General Information

Pressure Gauges

The maximum working pressures of standard gauges should not exceed 75% of full scale for constant pressure applications, or 66% of full scale for pulsating pressures. Normal overpressures allowed are: 1.25 times FSV for ranges up to 1,000 psi; 1.15 times FSV for ranges between 1,000 and 10,000 psi; 1.10 times FSV for higher pressures. Dial face includes both psi (black) and bar (red) scales. PSI only faces may be available. To see standard increments and dial faces, see pages 127-128.

Glycerine is used as standard in most Dynamic fluid-filled gauges. Neither glycerine nor silicone should be used in applications involving oxygen, chlorine, nitric acid, hydrogen peroxide or other oxidizing agents.

All Dynamic gauges come with a standard polycarbonate lens. Safety glass or tempered glass covers are available with minimum order. Dynamic filled gauges include a dual relief valve/blowout disc for operating safety.

Test Points

The need for preventative maintenance of hydraulic systems in general has added to the use of test points throughout the system. This need is answered by the installation of a range of test points, plugs and probes, which can be connected under full system pressure to 6000 psi. Where the introduction of test points is needed, and the hydraulic system uses flexible hydraulic hoses, Dynamic has a range of Hydra-Test hose couplings fitted with test points. For full product data consult pages 16-20.

Valves & Flow Dividers

New products have been recently added to Dynamic’s extensive inventory of valves and flow dividers, including a 6-way, 2-station Selector Valve and a Spool Flow Divider.

Gauges, Valves & Accessories

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Test Point Plugs, Probes & Hose Assemblies

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<tr>
<td>Filter Filler Breathers</td>
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</tbody>
</table>
Model DCI-20

Features
- Steel Case
- Phosphor Bronze Bourdon Tube
- Standard Range: 0-60 psi
- 1/8” NPT Bronze Connection
- Polycarbonate Lens
- Dry Gauge
  Liquid-filled Available w/ SS Case

Installation Data

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCI-20</td>
<td></td>
</tr>
</tbody>
</table>

DCI-20 = 2” Service Filter Gauge
LF = Liquid-filled

*special order

Model DGV-10

Features
- Steel Case
- Phosphor Bronze Bourdon Tube
- Vacuum Range: 30”HG - 0 psi
- 1/8” NPT Bronze Connection
- Polycarbonate Lens
- Dry Gauge
- Center Back & Stem Mounts Available

Installation Data

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGV-10</td>
<td>A</td>
</tr>
</tbody>
</table>

DGV-10 = 1.5” Vacuum Service Filter Gauge
A = Stem
D = Center Back

Additional pressure ranges and color breaks available with minimum order.
Features

• Steel Case
• Phosphor Bronze Bourdon Tube
• Bronze Connection
• Polycarbonate Lens
• Built-in Snubber
• Range: Vacuum to 6,000 psi
• Dual Scale: psi & bar
• Accuracy: ± 1.6% FSD
• Temperature Range: -40º to 180º F
• Certificate of Accuracy Available (see page 15 for details)

Installation Data

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2”</td>
<td>1.62”</td>
<td>.90”</td>
<td>2.26”</td>
<td>1.50”</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>2”</td>
<td>2.00”</td>
<td>1.08”</td>
<td>2.81”</td>
<td>1.80”</td>
<td>1/4” NPT*</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>2.45”</td>
<td>1.05”</td>
<td>3.22”</td>
<td>1.75”</td>
<td>1/4” NPT*</td>
</tr>
</tbody>
</table>

*1/8” NPT available w/ min. order. Add -8N to end of model #.

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
<th>Range</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDS</td>
<td>1</td>
<td>P</td>
<td>210</td>
<td>D</td>
</tr>
</tbody>
</table>

Model = CDS
Size = 1
Type = P
Range = 210
Style = D

Some size/range combinations may only be available by special order.

*1 1/2” dia. is limited to 5000 psi
**Additional compound ranges may be available by special order.

Logo and custom gauge faces available with minimum 250 piece order. Call for details.
Features

- Steel Case, Rolled Bezel
- Phosphor Bronze Bourdon Tube
- Bronze Connection
- Polycarbonate Lens
- Built-in Snubber
- Range: Vacuum to 6,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 1.6% FSD
- Temperature Range: -40º to 180º F
- Certificate of Accuracy Available (see page 15 for details)

Installation Data

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>2.25”</td>
<td>.20”</td>
<td>1.75”</td>
<td>2.28”</td>
<td>2.05”</td>
<td>2.45”</td>
<td>2.80”</td>
<td>.21”</td>
<td>1.15”</td>
<td>1/4” NPT*</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>2.68”</td>
<td>.20”</td>
<td>1.75”</td>
<td>3.14”</td>
<td>2.40”</td>
<td>2.85”</td>
<td>3.29”</td>
<td>.247”</td>
<td>1.17”</td>
<td>1/4” NPT*</td>
</tr>
</tbody>
</table>

* 1/8” NPT available w/ min. order. Add -8N to end of model #.

Ordering Example:

Model | Size | Type | Pressure Range | Style |
CDS   | 5    | P    | 210            | E     |

- Model CDS = Dry Gauge
- Size 5 = 2” dia.
- Type P = Pressure
- Pressure Range 210 = 3000 psi
- Style E = Panel Flange

Some size/range combinations may only be available by special order.

**Additional compound ranges may be available by special order.

Logo and custom gauge faces available with minimum 250 piece order. Call for details.
Features

- 304 Stainless Steel Case & Bezel
- Phosphor Bronze Bourdon Tube
- Bronze Connection
- Polycarbonate Lens
- Built-in Snubber
- Range: Vacuum to 10,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 1.6% FSD
- Temperature Range: -40º to 180ºF
- Certificate of Accuracy Available (see page 15 for details)

Installation Data

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2”</td>
<td>1.58”</td>
<td>1.98”</td>
<td>1.02”</td>
<td>2.47”</td>
<td>2.30”</td>
<td>-</td>
<td>-</td>
<td>.20”</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>2”</td>
<td>1.98”</td>
<td>2.21”</td>
<td>1.19”</td>
<td>3.05”</td>
<td>2.28”</td>
<td>2.40”</td>
<td>2.76”</td>
<td>.24”</td>
<td>1/4” NPT*</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>2.40”</td>
<td>2.25”</td>
<td>1.18”</td>
<td>3.45”</td>
<td>3.18”</td>
<td>2.90”</td>
<td>3.42”</td>
<td>.25”</td>
<td>1/4” NPT*</td>
</tr>
</tbody>
</table>

*1/8” NPT available w/ min. order. Add -8N to end of model #.

Ordering Example:

Model | Size | Type | Pressure Range | Style
-----|------|------|----------------|------
CF   | 1    | P    | 002 = 30” Hg - 30 psi** | A = Stem
Glycerine-filled Gauge | 1 = 2 1/2” dia. | C = Compound
| 1.58” | V = Vacuum
| 1.98” | P = Pressure
000 = 30” Hg - 0 psi
| 1.02” |
001 = 15 psi
| 2.47” |
002 = 30 psi
| 2.30” |
004 = 60 psi
| -     |
007 = 100 psi
| -     |
010 = 160 psi
| 140 = 2000 psi
015 = 200 psi
| 280 = 4000 psi
020 = 300 psi
| 350 = 5000 psi
040 = 600 psi
| 420 = 6000 psi
070 = 1000 psi
| 700 = 10,000 psi

Some size/range combinations may only be available by special order.

*Note: 1 1/2” dia. is limited to 6000 psi
**Additional compound ranges may be available by special order.

Logo and custom gauge faces available with minimum 100 piece order. Call for details.
CF Series (SAE) Gauges
2 1/2” • Glycerine-Filled • SAE Swivel Mount

Features
- 304 Stainless Steel Case & Bezel
- Phosphor Bronze Bourdon Tube
- SAE 7/16-20 Bronze Connection
- Polycarbonate Lens
- Built-in Snubby
- Range: Vacuum to 10,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 1.6% FSD
- Temperature Range: -40º to 180ºF
- Certificate of Accuracy Available (see page 15 for details)

Installation Data

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
<th>Pressure Range</th>
<th>Style</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF</td>
<td>1</td>
<td>P</td>
<td>002 = 30” Hg - 30 psi**</td>
<td>A</td>
<td>7/16-20 SAE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>000 = 30” Hg - 0 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>007 = 100 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>010 = 160 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>015 = 200 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>020 = 300 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>040 = 600 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>070 = 1000 psi</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Special order - minimum quantities may apply.
*Additional compound ranges may be available by special order.

Logo and custom gauge faces available with minimum 100 piece order. Call for details.
**PDLC Series Gauges**

**4” • Low-Cost Glycerine-Filled Gauges**

**Features**
- 304 Stainless Steel Case & Bezel
- Phosphor Bronze Bourdon Tube
- Bronze 1/4” NPT Connection
- Polycarbonate Lens
- Built-in Snubber
- Range: 15 psi to 10,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 2% FSD
- Temperature Range: -40º to 180ºF
- Certificate of Accuracy Available (see page 15 for details)

**Installation Data**

1/4” NPT is standard connection for all PDLC gauges.

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
<th>Pressure Range</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDLC</td>
<td>2</td>
<td>P</td>
<td>001 = 15 psi</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>002 = 30 psi</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>004 = 60 psi</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>007 = 100 psi</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>010 = 160 psi</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>015 = 200 psi</td>
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<td></td>
<td></td>
<td></td>
<td>020 = 300 psi</td>
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<td></td>
<td></td>
<td></td>
<td>040 = 600 psi</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>070 = 1000 psi</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>100 = 1500 psi</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>140 = 2000 psi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>210 = 3000 psi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>280 = 4000 psi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>350 = 5000 psi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>420 = 6000 psi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>700 = 10,000 psi</td>
<td></td>
</tr>
</tbody>
</table>

*Some pressure range / mount configurations may require special order.*
Features

- 304 Stainless Steel Case & Bezel
- Phosphor Bronze Bourdon Tube
- Bronze connection
- Polycarbonate Lens
- Built-in Relief Valve & Snubber
- Range: Vacuum to 10,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 1% FSD
- Temperature Range: -40º to 180ºF
- Certificate of Accuracy Available (see page 15 for details)

Installation Data

1/4” NPT is standard connection for 600 psi and below; 1/2” NPT is standard for 1000 psi and above

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
<th>Pressure Range</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFC = Glycerine-filled 4” Gauge</td>
<td>2 = 4” dia.</td>
<td>C = Compound 002 = 30” Hg - 30 psi** 000 = 30” Hg - 0 psi</td>
<td>001 = 15 psi 002 = 30 psi 004 = 60 psi 007 = 100 psi 010 = 160 psi 015 = 200 psi 020 = 300 psi 040 = 600 psi</td>
<td>A = Stem B = Panel Clamp D = Lower Back E = Panel Flange</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V = Vacuum</td>
<td>070 = 1000 psi 100 = 1500 psi 140 = 2000 psi 210 = 3000 psi 280 = 4000 psi 350 = 5000 psi 420 = 6000 psi 700 = 10,000 psi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P = Pressure</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional compound ranges may be available by special order.
**PDSS Series Gauges**

2 1/2” • All Stainless Steel Gauges

### Features

- 304 Stainless Steel Case
- 316 Stainless Steel Connection
- 316 Stainless Steel Bourdon Tube
- Built-in Snubber
- Polycarbonate Lens
- Liquid-Filled & Dry Options
- Ambient Temp: -13° F to 150°F
- Max. Process Temp: 750°F
- Range: Vacuum to 15,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 1.6% FSD
- Certificate of Accuracy Available (see page 15 for details)

### Installation Data

#### Style A Style B Style D Style E

PDSS Series Gauges

2 1/2” • All Stainless Steel Gauges

**Size**

1 = 2 1/2” dia.

**Style**

A = Stem
B = Panel Clamp
D = Center Back
E = Panel Flange

**Ordering Example:**

PDSS - 1 P - 040 A - 001

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
<th>Pressure Range</th>
<th>Style</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDSS = All Stainless Steel Gauges</td>
<td>1 = 2 1/2” dia.</td>
<td>C = Compound</td>
<td>002 = 30° Hg -30 psi**</td>
<td>A = Stem</td>
<td>001 = Glycerine-filled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V = Vacuum</td>
<td>000 = 30° Hg - 0 psi</td>
<td>B = Panel Clamp</td>
<td>002 = Dry*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P = Pressure</td>
<td>001 = 15 psi 100 = 1500 psi</td>
<td>D = Center Back</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>002 = 30 psi 140 = 2000 psi</td>
<td>E = Panel Flange</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>004 = 60 psi 210 = 3000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>007 = 100 psi 280 = 4000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>010 = 160 psi 350 = 5000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>015 = 200 psi 420 = 6000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>020 = 300 psi 700 = 10,000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>040 = 600 psi 800 = 15,000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>070 = 1000 psi</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Special Order
**Additional compound ranges may be available by special order.

1/4” NPT is the standard connection for all 2 1/2” PDSS gauges.
PDSS Series Gauges
4” • All Stainless Steel Gauges

Features

- 304 Stainless Steel Case
- 316 Stainless Steel Connection
- 316 Stainless Steel Bourdon Tube
- Built-in Snubber
- Polycarbonate Lens
- Liquid-Filled & Dry Options

Installation Data

<table>
<thead>
<tr>
<th>Style</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D*</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Stem</td>
<td>4.28”</td>
<td>1.84”</td>
<td>3.87”</td>
<td>5.30” (1/4” NPT)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.36” (1/2” NPT)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B - Panel Clamp</td>
<td>4.28”</td>
<td>1.87”</td>
<td>3.87”</td>
<td>3.10” (1/4” NPT)</td>
<td>-</td>
<td>-</td>
<td>5.00”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.20” (1/2” NPT)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D - Lower Back</td>
<td>4.28”</td>
<td>1.87”</td>
<td>3.87”</td>
<td>3.10” (1/4” NPT)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.20” (1/2” NPT)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E - Panel Flange</td>
<td>4.28”</td>
<td>1.87”</td>
<td>3.87”</td>
<td>3.10” (1/4” NPT)</td>
<td>5.13”</td>
<td>.27”</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.20” (1/2” NPT)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1/4” NPT is standard connection for 600 psi and below; 1/2” NPT is standard for 1000 psi and above

Ordering Example:

Model | Size | Type | Range | Style | Options
PDSS = All Stainless Steel Gauges | 2 = 4” dia. | C = Compound V = Vacuum P = Pressure | 002 = 30” Hg -30 psi** | A = Stem | 001 = Glycerine-filled
| 3” = 6” dia. | | | 000 = 30” Hg - 0 psi |
| | | | 001 = 15 psi |
| | | | 100 = 1500 psi |
| | | | 002 = 30 psi |
| | | | 140 = 2000 psi |
| | | | 004 = 60 psi |
| | | | 210 = 3000 psi |
| | | | 007 = 100 psi |
| | | | 280 = 4000 psi |
| | | | 010 = 160 psi |
| | | | 350 = 5000 psi |
| | | | 015 = 200 psi |
| | | | 420 = 6000 psi |
| | | | 020 = 300 psi |
| | | | 700 = 10,000 psi |
| | | | 040 = 600 psi |
| | | | 800 = 15,000 psi |
| | | | 070 = 1000 psi |
| | | | 900 = 20,000 psi |
| | | | 075 = 30,000 psi |

* Special Order
**Additional compound ranges may be available by special order.
**Features**

- Accuracy: ±0.50 FSD
- 304 Stainless Steel Case
- 316 Stainless Steel Bourdon Tube
- 1/4” NPT Connection
- Mirrored Dial
- Polycarbonate Lens
- Adjustable Pointer is Micrometer Knife Type
- Reinforced Movement is AISI 316
- Maximum Working Pressure: 75% FSD
- Temperature Range: 60ºF to 150ºF
- Certificates of Calibration Available

**Installation Data**

**Ordering Example:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
<th>Pressure Range</th>
<th>Style</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDTG</td>
<td>3</td>
<td>P</td>
<td>002 = 30” Hg -30 psi**&lt;br&gt;000 = 30” Hg - 0 psi&lt;br&gt;001 = 15 psi&lt;br&gt;002 = 30 psi&lt;br&gt;004 = 60 psi&lt;br&gt;007 = 100 psi&lt;br&gt;010 = 160 psi&lt;br&gt;015 = 200 psi&lt;br&gt;020 = 300 psi&lt;br&gt;040 = 600 psi&lt;br&gt;070 = 1000 psi&lt;br&gt;100 = 1500 psi&lt;br&gt;140 = 2000 psi&lt;br&gt;210 = 3000 psi&lt;br&gt;280 = 4000 psi&lt;br&gt;350 = 5000 psi&lt;br&gt;420 = 6000 psi&lt;br&gt;700 = 10,000 psi&lt;br&gt;800 = 15,000 psi&lt;br&gt;900 = 20,000 psi</td>
<td>A = Stem&lt;br&gt;B = Panel Clamp</td>
<td>Omit = Standard&lt;br&gt;01 = Shatterproof Lens</td>
</tr>
</tbody>
</table>

**Additional compound ranges may be available.**
Gauge Snubbers

By fitting with a snubber, a pressure gauge is protected from harmful pressure surges and pulsations which would otherwise overload the gauge mechanism.

The 1/4” NPT snubber has a helically formed oilway with a small orifice through which fluid must pass to reach the gauge. This provides high resistance to smooth out surges and pulses, yet allows rapid responses and steady gauge readings.

<table>
<thead>
<tr>
<th>Model #</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Material</th>
<th>Rated Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDD-4B</td>
<td>1/4” NPT</td>
<td>.52”</td>
<td>.94”</td>
<td>.20”</td>
<td>.71”</td>
<td>.43”</td>
<td>.55”</td>
<td>Brass</td>
<td>10,000 psi</td>
</tr>
</tbody>
</table>

Gauge Protectors

Dynamic recommends the use of our Buna N rubber housing gauge protector on our standard 2 1/2” stem mount & center back mount gauges (style “A” or “D”). This saves damage to the gauge should it be dropped or bumped.

Order by Model #: GP-40N

Certificates of Accuracy

Dynamic offers in-house generated certificates of accuracy for all gauges up to 10,000 psi. Gauges are tested against a calibrated PDTG Test Gauge with .6% accuracy and the pressure of both gauges is documented at predetermined increments from 0 psi to maximum pressure then back to 0 psi. Customers are provided with a certificate documenting all pressure readings, as well as the serial number which matches the gauge tested.

Certificates of Accuracy produced at Dynamic Fluid Components do not conform with ANSI or NIST standards. Should this additional level certification be required, the customer would need to obtain it independently from a third-party source.

To order, add “Certificate of Accuracy” as a separate line item. There is a set fee per gauge for these certificates.
D1620 Series - M16 x 2.0

Test Point Plugs

Features

- Connects Under Full Pressure
- Rated at 9000 psi
- All Steel Construction
- Buna Seals are Standard

<table>
<thead>
<tr>
<th>Model #</th>
<th>Form</th>
<th>Max. Pressure</th>
<th>Ch.</th>
<th>J</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1620-01-18NPT</td>
<td>C</td>
<td>5800 psi</td>
<td>.67”</td>
<td>.37”</td>
<td>1/8” NPT</td>
</tr>
<tr>
<td>D1620-01-14NPT</td>
<td>C</td>
<td>9000 psi</td>
<td>.67”</td>
<td>.55”</td>
<td>1/4” NPT</td>
</tr>
<tr>
<td>D1620-01-04SAE</td>
<td>F</td>
<td>9000 psi</td>
<td>.67”</td>
<td>.43”</td>
<td>04-SAE</td>
</tr>
<tr>
<td>D1620-01-06SAE</td>
<td>F</td>
<td>9000 psi</td>
<td>.75”</td>
<td>.47”</td>
<td>06-SAE</td>
</tr>
<tr>
<td>D1620-01-08SAE</td>
<td>F</td>
<td>9000 psi</td>
<td>.87”</td>
<td>.55”</td>
<td>08-SAE</td>
</tr>
<tr>
<td>D1620-01-M10X1</td>
<td>E</td>
<td>9000 psi</td>
<td>.67”</td>
<td>.33”</td>
<td>M10X1</td>
</tr>
<tr>
<td>D1620-01-M12x1.5</td>
<td>E</td>
<td>9000 psi</td>
<td>.67”</td>
<td>.47”</td>
<td>M12x1.5</td>
</tr>
<tr>
<td>D1620-01-M14x1.5</td>
<td>E</td>
<td>9000 psi</td>
<td>.75”</td>
<td>.47”</td>
<td>M14x1.5</td>
</tr>
<tr>
<td>D1620-01-M16x1.5</td>
<td>E</td>
<td>9000 psi</td>
<td>.87”</td>
<td>.47”</td>
<td>M16x1.5</td>
</tr>
<tr>
<td>D1620-01-18BSPP</td>
<td>E</td>
<td>9000 psi</td>
<td>.67”</td>
<td>.32”</td>
<td>1/8” BSPP</td>
</tr>
<tr>
<td>D1620-01-14BSPP</td>
<td>E</td>
<td>9000 psi</td>
<td>.75”</td>
<td>.47”</td>
<td>1/4” BSPP</td>
</tr>
<tr>
<td>D1620-01-38BSPP</td>
<td>E</td>
<td>9000 psi</td>
<td>.87”</td>
<td>.47”</td>
<td>3/8” BSPP</td>
</tr>
</tbody>
</table>

DGA1620 Series - M16 x 2.0

Test Point Probe

DGA1620 Test Point Probes are designed to connect directly to the D1620 Test Point Plugs (above). When fitted with the desired pressure gauge, the system pressure is released into the gauge’s bourdon tube as the probe opens the test point valve. It can be connected and disconnected under pressure. This provides a precise means to monitor system pressure without turning the system off.

Order by Model #: DGA1620 Test Point Probe*

Gauge Protectors

Dynamic recommends the use of a gauge protector Buna N rubber housing when using a test point probe. This saves damage to the gauge should it be dropped or bumped during the test proceedings. Gauge Protectors can be ordered using model #: GP-40N. See page 15.

*Test Point Probe does not include gauge.
FTP Series

Test Point Plugs

Features

- Dynamic Special Design
- Connects Under Full Pressure
- Rated at 6000 psi
- All Steel Construction
- Buna Seals are Standard

Dynamic test point plugs and probes are designed to monitor hydraulic system conditions without system shutdown to connect the pressure gauge. These test plugs are fitted as a “standard” into the mobile or industrial application where eventual system monitoring is required.

Model #’s and Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>A Thread</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Max. Torque</th>
<th>Weight</th>
<th>Seal Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTP-02N</td>
<td>1/8” NPT</td>
<td>.39&quot;</td>
<td>1.81&quot;</td>
<td>--</td>
<td>.75&quot;</td>
<td>180 lbs</td>
<td>.15 lbs</td>
<td>SK-115-N</td>
</tr>
<tr>
<td>FTP-04N</td>
<td>1/4” NPT</td>
<td>.56&quot;</td>
<td>1.87&quot;</td>
<td>--</td>
<td>.82&quot;</td>
<td>180 lbs</td>
<td>.17 lbs</td>
<td>SK-115-N</td>
</tr>
<tr>
<td>FTP-04S</td>
<td>7/16-20 SAE</td>
<td>.36&quot;</td>
<td>1.81&quot;</td>
<td>.71&quot;</td>
<td>.75&quot;</td>
<td>180 lbs</td>
<td>.17 lbs</td>
<td>SK-115-N</td>
</tr>
</tbody>
</table>

*Special Order Only

FPP Series

Test Point Probe

FPP Test Point Probes are designed to connect directly to the FTP Test Point Plugs (above). When fitted with the desired pressure gauge, the system pressure is released into the gauge’s bourdon tube as the probe opens the test point valve. It can be connected and disconnected under pressure. This provides a precise means to monitor system pressure without turning the system off.

Order Using Model #: FPP-04N

For complete model with a liquid-filled gauge, add the gauge model # to the probe model # (i.e. FPP-04N-CF1P-210A is a plug assembly fitted with a 2 1/2", 0-3000 psi stem mount gauge). See page 8 for 2 1/2” pressure gauge data.

Gauge Protectors

Dynamic recommends the use of a gauge protector Buna N rubber housing when using a test point probe. This saves damage to the gauge should it be dropped or bumped during the test proceedings. Gauge Protectors can be ordered using model #: GP-40N. See page 15.
Features

- 6,000 psi Working Pressure
- Fitted with Hydra-Test Point Plug
- Can be Used With Direct or Remote Test Probes
- For J.I.C. 37º Hose Sizes: 7/16" - 1 7/8" UNF
- Can be Connected and Disconnected at Full System Pressure

Install Hydra-Test J.I.C. Hose Couplings between the female swivel nut of the flexible hose and the fixed male connection. The integrated test point may be used with Dynamic test probes and/or test kits to obtain random pressure and temperature checks during servicing or fault finding. Fluid sampling probes are also compatible.

All probes may be connected and disconnected at full pressure without fluid loss or ingress of dirt.

Model #'s and Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight</th>
<th>Seal Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSP1040-4</td>
<td>7/16&quot;-20 UNF</td>
<td>2.01&quot;</td>
<td>1.00&quot;</td>
<td>1.22&quot;</td>
<td>.56&quot;</td>
<td>1.12&quot;</td>
<td>.29 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-5</td>
<td>3/16&quot;-20 UNF</td>
<td>2.01&quot;</td>
<td>1.00&quot;</td>
<td>1.30&quot;</td>
<td>.62&quot;</td>
<td>1.12&quot;</td>
<td>.31 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-6</td>
<td>9/32&quot;-20 UNF</td>
<td>2.01&quot;</td>
<td>1.01&quot;</td>
<td>1.36&quot;</td>
<td>.69&quot;</td>
<td>1.12&quot;</td>
<td>.33 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-8</td>
<td>3/16&quot;-16 UNF</td>
<td>2.01&quot;</td>
<td>1.11&quot;</td>
<td>1.33&quot;</td>
<td>.87&quot;</td>
<td>1.12&quot;</td>
<td>.35 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-10</td>
<td>7/32&quot;-14 UNF</td>
<td>2.14&quot;</td>
<td>1.23&quot;</td>
<td>1.51&quot;</td>
<td>1.00&quot;</td>
<td>1.37&quot;</td>
<td>.55 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-12</td>
<td>1/4&quot;-12 UNF</td>
<td>2.14&quot;</td>
<td>1.31&quot;</td>
<td>1.64&quot;</td>
<td>1.25&quot;</td>
<td>1.37&quot;</td>
<td>.66 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-16</td>
<td>1 1/16&quot;-12 UNF</td>
<td>2.30&quot;</td>
<td>1.36&quot;</td>
<td>1.72&quot;</td>
<td>1.50&quot;</td>
<td>1.69&quot;</td>
<td>.95 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-20</td>
<td>1 1/8&quot;-12 UNF</td>
<td>2.61&quot;</td>
<td>0.96&quot;</td>
<td>1.77&quot;</td>
<td>2.05&quot;</td>
<td>2.00&quot;</td>
<td>1.71 lbs</td>
<td>*</td>
</tr>
<tr>
<td>HSP1040-24</td>
<td>1 3/8&quot;-12 UNF</td>
<td>2.98&quot;</td>
<td>1.08&quot;</td>
<td>1.89&quot;</td>
<td>2.20&quot;</td>
<td>2.22&quot;</td>
<td>1.98 lbs</td>
<td>*</td>
</tr>
</tbody>
</table>

*Special Order Only
Dynamic hose assemblies are designed for use with Dynamic test plugs, pipe couplings and standpipe adaptors. Together, they facilitate pressure readings on a random basis throughout a hydraulic system. Probes may be connected or disconnected with the system at full working pressure without loss of oil or ingress of dirt. Use of test points saves the installation of multiple pipework and gauges. Hose assemblies are also available fitted with a pressure gauge.

**Table 1**

<table>
<thead>
<tr>
<th>Hose Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>12” 24” 36”</td>
</tr>
<tr>
<td>48” 60” 72”</td>
</tr>
</tbody>
</table>

Please specify in inches if other lengths are required. Minimum length is 12”.

**Ordering Example:**

DHA - FTP - 12 - 4F

<table>
<thead>
<tr>
<th>Model</th>
<th>End Fitting</th>
<th>Hose Length</th>
<th>End Fitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHA = Dynamic</td>
<td>See codes</td>
<td>Length in inches</td>
<td>See codes</td>
</tr>
<tr>
<td>Hose Assembly</td>
<td>on next page</td>
<td>(see Table 1)</td>
<td>on next page</td>
</tr>
</tbody>
</table>

*Note: If you require a gauge assembled to the hose assembly, please add the gauge number to the end of the part number.*
• Optional End Fittings
• Up to 9000 psi Working Pressure

• Choice of Hose Lengths
• Passivated Steel Components

Hydra-Test
End Fittings

HSP
HSP1.5

Code FTP

Code 4F

Code 4M

Code 7/16F
Code 9/16F

Code 7/16M

Code 9/16C

Code 6MSP

Code 8MSP

Code 4MSP

Code HSP-90

Protective Cap

Code FTP-90

Protective Cap

7/16 SAE
9/16 SAE
12.7 mm
Flare

9/16" UNF

M16x1.5
M14x1.5
M12x1.5

M16x2.0
M16x1.5

1/4" NPTF
1/8" NPTF

1/4" NPTF
1/8" NPTF

6, 8 mm or 1/4" dia.

20 mm

M16x2.0
Thread

5/8" BSF
Thread

HSP-90

FTP-90

Heavy

Light

Code M16H
Code M14H
Code M12H

Code M16L
Code M14L
Code M12L

FLUID COMPONENTS, INC.
Model HSP - Hard Seat

Features

• Carbon Steel Construction
• 5 lb or 65 lb Cracking Pressure
• Metal to Metal Seal

Model #’s & Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>Thread Size</th>
<th>A</th>
<th>B</th>
<th>Rated Flow (gpm)</th>
<th>Rated Pressure (psi)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSP-1000-2-5 or 65</td>
<td>1/4” NPT</td>
<td>2.44”</td>
<td>.87”</td>
<td>6</td>
<td>5000</td>
<td>.35</td>
</tr>
<tr>
<td>HSP-1000-3-5 or 65</td>
<td>3/8” NPT</td>
<td>2.87”</td>
<td>1.00”</td>
<td>10</td>
<td>5000</td>
<td>.44</td>
</tr>
<tr>
<td>HSP-1000-4-5 or 65</td>
<td>1/2” NPT</td>
<td>3.76”</td>
<td>1.26”</td>
<td>18</td>
<td>5000</td>
<td>.77</td>
</tr>
<tr>
<td>HSP-1000-6-5 or 65</td>
<td>3/4” NPT</td>
<td>4.30”</td>
<td>1.50”</td>
<td>30</td>
<td>5000</td>
<td>1.54</td>
</tr>
<tr>
<td>HSP-1000-8-5 or 65</td>
<td>1” NPT</td>
<td>5.12”</td>
<td>1.69”</td>
<td>36</td>
<td>5000</td>
<td>2.43</td>
</tr>
<tr>
<td>HSP-1000-10-5 or 65</td>
<td>1 1/4” NPT</td>
<td>5.56”</td>
<td>2.40”</td>
<td>50</td>
<td>3000</td>
<td>6.95</td>
</tr>
<tr>
<td>HSP-1000-12-5 or 65</td>
<td>1 1/2” NPT</td>
<td>5.56”</td>
<td>2.56”</td>
<td>60</td>
<td>3000</td>
<td>7.28</td>
</tr>
<tr>
<td>HSP-1001-4-5 or 65</td>
<td>7/16”-20 SAE</td>
<td>2.56”</td>
<td>.87”</td>
<td>6</td>
<td>5000</td>
<td>.35</td>
</tr>
<tr>
<td>HSP-1001-6-5 or 65</td>
<td>9/16”-20 SAE</td>
<td>2.91”</td>
<td>.94”</td>
<td>10</td>
<td>5000</td>
<td>.44</td>
</tr>
<tr>
<td>HSP-1001-8-5 or 65</td>
<td>3/4”-16 SAE</td>
<td>3.74”</td>
<td>1.18”</td>
<td>18</td>
<td>5000</td>
<td>.77</td>
</tr>
<tr>
<td>HSP-1001-12-5 or 65</td>
<td>1 1/16”-12 SAE</td>
<td>4.29”</td>
<td>1.50”</td>
<td>30</td>
<td>3000</td>
<td>1.54</td>
</tr>
<tr>
<td>HSP-1001-16-5 or 65</td>
<td>1 1/8”-12 SAE</td>
<td>5.00”</td>
<td>1.81”</td>
<td>36</td>
<td>3000</td>
<td>2.43</td>
</tr>
<tr>
<td>HSP-1001-20-5 or 65</td>
<td>1 3/4”-12 SAE</td>
<td>5.20”</td>
<td>2.41”</td>
<td>50</td>
<td>3000</td>
<td>6.95</td>
</tr>
<tr>
<td>HSP-1001-24-5 or 65</td>
<td>1 7/8”-12 SAE</td>
<td>5.20”</td>
<td>2.56”</td>
<td>60</td>
<td>3000</td>
<td>7.28</td>
</tr>
</tbody>
</table>

Model VU - Soft Seat

Features

• Carbon Steel Construction
• 7 lb or 70 lb Cracking Pressure
• Buna-N Seal

Model #’s & Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>Thread Size</th>
<th>A</th>
<th>B</th>
<th>Rated Flow (gpm)</th>
<th>Rated Pressure (psi)</th>
<th>Weight (lbs)</th>
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DE2/DB2 High Pressure Series

2-way Ball Valves

Features

- Rugged Carbon Steel Construction
- Mounting Holes on DE models
- 1/4” - 2” Sizes - NPT and SAE
- Full and Reduced Port
- Blow-Out Proof Stems
- Standard Seals: Buna-N; Other Seals by Special Order
- Chrome-plated Steel Ball
- Max Pressure: Up to 7250 psi
- Max Temperature: 215°F

Model #’s & Dimensional Information

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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DE3L/DB3L High Pressure Series

3-way Ball Valves

Features

- Rugged Carbon Steel Construction
- Mounting Holes on DE models
- ¼” - 2” Sizes - NPT and SAE
- Full and Reduced Port
- Blow-Out Proof Stems
- Chrome-plated Steel Ball
- Standard Seals: Buna-N; other seals by special order
- Max Pressure: Up to 5880 psi
- Max Temperature: 215°F

Features

- Chrome-plated Steel Ball
- Standard Seals: Buna-N; other seals by special order
- Max Pressure: Up to 5880 psi
- Max Temperature: 215°F

Model #’s & Dimensional Information

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<th>Model #</th>
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<th>psi</th>
<th>Port</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>H</th>
<th>J</th>
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Hydraulic oil must flow into valve through port “1”.

The valve can only be sealed under one of two conditions:

1) Pressure at the closed port is zero;
2) Pressure at the closed port is lower than at the two open ports.

FLUID COMPONENTS, INC.

Hydraulic oil must flow into valve through port “1”.

The valve can only be sealed under one of two conditions:

1) Pressure at the closed port is zero;
2) Pressure at the closed port is lower than at the two open ports.
**DE3K/DB3K High Pressure Series**

**3-way Ball Valves**

Available by Special Order Only

### Features

- Rugged Carbon Steel Construction
- Mounting Holes on DE models
- ¼” - 1 ½” Sizes - NPT and SAE
- Full and Reduced Port
- Blow-Out Proof Stems
- Chrome-plated Steel Ball
- Standard Seals: Buna-N; other seals available
- Max Pressure: Up to 5880 psi
- Max Temperature: 215°F

### Model #’s & Dimensional Information

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<th>Thread</th>
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<th>Port</th>
<th>A</th>
<th>B</th>
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<th>J</th>
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**Model #’s & Dimensional Information**

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* Dynamic seals in DE3K series valves allow for higher pressure at closed port without leakage.

* "L" and "T" Ports available. Minimum quantity may apply.
Features

- Rugged Carbon Steel Construction
- SAE Split Flange
- 1/2" - 2" Sizes
- Code 61 (3000 psi)
- Code 62 (6000 psi)

Model #’s & Dimensional Information

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<th>dn</th>
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<th>C</th>
<th>D</th>
<th>E</th>
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Ball Valve Locking Kits

Model #’s & Descriptions

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<th>Model #</th>
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<td>&quot;U&quot; Locking Kit for DE Models: 1/4&quot; - 1/2&quot; Full Port Sizes</td>
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<td>DLK-M</td>
<td>&quot;U&quot; Locking Kit for DE Models: 3/4&quot; - 1&quot; Full Ports &amp; 1 1/4&quot; - 1 1/2&quot; Reduced Ports</td>
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<td>DLK-L</td>
<td>&quot;U&quot; Locking Kit for DB Models: 1 1/4&quot; - 2&quot; Full Ports Sizes</td>
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<td>LK-S</td>
<td>Flat Locking Kit for DE Models: 1/4&quot; - 1/2&quot; Full Port Sizes</td>
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<td>LK-M</td>
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<td>Flat Locking Kit for DB Models: 1 1/4&quot; - 2&quot; Full Port Sizes</td>
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Not sure how to install your locking kit? Visit: https://www.youtube.com/watch?v=YjUedUGMxYM to watch a short video demonstration on installing our "U" style locking kits.

Ball Valve Handles

Model #’s & Descriptions

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
<th>Length</th>
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<tbody>
<tr>
<td>SW9 - Sm. Silver Handle (DE 1/4&quot; - 1/2&quot;)</td>
<td>SW9 Small Silver Handle for DE2 / DE3 1/4&quot; - 1/2&quot; Full Port Sizes</td>
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<tr>
<td>SW14 - Med. Silver Handle (DE 3/4&quot;-1 1/2&quot;)</td>
<td>SW14 Medium Silver Handle for DE2 / DE3 3/4&quot; - 1&quot; Full Port Sizes &amp; 1 1/4&quot; - 1 1/2&quot; Reduced Ports</td>
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<td>SW17 - Lg. Silver Handle (DB 1 1/4&quot;-2&quot;)</td>
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<td>9.00&quot;</td>
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</table>
Model JPLS-3000 offers a hydraulically-balanced, chrome-plated spool and pressure release detent adjustable from 1000 to 2000 psi. Recommended for systems with flows up to 25 gpm, the JPLS-3000 relief valve is adjustable up to 2750 psi. When the tandem center spool is in neutral position, hydraulic flow is diverted to the return line. This is used to hold the cylinder/piston in position with no load on the pump, keeping wear and tear on the pump to a minimum.

Technical Specifications

- Max Operating Pressure: 2750 psi
- Max Tank Pressure: 150 psi
- Max Flow Rating: 25 gpm
- Relief Valve Setting: 2250 psi
- Recommended Filtration: ISO 4406 19/17/14
- Max Operating Temperature: 180°F
- Standard Port Size: 1/2" NPT
- Weight: 10 lbs

In exposed applications, do not mount with spool vertical and handle down.

Installation Data

Ordering Example: JPLS - 3000

Note: 1/2" NPT ports are standard. Additional port options may be available with special order.
APPENDIX HYDRAULIC MOTORS  HYDRAULIC PUMPS  GAUGES & ACCESSORIES

JP-NV Series

Needle Valve

Features
- Micrometer adjustment knob for accurate valve setting
- Rugged construction
- Maximum Pressure: 5000 psi
- Temperature Range: -4° to 176°F (-20°C to 80°C)
- Allen Head Lock Screw to Lock Handle in Place

Materials
- Body: Carbon steel with black oxide plating
- Handle: Zinc Alloy
- Set Screw: Steel
- Packing: Buna O-Ring/PTFE stem packing

Model #’s & Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>B</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>H1</th>
<th>H2</th>
<th>H3</th>
<th>L1</th>
<th>L2</th>
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<tr>
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<td>1.10&quot;</td>
<td>.76&quot;</td>
<td>1.18&quot;</td>
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<td>.55&quot;</td>
<td>2.41&quot;</td>
<td>2.67&quot;</td>
<td>1.065&quot;</td>
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<tr>
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<td>2.41&quot;</td>
<td>2.67&quot;</td>
<td>1.065&quot;</td>
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<td>3.41&quot;</td>
<td>1.34&quot;</td>
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DFFG Series
Needle Valve

Features
- Up to 10,000 psi
- Heavy Duty construction for added strength and safety
- Carbon Steel valves are zinc plated and sealed with black chromate for corrosion protection

Features
- Up to 10,000 psi
- Heavy Duty construction for added strength and safety
- Carbon Steel valves are zinc plated and sealed with black chromate for corrosion protection

Model #’s & Dimensional Information

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<th>E</th>
<th>F Square</th>
<th>G</th>
<th>H Dia.</th>
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APPENDIX
HYDRAULIC MOTORS
HYDRAULIC PUMPS
GAUGES & ACCESSORIES

Model #’s & Dimensional Information

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<td>3.07&quot;</td>
<td>3.41&quot;</td>
<td>2.05&quot;</td>
<td>3.27&quot;</td>
<td>2.00 lbs</td>
</tr>
</tbody>
</table>
Model DFC-51 is a full-range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flow is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief allows for pressure compensated flow up to the pressure setting on the relief. Relief valves are preset at 1500 psi and field adjustable from 75 to 3000 psi.

**Materials**
- Cast Iron Body
- Heat Treated Compensator Spool
- Stainless Steel Rotary Spool
- Buna-N “O” Rings

**Installation Data**

**Ordering Example:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Relief Option</th>
<th>Series</th>
<th>Port Size &amp; Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFC</td>
<td>R = Adj. Ball Spring Relief</td>
<td>51</td>
<td>38-N = 3/8” NPT (0-8 gpm)</td>
</tr>
<tr>
<td></td>
<td>N = No Relief</td>
<td></td>
<td>12-N = 1/2” NPT (0-16 gpm)</td>
</tr>
<tr>
<td></td>
<td>B* = Extended Relief</td>
<td></td>
<td>34-N = 3/4” NPT (0-30 gpm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>06-S = 06 SAE (0-8 gpm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>08-S = 08 SAE (0-16 gpm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10-S = 10 SAE (0-16 gpm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12-S = 12 SAE (0-32 gpm)</td>
</tr>
</tbody>
</table>

*Special Order Only*
Model FDA is a rotary gear flow divider with 6 displacements from 0.129 to 0.517 in³/rev (2.13 to 8.42 cm³/rev). Maximum flow rates of 2.5 to 8.5 gpm are available across the displacement range. Standard ports are SAE, sizes are noted in the data chart below.

Recommended working conditions:
- FILTRATION: 25 micron or better
- OIL VISCOSITY: 6 - 200 cSt
- INLET PRESSURE: 12 - 32 psi absolute
- OIL TEMPERATURE: -25° - 80° C (-12° - 175° F)
- AMBIENT: -22° - 55° C (-8° - 130° F)

Technical Specifications
Specifications based on using Petroleum oil at 120°F (49°C), viscosity 150 SUS at 100°F and 0 inlet pressure.

<table>
<thead>
<tr>
<th>Model</th>
<th>Displacement</th>
<th>Min. Flow</th>
<th>Max. Flow</th>
<th>Max. Outlet Pressure</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in³/rev</td>
<td>cm³/rev</td>
<td>per section (gpm)</td>
<td>per section (gpm)</td>
<td>psi</td>
</tr>
<tr>
<td>FDA-2-<em>129-</em></td>
<td>.129</td>
<td>2.13</td>
<td>1.20</td>
<td>2.5</td>
<td>3500</td>
</tr>
<tr>
<td>FDA-2-<em>194-</em></td>
<td>.194</td>
<td>3.18</td>
<td>1.70</td>
<td>4.5</td>
<td>SAE 8</td>
</tr>
<tr>
<td>FDA-2-<em>258-</em></td>
<td>.258</td>
<td>4.24</td>
<td>2.50</td>
<td>5.0</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-2-<em>323-</em></td>
<td>.323</td>
<td>5.29</td>
<td>3.00</td>
<td>6.0</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-2-<em>388-</em></td>
<td>.388</td>
<td>6.36</td>
<td>3.50</td>
<td>7.0</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-2-<em>517-</em></td>
<td>.517</td>
<td>8.42</td>
<td>4.50</td>
<td>9.0</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-4-<em>129-</em></td>
<td>.129</td>
<td>2.13</td>
<td>1.20</td>
<td>2.0</td>
<td>3500</td>
</tr>
<tr>
<td>FDA-4-<em>194-</em></td>
<td>.194</td>
<td>3.18</td>
<td>1.70</td>
<td>3.0</td>
<td>SAE 8</td>
</tr>
<tr>
<td>FDA-4-<em>258-</em></td>
<td>.258</td>
<td>4.24</td>
<td>2.50</td>
<td>4.2</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-4-<em>323-</em></td>
<td>.323</td>
<td>5.29</td>
<td>3.00</td>
<td>4.7</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-4-<em>388-</em></td>
<td>.388</td>
<td>6.36</td>
<td>3.50</td>
<td>6.1</td>
<td>SAE 10</td>
</tr>
<tr>
<td>FDA-4-<em>517-</em></td>
<td>.517</td>
<td>8.42</td>
<td>4.50</td>
<td>8.5</td>
<td>SAE 10</td>
</tr>
</tbody>
</table>

Flow Rate (gpm) = Displacement (in³/rev) X Speed (rpm) / 231

Volumetric efficiency % ≥93

Installation Data

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Sections</th>
<th>Relief</th>
<th>Displacement</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDA</td>
<td>2</td>
<td>R</td>
<td>258</td>
<td>S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Series</th>
<th>Relief</th>
<th>Displacement</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDA = Flow Divider</td>
<td>2 - 2-section</td>
<td>R = Relief Valve</td>
<td>129/194/258</td>
<td>S - SAE</td>
</tr>
<tr>
<td>4* - 4-section</td>
<td>N = No Relief Valve</td>
<td>323/388/517</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Special Order - minimums may apply*
Model DYFB
Spool Flow Divider

Features
- Precision ground heat treated spool
- Pressure compensation for both outlet ports
- Divides inlet flow into two flows of equal flow (other ratios available with minimum order)
- Maximum Pressure: 3000 psi
- Optional free reverse flow allows fluid to move from the outlet ports to the inlet port

Materials
- Cast Iron Body
- Buna N “O” Rings
- Heat Treated Steel Spool
- Heat Treated Free Reverse Check Seat

Technical Specifications

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Min. Flow each section (gpm)</th>
<th>Max. Flow each section (gpm)</th>
<th>Max. Outlet Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” NPT</td>
<td>2</td>
<td>8</td>
<td>3000</td>
</tr>
<tr>
<td>1/2” NPT</td>
<td>8</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>3/4” NPT</td>
<td>16</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>#10 SAE</td>
<td>8</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>#12 SAE</td>
<td>16</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Installation Data

Ordering Example:

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Options</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYFB</td>
<td>100</td>
<td>1/2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Flow Options</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYFB = Flow Divider</td>
<td>50* = Inlet to Outlet</td>
<td>3/8 = 3/8” NPT</td>
</tr>
<tr>
<td></td>
<td>100 = Free Reverse Flow</td>
<td>1/2 = 1/2” NPT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3/4 = 3/4” NPT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#10 SAE = 10 SAE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#12 SAE = 12 SAE</td>
</tr>
</tbody>
</table>

*Special Order - minimums may apply
The Dynamic DSV 12-volt DC selector valve is operated by a continuously rated wet pin solenoid. This is capable of switching from one circuit to another at a variety of flows and pressures. The DSV may be connected to the service ports of a directional control valve and used to direct service line flow to and from either of two separate devices. If more than two circuits are to be controlled then additional units can be stacked together (max of 3), minimizing the need for pipes and fittings. Also the DSV series valves can be connected to a pump and used to direct the flow to either one of two different circuits.

### Technical Specifications

#### Hydraulic

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Max Flow Rate</th>
<th>Operating Pressure</th>
<th>Oil Temp Range</th>
<th>Viscosity Range</th>
<th>Filtration Requirement</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4-16 - SAE-08</td>
<td>13.2 gpm</td>
<td>3600 psi</td>
<td>-4°F - 158°F</td>
<td>70-1790 SSu</td>
<td>NAS 1638 8</td>
<td>10 lbs</td>
</tr>
<tr>
<td>7/8-14 - SAE-10</td>
<td>18.0 gpm</td>
<td>3600 psi</td>
<td>-4°F - 158°F</td>
<td>70-1790 SSu</td>
<td>NAS 1638 8</td>
<td>11.5 lbs</td>
</tr>
</tbody>
</table>

#### Electrical

<table>
<thead>
<tr>
<th>Supply Voltage</th>
<th>Amperage Rating</th>
<th>Max Ambient Temp</th>
<th>Max Coil Temp</th>
<th>Duty Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/24VDC</td>
<td>1.25A for DC 12V, 2.50A for DC 24V</td>
<td>125° F</td>
<td>356° F</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

#### Ordering Example:

**DSV**
- **Model**
- **Style** 62
- **Port Size** 08
- **Supply Voltage** 12

*DSV* = Dynamic Selector Valve

62 = 6-way, 2-Station

08 = SAE-08

10 = SAE-10

12 = 12/24VDC

**Additional port sizes may be available by special order.**
### Features
- 40 Micron Breather
- Cap: Chrome-plated Steel
- Connector: Galvanized Steel
- 1/4" to 1" NPT
- Working Temp: -13° - 230°F

### Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>Thread</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>CH</th>
<th>Micron</th>
<th>Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB40-04</td>
<td>1/4&quot; NPT</td>
<td>1.85&quot;</td>
<td>1.30&quot;</td>
<td>.47&quot;</td>
<td>.28&quot;</td>
<td>.75&quot;</td>
<td>40</td>
<td>40 gpm</td>
</tr>
<tr>
<td>DB40-06</td>
<td>3/8&quot; NPT</td>
<td>1.85&quot;</td>
<td>1.30&quot;</td>
<td>.47&quot;</td>
<td>.28&quot;</td>
<td>.75&quot;</td>
<td>40</td>
<td>79 gpm</td>
</tr>
<tr>
<td>DB40-08</td>
<td>1/2&quot; NPT</td>
<td>3.12&quot;</td>
<td>2.09&quot;</td>
<td>.62&quot;</td>
<td>.28&quot;</td>
<td>1.27&quot;</td>
<td>40</td>
<td>119 gpm</td>
</tr>
<tr>
<td>DB40-12</td>
<td>3/4&quot; NPT</td>
<td>3.12&quot;</td>
<td>2.09&quot;</td>
<td>.62&quot;</td>
<td>.28&quot;</td>
<td>1.27&quot;</td>
<td>40</td>
<td>198 gpm</td>
</tr>
<tr>
<td>DB40-16</td>
<td>1&quot; NPT</td>
<td>3.12&quot;</td>
<td>2.12&quot;</td>
<td>.75&quot;</td>
<td>.38&quot;</td>
<td>1.42&quot;</td>
<td>40</td>
<td>225 gpm</td>
</tr>
</tbody>
</table>

### Ordering Example:

- **Model**: DB
- **Filtration**: 40 = 40 micron
- **Connection**: 04 = 1/4" NPT

**DB = Designation for Breathers**

- 04 = 1/4" NPT
- 06 = 3/8" NPT
- 08 = 1/2" NPT
- 12 = 3/4" NPT
- 16 = 1" NPT
Features
- Chrome Plated Steel Cap
- 40 Micron Breather
- 3”, 4” & 6” Basket Lengths
- Metal Basket Standard
- Lockable Option

* Special order
Consult Factory for ordering caps or baskets only

Installation Data

Dimensional Information

<table>
<thead>
<tr>
<th>Model #</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
<th>D5</th>
<th>D6</th>
<th>H1</th>
<th>H2</th>
<th>Micron</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFB40-03</td>
<td>3.15&quot;</td>
<td>1.97&quot;</td>
<td>3.27&quot;</td>
<td>M5</td>
<td>2.05&quot;</td>
<td>2.87&quot;</td>
<td>2.24&quot;</td>
<td>3.07”</td>
<td>40</td>
<td>119 gpm</td>
</tr>
<tr>
<td>DFB40-04*</td>
<td>3.15&quot;</td>
<td>1.97&quot;</td>
<td>3.27&quot;</td>
<td>M5</td>
<td>2.05&quot;</td>
<td>2.87&quot;</td>
<td>2.24&quot;</td>
<td>3.94”</td>
<td>40</td>
<td>119 gpm</td>
</tr>
<tr>
<td>DFB40-06*</td>
<td>3.15&quot;</td>
<td>1.97&quot;</td>
<td>3.27&quot;</td>
<td>M5</td>
<td>2.05&quot;</td>
<td>2.87&quot;</td>
<td>2.24&quot;</td>
<td>5.83”</td>
<td>40</td>
<td>119 gpm</td>
</tr>
</tbody>
</table>

Ordering Example:
DFB 40 - 03 - MB

Model Filtration Basket Length Options
DFB = Designation for Filter Breathers
40 = 40 micron
03 = 3”
04* = 4”
06* = 6”
MB = Standard Metal Basket
L = Lockable

Consult Factory for ordering caps or baskets only