Valvetop DXP

502.969.8000

Flame Proof - Explosion Proof - Intrinsically Safe

Valvetop DXP

The Valvetop DXP discrete valve controller combines bus networking, pilot valve and position sensors into a single, globally certified, explosion proof enclosure that attaches to any automated valve package.

Features: Zone 0 Intrinsically Safe
Zone 1 Flameproof/Explosion Proof
Tropicalized Aluminum Enclosure

Options: GO Switch Leverless Limit Switches
FONDATION Fieldbus
AS-Interface
DeviceNet
4-20mA Position Transmitter
HART Protocol
Proximity Switches
Mechanical Switches

FAST TRACK DELIVERY

DXP-L21G_EB
(2) GO Switches
Explosion Proof

DXP-L21G_EB1A2
(2) GO Switches
Explosion Proof
24VDC 5/4 Aluminum pilot valve

DXP-FF□G_EBPA2
FOUNDATION Fieldbus
Exp. Proof or Intr. Safe
5/4 Aluminum pilot valve

DXP-AS1G_EB1A2
AS-Interface
Explosion Proof
5/4 Aluminum pilot valve

DXP-AS1G_EB
AS-Interface
Explosion Proof

DXP-0XG1_EB
4-20 mA Transmitter
Explosion Proof

DXP-DN1G_EB1A2
DeviceNet
Explosion Proof
5/4 Aluminum pilot valve

DXP-DN1G_EB
DeviceNet
Explosion Proof

DXP-M21G_EB
(2) Mechanical Switches
Explosion Proof

□For Area Class, choose **0** (I.S. or **1** (Exp. Proof)
__ For Shaft, choose **S** or **N** (both in stock)

Enclosure

DXP

Enclosure: Die-cast, aluminum; Epoxy-coated O-Ring sealed

Coating: Tropicalized inside and out

Cover bolts: 6 stainless steel captive cover bolts

Terminal Strip: Standard 12 pt. molded nylon

Temperature Rating: Determined by internal components - Consult Factory

Environment: Built to last in the most demanding applications

Ordering Guide

Fill in the boxes to create your 'ordering number.'

Bus/Sensor

Bus Network
- **AS** AS-Interface
- **FF** FOUNDATION Fieldbus (Pilot P, R, or U only)
- **DN** DeviceNet

Partial Stroke Test
- **ES** ESD/PST Module with GO Switch

GO Switches (SPDT hermetic seal)
- **L2** (2) GO Switches
- **L4** (4) GO Switches

Mechanical Switches
(Area Class 1, C, B, or W)
- **M2** (2) Mech SPDT
- **M4** (4) Mech SPDT
- **M6** (6) Mech SPDT
- **T2** (2) Mech DPDT
- **K2** (2) Mech SPDT gold contacts
- **K4** (4) Mech SPDT gold contacts

Proximity Switches
- **PS** (2) hermetically sealed proximity switch module w/BriteLite LED indication
- **PN** (2) hermetically sealed proximity switch module

Inductive NAMUR Sensors
- **E2** (2) p+f NJ2+V3-N
- **E4** (4) p+f NJ2+V3-N

Analog Output (Available with 2-switch options only for L, M, K, E, T)
- **_X** 4-20mA transmitter
- **_H** 4-20mA transmitter with HART

Examples:
LX =(2) GO Switches with transmitter
0X =4-20mA transmitter no switches
LH =(2) GO Switches with HART transmitter

Classification

- **0** **Intrinsically Safe*** (Bus/Sensor must be FF, L, PN, E, or _H)
  Class I Div 1 & 2, Groups A-D
  Zone 0 (ATEX) EEx ia IIC II1G
  IP67; Type 4, 4X
- **1** **Flame Proof/Explosion Proof**
  Class I Div 1-2, Groups C-D
  Class I Div 2, Groups A-D
  (Groups A & B must be hermetically sealed)
  Zone 1, (ATEX/IECEx)
  Ex/EEx d IIB+H2 II2G
  IP67; Type 4, 4X, 7
- **2** **Non-Incendive** (Not available for Sensor options M, T, or K)
  Class I Div 2, Groups A-D
  Class II Div 2, Groups E-G
  Zone 2 (ATEX/IECEx)
  Ex/EEx nC tD II3GD
  IP67; Type 4, 4X
- **C** **(ATEX/IECEx)**
  Ex/EEx d IIC II2G
  IP67
- **B** **INMETRO (Brasil)**
- **W** **IP67/No approvals**

* With appropriate I.S. barrier

Visual Display

Visual Display: Impact resistant polycarbonate; O-ring sealed; 360° adjustable

- **G** Standard 90° Green OPEN, Red CLOSED
- **B** 90º Black OPEN, Yellow CLOSED
- **4** 45º Green OPEN, Red CLOSED
- **X** 45º Black OPEN, Yellow CLOSED
- **Y** 90° Yellow OPEN, Black CLOSED
- **1** 3 way, 90º
- **3** 3 way, 90º
- **5** 3 way, 90º
- **7** 3 way, 180º
- **9** 3 way, 180º

Shaft

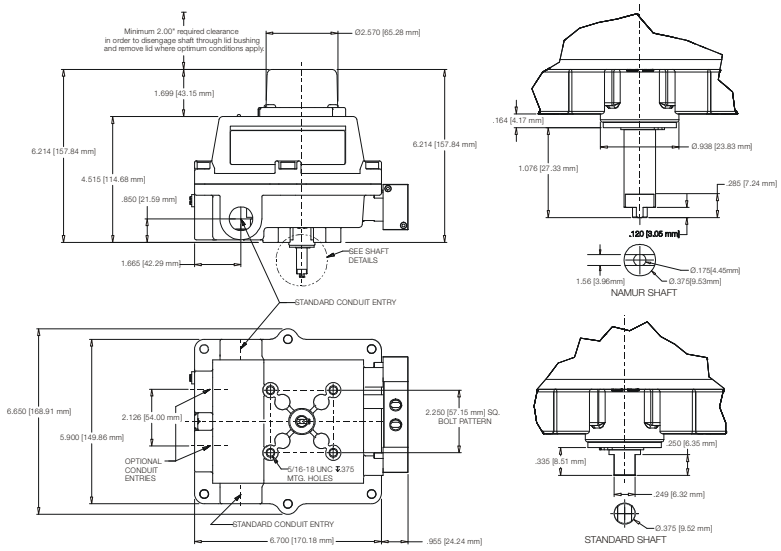
Shaft: Stainless steel; O-ring sealed

Shaft Retainer: Stainless steel

- **S** 1/4" DD 304 Stainless Steel
- **N** NAMUR 304 stainless steel

See next column

Dimensions



Conduit Entries

- ☑ **E** (2) 3/4" NPT
- **4** (2) 3/4" NPT (2) 1/2" NPT
- **M** (2) M20
- **3** (4) M20
- **6** (4) 3/4" NPT

O-Rings

- ☑ **B** Buna N
- **E** EPDM
- **S** Silicone
- **V** Viton

Pilot

- **Blank** No pilot device(s)
- ☑ **1** (1) 24 Vdc pilot, .5W, fail open/closed
- **2** (2) 24 Vdc pilots, .5W, fail last position
- **3** (2) 24 Vdc pilots, .5W, block center
- **4** (1) 220 Vac pilot, 1.9W, fail open/closed
- **5** (2) 220 Vac pilots, 1.9W, fail last position
- **6** (2) 220 Vac pilots, 1.9W, block center
- **7** (1) 110 Vac pilot, 1.1W, fail open/closed
- **8** (2) 110 Vac pilots, 1.1W, fail last position
- **9** (2) 110 Vac pilots, 1.1W, block center
- **P** (1) piezo pilot, fail open/closed (FF only)
- **R** (2) piezo pilots, fail last position (FF only)
- **U** (2) piezo pilots, block center (FF only)

Spool Valve

- **Blank** No spool valve
- ☑ **A** Aluminum Hard coat anodized
- **S** 304 Stainless steel
- **6** 316 Stainless steel

Valve Cv

- **Blank** No spool valve
- ☑ **2** 1.2 Cv (1/4" NPT Ports)
- **3** 3.0 Cv (1/2" NPT Ports) (Spool Valve A only)
- **C** Cold temperature valve to -50ºC 1.0 Cv (1/4" NPT Ports) (Sensor L2; O-Ring E or S only) (Spool Valve must be S or 6)

Don't forget!

Filtered air is required for proper valve operation. Reference www.topworx.com for additional Air Filter information.

Manual Override

- **Blank** No spool valve
- **1** Single Pushbutton Momentary/Latching
- **2** Dual Pushbutton Momentary/Latching
- **3** Single Pushbutton Momentary
- **4** Dual Pushbutton Momentary
- **5** Manual Reset No voltage release latching with pushbutton (Spool Valve 6 only)
- **A** Single palm actuator Momentary/Latching
- **B** Dual palm actuator Momentary/Latching
- **C** Single palm actuator Momentary
- **D** Dual palm actuator Momentary
- **E** Manual Reset No voltage release latching with palm actuator (Spool Valve 6 only)
- **T** Partial stroke test button with lockable cover (Sensor ES only) (Conduit Entries 4 or 3 only)