Pilot operated, balanced piston sequence valve

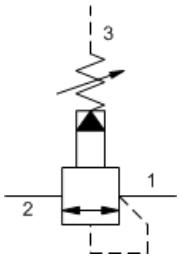
Capacity:
15 gpm (60 L/min.)

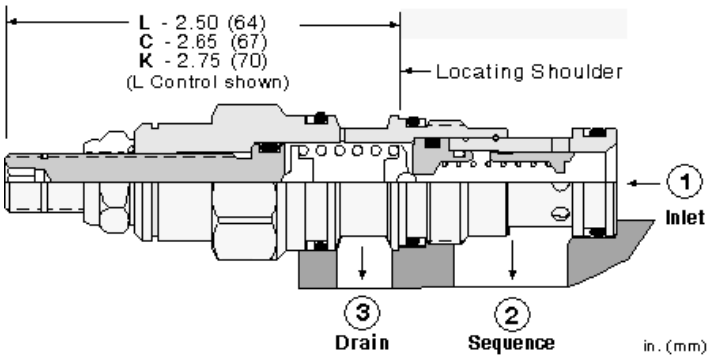
Functional Group:
Products : Cartridges : Sequence : 3 Port : Pilot Operated, Balanced Piston

Model:
RSDC

Product Description

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.





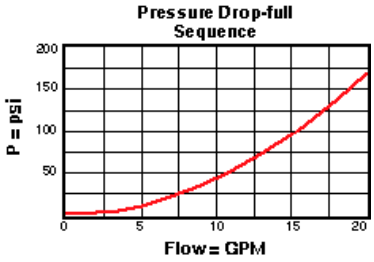
Technical Features

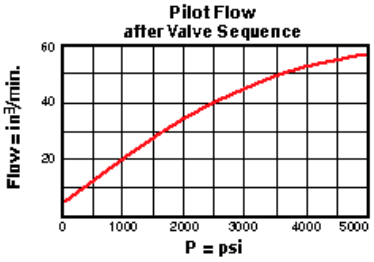
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- The main stage orifice is protected by a 150 micron stainless steel screen.
- Pilot flow continues to increase as the pressure at port 1 (inlet), relative to the pressure at port 3 (drain), rises above the valve setting.
- All 3 port sequence cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size).
- Not suitable for use in load holding applications due to spool leakage.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP (see Option Selection below). External parts are made from stainless steel with titanium or brass components, where applicable. Internal parts are made from carbon steel leaded alloy, the same as standard valves. For further details, please see the Materials of Construction page.
- 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.

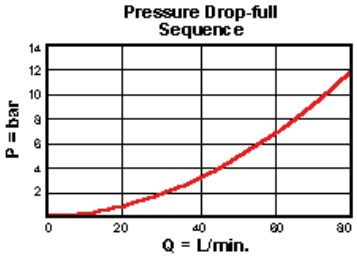
Technical Data

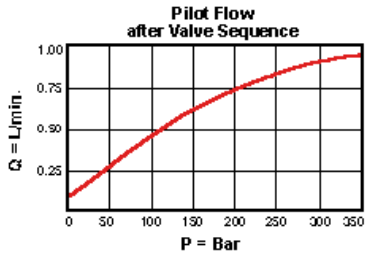
	U.S. Units	Metric Units
Cavity	T-11A	
Capacity	15 gpm	60 L/min.
Factory Pressure Settings Established at	4 gpm	15 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in^3/min.@1000 psi	30 cc/min.@70 bar
Response Time - Typical	10 ms	
Series (from Cavity)	Series 1	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Valve Hex Size	7/8 in.	22,2 mm

Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm
Seal Kits - Cartridge	Buna: 990-011-007	
Seal Kits - Cartridge	Viton: 990-011-006	
Model Weight	0.35 lb.	0.16 kg.









RSDC-LAN

Control

Preferred Options

L Standard Screw Adjustment

Standard Options

C* Tamper Resistant - Factory Set

F Hex Head Screw with Locknut

J Capped Screw Adjustment

K Handknob

O Handknob with Panel Mount

W* Max. Setting Limiter

Adjustment Range

Preferred Options

A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting

W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting

Standard Options

B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting

C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting

D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting

E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting

N 60 - 800 psi (4 - 55 bar), 400 psi (28 bar) Standard Setting

Q 60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting

Seal Material

Preferred Options

N Buna-N

Standard Options

V Viton

Material/Coating Modifier

Preferred Options

No modifier (standard material with no special coating)

Special Options

/AP Stainless Steel, Passivated

Control:C

Control:L

Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.

Additional Options (Click Here)

Control

M Capped Screw Adjustment with Lockwire Holes

Adjustment Range

G 60 - 3000 psi (4 - 210 bar), 1000 psi (70 bar) Standard Setting

Seal Material

Q*	Capped and Lockwired	
P	40 - 400 psi (2,8 - 28 bar), 200 psi (14 bar) Standard Setting	

When the modifier is /AP, the control must be C or L

* Special Setting required, specify at time of order
Customer specified setting stamped on hex .

Related Models
RSDC8

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