

# VÁLVULA DE DILUVIO ON-OFF CONTROLADA ELÉCTRICAMENTE CON CONTROL DE PRESIÓN

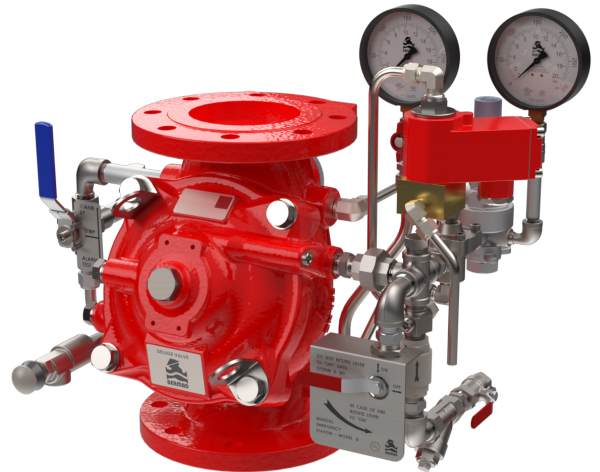
## Modelo FP-400Y-3DC

El modelo 400Y-3DC de BERMAD es una válvula de diluvio elastomérica, hidráulica y accionada por presión de línea, diseñada específicamente para sistemas avanzados de protección contra incendios y los estándares más recientes de la industria. La 400Y-3DC se activa mediante una válvula solenoide de 3 vías, con la cual la apertura y el cierre de la válvula de diluvio pueden controlarse de forma remota.

Un piloto limitador de presión integrado garantiza una presión de agua aguas abajo precisa y estable, preajustada.

La 400Y-3DC es ideal para sistemas de boquillas abiertas con suministro de agua a alta presión y está disponible con componentes eléctricos aptos para cualquier zona peligrosa.

El indicador de posición de la válvula opcional puede incluir un interruptor de límite adecuado para sistemas de monitoreo de gas y fuego.



### Características y ventajas

- Seguridad y confiabilidad
  - Diseño simple, probado en el tiempo, con activación a prueba de fallos
  - Sello de diafragma elastomérico de una sola pieza, robusto - tecnología VRSD
  - Ruta de flujo sin obstáculos y sin interrupciones
  - Sin partes mecánicas móviles
  - Se cierra por comando remoto
  - Garantiza una presión de agua aguas abajo precisa y estable
  - Interruptores de límite de posición de la válvula (opcional)
- Diseñada específicamente para protección contra incendios
  - Longitud cara a cara estandarizada según ISO 5752 EN 558-1
  - Cumple con los requisitos de los estándares de la industria
- Mantenimiento rápido y fácil
  - Servicio en línea
  - Retiro rápido y fácil de la tapa
  - Válvulas de drenaje giratorias (para válvulas de 3" y mayores)

### Aprobaciones



Listada UL  
Válvulas especiales de control de agua  
para sistemas, tipo diluvio (VLFT)  
Diámetros: 1½" - 16"



ABS  
American Bureau of Shipping  
Aprobación  
Tamaños 1½" - 12"



Det Norske Veritas  
Aprobación  
Tamaños de 1½" a 16"



Lloyd's Register  
Aprobación  
Tamaños 1½" - 10"

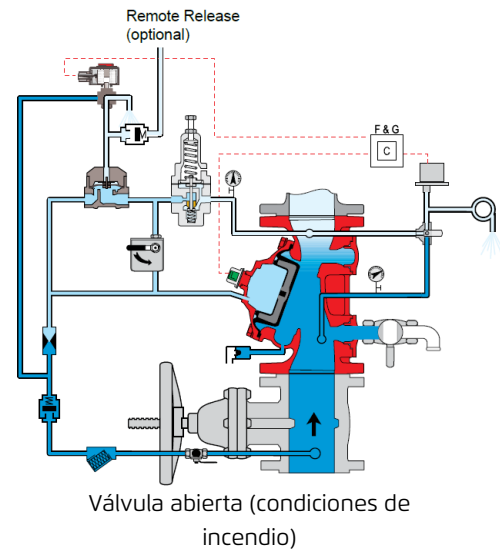
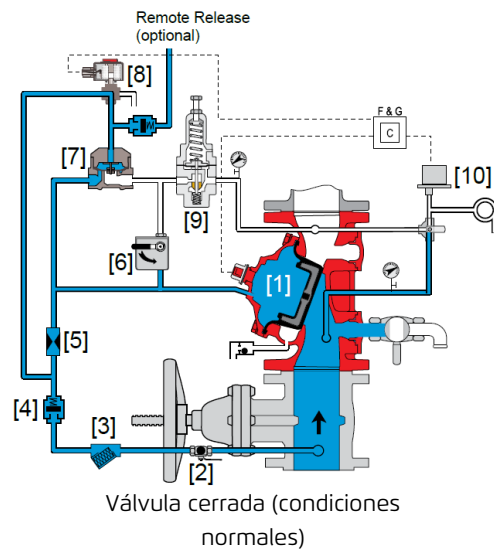
### Aplicaciones típicas

- Sistemas de Rociadores de Agua de Control Remoto
- Aplicaciones de espuma
- Sistemas de agua corrosiva
- Suministro de agua a alta presión

### Características adicionales

- Interruptores de límite de posición de válvula
- Compatibilidad con agua de mar
- Interruptor de presión de alarma
- Válvula de desagüe entrada/salida
- Revestimiento epoxi de alto espesor a base de zinc resistente a la corrosión

## Operación



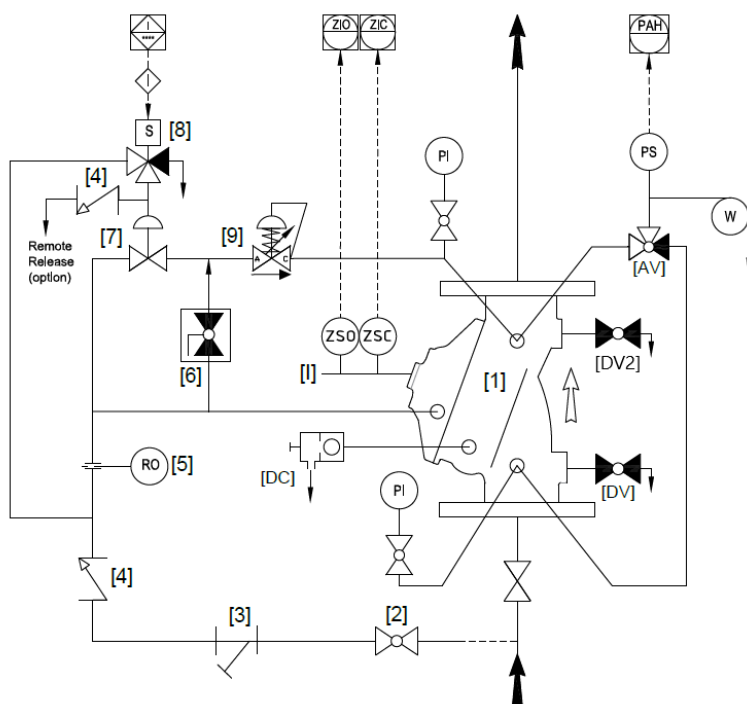
El modelo 400Y-3DC de BERMAD se mantiene cerrado por la presión de agua en la cámara de control [1]. Al liberar la presión de la cámara de control, la válvula se abre.

**En condiciones NORMALES**, la presión de agua se suministra a la cámara de control a través de la línea de cebado [2], el orificio de restricción [5] y el filtro [3], y luego queda atrapada en la cámara de control por una válvula de retención [4], el accionamiento manual de emergencia [6] y una válvula de relé (HRV) [7] que se mantiene cerrada por la presión hidráulica suministrada a través de una válvula solenoide de tres vías normalmente desenergizada [8].

**En condiciones de INCENDIO**, la presión de agua se libera de la cámara de control, ya sea mediante el accionamiento manual de emergencia o por la apertura de la HRV en respuesta a que la válvula solenoide sea energizada por el sistema de control de gas y fuego [C] o por el accionamiento remoto. Esto abre la válvula de diluvio 400Y-3DC, permitiendo que el agua fluya hacia la tubería del sistema y hacia el dispositivo de alarma [10].

La válvula piloto de control de presión [9] detecta los cambios en la presión de salida y modula la válvula principal para mantener la presión aguas abajo establecida.

## Esquema del sistema



| Componentes |                                          |
|-------------|------------------------------------------|
| 1           | Válvula de Diluvio BERMAD 400Y           |
| 2           | Priming ball valve                       |
| 3           | Priming strainer                         |
| 4           | Válvula de retención (cheque), tipo Lift |
| 5           | Restriction Orifice                      |
| 6           | Manual Emergency Release                 |
| 7           | Válvula de relé hidráulica HRV-2         |
| 8           | Válvula solenoide de 3 vías              |
| 9           | Válvula piloto de control de presión     |

| Elementos opcionales del sistema |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| PS                               | Presostato PS-10 o PS-40                                          |
| W                                | Kit de alarma para motor hidráulico, aluminio recubierto de epoxi |
| ZS                               | Conjunto del interruptor de límite *                              |
| DV2                              |                                                                   |
| I                                |                                                                   |
| DV                               |                                                                   |
| PI                               |                                                                   |
| AV                               |                                                                   |
| DC                               | Automatic drip check valve                                        |

\* Incluido con el sufijo A en el código de la válvula (componentes de drenaje e indicación)

Consulte las designaciones de código y "elementos adicionales suministrados de fábrica" en la página 4

## Instalación del sistema

Una instalación típica del modelo BERMAD 400Y-3DC cuenta con activación mediante una válvula de relé hidráulica y una válvula solenoide de 3 vías, accionadas por una señal del sistema de control de gas y fuego o por un botón de emergencia en sitio. Cuando está abierta y equipada con un interruptor de límite, la válvula puede enviar una señal de retroalimentación a un sistema remoto de monitoreo de posición de válvula.

Una válvula piloto de control de presión integrada en el trim de control garantiza una presión de agua abajo precisa y estable, preajustada.

## Elementos opcionales del sistema



S.S. Glycerin Filled  
Pressure Gauge



Visual Position  
Indicator, Linear



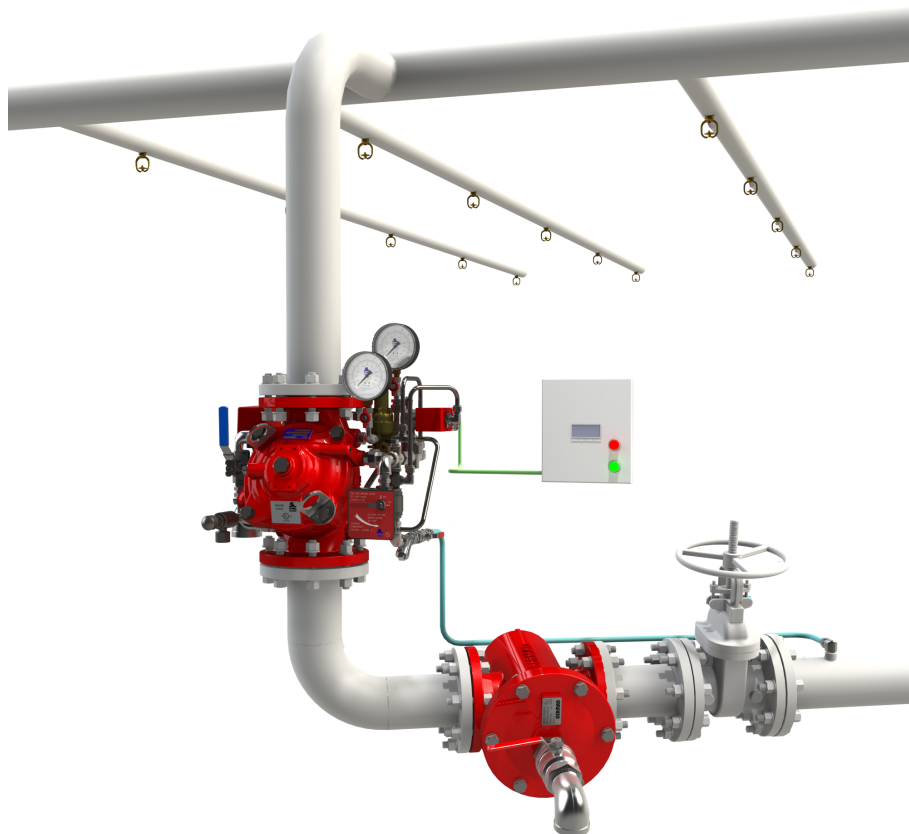
S.S. Pressure Switch  
E xd



Double Proximity  
Limit Switch,  
S.S.316, E xd



Basket Strainer -  
60F



## Especificaciones sugeridas

La válvula de diluvio deberá estar listada UL, con una presión nominal de 365 psi/25 bar, y contar con un cuerpo tipo Y de paso recto.

La válvula deberá tener un trayecto de flujo sin obstrucciones, sin guía de vástago ni costillas de soporte.

La válvula de diluvio no deberá tener partes móviles mecánicas, y la activación deberá utilizar un conjunto de diafragma de una sola pieza con tecnología VRSD.

La válvula deberá estar recubierta interna y externamente con protección UV. Opcional: grado C5-VH de la norma ISO-12944 para ambientes corrosivos.

La válvula solenoide deberá ser de 3 vías, aprobada FM y listada UL429A para 365 psi/25 bar, con el 65% del voltaje nominal.

El trim de control deberá incluir una válvula piloto de control de presión, una válvula de relé auxiliar, una unidad de accionamiento manual de emergencia, un filtro tipo Y, dos manómetros de presión de 4 pulgadas, un dren automático con mando manual y una válvula de drenaje de bola con giro de 360 grados.

Se deberá proporcionar un indicador de posición de válvula, equipado con dos interruptores de límite de proximidad.

La remoción de la tapa de la válvula para inspección y mantenimiento completos deberá realizarse en línea, sin requerir quitar el trim de control.

La válvula de diluvio y el trim de control deberán entregarse pre-ensamblados y probados hidráulicamente por una fábrica certificada UL/FM e ISO 9000, 9001.

## Datos técnicos

### Tamaños disponibles:

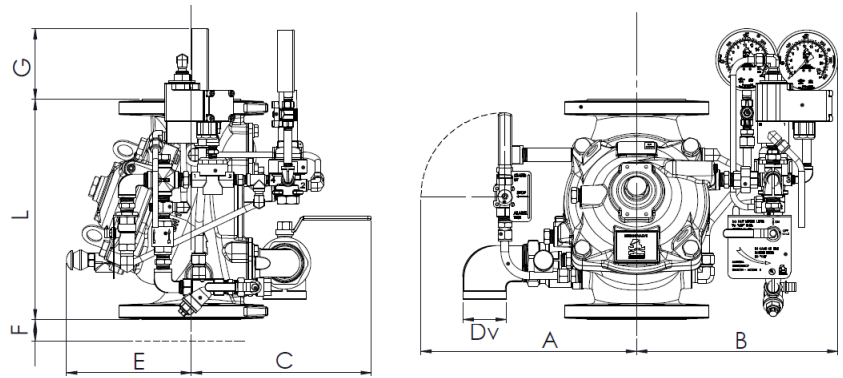
Embridada- 1½, 2, 2½, 3, 4, 6, 8, 10, 12, 14 & 16"  
Ranura (Victaulic)- 1½, 2, 3, 4, 6, 8 & 10"

### Presión nominal:

ANSI #150 - 17.2 bar | 250 psi  
ANSI #300: de 1½" a 10" - 25 bar | 365 psi  
ANSI #300 - 12" a 16" - 20 bar | 300 psi  
Ranura (Victaulic) - 17.2 / 25 bar | 25 / 365 psi  
rango de ajuste: 4 - 12 bar | 60 - 175 psi

### Elastómero:

HTNR - Fabric Reinforced High Temperature Compound - See engineering data



| Tamaño de Válvula | L #150<br>mm   in | L ranurado<br>mm   in | L #300<br>mm   in | A<br>mm   in | B<br>mm   in | C<br>mm   in | øD<br>in | E<br>mm   in | F<br>mm   in | G<br>mm   in | Peso #150<br>kg   lb | Peso #300<br>kg   lb |
|-------------------|-------------------|-----------------------|-------------------|--------------|--------------|--------------|----------|--------------|--------------|--------------|----------------------|----------------------|
| DN40   1½"        | 230   9.1         | 230   9.1             | 230   9.1         | 293   11.5   | 282   11.1   | 177   7.0    | ¾"       | 215   8.5    | 91   3.6     | 166   6.5    | 18   40              | 20   45              |
| DN50   2"         | 230   9.1         | 230   9.1             | 238   9.3         | 293   11.5   | 282   11.1   | 177   7.0    | ¾"       | 215   8.5    | 91   3.6     | 166   6.5    | 20   43              | 22   48              |
| DN80   3"         | 310   12.2        | 310   12.2            | 326   12.8        | 130   5.1    | 262   10.3   | 221   8.7    | 1½"      | 186   7.3    | 21   0.8     | 124   4.9    | 39   86              | 40   88              |
| DN100   4"        | 350   13.8        | 350   13.8            | 368   14.5        | 343   13.5   | 320   12.5   | 287   11.3   | 2"       | 199   7.8    | -            | 113   4.4    | 53   117             | 60   132             |
| DN150   6"        | 480   18.9        | 480   18.9            | 506   19.9        | 358   14.1   | 374   14.7   | 302   11.9   | 2"       | 234   9.2    | -            | 72   2.8     | 101   222            | 116   255            |
| DN200   8"        | 600   23.6        | 600   23.6            | 626   24.7        | 392   15.4   | 433   17     | 317   12.5   | 2"       | 301   11.8   | -            | 37   1.5     | 170   374            | 190   418            |
| DN250   10"       | 730   28.7        | 730   28.7            | 730   28.7        | 406   16     | 433   17     | 317   12.5   | 2"       | 301   11.8   | -            | -            | 203   447            | 240   528            |
| DN300   12"       | 850   33.5        | -                     | 888   35          | 478   18.8   | 463   18.2   | 380   15     | 2"       | 441   17.4   | -            | 14   0.5     | 365   803            | 405   891            |
| DN350   14"       | 980   38.6        | -                     | 980   38.6        | 478   18.8   | 463   18.2   | 379   14.9   | 2"       | 441   17.4   | -            | -            | 401   882            | 473   1041           |
| DN400   16"       | 1100   43.3       | -                     | 1100   43.3       | 478   18.8   | 463   18.2   | 405   15.9   | 2"       | 417   16.4   | -            | -            | 452   994            | 572   1258           |

**IMPORTANTE:** Las dimensiones del contorno del trim o sus extensiones se refieren a una orientación vertical y pueden variar según la posición específica de los componentes. Aparte de la dimensión "L", permita una tolerancia de al menos ±15%.

## Valve Code Designations

| FP                                                                                                                                                                | 6"                   | 400Y-3DC | 03       | V  | C        | A5 | ER   | 4DC | NN                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N6nW       |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                                      |              |      |          |   |            |   |                                                                                                                                                                                                                                                                                                                                                                     |                                      |      |                                  |   |                                    |   |                     |   |                         |   |                       |   |                                                                                                                                                                                                                |         |      |                  |    |                                            |    |          |    |                                          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                                                                                                                                                           |                 |      |            |    |            |    |            |    |            |    |          |    |          |    |                                             |    |                                           |    |                                                                                                                                                                                                                                                                      |                    |      |                       |    |                       |    |                                 |    |      |   |                                                                                                                                                                                                                         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                            |   |                                                     |    |                                              |    |                                     |   |                     |   |                       |    |                       |    |                                    |   |             |    |                                           |   |                      |   |                          |   |                          |   |                    |   |                                     |   |                                 |   |                                                                                                                                                                                                    |                   |      |                     |    |           |    |              |    |
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| <table><tr><th>Category</th><th>Code</th></tr><tr><td>Standard</td><td>FP</td></tr><tr><td>Seawater</td><td>FS</td></tr><tr><td>Foam</td><td>FC</td></tr></table> | Category             | Code     | Standard | FP | Seawater | FS | Foam | FC  | <table><tr><th>Valve Size</th><th></th></tr><tr><td>1½"</td><td>40 mm</td></tr><tr><td>2"</td><td>50 mm</td></tr><tr><td>2½"</td><td>60 mm<sup>(6)</sup></td></tr><tr><td>3"</td><td>80 mm</td></tr><tr><td>4"</td><td>100 mm</td></tr><tr><td>6"</td><td>150 mm</td></tr><tr><td>8"</td><td>200 mm</td></tr><tr><td>10"</td><td>250 mm</td></tr><tr><td>12"</td><td>300 mm</td></tr><tr><td>14"</td><td>350 mm</td></tr><tr><td>16"</td><td>400 mm</td></tr></table> | Valve Size |  | 1½" | 40 mm | 2" | 50 mm | 2½" | 60 mm <sup>(6)</sup> | 3" | 80 mm | 4" | 100 mm | 6" | 150 mm | 8" | 200 mm | 10" | 250 mm | 12" | 300 mm | 14" | 350 mm | 16" | 400 mm | <table><tr><th>Installation</th><th>Code</th></tr><tr><td>Vertical</td><td>V</td></tr><tr><td>Horizontal</td><td>H</td></tr></table> | Installation | Code | Vertical | V | Horizontal | H | <table><tr><th>Material Body &amp; Cover <sup>(1)</sup></th><th>Code</th></tr><tr><td>Ductile Iron A356 <sup>(2)</sup></td><td>C</td></tr><tr><td>Steel ASTM A216 WCB <sup>(2)</sup></td><td>S</td></tr><tr><td>Stainless Steel 316</td><td>N</td></tr><tr><td>Nickel Al Bronze C95800</td><td>U</td></tr><tr><td>Super Duplex Grade 5A</td><td>D</td></tr></table> | Material Body & Cover <sup>(1)</sup> | Code | Ductile Iron A356 <sup>(2)</sup> | C | Steel ASTM A216 WCB <sup>(2)</sup> | S | Stainless Steel 316 | N | Nickel Al Bronze C95800 | U | Super Duplex Grade 5A | D | <table><tr><th>Coating</th><th>Code</th></tr><tr><td>High Build Epoxy</td><td>ER</td></tr><tr><td>Zinc Based High Build Epoxy <sup>(5)</sup></td><td>ZR</td></tr><tr><td>Uncoated</td><td>UC</td></tr></table> | Coating | Code | High Build Epoxy | ER | Zinc Based High Build Epoxy <sup>(5)</sup> | ZR | Uncoated | UC | <table><tr><th>Voltage - Main Valve<br/>N.O. or N.C. *</th><th>Code</th></tr><tr><td>24VDC - N.C.</td><td>4DC</td></tr><tr><td>24VDC - N.O.</td><td>4DO</td></tr><tr><td>24VDC - Latch</td><td>4DS</td></tr><tr><td>110VDC - N.C.</td><td>5DC</td></tr><tr><td>110VDC - N.O.</td><td>5DO</td></tr><tr><td>110 - 120/AC - N.C.</td><td>5AC</td></tr><tr><td>110 - 120/AC - N.C.</td><td>5AO</td></tr><tr><td>220 - 240/AC - N.C.</td><td>2AC</td></tr><tr><td>221 - 240/AC - N.C.</td><td>2AO</td></tr></table> | Voltage - Main Valve<br>N.O. or N.C. * | Code | 24VDC - N.C. | 4DC | 24VDC - N.O. | 4DO | 24VDC - Latch | 4DS | 110VDC - N.C. | 5DC | 110VDC - N.O. | 5DO | 110 - 120/AC - N.C. | 5AC | 110 - 120/AC - N.C. | 5AO | 220 - 240/AC - N.C. | 2AC | 221 - 240/AC - N.C. | 2AO | <table><tr><th>End Connections</th><th>Code</th></tr><tr><td>ANSI#150RF</td><td>A5</td></tr><tr><td>ANSI#150FF</td><td>a5</td></tr><tr><td>ANSI#300RF</td><td>A3</td></tr><tr><td>ANSI#300FF</td><td>a3</td></tr><tr><td>ISO PN16</td><td>16</td></tr><tr><td>ISO PN25</td><td>25</td></tr><tr><td>Grooved Class 250psi/17.2bar<sup>(5)</sup></td><td>VI</td></tr><tr><td>Grooved Class 365psi/25bar<sup>(5)</sup></td><td>V2</td></tr></table> | End Connections | Code | ANSI#150RF | A5 | ANSI#150FF | a5 | ANSI#300RF | A3 | ANSI#300FF | a3 | ISO PN16 | 16 | ISO PN25 | 25 | Grooved Class 250psi/17.2bar <sup>(5)</sup> | VI | Grooved Class 365psi/25bar <sup>(5)</sup> | V2 | <table><tr><th>Additional Feature</th><th>Code</th></tr><tr><td>Closing Speed Control</td><td>01</td></tr><tr><td>Opening Speed Control</td><td>02</td></tr><tr><td>Opening &amp; Closing Speed Control</td><td>03</td></tr><tr><td>None</td><td>-</td></tr></table> | Additional Feature | Code | Closing Speed Control | 01 | Opening Speed Control | 02 | Opening & Closing Speed Control | 03 | None | - | <table><tr><th>Factory Supplied Additional Items</th><th>Code</th></tr><tr><td>General Purpose NEMA-4 Pressure Switch</td><td>P</td></tr><tr><td>Ex Proof NEC, Div.1 Pressure Switch <sup>(3)</sup></td><td>P7</td></tr><tr><td>Ex d ATEX Pressure Switch <sup>(3)</sup></td><td>P9</td></tr><tr><td>Ex d Pressure Switch, SS316 Enclosure <sup>(3)</sup></td><td>P9Jn</td></tr><tr><td>Ex d Pressure Switch, SS316 Enclosure, Monel Sensor <sup>(3)</sup></td><td>P9mJn</td></tr><tr><td>Single Limit Switch, General Purpose</td><td>S</td></tr><tr><td>Single Ex d Proximity limit Switch</td><td>S9</td></tr><tr><td>Double Ex d Proximity Limit Switch</td><td>SS9</td></tr><tr><td>Double Ex d Proximity Limit Switch with SS316 Junction Box</td><td>SS9Jn</td></tr><tr><td>Pressure Gauge Assembly<sup>(3)</sup></td><td>6</td></tr><tr><td>S.S Glycerin Pressure Gauge Assembly <sup>(3)</sup></td><td>6n</td></tr><tr><td>Monel Pressure Gauge Assembly <sup>(3)</sup></td><td>6m</td></tr><tr><td>Ex Proof NEC Class 1 Div 1 Solenoid</td><td>7</td></tr><tr><td>Ex. d Atex Solenoid</td><td>9</td></tr><tr><td>Magna Latch – 2 wires</td><td>H2</td></tr><tr><td>Magna Latch – 3 wires</td><td>H3</td></tr><tr><td>Stainless steel 316 Solenoid Valve</td><td>K</td></tr><tr><td>Drain Valve</td><td>DV</td></tr><tr><td>Water Motor Alarm Assembly <sup>(3)</sup></td><td>W</td></tr><tr><td>Large Control Filter</td><td>F</td></tr><tr><td>Valve Position Indicator</td><td>I</td></tr><tr><td>S.S 316 Trim Accessories</td><td>N</td></tr><tr><td>S.S Solenoid Valve</td><td>K</td></tr><tr><td>Pressure Transmitter <sup>(3)</sup></td><td>Q</td></tr><tr><td>Drain and Indicating Components</td><td>A</td></tr></table> | Factory Supplied Additional Items | Code | General Purpose NEMA-4 Pressure Switch | P | Ex Proof NEC, Div.1 Pressure Switch <sup>(3)</sup> | P7 | Ex d ATEX Pressure Switch <sup>(3)</sup> | P9 | Ex d Pressure Switch, SS316 Enclosure <sup>(3)</sup> | P9Jn | Ex d Pressure Switch, SS316 Enclosure, Monel Sensor <sup>(3)</sup> | P9mJn | Single Limit Switch, General Purpose | S | Single Ex d Proximity limit Switch | S9 | Double Ex d Proximity Limit Switch | SS9 | Double Ex d Proximity Limit Switch with SS316 Junction Box | SS9Jn | Pressure Gauge Assembly <sup>(3)</sup> | 6 | S.S Glycerin Pressure Gauge Assembly <sup>(3)</sup> | 6n | Monel Pressure Gauge Assembly <sup>(3)</sup> | 6m | Ex Proof NEC Class 1 Div 1 Solenoid | 7 | Ex. d Atex Solenoid | 9 | Magna Latch – 2 wires | H2 | Magna Latch – 3 wires | H3 | Stainless steel 316 Solenoid Valve | K | Drain Valve | DV | Water Motor Alarm Assembly <sup>(3)</sup> | W | Large Control Filter | F | Valve Position Indicator | I | S.S 316 Trim Accessories | N | S.S Solenoid Valve | K | Pressure Transmitter <sup>(3)</sup> | Q | Drain and Indicating Components | A | <table><tr><th>Tubing &amp; Fittings</th><th>Code</th></tr><tr><td>Stainless Steel 316</td><td>NN</td></tr><tr><td>Monel 400</td><td>MM</td></tr><tr><td>Super Duplex</td><td>DD</td></tr></table> | Tubing & Fittings | Code | Stainless Steel 316 | NN | Monel 400 | MM | Super Duplex | DD |
| Category                                                                                                                                                          | Code                 |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 1½"                                                                                                                                                               | 40 mm                |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 2"                                                                                                                                                                | 50 mm                |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 2½"                                                                                                                                                               | 60 mm <sup>(6)</sup> |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 3"                                                                                                                                                                | 80 mm                |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 4"                                                                                                                                                                | 100 mm               |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 6"                                                                                                                                                                | 150 mm               |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 8"                                                                                                                                                                | 200 mm               |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 10"                                                                                                                                                               | 250 mm               |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 12"                                                                                                                                                               | 300 mm               |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 14"                                                                                                                                                               | 350 mm               |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Ductile Iron A356 <sup>(2)</sup>                                                                                                                                  | C                    |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 24VDC - N.C.                                                                                                                                                      | 4DC                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 24VDC - Latch                                                                                                                                                     | 4DS                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 110VDC - N.C.                                                                                                                                                     | 5DC                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 110VDC - N.O.                                                                                                                                                     | 5DO                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 110 - 120/AC - N.C.                                                                                                                                               | 5AC                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 110 - 120/AC - N.C.                                                                                                                                               | 5AO                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 220 - 240/AC - N.C.                                                                                                                                               | 2AC                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| 221 - 240/AC - N.C.                                                                                                                                               | 2AO                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Opening & Closing Speed Control                                                                                                                                   | 03                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Factory Supplied Additional Items                                                                                                                                 | Code                 |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| General Purpose NEMA-4 Pressure Switch                                                                                                                            | P                    |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Ex Proof NEC, Div.1 Pressure Switch <sup>(3)</sup>                                                                                                                | P7                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Ex d ATEX Pressure Switch <sup>(3)</sup>                                                                                                                          | P9                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Ex d Pressure Switch, SS316 Enclosure <sup>(3)</sup>                                                                                                              | P9Jn                 |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Ex d Pressure Switch, SS316 Enclosure, Monel Sensor <sup>(3)</sup>                                                                                                | P9mJn                |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Single Limit Switch, General Purpose                                                                                                                              | S                    |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Single Ex d Proximity limit Switch                                                                                                                                | S9                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Double Ex d Proximity Limit Switch                                                                                                                                | SS9                  |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Double Ex d Proximity Limit Switch with SS316 Junction Box                                                                                                        | SS9Jn                |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Pressure Gauge Assembly <sup>(3)</sup>                                                                                                                            | 6                    |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| S.S Glycerin Pressure Gauge Assembly <sup>(3)</sup>                                                                                                               | 6n                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Monel Pressure Gauge Assembly <sup>(3)</sup>                                                                                                                      | 6m                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Ex Proof NEC Class 1 Div 1 Solenoid                                                                                                                               | 7                    |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Magna Latch – 2 wires                                                                                                                                             | H2                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Pressure Transmitter <sup>(3)</sup>                                                                                                                               | Q                    |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Tubing & Fittings                                                                                                                                                 | Code                 |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Stainless Steel 316                                                                                                                                               | NN                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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| Super Duplex                                                                                                                                                      | DD                   |          |          |    |          |    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |     |       |    |       |     |                      |    |       |    |        |    |        |    |        |     |        |     |        |     |        |     |        |                                                                                                                  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                            |   |                                                     |    |                                              |    |                                     |   |                     |   |                       |    |                       |    |                                    |   |             |    |                                           |   |                      |   |                          |   |                          |   |                    |   |                                     |   |                                 |   |                                                                                                                                                                                                    |                   |      |                     |    |           |    |              |    |

**Notes:**

(1) Other materials available see engineering data

(2) Coated internally and externally

(3) Supplied loose

(4) Consult BERMAD for availability

(5) For valves up to and including 10"

(6) Available in Ductile Iron only

\*More options available – consult BERMAD