

# TOPWORX™ D-SERIES

World-Class Discrete Valve Controllers with the Highest Technology Available

TopWorx™ D-Series discrete valve controllers are certified for use in every world area. They carry IECEx, ATEX, and UL certifications in a single model, making it easier for global customers to standardize across plants in multiple world areas. Other certifications available include NEPSI, KOSHA, InMetro, and EAC.

D-Series discrete valve controllers can survive in virtually any plant condition. Their heavy-duty construction and corrosion resistance enable superior performance in the most demanding applications.

## The D-Series is Built Tough!

Designed to provide reliable service for a lifetime, the D-Series has been built to last in the most demanding applications, and endurance tested for over 3.5 million cycles to prove it.



### Wet

Tested against intense water pressure blasts and complete submersion underwater for 96 hours at a depth of 30 meters.



### Hot

Tested for long-term functionality in temperatures up to 176°F/80°C



### Cold

Tested for endurance in temperatures down to -76°F/-60°C

### Dirty

Tested in dust chamber and proven dust tight

### Abusive

Tested against the “300 pound man step test” and proven impact and step resistant

### Corrosive

Tested against hundreds of corrosive and caustic elements and proven to resist deterioration or chipping

### Explosive

Tested by UL and Sira for use in explosive environments with no seal-off fittings required (DXP, DXS)

### Chemical Compatibility

Tested against hundreds of chemicals with varying exposure times, temperatures, and concentrations. Please contact factory for compatibility information.



The D-Series has world wide approvals to help support global projects.



### Visual Display

- Impact resistant polycarbonate
- Intuitive colors (Green/Red)
- Adjustable/customizable
- Pre-adjusted to 90° for easy installation
- Less than 1 3/4" tall

### Bus Networking / Sensor options

- FOUNDATION Fieldbus, Profibus, DeviceNet, AS-Interface, HART
- GO™ Switch, Proximity, P+F™, Mechanical, 4-20mA Transmitter

### Stainless Steel Shaft & Fasteners

- 1/4" DD or NAMUR Shaft
- Captive cover bolts
- Captive dome screws



### Rugged Enclosures for Every Environment

- Aluminum, Composite, Stainless
- Up to four conduit entries (English or Metric)
- O-ring seals everywhere
- Buna, Silicone o-ring options

### Pilot Valves

- Aluminum, 316 Stainless Steel available
- Low Power Solenoid or Ultra-Low Power Piezo
- Single or Dual Coil
- .86 Cv and 3.7 Cv
- Integrally mounted for extra protection
- Built-in filter protects the pilots against debris
- Fast, easy troubleshooting:
  - Pneumatic tubing is color-coded for trouble shooting while system is pressurized
  - Troubleshoot valve without removing the cover

### Environmental Extremes

- Rated for environments from -76°F/-60°C to 347°F/175°C
- NEMA Type 4, 4X, IP66/67

## Multiple D-Series Platforms for Every Environment



DXP

Tropicalized Aluminum  
Flameproof/Explosion Proof/Intrinsically Safe  
Class I, Div 1 & 2  
Class II, Div 1 & 2  
Ex ia IIC T6/T4  
Ex d IIB+H2 or IIC T6/T5/T4/T3  
Tamb -60°C up to +175°C  
Ex tb IIIC  
Tamb -50°C up to +92°C  
II2GD, Type 4X, IP66/67



DXS

316 Stainless Steel  
Flameproof/Explosion Proof  
/Intrinsically Safe  
Class I, Div 1 & 2  
Class II, Div 1 & 2  
Ex ia IIC T6/T4  
Ex d IIB+H2 or IIC T6/T5/T4/T3  
Tamb -60°C to +175°C  
Ex tb IIIC T135°C  
Tamb -50°C to +92°C  
II2GD, IP66/67, Type 4X

**SIL-3**  
IEC 61508

D-ESD

Partial Stroke Testing for  
Emergency Shutdown Valves  
Suitable for use in SIL-3 applications  
Stainless Steel or Aluminum,  
Flameproof/Explosion Proof  
/Non-Incendive  
Class I Div 1 & 2  
Class II Div 1 & 2  
Ex d IIB+H2 T6  
Ex tb IIIC T135°C  
Tamb -50°C to +60°C  
II2GD, IP66/67, Type 4X



DXR

Composite Resin  
Non-Incendive/Intrinsically Safe  
Class I & II, Div 2  
Ex ia IIC T6/T4  
Ex e mb IIC T4  
Ex tb IIIC  
-40°C to +92°C T4  
II2GD, IP65, Type 4X

Note: Product certification markings will vary according to protection method and internal components specified.