**E200 Series**  
**Electric Level Control Switch**

**Application – High & Low Liquid Level Control; WP 1500 psig to 5000 psig**
- Float-actuated Electric Switch for Level Control
- Provides Electric Switch input for control systems, alarms and other switch operations
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- 316 Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .4 and above
- Direct mounting inside vessel or External Float Cage

**Features and Benefits of the Pathway E200**
- 316 SS wetted components for Durability and Corrosion Resistance
- Explosion Proof Certification by CSA to USA and Canada Standards
- Single Seal Application Approved
- Hermetically Sealed Reed Switch Cartridge to protect Integrity of Switch Contacts
- SPST and SPDT Switch Cartridges in Standard and Light Load Ratings
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability including Quick Replacement of Electric Switch Cartridge
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Normally Open or Closed operation by simply inverting Level Control unit
- Relay Assembly in Explosion Proof enclosure for DPDT and Higher Amperage service

**Specifications**
- **Working Pressure:** 1500 psig; available up to 5000 psig; 1500 psig with manual override
- **Temperature:** -40º F to +392º F
- **Specific Gravity:** 0.4 minimum; interface 0.1 differential minimum
- **Switch Ratings:**
  - SPST and SPDT 250V – 0.40A resistive, 120V – 0.83A resistive, 24V – 3.0A resistive; 3.0A maximum in-rush capability; 4 watts minimum for proper switching
  - SPST and SPDT Light Load 150V – 0.17A resistive, 110V – 0.23A resistive, 24V – 1.0A resistive; 1.0A maximum in-rush capability; 0.1 watts minimum for switching
- **Materials:** 316 Stainless Steel Wetted components; Hermetically sealed reed switch
- **Process Connection:** 1½” NPT standard, 2” NPT, ring bolt on E200C, 3” flanged or larger
- **Electrical Connection:** ½” NPT conduit
- **Certification:** CSA: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1 to USA & Canada Standards; (rating with relay enclosure Class I, Div. 1&2, Groups C,D; Class II, Div. 1, Groups E,F,G; Class II, Div. 2, Groups F,G; Class III )
- **CSA:** Single Seal applications per ANSI/ISA 12.27.01-2003

**E200 Common Options**
- Manual Override for Field Testing
- 316 SS and 304 SS flange
- Extended body with Vertical displacer
- Monel float
- SPST extended leads
- Float arm extensions
- Relay for DPDT and Higher Amperage
- Annulus plug for use with sediments

**Benefits of ALL Pathway Control Products**
- Personalized Service and Support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term Service
E200 Series
Electric Level Control Switch

Dimensions:

Ordering Chart:
E200 Series: Electric Level Control Switch
E200C: Ring Bolted External Cage; WP 1500 psig to 3000 psig (body style 0)

Body Style:
0  1½" NPT standard body; Ring Bolted on E200C (no manual override on ring bolt)
1  2" NPT
2  1½" NPT, manual override*
3  Extended body, 2" NPT, vertical displacer (type 3 or 9)
4  2" NPT, manual override*
6  Extended body, 2" NPT, manual override*, vertical displacer (type 3 or 9)
7  Extended body, 2" NPT, horizontal displacer (type 3 or 9)
8  Extended body, 2" NPT manual override*, horizontal displacer (type 3 or 9)

*WP 1500 psig on manual override

Displacer Type:
1  316 SS standard float, WP 1500 psig, 0.4 SG min (body style 0, 1, 2, 4)
2  Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on E200C, +180º F max temp; 0.6 SG min (body style 0, 1, 2, 4)
3  Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on E200C, +180º F max temp; upper fluid < .870 SG, lower fluid > .970 SG
4  Customer defined SG for upper and lower fluid interface
9  Polypropylene high pressure displacer, WP up to 5000 psig, +180º F max temp, 0.5 SG min (extended body style 3, 6, 7, 8)

Switch selection:
0  SPST standard load
1  SPDT standard load
2  SPST light load
3  SPDT light load

Other:
0  No other options
2  Annulus plug
3  Relay assembly general purpose plug-in, 24VDC DPDT 12 Amp
4  Relay assembly general purpose plug-in, 120VAC DPDT 12 Amp
7  Relay assembly general purpose plug-in, 240VAC DPDT 12 Amp
8  Relay assembly hermetically sealed plug-in, 24VDC DPDT 12 Amp
9  Relay assembly hermetically sealed plug-in, 120VAC DPDT 12 Amp
5  Customer Specified Requirements (see E200 common options)

Option (#) Assigned # for Customer Specific requirements

Example as Selected
E200 - 01 - 00
E200 Series – Manual Override

Electric Level Control Switch

Application – High & Low Liquid Level Control; WP up to 1500 psig

- Float-actuated Electric Switch for High & Low Liquid Level Control and Interface Control
- Provides Electric Switch input for control systems, alarms or other switch operations
- Low Specific Gravity of .4 and above
- Interface as low as .1 Specific Gravity differential
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Direct mounting inside vessel or threaded External Float Cage

Features and Benefits of the Pathway E200 with Manual Override

- Manual Override for ease of Field Testing
- 316 SS wetted components for Durability and Corrosion Resistance
- Explosion Proof Certification by CSA to USA and Canada Standards
- Single Seal application Approved
- Hermetically Sealed Switch Cartridge to protect Integrity of Switch Contacts
- SPST and SPDT Switch Cartridges in Standard and Light Load Ratings
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability including Quick Replacement of Electric Switch Cartridge
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Relay Assemblies in Explosion Proof enclosures for DPDT and Higher Amperage service

Specifications

- Working Pressure: Pressures up to 1500 psig with manual override
- Temperature: -40º F to +392º F
- Specific Gravity: 0.4 minimum; interface 0.1 differential minimum
- Switch Rating: SPST and SPDT, 250V – 0.40A resistive, 120V – 0.83A resistive, 24V – 3.0A resistive; 3.0A maximum in-rush capability; 4 watts minimum for proper switching
- SPST and SPDT Light Load 150V – 0.17A resistive, 110V – 0.23A resistive, 24V – 1.0A resistive; 1.0A maximum in-rush capability; 0.1 watts minimum for switching
- Materials: 316 Stainless Steel Wetted components; Hermetically sealed reed switch
- Process Connection: 1½” NPT standard, 2” NPT, 3” flanged or larger
- Electrical Connection: ½” NPT conduit
- Certification: CSA: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1 to USA & Canada Standards; (rating with relay enclosure Class I, Div. 1&2, Groups C,D; Class II, Div. 1, Groups E,F,G; Class II, Div. 2, Groups F,G; Class III )
- CSA: Single seal applications per ANSI/ISA 12.27.01-2003

E200 Manual Override Common Options

- 316 SS and 304 SS flange
- Extended body with Vertical Displacer
- Monel float
- SPST extended leads
- Float arm extensions
- Annulus plug for use with sediments
- Relay for DPDT and Higher Amperage

Benefits of ALL Pathway Control Products

- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
E200 Series – Manual Override

Electric Level Control Switch

Dimensions:

Ordering Chart:
E200 Series: Electric Level Control Switch

E200C: Ring Bolted External Cage; WP 1500 psig to 3000 psig (body style 0)

Body Style:
0  1½" standard body; Ring bolted on E200C (no manual override on ring bolt)
1  2" NPT
2  1½" NPT, manual override*
3  Extended body, 2" NPT, vertical displacer (type 3 or 9)
4  2" NPT, manual override*
6  Extended body, 2" NPT, manual override*, vertical displacer (type 3 or 9)
7  Extended body, 2" NPT, horizontal displacer (type 3 or 9)
8  Extended body, 2" NPT manual override*, horizontal displacer (type 3 or 9)

*WP 1500 psig on manual override

Displacer Type:
1  316 SS standard float, WP 1500 psig, 0.4 SG min (body style 0, 1, 2, 4)
2  Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on E200C, +180º F max temp; 0.6 SG min (body style 0, 1, 2, 4)
3  Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on E200C, +180º F max temp; upper fluid < .870 SG, lower fluid > .970 SG
4  Customer defined SG for upper and lower fluid interface
9  Polypropylene high pressure displacer, WP up to 5000 psig, +180º F max temp, 0.5 SG min (extended body style 3, 6, 7, 8)

Switch selection:
0  SPST standard load
1  SPDT standard load
2  SPST light load
3  SPDT light load

Other:
0  No other options
2  Annulus plug
3  Relay assembly general purpose plug-in, 24VDC DPDT 12 Amp
4  Relay assembly general purpose plug-in, 120VAC DPDT 12 Amp
7  Relay assembly general purpose plug-in, 240VAC DPDT 12 Amp
8  Relay assembly hermetically sealed plug-in, 24VDC DPDT 12 Amp
9  Relay assembly hermetically sealed plug-in, 120VAC DPDT 12 Amp
5  Customer Specified Requirements (see E200 common options)

Option (#)
Assigned # for Customer Specific requirements

Example as Selected

E200 - 41 - 10
E200 Series – Extended Body
Electric Level Control Switch

Application – High & Low Liquid Level Control; WP 1500 psig to 5000 psig
- Float-actuated Electric Switch for Level Control
- Provides Electric Switch input for control systems, alarms and other switch operations
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- 316 Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .5 and above
- Horizontal and Vertical Displacer options
- Extended Body provides increased reach inside vessel

Features and Benefits of the Pathway E200
- 316 SS wetted components for Durability and Corrosion Resistance
- Explosion Proof Certification by CSA to USA and Canada Standards
- Single Seal Application Approved
- Hermetically Sealed Reed Switch Cartridge to protect Integrity of Switch Contacts
- SPST and SPDT Switch Cartridges in Standard and Light Load Ratings
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability including Quick Replacement of Electric Switch Cartridge
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Normally Open or Closed operation by simply inverting Level Control unit
- Relay Assembly in Explosion Proof enclosure for DPDT and Higher Amperage service

Specifications
- Working Pressure: 1500 psig; available up to 5000 psig; 1500 psig with manual override
- Temperature: -40° F to +392° F
- Specific Gravity: 0.4 minimum; interface 0.1 differential minimum
- Switch Ratings: SPST and SPDT 250V – 0.40A resistive, 120V – 0.83A resistive, 24V – 3.0A resistive; 3.0A maximum in-rush capability; 4 watts minimum for proper switching
- SPST and SPDT Light Load 150V – 0.17A resistive, 110V – 0.23A resistive, 24V – 1.0A resistive; 1.0A maximum in-rush capability; 0.1 watts minimum for switching
- Materials: 316 Stainless Steel Wetted components; Hermetically sealed reed switch
- Process Connection: 1½” NPT standard, 2” NPT, ring bolt on E200C, 3” flanged or larger
- Electrical Connection: ½” NPT conduit
- Certification: CSA: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1 to USA & Canada Standards; (rating with relay enclosure Class I, Div. 1&2, Groups C,D; Class II, Div. 1, Groups E,F,G; Class II, Div. 2, Groups F,G; Class III )
- CSA: Single Seal applications per ANSI/ISA 12.27.01-2003

E200 Extended Body Common Options
- Manual Override for Field Testing
- 316 SS and 304 SS flange
- SPST extended leads
- Float arm extensions
- Relay for DPDT and Higher Amperage
- Annulus plug for use with sediments

Benefits of ALL Pathway Control Products
- Personalized Service and Support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term Service
E200 Series – Extended Body
Electric Level Control Switch

Dimensions:

Ordering Chart:

E200 Series: Electric Level Control Switch
E200C: Ring Bolted External Cage; WP 1500 psig to 3000 psig (body style 0)

Body Style:
0 1½" NPT standard body; Ring Bolted on E200C (no manual override on ring bolt)
1 2" NPT
2 1½" NPT, manual override*
3 Extended body, 2" NPT, vertical displacer (type 3 or 9)
4 2" NPT, manual override*
6 Extended body, 2" NPT, manual override*, vertical displacer (type 3 or 9)
7 Extended body, 2" NPT, horizontal displacer (type 3 or 9)
8 Extended body, 2" NPT manual override*, horizontal displacer (type 3 or 9)

Displacer Type:
1 316 SS standard float, WP 1500 psig, 0.4 SG min (body style 0, 1, 2, 4)
2 Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on E200C, +180º F max temp; 0.6 SG min (body style 0, 1, 2, 4)
3 Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on E200C, +180º F max temp; upper fluid < .870 SG, lower fluid > .970 SG
4 Customer defined SG for upper and lower fluid interface
9 Polypropylene high pressure displacer, WP up to 5000 psig, +180º F max temp, 0.5 SG min (extended body style 3, 6, 7, 8)

Switch selection:
0 SPST standard load
1 SPDT standard load
2 SPST light load
3 SPDT light load

Other:
0 No other options
2 Annulus plug
3 Relay assembly general purpose plug-in, 24VDC DPDT 12 Amp
4 Relay assembly general purpose plug-in, 120VAC DPDT 12 Amp
7 Relay assembly general purpose plug-in, 240VAC DPDT 12 Amp
8 Relay assembly hermetically sealed plug-in, 24VDC DPDT 12 Amp
9 Relay assembly hermetically sealed plug-in, 120VAC DPDT 12 Amp
5 Customer Specified Requirements (see E200 common options)

Option (#)
Assigned # for Customer Specific requirements

Example as Selected
E200 - 79 - 10
EV200 Series
Electric Vertical Level Control Switch

Application – High & Low Liquid Level Control; WP 250 psig
- Float-actuated Electric Vertical Switch for High & Low Liquid Level Control
- Provides Electric Switch input for control systems, alarms or other switch operations
- Low Specific Gravity of .7 and above
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels

Features and Benefits of the Pathway EV200
- 316 SS wetted components for Durability and Corrosion Resistance
- Explosion Proof Certification by CSA to USA and Canada Standards
- Single Seal Application Approved
- Hermetically Sealed Switch Cartridge to protect Integrity of Switch Contacts
- SPST and SPDT Switch Cartridges in Standard and Light Load Ratings
- No Internal Seal thus eliminating the possibility of process fluid leakage
- Normally Open or Normally Closed Operation
- Float options and Float Arm extensions to meet most applications
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability including Quick Replacement of Electric Switch Cartridge
- Relay Assemblies in Explosion Proof enclosures for DPDT and Higher Amperage service

Specifications

<table>
<thead>
<tr>
<th>Working Pressure:</th>
<th>250 psig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>-40º F to +392º F</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>0.7 minimum</td>
</tr>
<tr>
<td>Switch Rating:</td>
<td>SPST and SPDT 250V – 0.40A resistive, 120V – 0.83A resistive, 24V – 3.0A resistive; 3.0A maximum in-rush capability; 4 watts minimum for proper switching SPST and SPDT Light Load 150V – 0.17A resistive, 110V – 0.23A resistive, 24V – 1.0A resistive; 1.0A maximum in-rush capability; 0.1 watts minimum for switching</td>
</tr>
<tr>
<td>Materials:</td>
<td>316 Stainless Steel Wetted components; Hermetically sealed reed switch</td>
</tr>
<tr>
<td>Process Connection:</td>
<td>1½” NPT standard, 2” NPT, 2” flanged or larger</td>
</tr>
<tr>
<td>Electrical Connection:</td>
<td>½” NPT conduit</td>
</tr>
<tr>
<td>Certification:</td>
<td>CSA: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1 to USA &amp; Canada Standards; (rating with relay enclosure Class I, Div. 1&amp;2, Groups C,D; Class II, Div. 1, Groups E,F,G; Class II, Div. 2, Groups F,G; Class III ) CSA: Single seal applications per ANSI/ISA 12.27.01-2003</td>
</tr>
</tbody>
</table>

EV200 Common Options
- 316 SS and 304 SS flange
- Variety of float extensions and floats
- Float arm turbulence protective guide
- SPST extended leads
- Relay for DPDT and Higher Amperage

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
EV200 Series
Electric Vertical Level Control Switch

Dimensions:

Ordering Chart:
EV200 Series: Electric Vertical Level Control Switch; WP 250 psig

Body Style:
0 1½" NPT, standard body, normally open
1 2" NPT, normally open
2 1½" NPT, normally closed
3 2" NPT, normally closed

Displacer Type:
1 3" O.D. 316 SS standard float with 4" float arm
2 3" O.D. 316 SS float, extended arm 4" to 12" (specify length)
3 3½" x 6", 316 SS float, extended arm 12" to 36" (specify length)
4 5½" O.D. 316 SS float, extended arm 36" to 72" (specify length)
6 5½" O.D. 316 SS float, extended arm 72" to 96" (specify length)
5 Optional float sizes and float arm extensions (Customer to specify)

Switch selection:
0 SPST Standard load
1 SPDT Standard load
2 SPST Light load
3 SPDT Light load

Other:
0 No other options selected
1 Float arm turbulence protective guide
3 Relay assembly general purpose plug-in, 24VDC DPDT 12 Amp
4 Relay assembly general purpose plug-in, 120VAC DPDT 12 Amp
7 Relay assembly general purpose plug-in, 240VAC DPDT 12 Amp
8 Relay assembly hermetically sealed plug-in, 24VDC DPDT 12 Amp
9 Relay assembly hermetically sealed plug-in, 120VAC DPDT 12 Amp
5 Customer Specified Requirements (see EV200 common options)

Option (#) Assigned # for Customer Specific requirements

Example as Selected EV200 - 01 - 01
# E200NF Series
## Electric Flow Indicator

### Application – Flow Indicator; WP up to 5000 psig
- Paddle operated Electric Indicator of liquid or gas flow or no flow in piping systems
- Provides Electric Switch input for control systems, alarms or other operations
- Liquid Flow indicated at 1.0 ft./sec and greater; No flow indicated at less than .75 ft./sec
- Direct mounting inside vessel or pipe

### Features and Benefits of the Pathway E200NF
- 316 SS wetted components for Durability and Corrosion Resistance
- Explosion Proof Certification by CSA to USA and Canada Standards
- Single Seal Application Approved
- Wide variety of Paddle lengths to meet most applications
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Hermetically Sealed Switch Cartridge to protect Integrity of Switch Contacts
- SPST and SPDT Switch Cartridges in Standard and Light Load Ratings
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability and quick replacement of Electric Switch Cartridge
- Simply Rotate the device to change flow sensing direction
- Relay Assembly in Explosion Proof enclosures for DPDT and Higher Amperage service

### Specifications
| Working Pressure: | 5000 psig; 1500 psig with manual override |
| Temperature: | -40º F to +392º F |
| Switch Rating: | SPST and SPDT 250V – 0.40A resistive, 120V – 0.83A resistive, 24V – 3.0A resistive; 3.0A maximum in-rush capability; 4 watts minimum for proper switching SPST and SPDT Light Load 150V – 0.17A resistive, 110V – 0.23A resistive, 24V – 1.0A resistive; 1.0A maximum in-rush capability; 0.1 watts minimum for switching |
| Materials: | 316 Stainless Steel Wetted components; Hermetically sealed reed switch |
| Process Connections: | 1½” NPT standard, 2” NPT, 2” flanged or larger |
| Electrical Connections: | ½” NPT conduit |
| Certification: | CSA: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1 to USA & Canada Standards; (rating with relay enclosure Class I, Div. 1&2, Groups C,D; Class II, Div. 1, Groups E,F,G; Class II, Div. 2, Groups F,G; Class III ) CSA: Single seal applications per ANSI/ISA 12.27.01-2003 |

### E200NF Common Options
- 316 SS and 304 SS flange
- Variety of paddle lengths
- SPST extended leads

### Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service

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*Note: All specifications and options are subject to change without notice. For the most current information, please visit www.PathwayControl.com.*
## E200NF Series
### Electric Flow Indicator

### Dimensions:

![Diagram of E200NF Series Electric Flow Indicator]

### Ordering Chart:

**E200NF Series: Electric Flow Indicator; WP 5000 psig standard**

#### Body Style:
- **0**: 1½” NPT standard body
- **1**: 2” NPT

#### Paddle Type:
- **1**: 1½” standard paddle length
- **2**: 2” paddle length
- **3**: 3” paddle length
- **4**: 4” paddle length
- **6**: 6” paddle length
- **8**: 8” paddle length
- **0**: 10” paddle length
- **5**: Customer Specified paddle length

#### Switch selection:
- **0**: SPST Standard load
- **1**: SPDT Standard load
- **2**: SPST Light load
- **3**: SPDT Light load

#### Other:
- **0**: No other options
- **2**: Annulus plug
- **3**: Relay assembly general purpose plug-in, 24 VDC DPDT 12 Amp
- **4**: Relay assembly general purpose plug-in, 120 VAC DPDT 12 Amp
- **7**: Relay assembly hermetically sealed plug-in, 24 VDC DPDT 12 Amp
- **8**: Relay assembly hermetically sealed plug-in, 120 VAC DPDT 12 Amp
- **5**: Customer Specified Requirements (see E200NF common options)

#### Option (#)
- **0**: Assigned # for Customer Specific requirements

### Example:

- **E200NF-**
- **0**: 1½” NPT standard body
- **1**: 1½” standard paddle length
- **2**: SPST Standard load
- **0**: No other options

**Example as Selected**: E200NF - 01 - 20
Snap Acting Non-Bleed Pneumatic Level Control

Application – High & Low Liquid Level Control; WP 1500 psig to 5000 psig
- Float-actuated Pneumatic Switch for High or Low Level control or to operate Control Valves
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .5 and above
- Snap Acting Non-Bleed from 0 to full supply
- Direct mounting inside vessel or External Float Cage

Features and Benefits of the Pathway P120
- Durable, Dependable 316 SS wetted components for Corrosion Resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability and Ease of Repair with Quick-change replacement parts
- Economical small-float installation
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Direct-acting or Indirect-acting simply by altering the supply and exhaust connections

Specifications
- Output: Snap Acting, Non-Bleed from 0 to Full Supply
- Working Pressure: 1500 psig; available up to 5000 psig; 1500 psig with manual override
- Supply Pressure: 30 psig standard; 60 psig and 100 psig available
- Temperature: -40°F to +450°F
- Specific Gravity: 0.5 minimum; 0.4 minimum with counterweight; interface 0.1 differential
- Materials: 316 Stainless Steel Wetted components; optional materials available
- Process Connection: 2" NPT standard, 1½" NPT, Ring Bolt on P120C, 3" flanged or larger
- Supply/Output Connection: ¼" NPT

P120 Common Options
- Manual Override for Field Testing
- 1½" NPT process connection
- 316 SS and 304 SS flanged
- Float Arm Extensions of 2", 4", 6" on standard body style
- Counterweight for Lower S.G.
- Extended body with horizontal or vertical displacer
- Stainless Steel Vent assembly
- Annulus Plug for use with sediments

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & Proven design providing Dependable, Long-term service
# P120 Series
Snap Acting Non-Bleed Pneumatic Level Control

## Dimensions:

![Diagram of P120 Series Pneumatic Level Control](image)

## Ordering Chart:

**P120 Series: Pneumatic Level Control**

**P120C:** Ring Bolted External Cage, WP 1500 psig to 3000 psig (body style 0)

**Body Style:**

<table>
<thead>
<tr>
<th>Body Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Ring bolted body on P120C (no manual override; no extended body)</td>
</tr>
<tr>
<td>1</td>
<td>2” NPT standard body</td>
</tr>
<tr>
<td>2</td>
<td>2” NPT, manual override*</td>
</tr>
<tr>
<td>3</td>
<td>Extended body, 2” NPT, vertical displacer (type 3 or 9)</td>
</tr>
<tr>
<td>6</td>
<td>Extended body, 2” NPT, manual override*, vertical displacer (type 3 or 9)</td>
</tr>
<tr>
<td>7</td>
<td>Extended body, 2” NPT, horizontal displacer (type 3 or 9)</td>
</tr>
<tr>
<td>8</td>
<td>Extended body, 2” NPT, manual override*, horizontal displacer (type 3 or 9)</td>
</tr>
</tbody>
</table>

*WP 1500 psig on manual override

**Displacer Type:**

<table>
<thead>
<tr>
<th>Displacer Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>316 SS standard float, WP 1500 psig; 0.5 SG min (body style 0, 1, 2)</td>
</tr>
<tr>
<td>2</td>
<td>Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on P120C; +180° F max temp; 0.6 SG min. (body style 0, 1, 2)</td>
</tr>
<tr>
<td>3</td>
<td>Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on P120C; +180° F max temp; upper fluid &lt; .870 SG, lower fluid &gt; .970 SG</td>
</tr>
<tr>
<td>4</td>
<td>Customer defined SG for upper and lower fluid interface</td>
</tr>
<tr>
<td>9</td>
<td>Polypropylene high pressure displacer, WP up to 5000 psig; +180° F max temp; 0.5 SG min (extended body style 3, 6, 7, 8)</td>
</tr>
</tbody>
</table>

**Supply Pressure:**

<table>
<thead>
<tr>
<th>Supply Pressure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30 psig (flow rate 40 scfh at 30 psig)</td>
</tr>
<tr>
<td>2</td>
<td>60 psig (flow rate 25 scfh at 30 psig)</td>
</tr>
<tr>
<td>3</td>
<td>100 psig (flow rate 15 scfh at 30 psig)</td>
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**Other:**

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<td>No other options</td>
</tr>
<tr>
<td>2</td>
<td>Annulus plug</td>
</tr>
<tr>
<td>5</td>
<td>Customer Specified Requirements (see P120 common options)</td>
</tr>
</tbody>
</table>

**Option (#):**

<table>
<thead>
<tr>
<th>Option (#)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Assigned # for Customer Specific requirements</td>
</tr>
</tbody>
</table>

**Example as Selected**

P120 - 11 - 10
P120 Series – Manual Override
Snap Acting Non-Bleed Pneumatic Level Control

Application – High & Low Liquid Level Control; WP up to 1500 psig
- Float-actuated Pneumatic Switch for High or Low Level control or to operate Control Valves
- Manual Override provides easy In-service Testing
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .5 and above
- Snap Acting Non-Bleed from 0 to full supply
- Direct mounting inside vessel or threaded External Float Cage

Features and Benefits of the Pathway P120 with Manual Override
- Manual Override for ease of Field Testing
- Durable, Dependable 316 SS wetted components for Corrosion Resistance
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability and Ease of Repair with Quick-change replacement parts
- Economical small-float installation
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Direct-acting or Indirect-acting simply by altering the supply and exhaust connections

Specifications
Output: Snap Acting, Non-Bleed from 0 to Full Supply
Working Pressure: Pressures up to 1500 psig with Manual Override
Supply Pressure: 30 psig standard; 60 psig and 100 psig available
Temperature: -40º F to +450º F
Specific Gravity: 0.5 minimum; 0.4 minimum with counterweight; interface 0.1 differential
Materials: 316 Stainless Steel Wetted components; optional materials available
Process Connection: 2” NPT standard, 3” flanged or larger (1½” NPT not available)
Supply/Output Connection: ¼” NPT

P120 Manual Override Common Options
- 304 SS and 316 SS flange
- Counterweight for lower S.G.
- Annulus Plug for use with sediments
- Stainless Steel Vent assembly
- Float Arm Extensions of 2”, 4”, 6” on standard body style
- Extended body with Horizontal or Vertical displacer

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
P120 Series – Manual Override
Snap Acting Non-Bleed Pneumatic Level Control

Dimensions:

Ordering Chart:

P120 Series: Pneumatic Level Control
P120C: Ring Bolted External Cage, WP 1500 psig to 3000 psig (body style 0)

Body Style:
- 0: Ring bolted body on P120C (no manual override; no extended body)
- 1: 2" NPT standard body
- 2: 2" NPT, manual override*
- 3: Extended body, 2" NPT, vertical displacer (3 or 9)
- 6: Extended body, 2" NPT, manual override*, vertical displacer (3 or 9)
- 7: Extended body, 2" NPT, horizontal displacer (3 or 9)
- 8: Extended body, 2" NPT, manual override*, horizontal displacer (3 or 9)
  *WP 1500 psig on manual override

Displacer Type:
- 1: 316 SS standard float, WP 1500 psig, 0.5 SG min (body style 0, 1, 2)
- 2: Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on P120C, +180° F max temp, 0.6 SG min (body style 0, 1, 2)
- 3: Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on P120C, +180° F max temp; upper fluid < .870 SG, lower fluid > .970 SG
- 4: Customer defined SG for upper and lower fluid interface
- 9: Polypropylene high pressure displacer, WP up to 5000 psig, +180° F max temp, 0.5 SG min (extended body style 3, 6, 7, 8)

Supply Pressure:
- 1: 30 psig (flow rate 40 scfh at 30 psig)
- 2: 60 psig (flow rate 25 scfh at 30 psig)
- 3: 100 psig (flow rate 15 scfh at 30 psig)

Other:
- 0: No other options
- 2: Annulus plug
- 5: Customer Specified Requirements (see P120 common options)

Option (#):
- Assigned # for Customer Specific requirements

Example as Selected

Example:
P120-21-10
Application – High & Low Liquid Level Control; WP 1500 to 5000 psig
- Float-actuated Pneumatic Switch for High or Low Level control or to operate Control Valves
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators, process vessels
- Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .5 and above
- Snap Acting Non-Bleed from 0 to full supply
- Direct mounting inside vessel or external adaptor
- Extended body provides increased reach inside the vessel
- Horizontal and Vertical Displacer options

Features and Benefits of the Pathway P120 Extended Body
- Durable, Dependable 316 SS wetted components for Corrosion Resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving Parts for Reduced Maintenance and long term Performance
- Economical, Simple installation
- Excellent Serviceability and Ease of Repair with Quick-change replacement parts
- Displacer options for Interface applications
- Direct-acting or Indirect-acting simply by altering the supply and exhaust connections

Specifications
- Output: Snap Acting, Non-Bleed from 0 to Full Supply
- Working Pressure: Pressures up to 5000 psig; 1500 psig with manual override
- Supply Pressure: 30 psig standard; 60 psig and 100 psig available
- Temperature: -40º F to +180º F
- Specific Gravity: 0.5 minimum; interface 0.1 differential minimum
- Materials: 316 Stainless Steel Wetted components with polypropylene displacer
- Process Connection: 2” NPT Standard, 3” flanged or larger, no ring bolt with extended body
- Supply/Output Connection: ¼” NPT

P120 Extended Body Common Options
- Manual Override for Field Testing
- 304 SS and 316 SS flanged
- Float arm extensions from 2 “ to 6”
- Annulus Plug for use with sediments

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & Proven design providing Dependable, Long-term service
P120 Series – Extended Body
Snap Acting Non-Bleed Pneumatic Level Control

Dimensions:

Ordering Chart:

Example: P120 Series: Pneumatic Level Control
P120C: Ring Bolted External Cage, WP 1500 psig to 3000 psig (body style 0)

Body Style:
0  Ring bolted body (no manual override; no extended body)
1  2" NPT standard body
2  2" NPT, manual override*
3  Extended body, 2" NPT, vertical displacer (Type 3, 9)
6  Extended body, 2" NPT, manual override*, vertical displacer (Type 3, 9)
7  Extended body, 2" NPT, horizontal displacer (Type 3, 9)
8  Extended body, 2" NPT, manual override*, horizontal displacer (Type 3, 9)

*WP 1500 psig with manual override

Displacer Type:
1  316 SS standard float, 1500 psig, 0.5 SG min (body 0, 1, 2)
2  Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on P120C, +180° F max temp; SG 0.6 min. (body 0, 1, 2)
3  Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on P120C, +180° F max temp, upper fluid < .870 SG, lower fluid > .970 SG
4  Customer defined SG for upper and lower fluid interface
9  Polypropylene high pressure displacer, WP up to 5000 psig, +180° F max temp, 0.5 SG min (extended body style 3, 6, 7, 8)

Supply Pressure:
1  30 psig (flow rate 40 scfh at 30 psig)
2  60 psig (flow rate 25 scfh at 30 psig)

Other:
0  No other options
2: Annulus plug
5: Customer Specified Requirements (see P120 common options)

Option (#):
Assigned # for Customer Specific requirements

Example as Selected
P120 - 79 - 10
P120NF Series
Pneumatic Flow Indicator

Application – Flow Indicator; Working Pressure 5000 psig
- Pneumatic paddle operated device for indication of liquid flow or no flow in piping systems, accumulators and process vessels
- Provides a pneumatic output to operate control systems, alarms or other operations
- Stainless Steel construction for use with most Liquids or Liquid interfaces
- Snap Acting Non-Bleed from 0 to full supply
- Direct mounting inside a vessel or pipe

Features and Benefits of the Pathway P120NF
- Durable, Dependable 316 SS wetted components for Corrosion Resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving Parts for Reduced Maintenance and long term Performance
- Excellent Serviceability and Ease of Repair with Quick-change replacement parts
- Wide variety of Paddle Lengths to meet most applications

Specifications
- Output: Snap Acting, Non-Bleed from 0 to Full Supply
- Working Pressure: 5000 psig; 1500 psig with manual override
- Supply Pressure: 30 psig standard; 60 psig and 100 psig available
- Temperature: -40° F to +450° F
- Flow Indication: .75 ft/sec or less indicates no flow; 1.0 ft/sec or more indicates flow
- Materials: 316 Stainless Steel Wetted components; optional materials available
- Connections:
  - Process: 2” NPT standard, 1½” NPT and flanged units available
  - Supply & Output: 1/4” NPT

P120NF Common Options
- Variety of Paddle Lengths
- 1½” NPT process connection
- 316 SS and 304 SS flanged
- Annulus Plug for use with sediments

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-Time Delivery
- Time-tested & proven design providing Dependable, Long-term service
P120NF Series
Pneumatic Flow Indicator

Dimensions:

Ordering Chart:

P120NF Series: Pneumatic Flow Indicator; WP 5000 psig standard

Body Style:
1. 2" NPT standard body
2. 1½" NPT

Paddle Type:
1. 1½" standard paddle length
2. 2" paddle length
3. 3" paddle length
4. 4" paddle length
6. 6" paddle length
8. 8" paddle length
0. 10" paddle length
5. Customer specified paddle length

Supply Pressure:
1. 30 psig (flow rate 40 scfh at 30 psig)
2. 60 psig (flow rate 25 scfh at 30 psig)
3. 100 psig (flow rate 15 scfh at 30 psig)

Other:
0. No other options
2. Annulus plug
5. Customer Specified Requirements (see P120NF common options)

Option (#) Assigned # for Customer Specific requirements

Example as Selected
P120 - 11 - 10
PT100 Series
Throttling Pneumatic Level Control

Application – High & Low Liquid Level Control; WP 1500 psig to 5000 psig

- Float-actuated Throttling Pneumatic Level Control for High or Low Level control or to operate Control Valves
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Stainless Steel construction for use with most Liquids or Liquid Interfaces
- Low Specific Gravity of .4 and above
- Throttling output 3 – 15 psig with 20 psig supply
- Direct mounting inside vessel or External Float Cage

Features and Benefits of the Pathway PT100

- Durable, Dependable 316 SS wetted components for Corrosion Resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving Parts for Reduced Maintenance and long term Performance
- Economical small-float installation
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Replaceable Throttling Action Pilot
- Direct-acting or Indirect-acting simply by inverting the level control unit
- Manual Override option for Field Testing

Specifications

- Output: Throttling from 3 to 15 psig
- Working Pressure: 1500 psig; available up to 5000 psig; 1500 psig with manual override
- Supply Pressure: 20 psig minimum; 30 psig maximum
- Temperature: -40º F to +450º F
- Specific Gravity: 0.4 minimum; interface 0.1 differential
- Materials: 316 Stainless Steel wetted components; optional materials available
- Process Connection: 2” NPT standard, Ring Bolt on PT100C, 3” flanged or larger
- Supply/Output Connection: 1/8” NPT

PT100 Common Options

- Manual Override for Field Testing
- 316 SS & 304 SS flange connection
- Monel float
- Stainless Steel Vent assembly
- Annulus Plug for use with sediments

Benefits of ALL Pathway Control Products

- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & Proven design providing Dependable, Long-term service
# PT100 Series

## Throttling Pneumatic Level Control

### Dimensions:

![Diagram of PT100 Series](image)

### Ordering Chart:

**PT 100 Series: Throttling Pneumatic Level Control**

**PT100C:** Ring Bolted External cage; WP 1500 psig to 3000 psig (body style 0)

<table>
<thead>
<tr>
<th>Body Style:</th>
<th>0</th>
<th>2&quot; NPT standard body; Ring bolted body on PT100C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td>1</td>
<td>316 SS standard float, WP 1500 psig, 0.4 SG min</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on PT100C; +180°F max temp; 0.6 SG min</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig on PT100C; +180°F max temp; upper fluid &lt; .870 SG, lower fluid &gt; .970 SG</td>
</tr>
<tr>
<td>Other:</td>
<td>00</td>
<td>No other options</td>
</tr>
<tr>
<td></td>
<td>02:</td>
<td>Annulus plug</td>
</tr>
<tr>
<td></td>
<td>05:</td>
<td>Customer Specific Requirements (see PT100 Common Options)</td>
</tr>
</tbody>
</table>

**Example as Selected**

**Example:**

```
PT100 - 01 - 02
```
Snap Acting Pneumatic Level Control

Application – High & Low Liquid Level Control; WP 1500 psig to 5000 psig
- Float-actuated Snap Acting Pneumatic switch for High or Low Level Control or to operate Control Valves
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .4 and above
- Snap Acting from 0 to full supply
- Direct mounting inside vessel or External Float Cage

Features and Benefits of the Pathway P110
- Durable, Dependable 316 SS wetted components for Corrosion Resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few moving parts for Reduced Maintenance and long term Performance
- Economical small-float installation
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Replaceable Snap Acting Pilot
- Direct-acting or Indirect Acting achieved by simply inverting the level control
- Manual Override option for Field Testing

Specifications
- Output: Snap Acting from 0 to Full Supply
- Working Pressure: 1500 psig; available up to 5000 psig; 1500 psig with manual override
- Supply Pressure: 30 psig to 60 psig std; available 15 psig to 40 psig; 50 psig to 100 psig
- Temperature: -40º F to +450º F
- Specific Gravity: 0.4 minimum
- Materials: 316 Stainless Steel Wetted Components; optional materials available
- Process Connection: 2” NPT standard, Ring Bolt on P110C, 3” flanged or larger
- Supply/Output Connection 1/8” NPT

P110 Common Options
- Manual Override for Field Testing
- 316 SS & 304 SS flange connection
- 15 psig to 40 psig or 50 psig to 100 psig supply
- Monel float
- Stainless Steel vent
- Annulus Plug for use with sediments

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
P110 Series
Snap Acting Pneumatic Level Control

Dimensions:

Ordering Chart:

P110 Series: Snap Acting Pneumatic Level Control

P110C: Ring Bolted External Cage; WP 1500 psig to 3000 psig (body style 0)

Body Style:
0 2" NPT standard body; Ring bolted body on P110C

Displacer Type:
1 316 SS standard float, WP 1500 psig, 0.4 SG minimum
2 Polypropylene high pressure displacer, WP 5000 psig standard, 3000 psig on P110C, +180º F max temp, 0.6 SG min
3 Interface Polypropylene displacer, WP 5000 psig standard, 3000 psig max on P110C, +180º F max temp, upper fluid < .870 SG; lower fluid > .970 SG
4 Customer defined SG for upper and lower fluid interface

Other:
00 No other options
02: Annulus plug
05: Customer Specific Requirements (see P110 Common Options)

Option (#): Assigned # for Customer Specific Requirements

Example as Selected
P110 - 01 - 00
PT101 Extended Body
Throttling Pneumatic Level Control

Application – High & Low Liquid Level Control; WP 1500 psi to 2500 psi

- Float-actuated Throttling Pneumatic Level Control for high or low level control or to operate Control Valves
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Stainless Steel construction for use with most Liquids or Liquid Interfaces
- Low Specific Gravity of .4 and above
- Throttling output 3 – 15 psi with 20 psi supply
- Extended body provides increased reach inside the vessel
- Direct mounting inside vessel

Features and Benefits of the Pathway PT101

- Durable, Dependable 316 SS wetted components for corrosion resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving parts for Reduced Maintenance and long term Performance
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Economical small-float installation
- Replaceable Throttling Action Pilot
- Direct-acting or Indirect Acting simply by inverting the level control unit

Specifications

Output: Throttling from 3 to 15 psi
Working Pressure: 1500 psig; available to 2500 psig
Supply Pressure: 20 psi minimum; 30 psi maximum
Temperature: -40º F to +450º F
Specific Gravity: 0.4 minimum
Materials: 316 Stainless Steel wetted components; optional materials available
Process Connection: 2” NPT standard, available 3” flanged or larger
Supply/Output Connection: 1/8" NPT

PT101 Common Options

- 316 SS and 304 SS flanged
- Monel float
- Stainless Steel vent

Benefits of ALL Pathway Control Products

- Personalized service and support expertise; Responsive On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
PT101 Extended Body
Throttling Pneumatic Level Control

**Dimensions:**

![Diagram of PT101 Extended Body]

**Ordering Chart:**

- **PT101 Series: Pneumatic Level Control**

- **Body Style:**
  - 0: 2" NPT standard body

- **Type:**
  - 1: 316 SS standard float, 1500 psig, 0.4 SG min
  - 2: Polypropylene high pressure displacer, WP 2500 psig standard, +180° F max temp; 0.6 SG min
  - 3: Interface Polypropylene displacer, WP 2500 psig standard, +180° F max temp; upper fluid < .870 SG, lower fluid > .970 SG
  - 4: Customer defined SG for upper and lower fluid interface

- **Other:**
  - 00: No other options
  - 05: Customer Specified Requirements (see PT101 common options)

- **Option (#):**
  - Assigned # for Customer Specific requirements

**Example as Selected:**

PT101 - 01 - 00
P111 Extended Body
Snap Acting Pneumatic Level Control

Application – High & Low Pressure Control; working 1500 psi to 2500 psi

- Float-actuated Snap Acting Pneumatic switch for High or Low Level Control or to operate Control Valves
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Stainless Steel construction for use with most Liquids or Liquid interfaces
- Low Specific Gravity of .4 and above
- Snap Acting from 0 to full supply
- Direct mounting inside vessel
- Extended body provides increased reach inside the vessel

Features and Benefits of the Pathway P111

- Durable, Dependable 316 SS wetted components for corrosion resistance
- No Internal Seal used thus eliminating the possibility of process fluid leakage
- Few Moving parts for Reduced Maintenance and long term Performance
- Economical small-float installation
- Displacer options for various Pressure, Specific Gravity and Interface applications
- Replaceable Snap-acting Pilot
- Direct-acting or Indirect Acting achieved by simply inverting the level control

Specifications

- Output: Snap Acting from 0 to Full Supply
- Working Pressure: 1500 psig; available up to 2500 psig
- Supply Pressure: 30 psig to 60 psig; available 15 psig to 40 psig; 50 psig to 100 psig
- Temperature: -40º F to +450º F
- Specific Gravity: 0.4 minimum
- Materials: 316 Stainless Steel wetted components; optional materials available
- Process Connection: 2” NPT standard, available 3” flanged or larger
- Supply/Output Connection: 1/8” NPT

P111 Common Options

- 316 SS and 304 SS flanged
- 15 psig to 40 psig or 50 psig to 100 psig supply pressure supply
- Monel float
- Stainless Steel vent

Benefits of ALL Pathway Control Products

- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
P111 Extended Body
Snap Acting Pneumatic Level Control

Dimensions:

Ordering Chart:

P111: Pneumatic Level Control Switch with Extended Body

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style:</td>
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<tr>
<td>0</td>
<td>2” NPT standard body</td>
</tr>
<tr>
<td>Type:</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>316 SS standard float, WP 1500 psig, 0.4 SG min</td>
</tr>
<tr>
<td>2</td>
<td>Polypropylene high pressure displacer, WP 2500 psig standard; +180º F max temp; 0.6 SG min</td>
</tr>
<tr>
<td>3</td>
<td>Interface Polypropylene high pressure displacer, WP 2500 psig standard; +180º F max temp, upper fluid &lt; .870 SG; lower fluid &gt; .970 SG</td>
</tr>
<tr>
<td>Other:</td>
<td></td>
</tr>
<tr>
<td>00</td>
<td>No other options</td>
</tr>
<tr>
<td>05</td>
<td>Customer Specified Requirements (see P111 common options)</td>
</tr>
<tr>
<td>Option (#):</td>
<td>Assigned # for Customer Specific requirements</td>
</tr>
</tbody>
</table>

Example as Selected: P111 - 01 - 00
6100 Series
Electric Vapor Pressure or Head Pressure Switch

Application – Control Vapor Pressure or Liquid Level
- Electric pressure-actuated switch for controlling Vapor Pressure on a vessel or to provide Liquid Level Control
- Provides electric switch input for control systems, alarms or other operations
- Highly sensitive Pressure Switch is adjustable from 0” to 8” of water
- Liquid Static Head Switch is adjustable in a range from 2’ to 30’ of water
- Use on stock tanks or other vessels operating at atmospheric pressures
- Simple, Direct Mounting 2” NPT vessel connection

Features and Benefits of the Pathway 6100
- Rugged Heavy-duty construction for long service life and low maintenance
- Durable Switch Enclosure for electrical components
- Sensitive diaphragm provides accurate control over full range of device
- No floats or moving parts protruding inside the vessel
- Ease of installation with standard 2” NPT connection to the tank or vessel
- Three switches independently adjustable over the full control range
- Field adjustable trip points

Specifications
- Working Pressure: Atmospheric
- Vapor Pressure Range: Switch range from 0” to 8” of water
- Static Head Pressure Range: Head Pressure Switch range from 2’ to 30’ of water
- Temperature: -20º F to +180º F
- Switch Rating:
  - Vapor Pressure: SPST, Mercury, 1 amp at 115 V AC, .5 amp at 220 V AC
  - Static Head Pressure: SPST, Mercury, 6 amp at 115 V AC, 3 amp at 220 V AC
- Materials:
  - Cast iron body; aluminum stem (6100-1), stainless steel stem (6100-2);
  - Stainless steel switch rod; nylon reinforced nitrile diaphragm
- Process Connections: 2” NPT standard
- Electrical Connections: ½” NPT conduit standard

6100 Common Options
- Up to three additional switches for increased control points
- Light spring for more sensitive response to 15’ liquid level

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & Proven design provides Dependable, Long-term Service
6100 Series
Electric Vapor Pressure or Head Pressure Switch

Dimensions:

Ordering Chart:
6100 Series: Electric Vapor Pressure or Head Pressure Switch

Type:
1  Vapor Pressure Switch
2  Static Head Pressure Switch

Other:
01  No other options selected
05  Customer Specified Requirements (see 6100 common options)
Other Options (#)  Assigned # for Customer Specific requirements

Example as Selected  6100 - 1 - 01
C300 Series
External Cage for Liquid Level Controls

Application – External Cage; Working Pressure up to 5000 psig
- Use in applications where level controls are contained outside the vessel
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Choice of materials for use with most Liquids or Liquid interfaces
- May be used with most Pathway Liquid Level Control products or other brands with similar application
- Available with a variety of control connections including 1½” NPT, 2” NPT and ring bolted flange
- Process connections of 1” NPT, 1½” NPT, 2” NPT; Socket weld connections of 1”, 1½” and 2” on C300CS and C300SS

Features and Benefits of the Pathway C300 Series
- Heavy Duty, Rugged construction
- Choice of materials –
  - Ductile Iron – model C300
  - Carbon Steel – model C300CS
  - 316 Stainless Steel – model C303SS
- Variety of Control Connections and Process Connections available
- S100 Series Sight Glass may be added for Visual Inspection
- Available with Pathway Electric and Pneumatic Liquid Level Controls or separately

Specifications
- Working Pressure: 5000 psig standard; 3000 psig with ring bolted connection
- Temperature: -40º F to +450º F
- Materials: A395 Ductile iron; A352-LCC steel; 316L (CF3M) stainless steel
- Level Control Connection: 1½” NPT, 2” NPT, or Ring Bolted connection
- Process Connection: 1” NPT standard, available in 1½” and 2” NPT; socket weld connections of 1”, 1½” and 2” on C300CS and C300SS

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & Proven design providing Dependable, Long-term service
C300 Series
External Cage for Liquid Level Controls

Dimensions:

Ordering Chart:

C300: External Cage for Level Controls – Ductile Iron
C300CS: – Carbon Steel
C300SS: – Stainless Steel

Level Control Connections:

1  1½” NPT
2  2” NPT
3  Ring bolted, 3000 psig max

Process Connections:

1  1” NPT standard
2  1½” NPT
3  2” NPT
6  1” Socket Weld
7  1½” Socket Weld
8  2” Socket Weld
5  Other Process Connections as requested

Other:

00  No sight glass
01  S100 Sight glass, 1½” NPT, 3000 psig max
02  S100 Sight glass, 2” NPT, 3000 psig max
03  Connection for sight glass, 1½” NPT
04  Connection for sight glass, 2” NPT
05  Customer Specified Requirements

Option (#):

Assigned # for Customer Specific requirements

Example:

Example as Selected  C300 - 21 - 01
C303 Series
External Cage for Liquid Level Controls

Application – External Cage; Working Pressure 2500 psig
- Use in applications where level controls are contained outside of the vessel
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & process vessels
- Choice of materials for use with most liquids or liquid interfaces
- May be used with most Pathway Liquid Level Control products or other brands with similar application
- Available with a variety of control connections including 1½” NPT, 2” NPT and ring bolted flange
- Process connections of 1” NPT, 1½” NPT, 2” NPT and Socket weld connections of 1”, 1½” and 2”

Features and Benefits of the Pathway C303
- Heavy Duty Rugged Construction
- Choice of materials –
  - Carbon Steel – model C303CS
  - 316 Stainless Steel – model C303SS
- Variety of Control Connections and Process Connections available
- S100 Series Sight Glass may be added for Visual inspection
- Available with Pathway Electric or Pneumatic Liquid Level Controls or separate
- Custom fabrication available

Specifications
- Working Pressure: 2500 psig
- Temperature: -40º F to +450º F
- Materials: Carbon Steel or 316 Stainless Steel
- Level Control Connection: 1½” NPT, 2” NPT, or Ring Bolted connection
- Process Connections: 1” NPT standard, available 1½” and 2” NPT; socket weld connections of 1”, 1½” and 2”

Benefits of ALL Pathway Control Products
- Personalized service and support expertise; Responsive, On-time Delivery
- Time-tested & proven design providing Dependable, Long-term service
C303 Series
External Cage for Liquid Level Controls

Dimensions:

Ordering Chart:
C303CS: External Cage for Level Controls – Carbon Steel
C303SS: – Stainless Steel

Level Control Connection:
1 1½" NPT
2 2" NPT
3 Ring bolted steel, 2500 psig max

Process Connections:
1 1" NPT Standard
2 1½" NPT
3 2" NPT
6 1" Socket Weld
7 1½" Socket Weld
8 2" Socket Weld
5 Other Process Connections as requested

Other:
00 No sight glass
01 S100 Sight glass, 1½" NPT, 2500 psig max
02 S100 Sight glass, 2" NPT, 2500 psig max
03 Connection for Sight Glass, 1½" NPT
04 Connection for Sight Glass, 2" NPT
05 Customer Specified Requirements (such as flange size)

Option ( ): Assigned # based upon Customer Specific requirements

Example as Selected C303CS - 31 - 00
**S100 Series Sight Glass**

**Application – Sight Glass; WP 3000 psig at -20° F to +73° F**
- Use in applications where visual indication of liquid level is needed
- Provides visual indication on Level Controls or Safety Systems
- May be used with Pathway External Cage Models C300 and C303 and other applications using a 1½” or 2” NPT connection
- Use on production separators, heaters/treaters, scrubbers, liquid accumulators & other process vessels

**Features**
- Durable body constructed of 303 SS or 316 SS
- Clear polycarbonate window
- Purchase separately or together with Pathway Pneumatic or Electric Level Controls and External Cages

**Specifications**
- **Working Pressure:** Pressures up to 3000 psig from -20° F to +73° F, 2000 psig at -40° F, 2650 psig at +100° F, 2020 psig at +150° F, 1000 psig at +230° F max temp
- **Materials:** 303 SS standard, 316 SS; polycarbonate lens
- **Connections:** 1½” NPT, 2” NPT

**Ordering Chart:**

<table>
<thead>
<tr>
<th>S100: Sight Glass</th>
<th>Example:</th>
</tr>
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<tbody>
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<td><strong>Body Style:</strong></td>
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<tr>
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**Example as Selected**

```
S100 - 01 - 00
```