE J1926-1/ISO11926 | 7/8-14 UNF-2B

Designed in the U.S.

Patent Pending

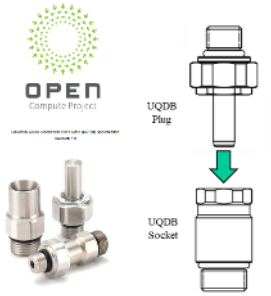




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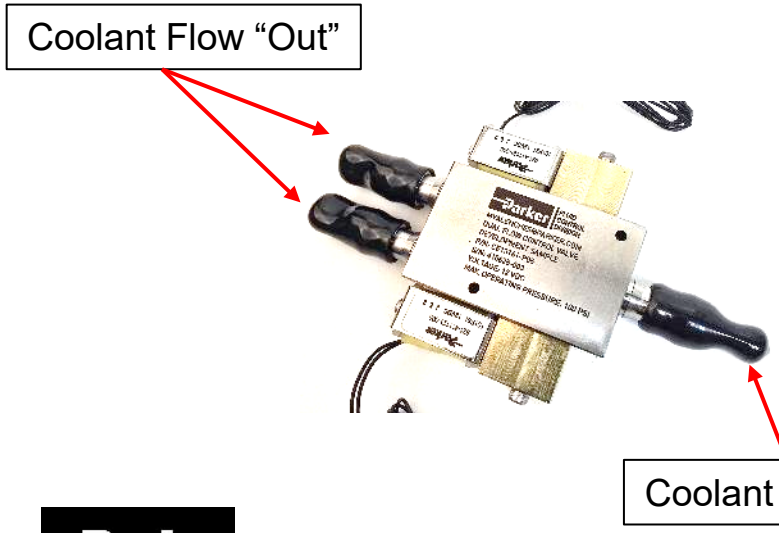
Parker
Universal Quick Disconnect Blind Mate (UQDB)

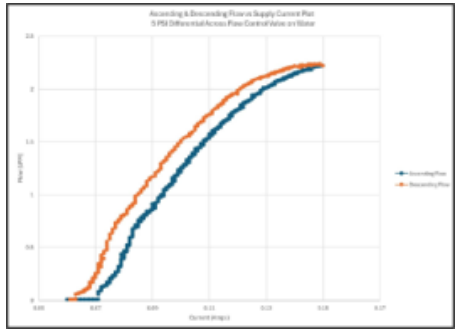
* In Development – Patent Pending

1/2U Proportional Valve*

Product Highlights:

- Normally Closed Proportional Flow Control
- Small Form-Factor
- Cv - .26 (per valve - .125” Orifice Dia.)
- Low Power – 2.2 Watts (Per Valve)
- Current - .18 Amps (Full Open Per Valve)
- Maximum Pressure Differential – 100 PSIG
- 300 psi Proof Pressure



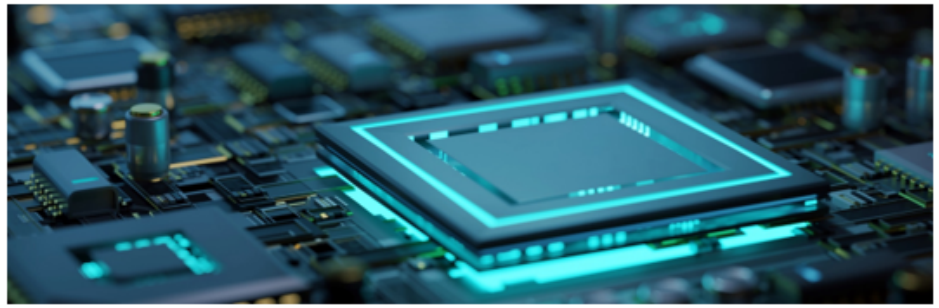


Parker

* In Development

1/2U Flow Control Manifold

Data Center Cooling



Data Center Cooling

Product Features :

- Low Power
- Small Form-factor
- Customizable Manifolds
- Proportional Flow Control

Key Design Attributes :

- Part Number ..... PENDING
- Valve Function ..... Proportional / Normally Closed
- Flow Direction ..... One Direction
- Flow Coefficient (Per Valve) | C_v 0.26
- Media ..... Propylene Glycol
- Maximum Operating Pressure Differential ..... 100 psig [6.7 BarG]
- Minimum Operating Temperature ..... 41°F [5°C]
- Maximum Operating Temperature ..... 131°F [55°C]
- Internal Leak Tightness ..... 5 SCCM Air
- Solenoid Coil ..... 12 VDC
- Solenoid Coil Power ..... 2.2 Watts
- Materials of Construction
  - Stainless Steel 430FR
  - Brass ..... Can be redesigned for all stainless steel
  - Seal Materials ..... FKM
- Interface :
  - Port Connection ..... Customize as Needed

Designed in the U.S.



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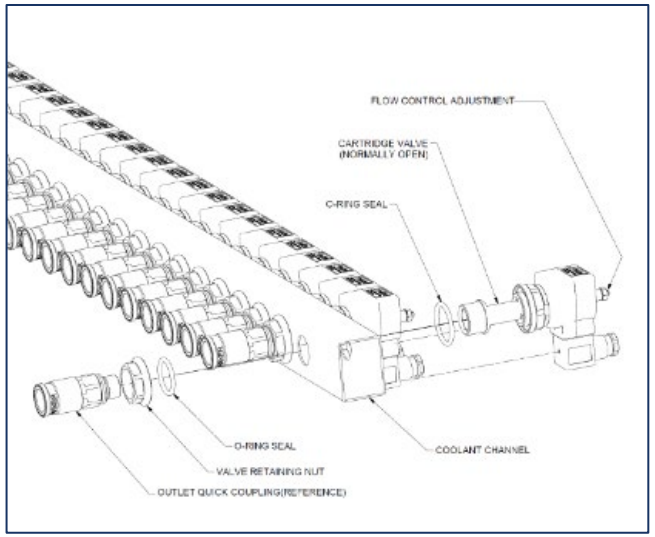
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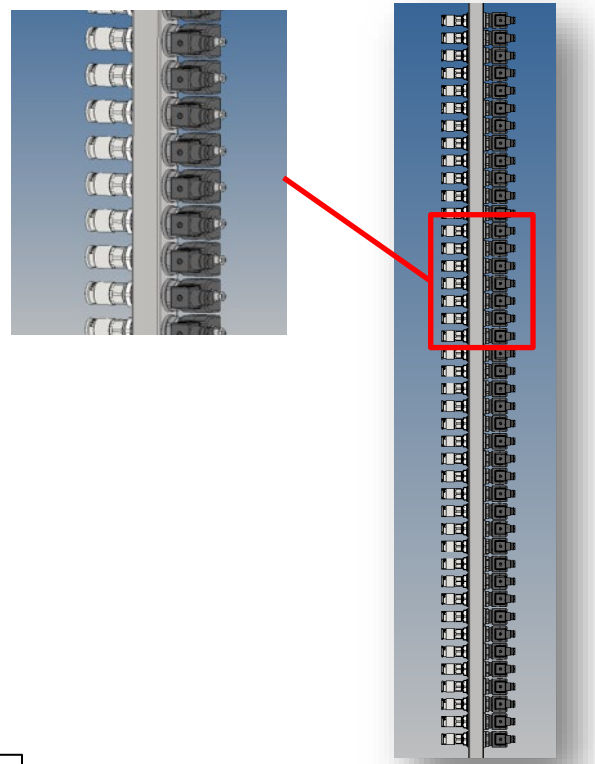
Solenoid Valve

Manifold Mount Shut-off Solenoid Valves*

Product Highlights:

- Easy Valve Mounting – No Welded Boss or Machined Threads in Manifold
- Compact Internal Cartridge Design
- High Flow Capacity: 2.8 Cv (Comparable to UQD 8)
- Versatile Cartridge with Ability to Accommodate:
  - Electronic Flow Control Valve
  - Electronic Shut-off Valve
  - Manual Metering Valve



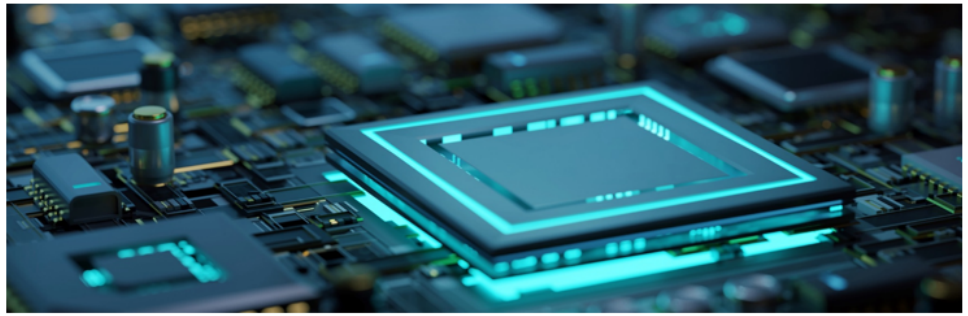


Parker

* In Development – Patent Pending

Manifold Mount Shut-Off Valve

Data Center Cooling



Data Center Cooling

Product Features :

- Manifold Mount Shut-Off Valve
- Server Tray Level Protection

Key Design Attributes :

- Part Number 13643-P01
- Valve Function ..... Normally Open
- Flow Direction ..... Unidirectional
- Flow Coefficient | C_V ..... Infinitely Adjustable 0 to 2.85 Cv
- Rated Flow (UQD-6) ..... 0 to 3.0 GPM [0 to 11.4 LPM]
- Media Compatibility ..... Propylene Glycol / H20 Blend(25 to 100%)
- Maximum Operating Pressure ..... 150 psig [10.3 BarG]
- Minimum Operating Temperature ..... -40°F [-40°C]
- Maximum Operating Temperature ..... 300°F [150°C]
- Solenoid Coil Voltage ..... 12 VDC
- Solenoid Coil Wattage ..... 10 Watts
- Solenoid Coil Connection ..... DIN 43650
- Solenoid Coil Response Time ..... <20 m-s
- Pressure Drop ..... Refer to Cv
- Materials of Construction
  - Stainless Steel ..... 303, 304 and 430FR
  - Seal Materials ..... EPDM
- Interface :
  - Port Connection ..... SAE-J1926-1, Dash 8(3/4-16 UNF-2B)
  - Manifold Mount ..... Parker Proprietary
- Other Options :
  - Alternate Voltages
  - Alternate Outlet Porting
  - Accommodation for Alternate Supply Manifold Size
  - Non-Metering Option
  - Two-Way Normally Closed Option

Designed in the U.S.

Patent Pending



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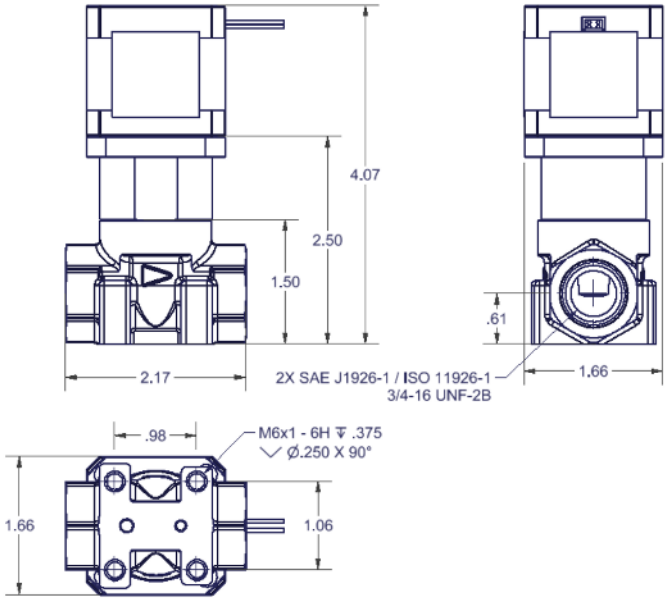
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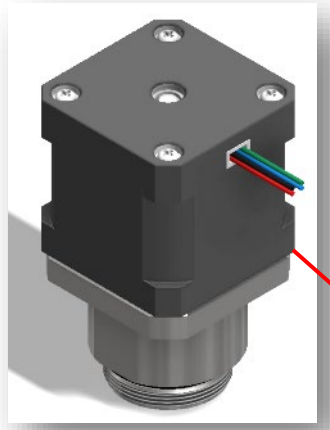
Stepper Flow Control Valve*

Manifold Mount Shut-off Solenoid Valves*

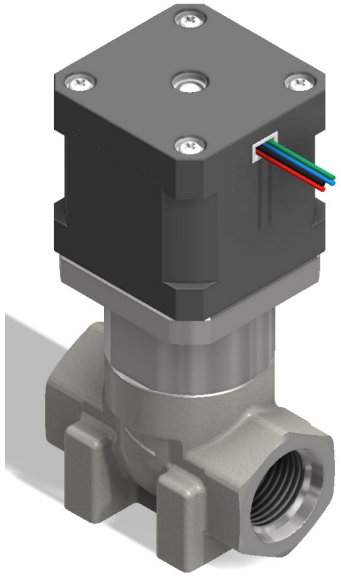
Product Highlights:

- 0 to 100% Flow Control
- Encoder Optional for Position Feedback
- Stepper Fits Within 1U Height
- Compatible with Manifold Mount System
- >2 Cv Flow Capability
- 125 PSI Operating Pressure (Target Goal)
- 300 PSI Proof Pressure

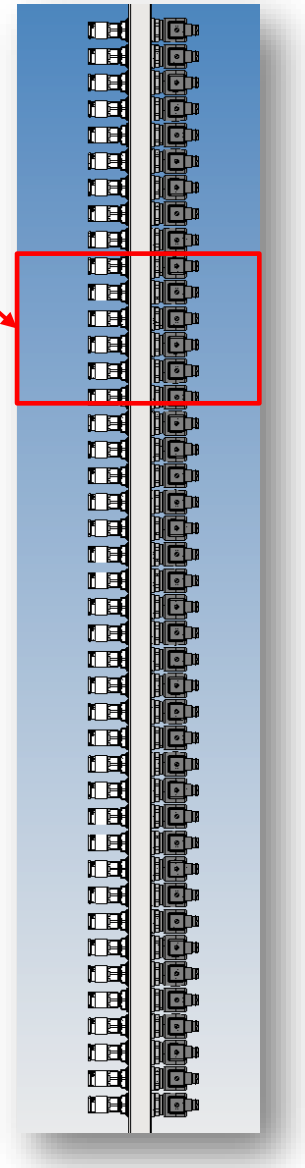




Cartridge Mount



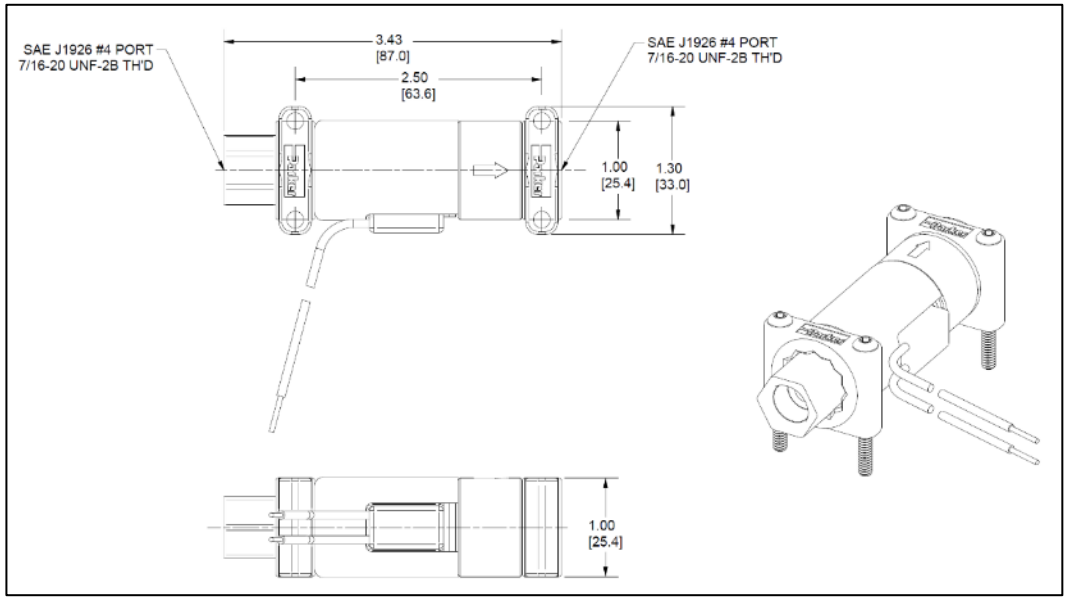
Conventional



* In Development

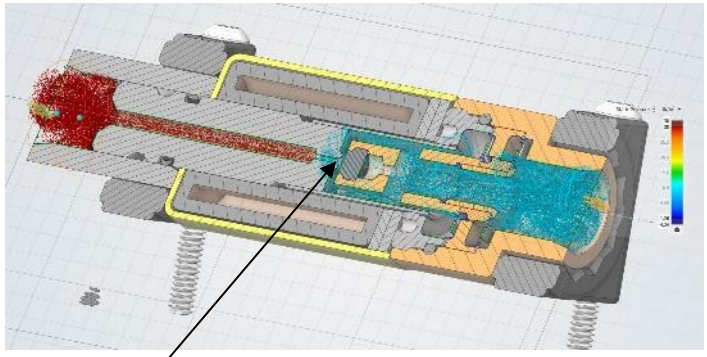
Normally Open Shut Off Valve
Proportional Coolant Control*

- Normally Open In-Line Coolant Valve
- Platform from current production valve
- 430FR Stainless
- 25 psi Operating Pressure Differential
- Cv = 0 to .020
- 16 Watt Coil
- In-Line 1 U Tray Form Factor









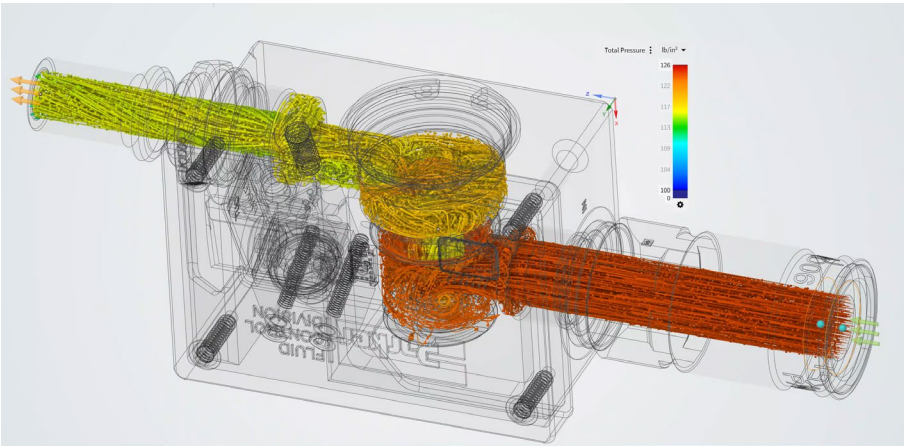
Proportional Control Orifice
Cv = 0 to 0.020

* In Development

Electronic Flow Control Valve

In Server Application*

- Compact, High Coolant Flow Design
- Two Way Normally Closed, Proportional Flow Control
- 125 PSI Supply Pressure Capacity
- 0 to 20 SLPM Volumetric Flow Capacity(Propylene Glycol)
- Available PWM Pilot Valve Control
- Optional Media Temperature Sensing
- Optional Differential Pressure Sensing
- Various Fitting Options



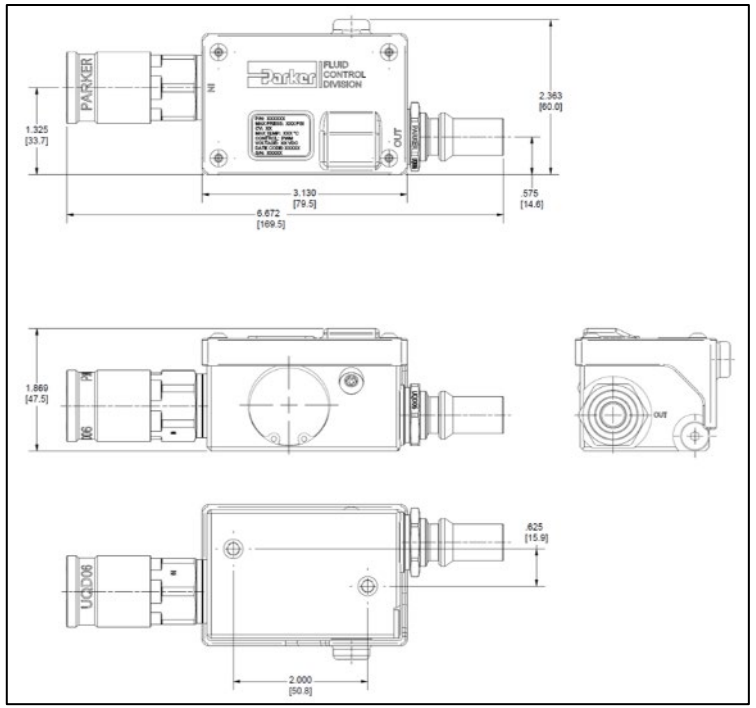
Simulation Boundary Conditions:

- Coolant Media: Propylene Glycol
- Supply Pressure: 125 psig
- Maximum Volumetric Flow Rate: 20 SLPM
- Temperature 68°F

Output:

- Full Open Pressure Drop(Valve Only, Open Fitting Sections): 9 PSID





* In Development

Thank You

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