

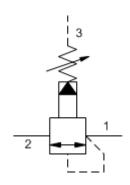
MODEL RSDC

Pilot-operated, balanced piston sequence valve

CAPACITY: 15 gpm / CAVITY: T-11A

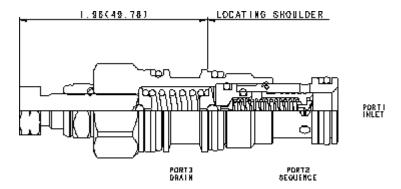


sunhydraulics.com/model/RSDC



CONFIGURATION

| F | Control | Hex Head Screw with Locknut | | | | | |
|---|---------------------|---|--|--|--|--|--|
| Α | Adjustment Range | 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting | | | | | |
| N | Seal Material | Buna-N | | | | | |
| | Material/Coating | | | | | | |



Pilot-operated, balanced piston sequence valves will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3). These valves are insensitive to back pressure at port 2 (sequence), up to the valve setting. They may be used to regulate pressure in

place of 2-port relief valves if there is pressure in the return line.

TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Cavity | T-11A | | | | |
|--|---------------------------|--|--|--|--|
| Series | 1 | | | | |
| Capacity | 15 gpm | | | | |
| Maximum Operating Pressure | 5000 psi | | | | |
| Control Pilot Flow | 7 - 10 in³/min. | | | | |
| Factory Pressure Settings Established at | 4 gpm | | | | |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi | | | | |
| Response Time - Typical | 10 ms | | | | |
| Adjustment - No. of CW Turns from Min. to Max. setting | 5 | | | | |
| Valve Hex Size | 7/8 in. | | | | |
| Valve Installation Torque | 30 - 35 lbf ft | | | | |
| Adjustment Screw Internal Hex Size | 5/32 in. | | | | |
| Locknut Hex Size | 9/16 in. | | | | |
| Locknut Torque | 80 - 90 lbf in. | | | | |
| Model Weight | 0.30 lb. | | | | |
| Seal kit - Cartridge | Buna: 990-011-007 | | | | |
| Seal kit - Cartridge | EPDM: 990-011-014 | | | | |
| Seal kit - Cartridge | Polyurethane: 990-011-002 | | | | |
| Seal kit - Cartridge | Viton: 990-011-006 | | | | |

NOTES: • For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

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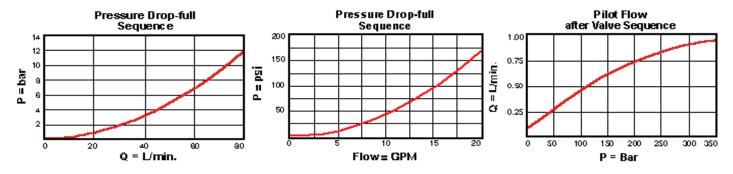
OPTION SELECTION EXAMPLE: RSDCFAN

| CONTROL | | (F) | ADJUSTMENT RANGE | (A) | SEA | L MATERIAL | (N) | MATE | RIAL/COATING | (/LH) |
|----------------------------|---|-----|---|----------------------|-------------|-------------------------|-----|-------------------|--------------|-------|
| F C J K L O | Hex Head Screw with Locknut Tamper Resistant - Factory Set Capped Screw Adjustment Handknob Standard Screw Adjustment Handknob with Panel Mount Hex Wrench Adjustment | | A 100 - 3000 psi (7 - 210 bar), 1 psi (70 bar) Standard Setting B 50 - 1500 psi (3,5 - 105 bar), 1 psi (70 bar) Standard Setting C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Se D 25 - 800 psi (1,7 - 55 bar), 400 (28 bar) Standard Setting | .000), etting | N E V | Buna-N EPDM Viton | | /LH /AP | • | |
| Υ | Tri-Grip Handknob | | E 25 - 400 psi (1,7 - 28 bar), 200 (14 bar) Standard Setting |) psi | | | | | | |
| | | | N 60 - 800 psi (4 - 55 bar), 400 p bar) Standard Setting | osi (28 | | | | | | |
| | | | Q 60 - 400 psi (4 - 28 bar), 200 p bar) Standard Setting | osi (14 | | | | | | |
| | | | W 150 - 4500 psi (10,5 - 315 bar) 1000 psi (70 bar) Standard Se | | | | | | | |

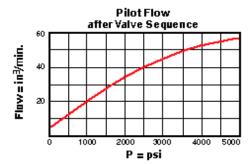
TECHNICAL FEATURES

- All 3 port sequence cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size).
- Pilot flow continues to increase as the pressure at port 1 (inlet), relative to the pressure at port 3 (drain), rises above the valve setting.
- The main stage orifice is protected by a 150 micron stainless steel screen.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- Not suitable for use in load holding applications due to spool leakage.
- W and Y controls (where applicable) can be specified with or without a special setting. When no special setting is specified, the valve is adjustable throughout its full range using the W or Y control. When a special setting is specified, this setting represents the maximum setting of the valve.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external
 stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details,
 please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES



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