

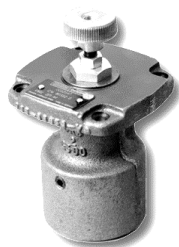
# 5. Pressure Control Valves

| Series                         | Function                                      | Model                            | Size                | Max. Flow (GPM) | Max. Pressure (PSI) | Mounting         |               |           |                    |               | Page    |
|--------------------------------|-----------------------------------------------|----------------------------------|---------------------|-----------------|---------------------|------------------|---------------|-----------|--------------------|---------------|---------|
|                                |                                               |                                  |                     |                 |                     | Subplate mounted | Threaded Body | Cartridge | SAE flange mounted | Panel mounted |         |
| R1E02                          | Remote Control                                | R1E02                            | 1/4"                | 1               | 5000                | ●                |               | ●         |                    | ●             | 5 - 3   |
| R4 Series                      | Relief                                        | R4V03                            | 3/8"                | 24              | 5000                | ●                | ●             | ●         |                    |               | 5 - 4   |
|                                |                                               | R4V06                            | 3/4"                | 79              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4V10                            | 1 1/4"              | 159             | 5000                | ●                | ●             | ●         |                    |               |         |
|                                | Unload                                        | R4U03                            | 3/8"                | 24              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4U06                            | 3/4"                | 79              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4U10                            | 1 1/4"              | 159             | 5000                | ●                | ●             | ●         |                    |               |         |
|                                | Reducing                                      | R4R03                            | 3/8"                | 24              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4R06                            | 3/4"                | 79              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4R10                            | 1 1/4"              | 159             | 5000                | ●                | ●             | ●         |                    |               |         |
|                                | Sequence                                      | R4S03                            | 3/8"                | 24              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4S06                            | 3/4"                | 79              | 5000                | ●                | ●             | ●         |                    |               |         |
|                                |                                               | R4S10                            | 1 1/4"              | 159             | 5000                | ●                | ●             | ●         |                    |               |         |
| R5 Series 3 ports              | Relief                                        | R5V06                            | 3/4"                | 24              | 5000                |                  |               |           | ●                  |               | 5 - 6   |
|                                |                                               | R5V08                            | 1"                  | 79              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5V10                            | 1 1/4"              | 159             | 4500                |                  |               |           | ●                  |               |         |
|                                |                                               | R5V12                            | 1 1/2"              | 159             | 3000 / 6000         |                  |               |           | ●                  |               |         |
|                                | Unload                                        | R5U06                            | 3/4"                | 24              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5U08                            | 1"                  | 79              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5U10                            | 1 1/4"              | 159             | 4500                |                  |               |           | ●                  |               |         |
|                                |                                               | R5U12                            | 1 1/2"              | 159             | 3000 / 6000         |                  |               |           | ●                  |               |         |
|                                | Sequence                                      | R5S06                            | 3/4"                | 24              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5S08                            | 1"                  | 79              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5S10                            | 1 1/4"              | 159             | 4500                |                  |               |           | ●                  |               |         |
|                                | Compensator <sup>1</sup>                      | R5P06                            | 3/4"                | 24              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5P08                            | 1"                  | 79              | 5000                |                  |               |           | ●                  |               |         |
|                                |                                               | R5P10                            | 1 1/4"              | 159             | 4500                |                  |               |           | ●                  |               |         |
| R5 Series 2 ports <sup>2</sup> | Relief<br>Sequence<br>Reducing<br>Compensator | R5V**<br>R5S**<br>R5R**<br>R5A** | 3/4"<br>:<br>1 1/4" | 24<br>:<br>159  | 5000                |                  |               |           | ●                  |               | Denison |

<sup>1</sup> R5P 3-port compensator : to be used with F5C. Refer to proportional flow-control valve (section 10.).

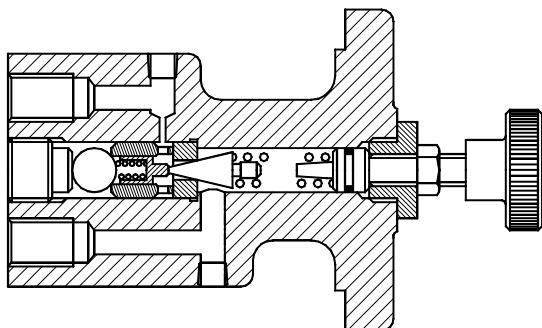
<sup>2</sup> R5A 2-port compensator : to be used with F5C. Refer to proportional flow-control valve (section 10.).  
Other 2-port versions : consult Denison Hydraulics for details.

| Model                      | Size   | Max. Pressure (PSI) | Weight (lbs) | Maximum flow (GPM)                                   | Page         |
|----------------------------|--------|---------------------|--------------|------------------------------------------------------|--------------|
| <b>R1E02</b>               |        |                     |              | 0.0    0.2    0.4    0.6    0.8    1.0    1.2    1.4 | <b>5 - 3</b> |
| <b>R1E02</b>               | 1/4"   | 5000                | 4.6          | 1.0                                                  |              |
| <b>R4 Series</b>           |        |                     |              | 0    25    50    75    100    125    150    175      | <b>5 - 4</b> |
| <b>R4♦03</b>               | 3/8"   | 5000                | 6.0          | 23.8                                                 |              |
| <b>R4♦06</b>               | 3/4"   | 5000                | 9.9          | 79.3                                                 |              |
| <b>R4♦10</b>               | 1 1/4" | 5000                | 13.2         | 158.5                                                |              |
| <b>R5 Series - 3 ports</b> |        |                     |              | 0    25    50    75    100    125    150    175      | <b>5 - 6</b> |
| <b>R5♦06</b>               | 3/4"   | 5000                | 7.9          | 23.8                                                 |              |
| <b>R5♦08</b>               | 1"     | 5000                | 10.1         | 79.3                                                 |              |
| <b>R5♦10</b>               | 1 1/4" | 4500                | 11.5         | 158.5                                                |              |
| <b>R5♦12</b>               | 1 1/2" | 3000<br>6000        | 17.6         | 158.5                                                |              |



## R1E02 - Remote control

1.0 GPM - 5000 PSI



**Key sheet** ..... Example : **R1E02-2311-A1**

1. **R1E02-2311-A1** ..... Series
2. **R1E02-2311-A1** ..... Body

|                |   |
|----------------|---|
| Subplate       | 3 |
| Panel Mounting | 2 |
| Cartridge      | 0 |
| Foot           | 1 |

3. **R1E02-2311-A1** ..... Setting range

|                |   |
|----------------|---|
| 100 - 1500 PSI | 1 |
| 100 - 3000 PSI | 3 |
| 100 - 5000 PSI | 5 |

4. **R1E02-2311-A1** ..... Connections

|                  |   |
|------------------|---|
| 1/4" NPTF        | 1 |
| 1/4" BSPP        | 2 |
| None (cartridge) | 0 |

5. **R1E02-2311-A1** ..... Control

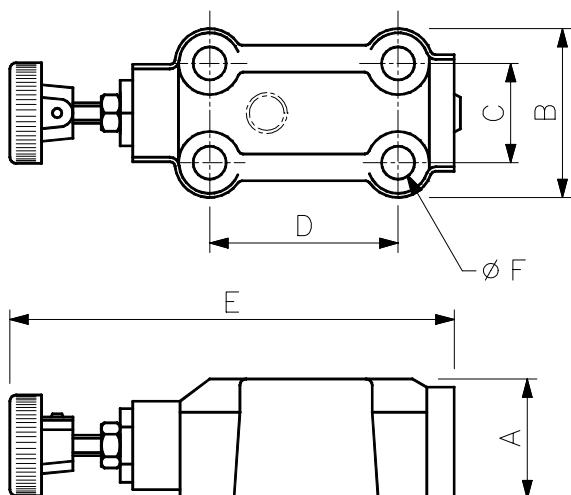
|              |   |
|--------------|---|
| Knob Ø 1.26" | 1 |
| Acorn        | 3 |

6. **R1E02-2311-A1** ..... Design

7. **R1E02-2311-A1** ..... Seal Class

|                      |                    |
|----------------------|--------------------|
| Buna N : Mineral oil | 1                  |
| Others               | Denison Hydraulics |

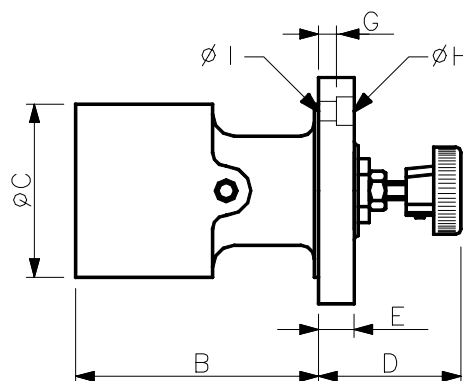
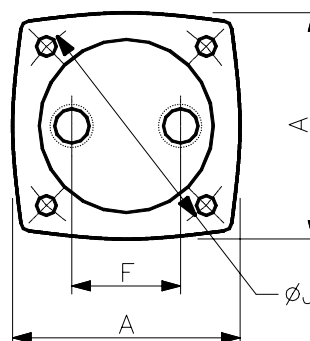
Dimensions <sup>1</sup> (in)



NOTE: This is not a pilot head.

Subplate mounting

|    |      |
|----|------|
| A  | 1.50 |
| B  | 2.05 |
| C  | 1.25 |
| D  | 2.31 |
| E  | 5.55 |
| ØF | 0.41 |
|    |      |
|    |      |
|    |      |
|    |      |



Panel mounting

|    |      |
|----|------|
| A  | 3.27 |
| B  | 3.49 |
| ØC | 2.50 |
| D  | 2.05 |
| E  | 0.51 |
| F  | 1.56 |
| G  | 0.26 |
| ØH | 0.41 |
| ØI | 0.28 |
| ØJ | 3.25 |

<sup>1</sup> Foot and cartridge versions : contact Denison Hydraulics.