

# 30 Series

## On/Off and Shut-off Valves

D30XX0555X012

### Specifications

For other materials or modifications, please consult TESCO.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

**Maximum Inlet Pressure**

6000, 10,000 psig  
414, 690 bar

**Design Proof Pressure**

150% maximum rated

**Leakage**

Bubble-tight

**Ambient Operating and Fluid Temperature**

-40°F to 165°F / -40°C to 74°C

**Flow Capacity**

See table on back page

**Maximum Operating Torque**

See table on back page

#### MEDIA CONTACT MATERIALS

**Body**

316 Stainless Steel

**Seat**

**30-1100 and 30-1300:** Nylatron

**30-1200 and 30-1400:** CTFE

**O-Ring**

Buna-N

**Back-up Ring**

**30-1100:** CTFE

**30-1200:** 15% graphite filled Teflon®

**30-1300 and 30-1400:** Teflon®

**Remaining Parts**

316 Stainless Steel, 17-4 Stainless Steel

#### OTHER

**Cleaning**

CGA 4.1 and ASTM G93

**Weight**

See table on back page

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.



30-1100



30-1300



30-1200



30-1400

TESCOM 30 Series shut-off valves are high pressure, high flow applications up to 10,000 psig / 690 bar and offer  $C_v = 0.28-20.0$ . The 30 Series offer globe and angle pattern bidirectional flow, soft seat and built-in metallic stop.

### Applications

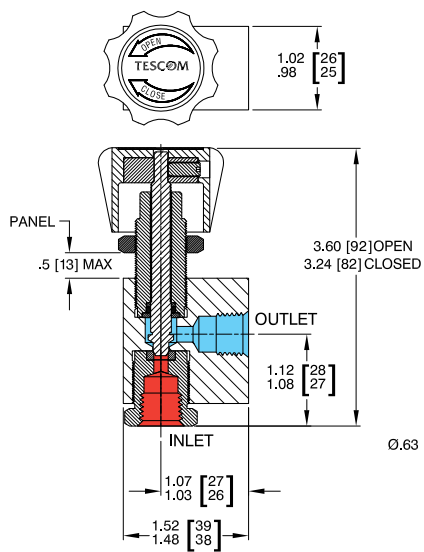
- GSE support pressure panels
- Instrumentation pressure panels and manifolds
- Research and Development labs
- Gas analysis sampling systems

### Features and Benefits

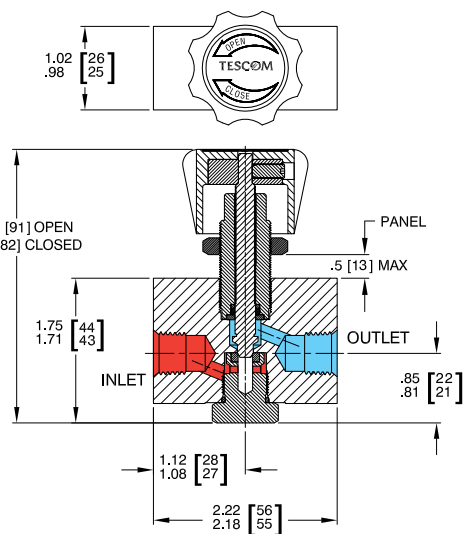
- 6000 and 10,000 psig / 414 and 690 bar capability
- $C_v = 0.28$  through 20.00
- Globe or angle configuration
- Port sizes available from 1/4" to 1-1/2"
- Low operating and shut-off torque at high pressures
- Bidirectional liquid or gas service
- Soft seat insures bubble-tight shutoff

## 30 Series Valves Drawing

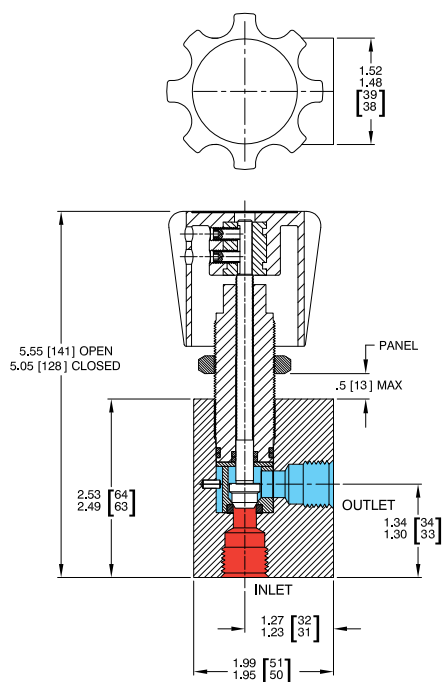
30-1100 ANGLE PATTERN



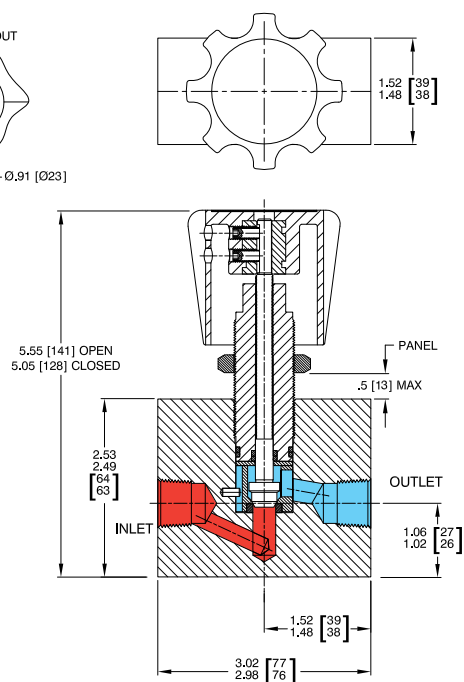
30-1101 GLOBE PATTERN



30-1300 ANGLE PATTERN



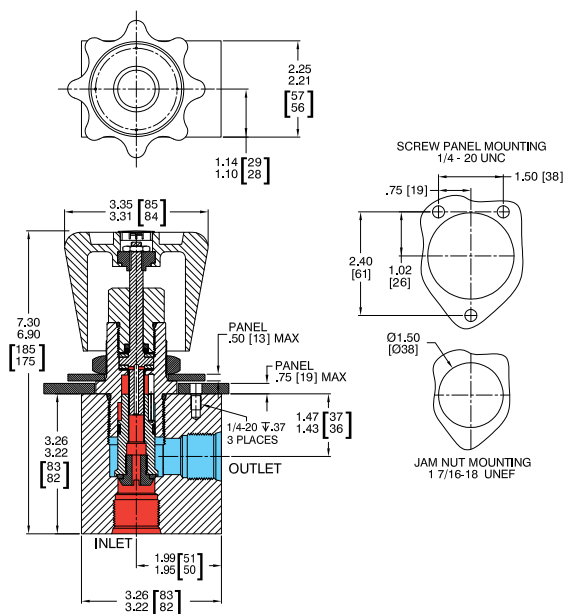
30-1301 GLOBE PATTERN



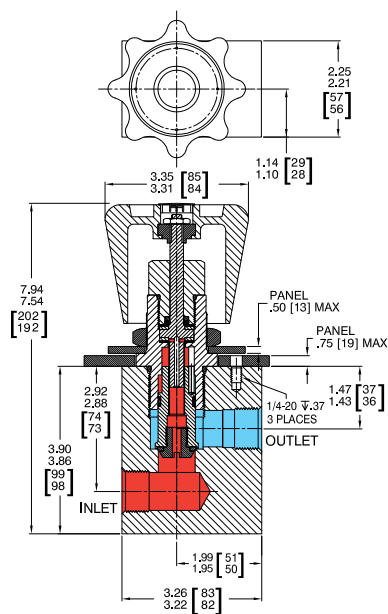
All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

## 30 Series Valves Drawing

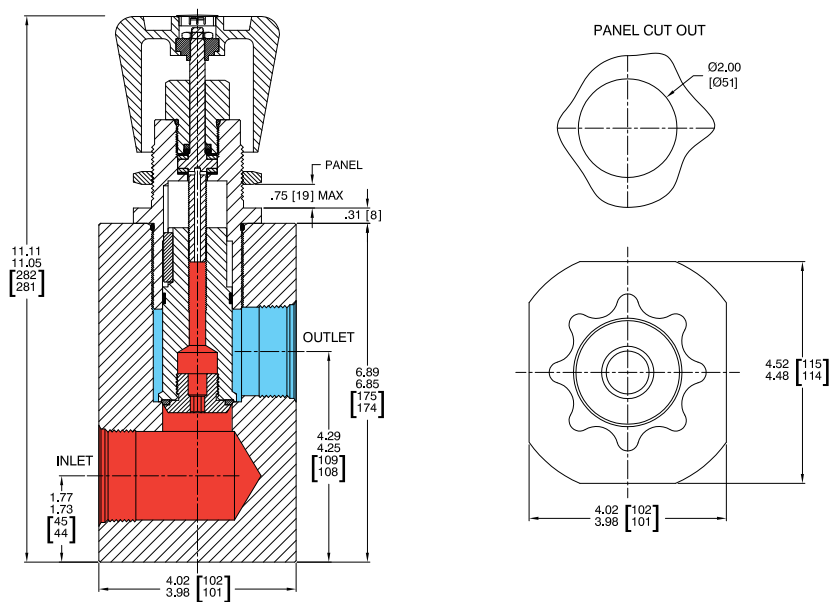
30-1200 ANGLE PATTERN



30-1201 GLOBE PATTERN



30-1400 GLOBE PATTERN



All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

## 30 Series Valves Part Number Selector

**Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.**

*Example for selecting a part number:*

| 30-11  | 0  | 1   | - | 2   | 04  |
|--|--|---|---|---|---|
| BASIC SERIES   | VALVE STEM TYPE  | PATTERN TYPE                                      |   | INLET AND OUTLET PORT TYPE  | INLET AND OUTLET PORT SIZE  |
| <b>30-11</b> – 30-1100<br>10,000 psig<br>690 bar<br><br><b>30-12</b> – 30-1200<br>6000 psig<br>414 bar<br><br><b>30-13</b> – 30-1300<br>10,000 psig<br>690 bar<br><br><b>30-14</b> – 30-1400<br>6000 psig<br>414 bar | <b>0</b> – Shut-off (Standard)<br><b>1</b> – Metering (optional on 30-1100 only) | <b>0</b> – Angle <sup>2</sup><br><b>1</b> – Globe |   | <b>0</b> – BSP <sup>1</sup><br><b>1</b> – SAE <sup>2</sup><br><b>2</b> – NPTF <sup>2</sup><br><b>3</b> – MS33649<br><b>6</b> – Medium Pressure <sup>1</sup> | <b>04</b> – 1/4" (30-1100)<br><b>06</b> – 3/8" (30-1100 <sup>3</sup> , 30-1300)<br><b>08</b> – 1/2" (30-1300)<br><b>12</b> – 3/4" (30-1200)<br><b>16</b> – 1" (30-1200)<br><b>24</b> – 1-1/2" (30-1400) |
| <div>             1. Available on 30-1100 only<br/>             2. Not available on 30-1400<br/>             3. Available in Globe Pattern only           </div>   |  |   |   |   |   |

| SERIES                     | PATTERN        | C <sub>v</sub> | WEIGHT                               | CONTROL TORQUE                             |
|----------------------------|----------------|----------------|--------------------------------------|--|
| 30-11X1-XXX<br>30-11X0-XXX | Globe<br>Angle | 0.28<br>0.49   | 1 lb / 0.5 kg<br>3/4 lbs / 0.3 kg    | 15 in-lbs / 1.7 N•m<br>15 in-lbs / 1.7 N•m |
| 30-1301-XXX<br>30-1300-XXX | Globe<br>Angle | 1.57<br>2.30   | 3-1/4 lbs / 2 kg<br>2-1/4 lbs / 1 kg | 25 in-lbs / 2.8 N•m<br>25 in-lbs / 2.8 N•m |
| 30-1201-XXX<br>30-1200-XXX | Globe<br>Angle | 8.00<br>10.00  | 8 lbs / 4 kg<br>7-1/4 lbs / 3 kg     | 35 in-lbs / 4.0 N•m<br>35 in-lbs / 4.0 N•m |
| 30-1400-XXX                | Globe          | 20.00          | 30 lbs / 14 kg                       | 35 in-lbs / 4.0 N•m                        |



**WARNING!** Do not attempt to select, install, use or maintain this product until you have read and fully understood the **TESCOM Safety, Installation and Operation Precautions**.

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