

Series 100

High Reliability Fuel and Coolant Pumps



An affordable high-performance aerospace grade pump designed to provide thousands of hours of reliable operation with virtually all fuels, heat transfer fluids, and low-viscosity oils.

- Flows to 6.5 liters/minute
- Pressures to 15 bar

Based on technology developed by Cascon for space flight and military products, Series 100 is available in a variety of build-to-order configurations to provide the displacement, fluid interfaces and control options suited to your particular system design.

- Gerotor-type pumping element close-coupled to the drive motor
- Leak free sealless design
- Ingress protection rating of IP67
- Exterior surfaces anodized per MIL-A-8625, TYPE II, CLASS 1 for corrosion protection
- Mounting base prepared per MIL-DTL-5541 for EMI grounding
- Single-piece 6061-T6 aluminum housing with integral mounting points provides a ruggedized package

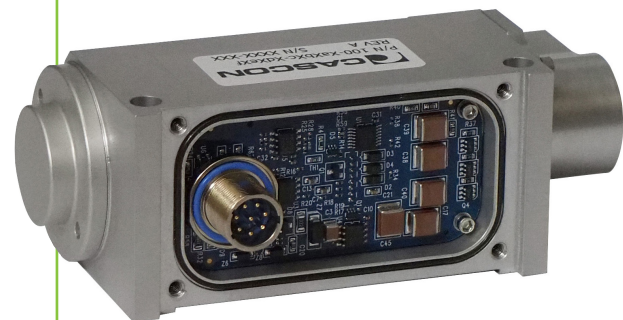


Precision Gerotor and IGR Technology provides for simple, robust positive displacement pumping

Powerful 28V brushless DC pump drive motor and control

- Rated for up to 100 Watts and 100°C.
- Available in both constant and variable speed/flow configurations.
- Suitable for closed-loop control.

The pump control has a heritage in Cascon's military UAV and avionics cooling applications, is proven in both industrial and aerospace applications and is designed to match the drive motor for maximum performance.



Configure-to-Order

Series 100 pumps are available on a configure-to-order basis. Some models in stock.

Visit casconpump.com for information on other configurable and custom pump products.

Interface Data

1. Electrical

| | |
|------------------------------|---|
| Connection | Glenair 800-012-07M8-28PN, Suggested mate: 800-006-16ZR8-28SN |
| Input Voltage Supply | 22-32 Vdc |
| Input Current | 7 Amp (internal limit) |
| Speed/Flow Command Signal | 0-5V |
| Speed Feedback | 5 V Square Wave |

2. Mechanical

| | |
|------------------|---|
| Mounting | Provision for (4) #6-32 Screws |
| Fluid Connection | SAE J1926 O-ring Ports, Size -6 in Four Orientation Options |
| Weight | 680 g or 1.5 lbs |

Typical Environmental Specifications

3. RTCA DO-160G

| | |
|-------------|-----------------------------|
| Input Power | 28V Category Z |
| Shock | Section 7, Category B (20g) |
| Vibration | Section 8, Category R |
| Other | contact Cascon |

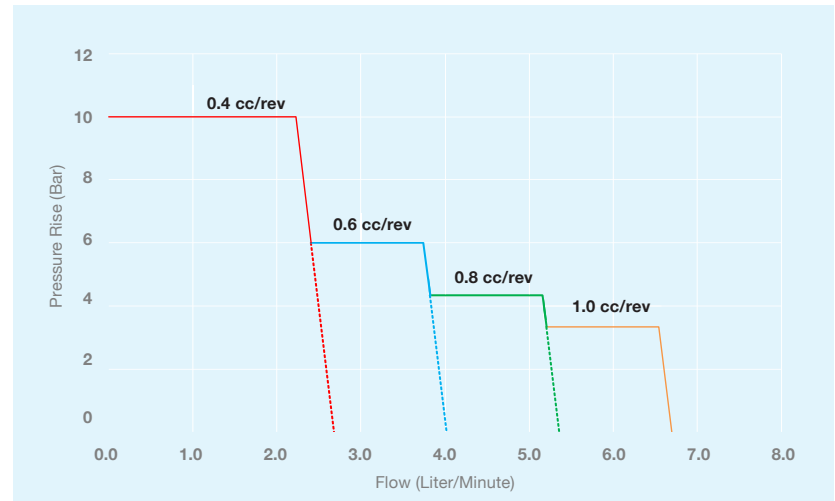
4. MIL-STD-810

| | |
|---------|----------------|
| Various | contact Cascon |
|---------|----------------|

5. Temperature

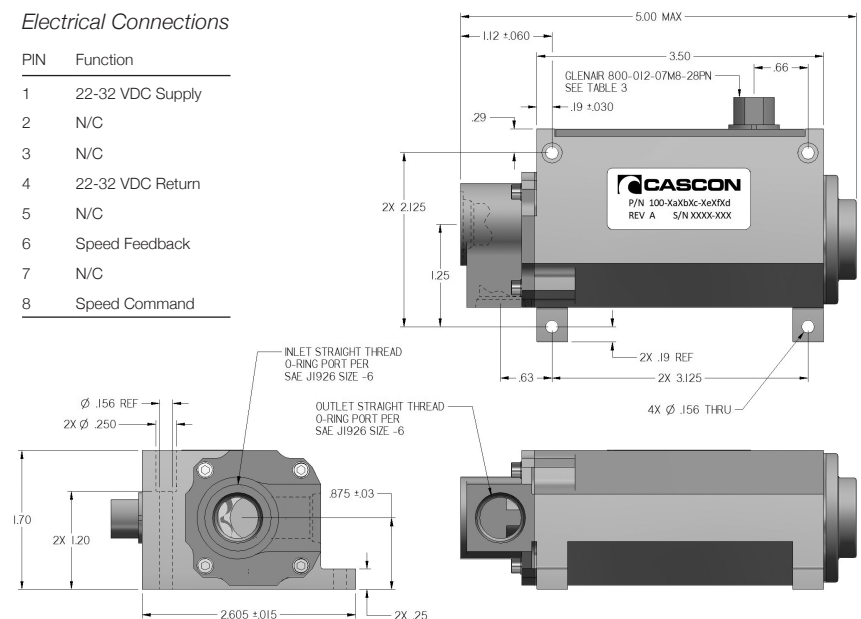
| | |
|------------------------|-------|
| Maximum Operating Temp | 100°C |
| Minimum Operating Temp | -55°C |

Typical Performance Capability by Model Displacement MIL-C-7024 Type II Calibration Fluid, 25°C



Electrical Connections

| PIN | Function |
|-----|------------------|
| 1 | 22-32 VDC Supply |
| 2 | N/C |
| 3 | N/C |
| 4 | 22-32 VDC Return |
| 5 | N/C |
| 6 | Speed Feedback |
| 7 | N/C |
| 8 | Speed Command |



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