

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
FOUNDATION 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-AS1G_EB
AS-Interface
Explosion Proof

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

DXP-0XG1_EB
4-20 mA Transmitter
Explosion Proof

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

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

DXP-AS1G_EB1A2
AS-Interface
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)



DeviceNet.

HART
COMMUNICATION PROTOCOL

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

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
- OX** =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/EEEx 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/EEEx nC tD II3GD
IP67; Type 4, 4X

C (ATEX/IECEx)

Ex/EEEx 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 90° Black OPEN,
Yellow CLOSED

4 45° Green OPEN,
Red CLOSED

X 45° Black OPEN,
Yellow CLOSED

Y 90° Yellow OPEN,
Black CLOSED

1 3 way, 90°



3 3 way, 90°



5 3 way, 90°



7 3 way, 180°



9 3 way, 180°



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



Enclosure

DXP

Bus/Sensor

Classification

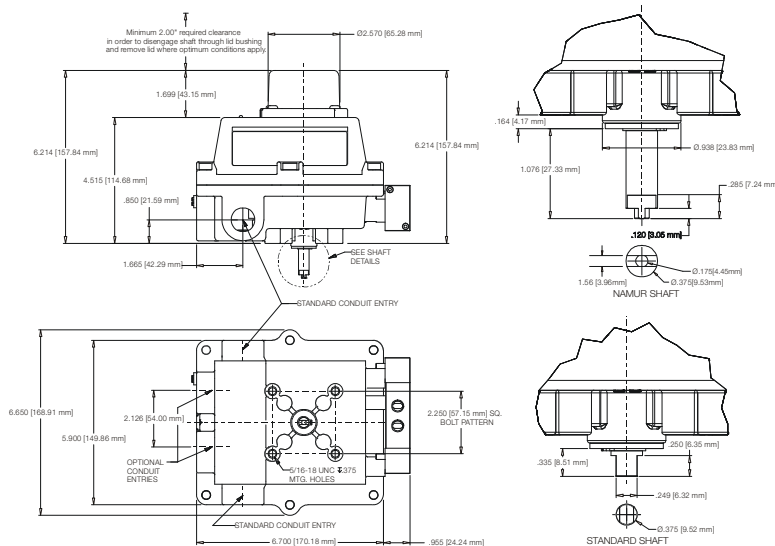
Visual Display

Shaft

Ordering Guide

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

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 -50°C
1.0 Cv (1/4" NPT Ports) (Sensor L2; O-Ring E or S only) (Spool Valve must be S or 6)

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)

Don't forget!

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

Conduit Entries

O-Rings

Pilot

Spool Valve

Valve Cv

Manual Override