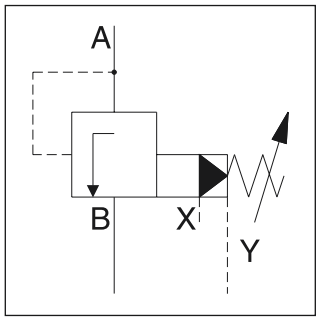
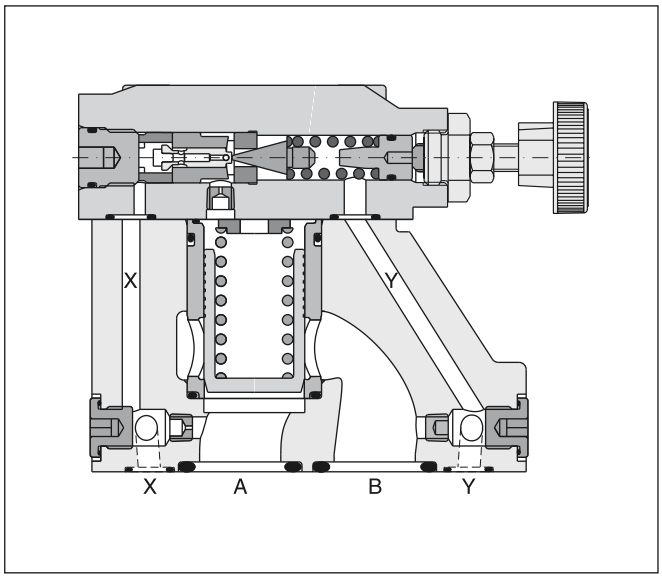
Subplate mounted sequence valves are available with both Parker (series S) and Denison (series R4S) model codes.

These valves enable a hydraulic system to operate in a pressure sequence. When the system pressure reaches the setting pressure the valve opens and permits flow to the secondary sub-system.




**Features**

- Pilot operated sequence valve
- Subplate mounting acc. to ISO 5781
- 4 pressure stages
- 3 adjustment modes
  - hand knob
  - acorn nut with lead seal
  - DIN knob

4

**Technical data S/R4S**

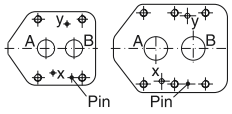
| | | | | |
|---|---|---|---|---|
| **General** | | | | |
| Nominal size | | **10** | **25** | **32** |
| Interface | | Subplate mounting acc. ISO 5781 | | |
| Mounting position | | as desired, horizontal mounting prefered | | |
| Ambient temperature | [°C] | -20...+80 | | |
| Weight Series S/R4S | [kg] | 2.7 | 4.5 | 6.0 |
| **Hydraulic** | | | | |
| Max. operating pressure | [bar] | Ports A, B and X 350, port Y depressurized | | |
| Pressure stages | [bar] | 75, 175, 250, 350 (series S), 105, 210, 350 (series R45) | | |
| Nominal flow | [l/min] | 150 | 350 | 650 |
| Fluid | | Hydraulic oil according to DIN 51524 ... 525 | | |
| Viscosity, recommended | [cSt] / [mm²/s] | 30 ... 50 | | |
| permitted | [cSt] / [mm²/s] | 20 ... 380 | | |
| Fluid temperature | [°C] | -20 ... +70 | | |
| Filtration | | ISO 4406 (1999); 18/16/13 | | |

## Parker

| S | | M | | | 1 | U | | |
|---|---|---|---|---|---|---|---|---|
| Sequence valve | Nominal size | Interface | Pressure stages | Adjust-ment | External drain from subplate | Poppet spring | Seals | Design series (not required for ordering) |

| Code | Nominal size |
|---|---|
| 10 | NG10 |
| 25 | NG25 |
| 32 | NG32 |

| Code | Seals |
|---|---|
| N | NBR |
| V | FPM |

| Code | Interface | |
|---|---|---|
| M | Subplate mounting ISO 5781 | NG 10 and 25 / NG 32   |

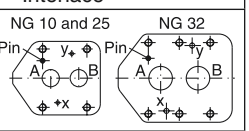
| Code | Adjustment |
|---|---|
| S | Hand knob (Standard) |
| L | DIN lock |
| A | Acorn nut with lead seal |

| Code | Pressure stages |
|---|---|
| 07 | up to 70 bar |
| 17 | up to 175 bar |
| 25 | up to 250 bar |
| 35 | up to 350 bar |

**The Parker model code should be used for all new applications. Otherwise also refer to Denison model code.**

## Denison

| R | 4 | S | | – | 5 | 3 | | – | | 1 | A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure valve | Interface | Relief function | Nominal size | | Max. pressure (350 bar) | Plain cap | Pressure stages | | Adjust-ment | External drain from subplate | Design series | Seals |

| Code | Interface | |
|---|---|---|
| 4 | Subplate mounting ISO 5781 | NG 10 and 25 / NG 32   |

| Code | Seals |
|---|---|
| 1 | NBR |
| 5 | FPM |

| Code | Nominal size |
|---|---|
| 03 | NG10 |
| 06 | NG25 |
| 10 | NG32 |

| Code | Adjustment |
|---|---|
| 1 | Hand knob 32mm dia. (Standard) |
| 3 | Acorn nut with lead seal |
| 4 | Adjusting device with key lock |

| Code | Pressure stages |
|---|---|
| 1 | up to 105 bar |
| 3 | up to 210 bar |
| 5 | up to 350 bar |

**The Denison model code is available for existing applications. Otherwise also refer to Parker model code.**

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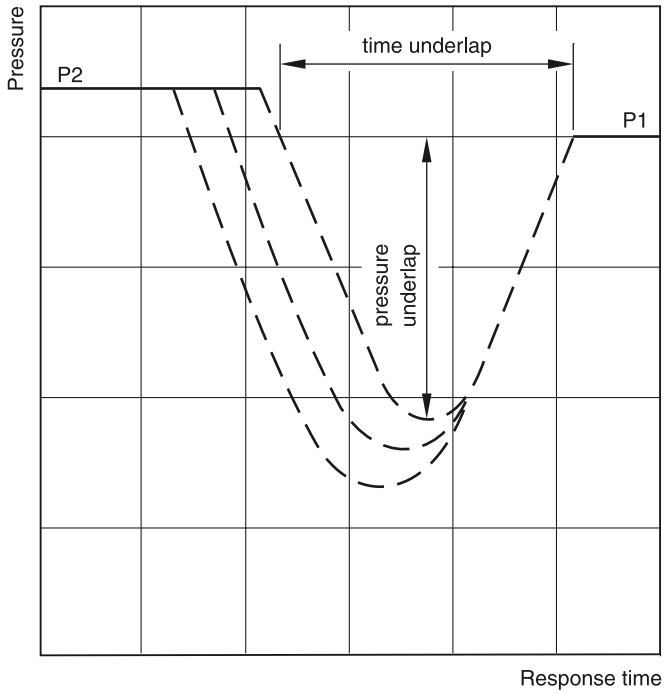
Kaarst, Germany

**Typical pressure characteristics at closing point**

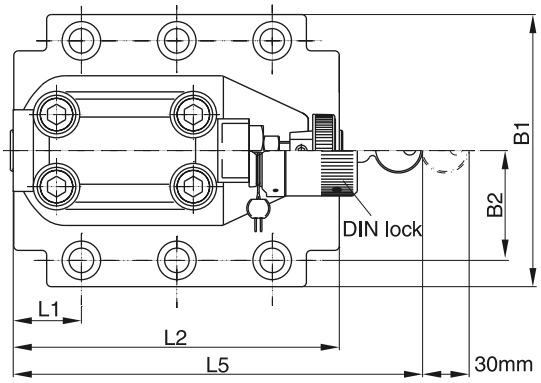
**P1 = setting pressure**

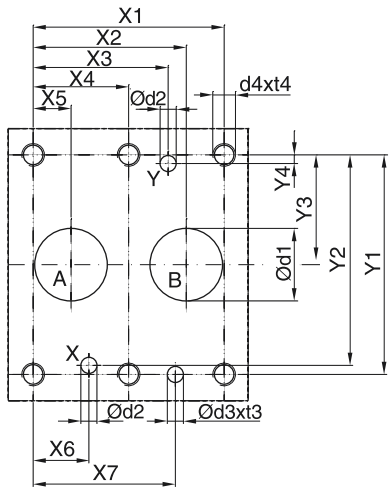
**P2 = operating pressure**

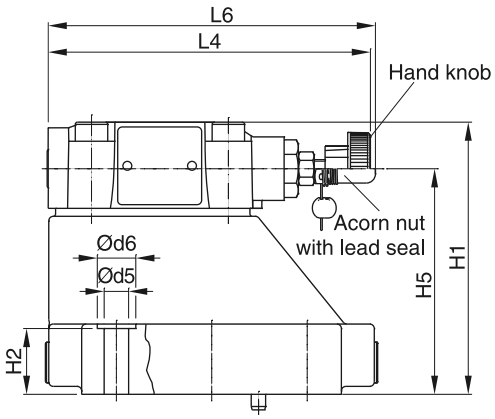


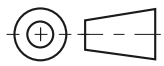

Time and pressure underlap depend on the characteristics of the specific system.

**S*M**



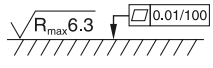



| NG | ISO-code | x1 | x2 | x3 | x4 | x5 | x6 | x7 | y1 | y2 | y3 | y4 | y5 | y6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 5781-06-07-0-00 | 42.9 | 35.8 | 21.5 | – | 7.2 | 21.5 | 31.8 | 66.7 | 58.8 | 33.4 | 7.9 | – | – |
| 25 | 5781-08-10-0-00 | 60.3 | 49.2 | 39.7 | – | 11.1 | 20.6 | 44.5 | 79.4 | 73 | 39.7 | 6.4 | – | – |
| 32 | 5781-10-13-0-00 | 84.2 | 67.5 | 59.5 | 42.1 | 16.7 | 24.6 | 62.7 | 96.8 | 92.8 | 48.4 | 3.8 | – | – |

Tolerance at X and Y pin holes and screw holes ±0.1, at port holes ±0.2.

| NG | ISO-code | B1 | B2 | H1 | H2 | H3 | H4 | H5 | H6 | L1 | L2 | L3 | L4 | L5 | L6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 5781-06-07-0-00 | 87.3 | 33.35 | 83 | 21 | 62.5 | – | – | – | 29 | 94.8 | – | 143 | 181 | 144.8 |
| 25 | 5781-08-10-0-00 | 105 | 39.7 | 109.5 | 29 | 89 | – | – | – | 34.7 | 126.8 | – | 143 | 181 | 144.8 |
| 32 | 5781-10-13-0-00 | 120 | 48.4 | 120 | 29 | 99.5 | – | – | – | 30.6 | 144.3 | – | 143 | 181 | 144.8 |

| NG | ISO-code | d1max | d2max | d3 | t3 | d4 | t4 | d5 | d6 |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 5781-06-07-0-00 | 15 | 7 | 7.1 | 8 | M10 | 16 | 10.8 | 17 |
| 25 | 5781-08-10-0-00 | 23.4 | 7.1 | 7.1 | 8 | M10 | 18 | 10.8 | 17 |
| 32 | 5781-10-13-0-00 | 32 | 7.1 | 7.1 | 8 | M10 | 20 | 10.8 | 17 |

| NG | ISO-code | Bolt kit - DIN912 12.9 | | Kit | | Surface finish |
|---|---|---|---|---|---|---|
| | | | | NBR | FPM | |
| 10 | 5781-06-07-0-00 | BK-M10 x 35-4pcs | 63 Nm ±15% | SK-UR10MN50 | SK-UR10MV50 |  |
| 25 | 5781-08-10-0-00 | BK-M10 x 45-4pcs | 63 Nm ±15% | SK-UR25MN50 | SK-UR25MV50 | |
| 32 | 5781-10-13-0-00 | BK-M10 x 45-6pcs | 63 Nm ±15% | SK-UR32MN50 | SK-UR32MV50 | |



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Hydraulic Controls Division
Kaarst, Germany