SERIES 381

High-Flow Valves for Extremely Low Temperatures

1/4" and 3/8" NPT • Stainless Steel 3-Way Valves

APPLICATIONS

- **Oil and Gas exploration and production:**
  - In extremely cold environments requiring valves to operate reliably at -60°C
  - Requiring quick actuator response times
  - In extremely harsh and corrosive environments, such as those found on offshore and near-shore oil platforms

FEATURES & BENEFITS

- Extreme Temperature Operation
  - Broad operating temperature range of -60˚C to 80˚C for both ambient and media allows for use in extreme environmental conditions
  - Capable of passing the CSA (No.139) endurance test for safety shut-off valves (10K cycles at -60˚C and 90K cycles at 80˚C)
- Increased Flow Over Competition
  - Higher flow results in faster process response time
- Compatible with Speed Control
  - Allows users to control flow to prevent abrupt opening/closing of actuator
- Rugged 316L Stainless Steel Body
  - Designed to withstand harsh and corrosive environments
- Low Pressure Operation
  - Requires zero main pressure to operate when using the externally piloted version
- Simplified Supply Chain
  - Popular constructions are available through the ASCO Express shipping program which allows for fast part replacement and greater availability
  - From high flow spool valves to -60˚C valves, ASCO is the complete solution provider for all of your automation needs

SPECIFICATIONS

Type:	3-way Normally Closed, Single Solenoid/Spring Return
Construction:	Available in internally or externally piloted versions
Body:	316L SS
Pipe Size:	1/4" and 3/8" NPT
Cv:	1/4" = 2.3 | 3/8" = 2.7
Pressure:	Up to 200 psi (depending on solenoid type)
Media:	Air, inert gas, and sweet dry natural gas
Temperature Range:	-60˚C to 80˚C (-76˚F to 176˚F)
Wattage:	Low Power: 0.55W, 0.7W, 0.75W, 1.4W, 1.7W, 1.8W Intrinsically Safe: .48W Standard: 10.1W, 11.6W
Approvals:	UL, CSA: Class I, Div 1 (Solenoid Only); ATEX, IECEx: Ex d mb (EV Solenoids Only)
Pending Certifications:	CRN, Functional Safety evaluation by Exida