






# TOPWORX™ D-SERIES, DXP, DXR, DXS ORDERING GUIDE

Choose one option from each category to build a complete model number.  
Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft	Conduit Entries
<b>DXP</b> Tropicalized Aluminum	<b>Bus Network</b> <b>AS</b> AS-Interface (Area class cannot be 0) <b>*FF</b> FOUNDATION Fieldbus w/ 0-10K Pot <b>*FL</b> Foundation Fieldbus w/(2) SPDT GO Switches <b>*FP</b> Foundation Fieldbus w/(2) SPDT GO Switches and 0-10K Pot <b>DN</b> DeviceNet (Area class cannot be 0)  <b>Partial Stroke Test</b> <b>ES</b> ESD/PST Module w/GO Switch (Area class cannot be 0)  <b>GO Switches</b> <b>L2</b> (2)GO Switches SPDT hermetic seal <b>L4</b> (4)GO Switches SPDT hermetic seal(not available with pilot) <b>Z2</b> (2)GO Switches DPDT hermetic seal <b>Z4</b> (4)GO Switches DPDT hermetic seal, (not available with pilot)  <b>Mechanical Switches</b> (Area class cannot be 2, DXR with G approval not available with pilot) M2 (2)Mech SPDT No Adder M4 (4)Mech SPDT M6 (6)Mech SPDT T2 (2)Mech DPDT K2 (2)Mech SPDT gold contacts K4 (4)Mech SPDT gold contacts  <b>Proximity Switches</b> <b>R2</b> (2) SPDT Prox switches <b>R4</b> (4) SPDT Prox switches (R2 & R4 only available with DXR and Ex me certification)  <b>Inductive Sensors</b> <b>E2</b> (2) p+f NJ2-V3-N  <b>inductive NAMUR</b> <b>E4</b> (4) p+f NJ2-V3-N  inductive NAMUR  <b>Analog Output</b> (Available with 2-switch options only for L,Z,M,K,E,T) <b>_X</b> 4-20mA transmitter <b>_H</b> 4-20mA transmitter with HART (Not available with switch option T; LH not available w/pilot valve) (LH, ZH Not available with DXR) Example: <b>LH</b> =(2) GO Switches with HART™ transmitter  * *FF, *FL and *FP with Area Classification "0" has an ib protection	<b>0</b> Intrinsically safe (Bus/sensor cannot be AS, DN, ES, or _X; Requires appropriate I.S. barrier) - North America Class I Div 1&2 Groups A, B, C, D Type 4, 4X - ATEX/IECEx Zone 0 II2GD, T6/T4 Ex ia IIC Ex tb IIIC, IP66/67 (Foundation Fieldbus) Zone 1, Ex ib IIC T4, IP67  <b>1</b> Explosion proof / Flame proof (DXP/S only) - North America Class I Div 1 Groups C, D; Class I Div 2, Groups A, B, C, D. (Groups A & B must be hermetically sealed) Type 4, 4X, - ATEX/IECEx Zone 1 II2G, II2GD, T6/T4/T3 Ex d IIB+H2 Ex tb IIIC IP66/67 (O-Rings must be S for DUST certification)  <b>2</b> Non-incendive (Bus/sensor must be L, Z, P, E, AS, FF,_X, _H, _E or DN) - North America Class I Div 2 Groups A, B, C, D; Class II Div 2 Groups F,G - ATEX (DXP/S only) II3G Ex nA nC tb, IP66/67 (O-Rings must be S for DUST certification)  <b>G</b> General Purpose Type 4, 4X (not available with DXR with mechanical switches)  <b>C</b> Flameproof (DXS not available with valve; Conduit entries must be E or M) ATEX/IECEx II2G, II2GD, T6/T4/T3 Ex d IIC Ex tb IIIC IP66/67  <b>M</b> Flameproof (only available with R2 and R4 sensor options) (DXR only) ATEX/ IECEx Zone 1, II2GD Ex e mb IIC T4, Ex tb IIIC T66 IP67  <b>W</b> No approvals; Type 4, 4X IP66/68	<b>G</b> Standard 90° Green OPEN, Red CLOSED  <b>R</b> Standard 90° Green CLOSED, Red OPEN  <b>B</b> 90° Black OPEN, Yellow CLOSED No Adder  <b>Y</b> 90° Yellow OPEN, Black CLOSED  <b>1</b> 3 way, 90° L Port  <b>3</b> 3 way, 90° T Port  <b>5</b> 3 way, 90° T Port  <b>7</b> 3 way, 180° T Port 3 position  <b>9</b> 3 way, 180° T Port 3 position 	<b>S</b> 1/4" DD 304 stainless steel  <b>N</b> NAMUR 304 stainless steel  <b>R</b> 1/4" DD 316 stainless steel (Shaft & external hardware)  <b>M</b> NAMUR 316 stainless steel (Shaft & external hardware)	<b>DXP/DXS</b> <b>(Metal Conduit Entries)</b> <b>E</b> (2) 3/4" NPT  <b>4</b> (2) 3/4" NPT (2) 1/2" NPT  <b>M</b> (2) M20  <b>3</b> (4) M20  <b>6</b> (4) 3/4" NPT  <b>DXR</b> <b>(Stainless Conduit Entries Required</b> <b>for North American approval)</b> <b>P</b> (2) 1/2" NPT  <b>E</b> (2) 3/4" NPT  <b>M</b> (2) M20  <b>DXR</b> <b>(Resin Conduit Entries)</b> <b>A</b> (2) 1/2" NPT  <b>B</b> (2) 3/4" NPT  <b>C</b> (2) M20

## Ordering Guide

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

Enclosure

Bus/Sensor

Area Classification

Visual Display

Shaft

Conduit Entries

## Ordering Examples:

DXP-FF0GNEBPA2  
DXP-L21GNEB1A2

O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
<b>B</b> Buna-N No Adder  <b>S</b> Silicone No Adder    <b>NOTE:</b> For Temperatures below -40°C, Silicone o-rings are recommended	<b>Blank</b> No pilot device(s)  <b>1</b> (1) 24 Vdc pilot, fail open/closed 0.5 W (non-I.S.)  0.5W (I.S.)  <b>2</b> (2) 24 Vdc pilots, fail last position 0.5W (non-I.S.)  0.5W (I.S.)  <b>4</b> (1) 220 Vac pilot, 2W, fail open/closed  <b>5</b> (2) 220 Vac pilots, 2W, fail last position  <b>7</b> (1) 110 Vac pilot, 1.1W, fail open/closed  <b>8</b> (2) 110 Vac pilots, 1.1W, fail last position  <b>P</b> (1) piezo pilot, fail open/closed (FF only)  <b>R</b> (2) piezo pilots, fail last position (FF only)	<b>Blank</b> No Spool Valve  <b>A</b> Aluminum Hard coat anodized  <b>6</b> 316 Stainless steel	<b>Blank</b> No Spool Valve  <b>2</b> .86 Cv (1/4" NPT Ports)  <b>3</b> 3.7 Cv (1/2" NPT Ports) (For manual override consult factory) (Spool Valve A) (Spool Valve 6)	<b>Blank</b> No override  <b>1</b> Single Pushbutton Momentary/Latching  <b>2</b> Dual Pushbutton Momentary/Latching  <b>T</b> Partial stroke test button with lockable cover (Sensor ES only) (Not avail w/ Area Class C) (DXP/S - Conduit Entries 4 or 3 only. DXR - consult factory)	<b>Blank</b> No Regional Cert  <b>B</b> InMetro (Area Class 0, 1 and C only)  <b>N</b> NEPSI  <b>F</b> FISCO (Bus/Sensor must be FF; Area Class must be 0)  <b>K</b> KOSHA (DXP/S only) (Area class 1 or C)  <b>R</b> EAC (DXP/S only) (O-Rings must be B or S, B=Gas Approved; S= Gas/Dust Approved)  <b>A</b> ANZEx Ex d IIC, Ex d IIB+H2 (DXP/S only)  <b>P</b> PESO (India) (Gas approval only)
O-Rings	Pilot	Spool	Valve Cv	Override	Regional Certs

## TOPWORX™ ACCESSORIES

Description	Part Number
<b>Pneumatic Accessories</b>	
Flow Control, 1/4" NPT (1 per kit) (DXP/TXP/TVA) .....	AL-M21
Flow Control, 1/2" NPT (1 per kit) (DXP w/3.0Cv spool valve) .....	AL-M22
Breathers, 1/4" NPT (2 per kit) (DXP) .....	AL-M31

# TOPWORX™ T-SERIES, TXP, TXS, TVA ORDERING GUIDE

Choose one option from each category to build a complete model number.  
Consult factory for options not shown below.

## Enclosure

**TXP** Tropicalized Aluminum

**TXS** 316 Stainless Steel

**!** TVA and TXP mounting accessories now sold separately.  
See listing below for kit #s and description.

## Bus/Sensor

### Bus Network

**AS** AS-Interface

(Area class cannot be 0)

**PB** Profibus DP

(Area class must be 1, C or W)

### Mechanical Switches

(Area class cannot be 2)

**M2** (2) Mech SPDT

**M4** (4) Mech SPDT

**K2** (2) Mech SPDT w/gold contacts

**T2** (2) Mech DPDT

### Proximity Switches

**R2** (2) SPDT 200mA max

**R4** (4) SPDT 200mA max

**P2** (2) SPDT 3A max

**P4** (4) SPDT 3A max

### GO Switches

**L2** (2) GO™ Switches  
SPDT hermetically sealed  
(TXP/TXS w/o pilot valve only)

### Inductive Sensors

**E2** (2) p+f NJ2-V3-N  
inductive NAMUR

### Analog Output

**0X** 4-20 mA Transmitter  
with no switches

Examples:

**AS** = AS-i with "R" type reed switches

## Area Classification

**0** Intrinsically safe  
ATEX/IECEx  
Zone 1  
II2GD Ex ia IIC  
Ex tb IIIC, IP66/67

**C** Flame Proof  
ATEX/IECEx  
II2GD Ex d IIC  
Ex tb IIIC, IP66/67  
(w/o pilot valve)

**1** Explosion proof  
CI I Div 1 Grps C,D  
CI II Div 1 Grps E-G (NEC approvals w/o pilot valve)  
ATEX/IECEx  
Zone 1  
II2GD Ex d IIB  
Ex tb IIIC, IP66/67

**2** Non-incendive  
CI I Div 2 Grps A-D  
CI II Div 2 Grps F&G (NEC approvals w/o pilot valve)  
ATEX II3GD (Not available with all sensing options)  
Ex nA nC IIC, IP66/67  
Ex tb IIIC

**G** General Purpose  
Type 4X

**W** No approvals  
Type 4, 4x  
IP66/68

## Visual Display

**G** Standard 90°  
Green OPEN,  
Red CLOSED

**R** Standard 90°  
Green CLOSED,  
Red OPEN

**B** 90° Black OPEN,  
Yellow CLOSED

**F** Flat-top with skirt  
indicator  
(TXP & TXS only)  
(Indicator not provided with "L" Shaft option)

**Y** 90° Yellow OPEN,  
Black CLOSED

**J** 3 Way T Port,  
Green/Red

**K** 3 Way L Port,  
Green/Red

## Shaft

**N** NAMUR  
304 stainless steel

**L** 1" Extended  
Linear Shaft

## Conduit Entries

### TXP/TXS

**P** (2) 1/2" NPT

**M** (2) M20

**E** (2) 3/4" NPT  
(Not available with pilot valve)

**3** (4) M20  
(Not available with pilot valve)

**4** (2) 3/4" NPT  
(2) 1/2" NPT  
(Not available with pilot valve)

## Ordering Guide

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

For complete information on certification options, go to [www.topworx.com](http://www.topworx.com) and download the applicable product certificate.

Enclosure

Bus/Sensor

Area Classification

Visual Display

Shaft

Conduit Entries

**Ordering Examples:**  
TXS-ASCGNPM1A1  
TXP-M21GNPB1A1

O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
<b>M</b> Silicone	<b>Blank</b> No pilot device(s)  <b>1</b> (1) 24Vdc pilot, fail open/closed 1W (non I.S)  0.5 W (I.S)  <b>7</b> (1) 110Vac pilot, 3VA, fail open/closed  <b>4</b> (1) 220Vac pilot, 3VA fail open/closed	<b>Blank</b> No spool valve  <b>A</b> Aluminum Hard coat anodized  <b>6</b> 316 Stainless steel  <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> <b>Don't Forget!</b> </div> <p>Filtered air is required for proper valve operation. Reference <a href="http://www.topworx.com">www.topworx.com</a> for additional Air Filter information.</p>	<b>Blank</b> No spool valve  <b>1</b> 1.0 Cv (1/4" NPT Ports)  <b>8</b> 1.0 Cv (1/4" BSP Ports)	<b>Blank</b> No override  <b>1</b> Single Pushbutton Momentary/Latching	<b>Blank</b> No Regional Cert  <b>N</b> NEPSI  <b>R</b> EAC  <b>B</b> InMetro (Area Class 0,1 and C only)  <b>P</b> PESO (Gas approval only)
O-Rings	Pilot	Spool	Valve Cv	Override	Regional Certs

## T-SERIES MOUNTING KITS

Description	Part Number	Description	Part Number
<b><u>Resin Mounting Kits for TVA</u></b>		<b><u>Stainless Steel Mounting Kits for TXS</u></b>	
Mounting Kit for 20 x 80 .....	AL-TR01	Non-NAMUR Interface Kit.....	Z001205
Mounting Kit for 30 x 80 .....	AL-TR04	Mounting Kit for 20 x 80 .....	AV-TS09
Mounting Kit for 30 x 130.....	AL-TR07	Mounting Kit for 20 x 80 (flattop only) .....	AV-TS10
Mounting Kit for 50 x 130.....	AL-TR09	Mounting Kit for 30 x 80 .....	AV-TS11
<b><u>Mounting Kits for TXP</u></b>		Mounting Kit for 30 x 80 (flattop only) .....	AV-TS12
Mounting Kit for 20 x 80 .....	AV-TA09	Mounting Kit for 30 x 130 .....	AV-TS13
Mounting Kit for 20 x 80 (flattop only).....	AV-TA10	Mounting Kit for 30 x 130 (flattop only) .....	AV-TS14
Mounting Kit for 30 x 80 .....	AV-TA11	Mounting Kit for 50 x 130 .....	AV-TS15
Mounting Kit for 30 x 80 (flattop only).....	AV-TA12	Mounting Kit for 50 x 130 (TXS flattop only) .....	AV-TS16
Mounting Kit for 30 x 130.....	AV-TA13		
Mounting Kit for 30 x 130 (flattop only) .....	AV-TA14		
Mounting Kit for 50 x 130.....	AV-TA15		
Mounting Kit for 50 x 130 (flattop only) .....	AV-TA16		

# TOPWORX™ T-SERIES, TVF, TVL, TVH ORDERING GUIDE

Choose one option from each category to build a complete model number.  
Consult factory for options not shown below.

## Enclosure

**TVF** Tropicalized Aluminum base with clear resin lid

**TVL** Tropicalized Aluminum base and Lid

**TVH** 316 Stainless Steel base and lid

**TVA** Engineered Resin (Area Class must be W or 0), (Only available with Bus/ Sensors AS, AM (with or w/o pilot valve) M, K, T, R, P or E (w/o pilot valve))

## Bus/Sensor

**Bus Network**  
(area class cannot be 0)

**AS** AS-Interface  
**DN** DeviceNet  
**PB** Profibus DP

**Mechanical Switches**  
(Area class cannot be 2)

**M2** (2) Mech SPDT  
**M4** (4) Mech SPDT  
**K2** (2) Mech SPDT w/ gold contacts  
**T2** (2) Mech DPDT

**Proximity Switches**

**R2** (2) SPDT 200mA max  
**R4** (4) SPDT 200mA max  
**P2** (2) SPDT 3A max

**Analog Output**

(Available with M, K, T, E)(Not available w/ pilot/spool valve)  
**\_X** 4-20 mA Transmitter

**Inductive Sensors**

**E2** (2) p+f NJ2-V3-N inductive NAMUR  
**12** (2) Ind prox PNP N/O (Area class can only be "W")

**Examples:**

**0X** 4-20 mA Transmitter with no switches

**MX** 4-20 mA Transmitter with mechanical switches

**AS** AS-i with "R" type reed switches

## Area Classification

**0** Intrinsically safe  
ATEX/IECEX Zone 1  
II2GD Ex ia IIC  
Ex tb IIIC, IP66/68 (Dust groups TVL/TVH only)  
CI I Div 1 Grps- A-D; CI II Div 1 Grps E-G (TVA ATEX/IECEX Only)

**2** Non-incendive  
ATEX/IECEX Zone 2  
II3GD Ex nA nC IIC  
Ex tc IIIC, IP66/68  
CI I Div 2 Grps A-D; CI I Div 2 Grps F & G

**W** No approvals, Type 4, 4X  
IP66/68

**G** General Purpose  
Type 4X (Not available on TVA)

TVF, TVL & TVH  
10pt. terminal strip w/ pilots  
12pt. terminal strip w/o pilots

TVA  
8pt. terminal strip w/o pilots

## Visual Display

**G** Standard 90°  
Green OPEN,  
Red CLOSED

**R** Standard 90°  
Green CLOSED,  
Red OPEN

**B** 900 Black OPEN,  
Yellow CLOSED

**F** Flat-top with skirt indicator  
(TVL & TVH only)  
(Indicator not provided with "L" Shaft option)

**Y** 900 Yellow OPEN,  
Black CLOSED

**T** Green THRU, Red DIVERT

**K** 3 Way L Port,  
Green/Red

## Shaft

**N** NAMUR  
304 stainless steel

**L** 1" Extended  
Linear Shaft  
(TVL/TVH only)

## Conduit Entries

**(TVF/TVL/TVH)**  
**P** (2) 1/2" NPT

**M** (2) M20

**E** (2) 3/4" NPT

**1** (2) M25

**TVA**

**A** (2) 1/2"NPT Resin

**C** (2) M20 Resin

## Ordering Guide

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Enclosure

Bus/Sensor

Area Classification

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Conduit Entries

For complete information on certification options, go to [www.topworx.com](http://www.topworx.com) and download the applicable product certificate.

## Ordering Examples:

TVF-M20GNPM1A1  
TVL-R4WGNPM

O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regionals
<b>M</b> Silicone	<b>Blank</b> No pilot device(s)  <b>1</b> (1) 24Vdc pilot, fail open/closed 1W (non I.S.) 0.5 W (I.S.)  <b>2</b> (2) 24Vdc pilots fail last position 1W (non-I.S.) 0.5 W (I.S.)  <b>4</b> (1) 220Vac pilot, 3VA fail open/closed  <b>5</b> (2) 220Vac pilots, 3VA fail last position  <b>7</b> (1) 110Vac pilot, 3VA, fail open/closed  <b>8</b> (2) 110Vac pilots, 3VA fail last position	<b>Blank</b> No spool valve  <b>A</b> Aluminum Hard coat anodized  <b>6</b> 316 Stainless steel	<b>Blank</b> No spool valve  <b>1</b> 1.0 Cv (1/4" NPT Ports)  <b>8</b> 1.0 Cv (1/4" BSP Ports)	<b>Blank</b> No override  <b>1</b> Single Pushbutton Momentary/Latching  <b>2</b> Dual Pushbutton Momentary Latching	<b>N</b> NEPSI  <b>R</b> EAC (Not available in TVA)  <b>B</b> InMetro (Area Class "0" only)  <b>P</b> Peso (Gas approval only)
O-Rings	Pilot	Spool	Valve Cv	Override	Regionals

## T-Series Mounting Kits (All hardware included)

Description	Part Number	List Price	Description	Part Number	List Price
<b><u>Mounting Kits for TVF/TVL</u></b>			<b><u>Stainless Steel Mounting Kits for TVH</u></b>		
Mounting Kit for 20 x 80	AV-TA01		Mounting Kit for 20 x 80	AV-TS01	
Mounting Kit for 20 x 80 (flattop only)	AV-TA02		Mounting Kit for 20 x 80 (flattop only)	AV-TS02	
Mounting Kit for 30 x 80	AV-TA03		Mounting Kit for 30 x 80	AV-TS03	
Mounting Kit for 30 x 80 (flattop only)	AV-TA04		Mounting Kit for 30 x 80 (flattop only)	AV-TS04	
Mounting Kit for 30 x 130	AV-TA05		Mounting Kit for 30 x 130	AV-TS05	
Mounting Kit for 30 x 130 (flattop only)	AV-TA06		Mounting Kit for 30 x 130 (flattop only)	AV-TS06	
Mounting Kit for 50 x 130	AV-TA07		Mounting Kit for 50 x 130	AV-TS07	
Mounting Kit for 50 x 130 (flattop only)	AV-TA08		Mounting Kit for 50 x 130 (flattop only)	AV-TS08	
Mounting Kit for existing standard shaft brackets	AV-PL001-1				
<b><u>Resin Mounting Kits for TVA</u></b>					
Mounting Kit for 20 x 80	AL-TR01				
Mounting Kit for 30 x 80	AL-TR04				
Mounting Kit for 30 x 130	AL-TR07				
Mounting Kit for 50 x 130	AL-TR09				