30D Series

Sanitary Clamp, Full Port, 3-way Ball Valves (3-A approved)

The Assured Automation 30 Series 3-A approved, full port, 3-way Ball valves have sanitary tri-clamp end connections. They are ideal for use in food processing and other clean service applications.

They include an ISO 5211 mounting pad for the direct mounting of actuators. Direct mount eliminates the need for extra space, weight, and cost.

A full range of accessory items are available including pneumatic and electric actuators, limit switches, solenoid valves, and manual override devices.

FEATURES

- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Latch locking handle
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

FLOW PLANS

L Port
Plan A

T Port
Plan D
Plan E

Plan F
Plan G

30 SERIES MODELLING NUMBERING

Model Number

Size:
C = 1/2”
D = 3/4”
E = 1”
G = 1 1/2”
H = 2”
I = 2 1/2”
J = 3”
K = 4”

Flow Plan:
A, D, E, F, G (see below)

Actuator:
A variety of actuators with accessories are available:

- Pneumatic
  - spring return or direct acting
  - NAMUR solenoid valves
  - push fittings
  - limit switches
  - positioners

- Electric
  - various IP ratings and voltages
  - modulating or on/off

- Manual
  - standard lever or lockable

TEMPERATURE RANGE
-4°F to 392°F
(see P/T curve on left)

PRESSURE RANGE
1000 psi WOG

Note: clamp end is limited by the type of clamp used
(see P/T curve on left)

SPECIAL OPTIONS

- Anti-static device

TYPICAL APPLICATIONS

- Dairy
- Water bottling
- Brewing
- Flavor & fragrance
- Food and Beverage

Contact us for the most recent product and technical information. Visit our website for more details: assuredautomation.com
30 Series
Sanitary Clamp End, Full Port 3-way Ball Valves
(Parts and Materials Details)

PARTS & MATERIALS

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30 Series

Sanitary Clamp End, Full Port 3-way Ball Valves with Manual Lever
(Dimensions in inches)

For Dimensions on Automated Assemblies
Please Contact Assured Automation at:
1-800-899-0553
or
sales@assuredautomation.com

FLOW PLANS

L Port
Plan A

T Port
Plan D

Plan E

Plan F

Plan G

DIMENSIONS, WEIGHTS & SPECIFICATIONS (in inches except where noted)

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* = A, D, E, F, or G (Flow Plan see below)

FLOWS PLANS

L Port
Plan A

T Port
Plan D

Plan E

Plan F

Plan G

VALVE FEATURES

• 3-A approved
• Sanitary clamp end connections
• Seats with cavity fillers to avoid media entrapment
• Full port bore
• ISO 5211 direct mount actuator mounting pad
• Blow-out proof stem
• Latch locking handle

VALVE SPECIFICATIONS

Temperature Range:
-4°F to 392°F
(see P/T curve on page 1)

Pressure:
1000 psi WOG

Note: clamp end is limited by the type of clamp used
(see P/T curve on page 1)
30DX_XFDA

Stainless steel, 3-way ball valves with double acting pneumatic actuator
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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VALVE FEATURES
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

PNEUMATIC ACTUATOR FEATURES
- F Series double acting rack and pinion actuator.
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicators
- High duty cycle
- Permanent lubrication
- Temperature range: -4°F to 175°F
30DX_XFSR
Stainless steel, 3-way ball valves with spring return pneumatic actuator
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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VALVE FEATURES
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

PNEUMATIC ACTUATOR FEATURES
- F Series spring return rack and pinion actuator.
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicators
- High duty cycle
- Permanent lubrication
- Temperature range: -4°F to 175°F
30DX_XODA
Stainless steel, 3-way ball valves with double acting pneumatic actuator
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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80 psi Minimum Actuator Air Supply = 8D

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60 psi Minimum Actuator Air Supply = 6D

VALVE FEATURES
• 3-A approved
• Sanitary clamp end connections
• Seats with cavity fillers to avoid media entrapment
• Full port bore
• ISO 5211 direct mount actuator mounting pad
• Blow-out proof stem
• Electric or pneumatic actuators available
• Solenoid valves and limit switches available

PNEUMATIC ACTUATOR FEATURES
• O Series double acting dual scotch yoke actuator.
• Corrosion resistant coating
• NAMUR solenoid mounting pad, ISO 5211 mounting standard
• Visual position indicators
• High duty cycle
• Permanent lubrication
• Temperature range: -4°F to 175°F
30DX_XOSR

Stainless steel, 3-way ball valves with double acting pneumatic actuator
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

### DIMENSIONS, WEIGHTS & SPECIFICATIONS

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### VALVE FEATURES
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

### PNEUMATIC ACTUATOR FEATURES
- O Series spring return dual scotch yoke actuator.
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicators
- High duty cycle
- Permanent lubrication
- Temperature range: -4°F to 175°F

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30DX_XK4
Stainless steel, 3-way ball valves with electric actuator, NEMA 4, 4X
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

ELECTRIC ACTUATOR FEATURES
• K Series electric actuator
• Most voltages available
• Quarter turn: 0-90° rotation
• NEMA 4/4X certified by UL labs
• ISO 5211 mounting standard
• Visual position indicators
• Self-locking drive train
• Mounts in any direction
• 1/2” NPT conduit connection
• CSA-NRTL/C and CE certified
• Temperature range: 0°F to 160°F

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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30DX_XK4
Stainless steel, 3-way ball valves with electric actuator, NEMA 4, 4X, Modulating 4-20mA
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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80 psi Minimum Actuator Air Supply = 85

VALVE FEATURES
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

ELECTRIC ACTUATOR FEATURES
- K Series electric actuator
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicators
- Self-locking drive train
- Mounts in any direction
- 1/2” NPT conduit connection
- CSA-NRTL/C and CE certified
- Temperature range: 0°F to 160°F
- Modulating Info
30DX_XR4

Stainless steel, 3-way ball valves with electric actuator, NEMA 4, 4X
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>Actuator</th>
<th>Wt (lbs.)</th>
<th>Model No.</th>
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80 psi Minimum Actuator Air Supply = 85

Dimensions:
- A
- B
- C
- D
- E
- F
- G
- H
- I

Valve Features:
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

Pneumatic Actuator Features:
- R Series electric actuator
- NEMA 4, 4X
- Voltages available: 120vAC, 12vDC, 24vDC
- Duty cycle: 25% at 120vAC, 100% at DC units
- ISO 5211 universal mounting
- Manual override
- Permanent lubrication
- Visual position indicator
- Temperature range: 0°F to 150°F
30DX_XV4
Stainless steel, 3-way ball valves with electric actuator, NEMA 4, 4X
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

**DIMENSIONS, WEIGHTS & SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<th>E</th>
<th>F</th>
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**VALVE FEATURES**
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

**PNEUMATIC ACTUATOR FEATURES**
- V4 Series electric actuator
- NEMA 4, 4X
- Voltages available: 120vAC, 220vAC, 24vAC, 12vDC, 24vDC.
- Duty cycle:
  - 25% for 120vAC (EV1)
  - 75% for 120vAC (EV3)
  - 100% for DC units
- ISO 5211 universal mounting
- Manual override
- Permanent lubrication
- Visual position indicator
- Temperature range: 0°F to 160°F

Contact us for the most recent product and technical information. Visit our website for more details: assuredautomation.com
30DX_XS4MV

Stainless steel, 3-way ball valves with multi-voltage electric actuator, IP67
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

**PNEUMATIC ACTUATOR FEATURES**

- S4 Series multi-voltage, reversible actuator
- 12 to 24VAC/DC or 85 to 240VAC/DC
- Internal thermostat controlled anti-condensation heater
- Isolated end of travel limit switches
- Manual override for emergency hand operation
- Electronic torque limiter
- Visual domed position indicator
- Temperature range: -4°F to 175°F
- Auto-voltage sensing reduces field wiring mistakes
- External wiring connection with DIN Plugs, no need to open unit for field wiring
- ISO5211 mounting flange
- CE marked.

**VALVE FEATURES**

- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

**DIMENSIONS, WEIGHTS & SPECIFICATIONS**

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<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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80 psi Minimum Actuator Air Supply = 85
30DX_XB7
Stainless steel, 3-way ball valves with multi-voltage electric actuator, IP67
(Sanitary clamp end connections with filled cavities, actuators are sized for 400psi pressure differential)

PNEUMATIC ACTUATOR FEATURES
- B7 Series electric actuator
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F and G
- (2) 1/2" NPT conduit entries
- Manual override
- Position indicator
- CSA certified
- Temperature range: 0°F to 160°F

DIMENSIONS, WEIGHTS & SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
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80 psi Minimum Actuator Air Supply = 85

Valve Features
- 3-A approved
- Sanitary clamp end connections
- Seats with cavity fillers to avoid media entrapment
- Full port bore
- ISO 5211 direct mount actuator mounting pad
- Blow-out proof stem
- Electric or pneumatic actuators available
- Solenoid valves and limit switches available

Pneumatic Actuator Features
- B7 Series electric actuator
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F and G
- (2) 1/2" NPT conduit entries
- Manual override
- Position indicator
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- Temperature range: 0°F to 160°F