

Pressure Control, Sequence Cartridges

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RSBC	Pilot-operated, balanced piston sequence
RSDC	Pilot-operated, balanced piston sequence
RSFC	Pilot-operated, balanced piston sequence
RSHC	Pilot-operated, balanced piston sequence
RSJC	Pilot-operated, balanced piston sequence5 valve
RSDS	Pilot-operated, balanced poppet sequence
RSFS	Pilot-operated, balanced poppet sequence
RSHS	Pilot-operated, balanced poppet sequence
RSJS	Pilot-operated, balanced poppet sequence
SCCA	Direct-acting sequence valve with reverse flow
SCEA	Direct-acting sequence valve with reverse flow
SCGA	Direct-acting sequence valve with reverse flow
SCIA	Direct-acting sequence valve with reverse flow
SCEB	Atmospherically referenced, direct-acting sequence valve with reverse flow14 check
SXCB	Atmospherically referenced, direct-acting sequence valve without reverse flow
SXCA	Direct-acting sequence valve without reverse flow
SXEA	Direct-acting sequence valve without reverse flow
SQBB	Kick-down, pilot-operated, balanced piston sequence
SQDB	Kick-down, pilot-operated, balanced piston sequence
SQFB	Kick-down, pilot-operated, balanced piston sequence
SQHB	Kick-down, pilot-operated, balanced piston sequence
SQJB	Kick-down, pilot-operated, balanced piston sequence
RSFE	Air-controlled, pilot-operated, balanced piston sequence



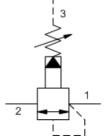
RSHE	Air-controlled, pilot-operated, balanced piston sequence
RSJE	Air-controlled, pilot-operated, balanced piston sequence
RSDC8	Pilot-operated, balanced piston sequence main stage with integral T-8A control
RSFC8	Pilot-operated, balanced piston sequence main stage with integral T-8A control
RSHC8	Pilot-operated, balanced piston sequence main stage with integral T-8A control
RSJC8	Pilot-operated, balanced piston sequence main stage with integral T-8A control
RSDS8	Pilot-operated, balanced poppet sequence main stage with integral T-8A control
RSFS8	Pilot-operated, balanced poppet sequence main stage with integral T-8A control
RSHS8	Pilot-operated, balanced poppet sequence main stage with integral T-8A control
RSJS8	Pilot-operated, balanced poppet sequence main stage with integral T-8A control
SDFT	Anti-Shock, pilot-operated, balanced poppet sequence valve with drain to port
SDHT	Anti-Shock, pilot-operated, balanced poppet sequence valve with drain to port
SDJT	Anti-Shock, pilot-operated, balanced poppet sequence valve with drain to port

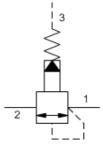


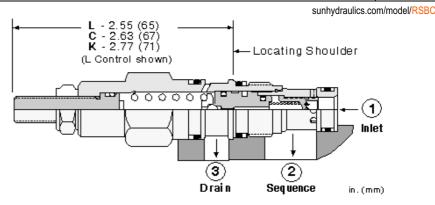
Cavity Information

Series	Ports	Cavities
Series Z Cartridges 3/8-24 UNF Cartridge Thread 5 mm Valve Hex Size 11 - 14 Nm Valve Installation Torque	3-Port	T-382A
Series P Cartridges M16 Cartridge Thread 22,2 mm Valve Hex Size 27 - 33 Nm Valve Installation Torque	2-Port 2-Port (Deep) 3-Port	T-8A T-8DP T-9A
Series 0 Cartridges M16 Cartridge Thread 19,1 mm Valve Hex Size 25,4 mm Valve Hex Size 27 - 33 Nm Valve Installation Torque	2-Port 2-Port (Deep) 3-Port 3-Port 4-Port	T-162A T-162DP T-150A T-163A T-30A
Series 1 Cartridges M20 Cartridge Thread 22,2 mm Valve Hex Size 41 - 47 Nm Valve Installation Torque	2-Port 2-Port 3-Port 4-Port 4-Port 6-Port	T-10A T-13A T-11A T-21A T-31A T-61A
Series 2 Cartridges 1"-14 UNS Cartridge Thread 28,6 mm Valve Hex Size 61 - 68 Nm Valve Installation Torque	2-Port 2-Port 3-Port 4-Port 4-Port 4-Port (Dual path) 6-Port 6-Port	T-3A T-5A T-2A T-22A T-32A T-52AD T-52A T-52A
Series 3 Cartridges M36 Cartridge Thread 31,8 mm Valve Hex Size 203 - 217 Nm Valve Installation Torque	2-Port 3-Port 4-Port 4-Port 4-Port (Dual path) 6-Port 6-Port	T-16A T-17A T-23A T-33A T-53AD T-53A T-63A
Series 4 Cartridges M48 Cartridge Thread 41,3 mm Valve Hex Size 474 - 508 Nm Valve Installation Torque	2-Port 2-Port (Undercut) 3-Port 3-Port (Undercut) 4-Port 4-Port (Undercut) 4-Port 4-Port (Dual path) 6-Port 6-Port	T-18A T-18AU T-19A T-19AU T-24A T-24AU T-34A T-54AD T-54A T-64A









TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min.		
Response Time - Typical	10 ms		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990163007		
Seal kit - Cartridge	Polyurethane: 990163002		
Seal kit - Cartridge	Viton: 990163006		

CONFIGURATION OPTIONS

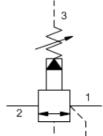
Model Code Example: RSBCLAN

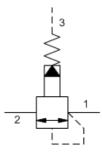
CONTROL (L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob 	 A 75 - 3000 psi (5 - 210 bar), 1000 psi (70 bar) Standard Setting W 75 - 4500 psi (5 - 315 bar), 1000 psi (70 bar) Standard Setting B 75 - 1500 psi (5 - 105 bar), 1000 psi (70 bar) Standard Setting C 75 - 6000 psi (5 - 420 bar), 1000 psi (70 bar) Standard Setting 	E EPDM	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

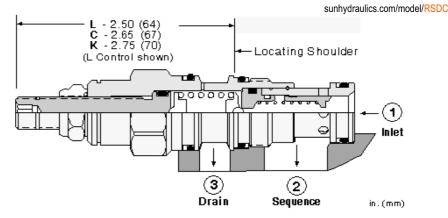
N 75 - 800 psi (5 - 55 bar), 400 psi (28 bar) Standard Setting
 Q 75 - 400 psi (5 - 28 bar), 200 psi (14

bar) Standard Setting









TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Control Pilot Flow	0,11 - 0,16 L/min.
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min.@70 bar
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	EPDM: 990011014
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

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.

CONFIGURATION OPTIONS

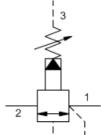
Model Code Example: RSDCLAN

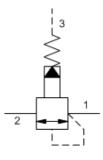
CONTROL	(L)	ADJUSTMENT RANGE (A)) SEAL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set J Capped Screw Adjustment K Handknob O Handknob with Panel Mount W Hex Wrench Adjustment Y Tri-Grip Handknob 		 A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting 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 	N Buna-N E EPDM V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel
		har) Standard Setting 200 poi (14			

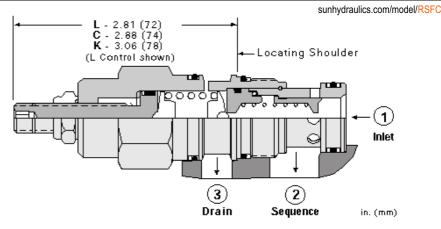
Q 60⁻² 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting

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TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Control Pilot Flow	0,16 - 0,25 L/min.
Maximum Valve Leakage at 110 SUS (24 cSt)	50 cc/min.@70 bar
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990202007
Seal kit - Cartridge	EPDM: 990202014
Seal kit - Cartridge	Polyurethane: 990002002
Seal kit - Cartridge	Viton: 990202006

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.

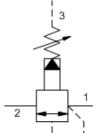
CONFIGURATION OPTIONS

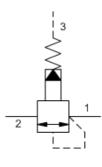
Model Code Example: RSFCLAN

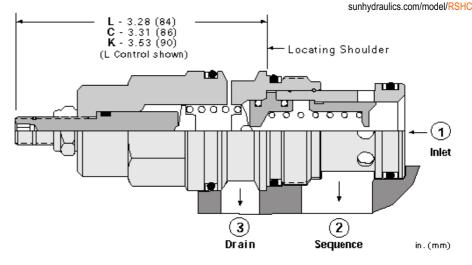
CONTROL	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set J Capped Screw Adjustment K Handknob O Handknob with Panel Mount W Hex Wrench Adjustment Y Tri-Grip Handknob 		 A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting 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 	N Buna-N E EPDM V Viton	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

bar) Standard Setting









TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Control Pilot Flow	0,25 - 0,33 L/min.
Maximum Valve Leakage at 110 SUS (24 cSt)	65 cc/min.@70 bar
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006

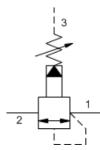
CONFIGURATION OPTIONS

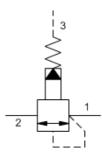
Model Code Example: RSHCLAN

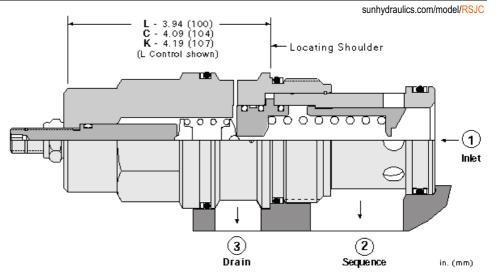
CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob Y Tri-Grip Handknob 		 A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting 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 (20 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 	si 8	N Buna-N E EPDM V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

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TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.		
Maximum Operating Pressure	350 bar		
Control Pilot Flow	0,25 - 0,33 L/min.		
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min.@70 bar		
Response Time - Typical	10 ms		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990019007		
Seal kit - Cartridge	Polyurethane: 990019002		
Seal kit - Cartridge	Viton: 990019006		

CONFIGURATION OPTIONS

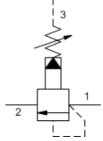
Model Code Example: RSJCLAN

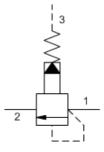
CONTROL	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob Y Tri-Grip Handknob 		 A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting B 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 E 25 - 400 psi (17 - 28 bar) 200 psi (14 	N Buna-N V Viton	Standard Material/Coating /LH Mild Steel, Zinc-Nickel

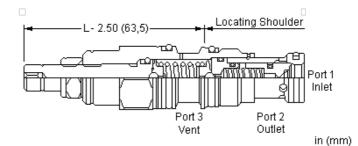
E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting



sunhydraulics.com/model/RSDS







Pilot-operated, balanced poppet 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.

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

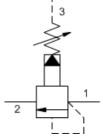
CONFIGURATION OPTIONS

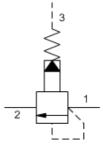
Model Code Example: RSDSLAN

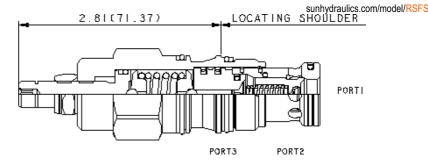
CONTROL (L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob 	 A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting 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 	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

W 100 - 4500 psi (7 - 315 bar), 1000 psi (70 bar) Standard Setting









TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990402007
Seal kit - Cartridge	Polyurethane: 990002002
Seal kit - Cartridge	Viton: 990402006

CONFIGURATION OPTIONS

Model Code Example: RSFSLAN

CONTROL	(L) ADJUSTMENT RANGE
L Standard Screw Adjustment	A 100 - 3000 psi (7 - 210 bar), 1
O TANK DALLER LA OUL	(70 har) Standard Sotting

- C Tamper Resistant Factory Set K Handknob
- A 100 3000 psi (7 210 bar), 1000 psi (70 bar) Standard Setting
 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 **N** 60 - 800 psi (4 - 55 bar), 200 psi (14 bar) Standard Setting
- **Q** 60 400 psi (4 28 bar), 200 psi (14 bar) Standard Setting

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

(A) SEAL MATERIAL

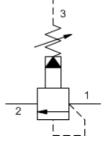
N Buna-N

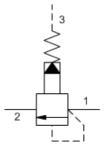
V Viton

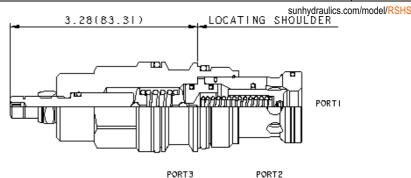
(N) MATERIAL/COATING

Standard Material/Coating /AP Stainless Steel, Passivated









TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990217007
Seal kit - Cartridge	Polyurethane: 990217002
Seal kit - Cartridge	Viton: 990217006

CONFIGURATION OPTIONS

L Standard Screw Adjustment

Model Code Example: RSHSLAN

CONTROL

(L) ADJUS	TMENT RANGE
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- A 100 3000 psi (7 210 bar), 1000 psi (70 bar) Standard Setting
- **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
- 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
- W 150 4500 psi (10,5 315 bar), 1000 psi (70 bar) Standard Setting

(A) SEAL MATERIAL si N Buna-N

V Viton

(N)

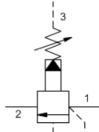
(N) MATERIAL/COATING

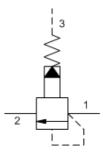
Standard Material/Coating /AP Stainless Steel, Passivated

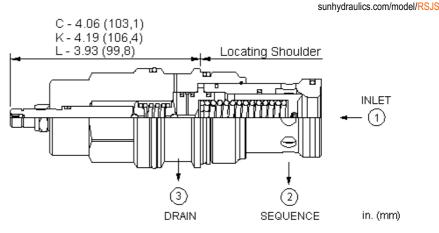
C Tamper Resistant - Factory SetK Handknob











TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Control Pilot Flow	0,25 - 0,33 L/min.
Maximum Valve Leakage at Reseat	0,7 cc/min.
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990219007
Seal kit - Cartridge	Viton: 990219006

CONFIGURATION OPTIONS

CONTROL

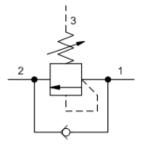
L Standard Screw Adju C Tamper Resistant - F K Handknob

Model Code Example: RSJSLAN

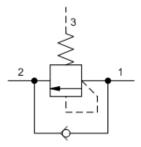
	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)	MATERIAL/COATING
ustment		A 100 - 3000 psi (7 - 210 bar), 1000 psi	N Buna-N		Standard Material/Coating
Factory Set		(70 bar) Standard Setting	V Viton		/AP Stainless Steel, Passivated
		B 50 - 1500 psi (3,5 - 105 bar), 1000 psi			/LH Mild Steel, Zinc-Nickel
		(70 har) Standard Setting			,

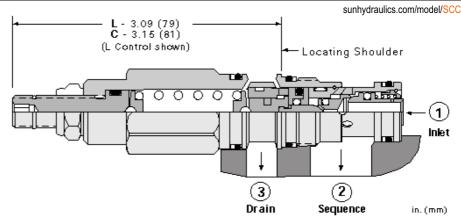
- (10 bar) Standard Setting
- C 150 6000 psi (10,5 420 bar), 1000 psi (70 bar) Standard Setting
- N 60 800 psi (4 55 bar), 400 psi (28 bar) Standard Setting
- **Q** 60 400 psi (4 28 bar), 200 psi (14 bar) Standard Setting
- W 150 4500 psi (10,5 315 bar), 1000 psi (70 bar) Standard Setting





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Direct-acting sequence valves with reverse-flow check will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. Additionally, these valves incorporate an integral check valve to provide reverse flow from port 2 (sequence) to port 1 (inlet). The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3).

TECHNICAL DATA

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

Factory Pressure Settings Established at	30 cc/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Check Cracking Pressure	2,8 bar
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	EPDM: 990011014
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

CONFIGURATION OPTIONS

Model Code Example: SCCALAN

(A) SEAL MATERIAL

N Buna-N

E EPDM

V Viton

CONTROL

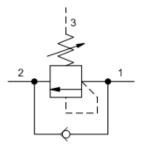
- L Standard Screw AdjustmentC Tamper Resistant Factory Set
- (L)
 ADJUSTMENT RANGE
 (A

 A
 500 3000 psi (35 210 bar), 1000 psi
 (A)
 - (70 bar) Standard Setting W 800 - 4500 psi (55 - 315 bar), 1000 psi
 - (70 bar) Standard Setting B 300 - 1500 psi (20 - 105 bar), 1000 psi
 - (70 bar) Standard Setting C 2000 - 6000 psi (140 - 420 bar), 2000
 - psi (140 bar) Standard Setting
 - D 200 800 psi (14 55 bar), 400 psi (28 bar) Standard Setting
 - E 100 400 psi (7 28 bar), 200 psi (14 bar) Standard Setting

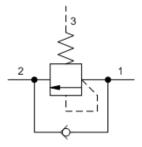
(N) MATERIAL/COATING

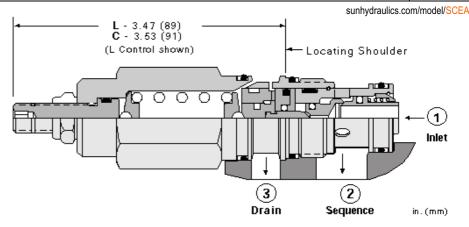
Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel





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Direct-acting sequence valves with reverse-flow check will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. Additionally, these valves incorporate an integral check valve to provide reverse flow from port 2 (sequence) to port 1 (inlet). The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3).

TECHNICAL DATA

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

Factory Pressure Settings Established at	30 cc/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Check Cracking Pressure	1,7 bar
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990202007
Seal kit - Cartridge	Polyurethane: 990002002
Seal kit - Cartridge	Viton: 990202006

CONFIGURATION OPTIONS

Model Code Example: SCEALAN

	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING	
Adjustment		A 500 - 3000 psi (35 - 210 bar), 1000 p	osi	N Buna-N		Standard Material/Coating	
nt - Factory Set		(70 bar) Standard Setting		V Viton		/AP Stainless Steel, Passivated	
		W 800 - 4500 psi (55 - 315 bar), 1000 p	osi			/LH Mild Steel, Zinc-Nickel	
		(70 bar) Standard Setting					
		B 300 - 1500 psi (20 - 105 bar) 1000 r	isi				

L Standard Screw AdjustmentC Tamper Resistant - Factory Set

CONTROL

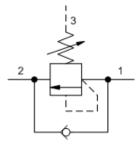
B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting

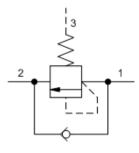
C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting

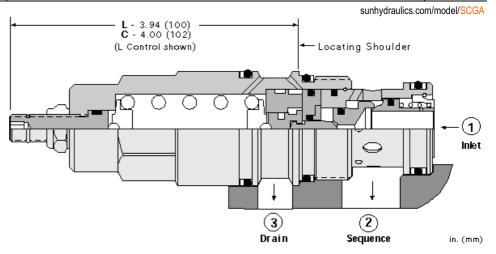
- D 200 800 psi (14 55 bar), 400 psi (28 bar) Standard Setting
- E 100 400 psi (7 28 bar), 200 psi (14 bar) Standard Setting

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Direct-acting sequence valves with reverse-flow check will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. Additionally, these valves incorporate an integral check valve to provide reverse flow from port 2 (sequence) to port 1 (inlet). The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3).

TECHNICAL DATA

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

Factory Pressure Settings Established at	30 cc/min.		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at Reseat	0,7 cc/min.		
Check Cracking Pressure	1,7 bar		
Response Time - Typical	2 ms		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990017007		
Seal kit - Cartridge	Polyurethane: 990017002		
Seal kit - Cartridge	Viton: 990017006		

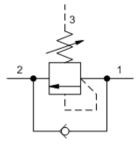
CONFIGURATION OPTIONS

Model Code Example: SCGALAN

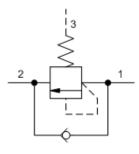
CONTROL	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)	MATERIAL/COATING
L Standard Screw Adjustment C Tamper Resistant - Factory Set		 A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting W 800 - 4500 psi (55 - 315 bar), 1000 psi (70 bar) Standard Setting 	N Buna-N V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel
		B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting			
		C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting			
		D 200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting			

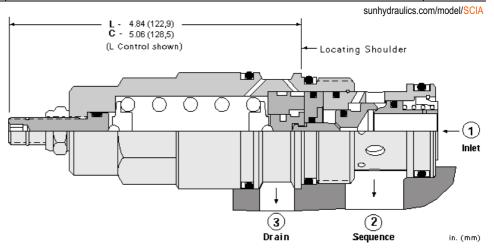
bar) Standard Setting E 100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting





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Direct-acting sequence valves with reverse-flow check will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. Additionally, these valves incorporate an integral check valve to provide reverse flow from port 2 (sequence) to port 1 (inlet). The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3).

TECHNICAL DATA

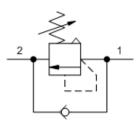
NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Factory Pressure Settings Established at	30 cc/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Check Cracking Pressure	1,7 bar
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990019007
Seal kit - Cartridge	EPDM: 990019014
Seal kit - Cartridge	Polyurethane: 990019002
Seal kit - Cartridge	Viton: 990019006

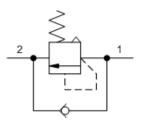
CONFIGURATION OPTIONS

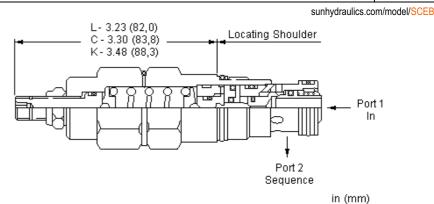
Model Code Example: SCIALAN

CONTROL	(L)	ADJUSTMENT RANGE (A)	SE	EAL MATERIAL	(N)	MATERIAL/COATING
L Standard Screw Adjustment C Tamper Resistant - Factory Set		 A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting W 800 - 4500 psi (55 - 315 bar), 1000 psi (70 bar) Standard Setting B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting D 200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting E 100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting 	E	I Buna-N E EPDM Viton		Standard Material/Coating /AP Stainless Steel, Passivated



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Atmospherically referenced, direct-acting sequence valves with reverse-flow check will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. Additionally, these valves incorporate an integral check valve to provide reverse flow from port 2 (sequence) to port 1 (inlet). The pressure setting of this sequence valve controls the pressure at port 1 relative to the atmospheric vent.

TECHNICAL DATA

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

Factory Pressure Settings Established at	30 cc/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Check Cracking Pressure	1,7 bar
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990203007
Seal kit - Cartridge	Viton: 990203006

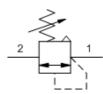
CONFIGURATION OPTIONS

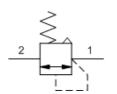
Model Code Example: SCEBLAN

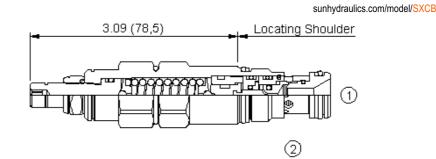
CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)
L Standard Screw Adjustment C Tamper Resistant - Factory Set		 A 500 - 3000 psi (35 - 210 bar), 1000 p (70 bar) Standard Setting B 300 - 1500 psi (20 - 105 bar), 1000 p (70 bar) Standard Setting C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting D 200 - 800 psi (14 - 55 bar), 400 psi (2 bar) Standard Setting E 100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting W 800 - 4500 psi (55 - 315 bar), 1000 p (70 bar) Standard Setting 	si) 28	N Buna-N V Viton	

Atmospherically referenced, direct-acting sequence valve without reverse flow check SERIES 1 / CAPACITY: 60 L/min. / CAVITY: T-13A









Atmospherically referenced, direct-acting 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 this sequence valve controls the pressure at port 1 relative to the atmospheric vent.

TECHNICAL DATA

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

Factory Pressure Settings Established at	30 cc/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	4
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	EPDM: 990010014
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006

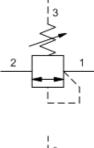
CONFIGURATION OPTIONS

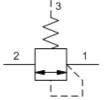
Model Code Example: SXCBLAN

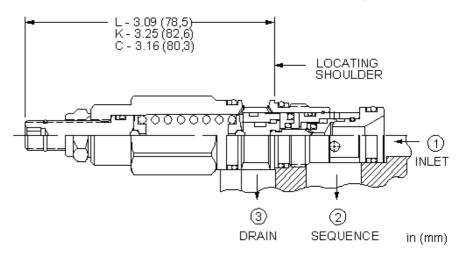
CONTROL (L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N)	MATERIAL/COATING
L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob	 A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting D 200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting E 100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting W 800 - 4500 psi (55 - 315 bar), 1000 psi (70 bar) Standard Setting 	N Buna-N E EPDM V Viton	Standard Material/Coating /AP Stainless Steel, Passivated



sunhydraulics.com/model/SXCA







Direct-acting 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).

TECHNICAL DATA

(70 bar) Standard Setting

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

Factory Pressure Settings Established at	30 cc/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at Reseat	0,7 cc/min.
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	4
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

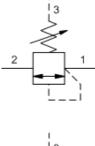
CONFIGURATION OPTIONS

Model Code Example: SXCALAN

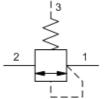
CONTROL	(L)	ADJUSTMENT RANGE (A)	()	SEAL MATERIAL	(N)	MATERIAL/COATING
L Standard Screw Adjustment C Tamper Resistant - Factory Set		 A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting D 200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting E 100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting W 800 - 4500 psi (55 - 315 bar), 1000 psi 		N Buna-N V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

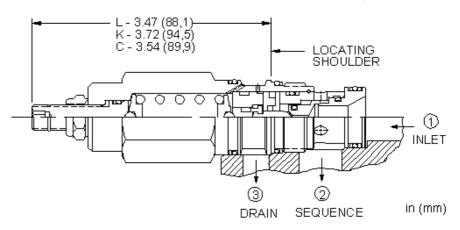






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Direct-acting sequence valves will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3).

TECHNICAL DATA

bar) Standard Setting

W 800 - 4500 psi (55 - 315 bar), 1000 psi (70 bar) Standard Setting

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

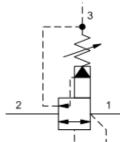
Factory Pressure Settings Established at	30 cc/min.	
Maximum Operating Pressure	350 bar	
Maximum Valve Leakage at Reseat	0,7 cc/min.	
Response Time - Typical	2 ms	
Adjustment - No. of CW Turns from Min. to Max. setting	4	
Locknut Hex Size	15 mm	
Locknut Torque	9 - 10 Nm	
Seal kit - Cartridge	Buna: 990202007	
kit - Cartridge Polyurethane: 990002002		
Seal kit - Cartridge	Viton: 990202006	

CONFIGURATION OPTIONS

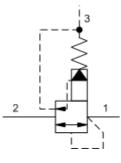
Model Code Example: SXEALAN

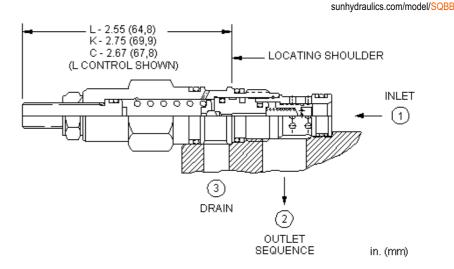
CONTROL	(L) ADJUSTMENT RANGE (A) <u>SEAL MATERIAL (N)</u>	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set 	 A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting D 200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting E 100 - 400 psi (7 - 28 bar), 200 psi (14 	V Viton	Standard Material/Coating /AP Stainless Steel, Passivated





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Kick-down sequence valves will kick completely open and remain open once the pressure at the inlet (port 1) exceeds the valve setting, creating an unrestricted flow path from port 1 to port 2 (sequence). The pressure setting at port 1 is relative to the drain (port 3). The valve remains open as long as the pressure at port 1 exceeds the pressure at port 2. To reset the valve, pressure at port 1 must fall below the setting of the valve, flow from port 1 to port 2 must cease, and pressure at port 2 must be equal to or greater than the pressure at port 1.

TECHNICAL DATA

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

Factory Pressure Settings Established at	Kick down point
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min.
Response Time - Typical	25 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990163007
Seal kit - Cartridge	Polyurethane: 990163002
Seal kit - Cartridge	Viton: 990163006

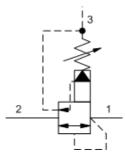
CONFIGURATION OPTIONS

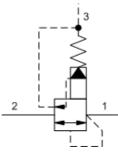
Model Code Example: SQBBLAN

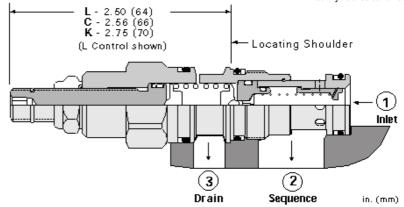
CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)
L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob		 ADJUSTIMENT KANGE A 75 - 3000 psi (5 - 210 bar), 1000 psi bar) Standard Setting B 75 - 1500 psi (5 - 105 bar), 1000 psi bar) Standard Setting C 75 - 6000 psi (5 - 420 bar), 1000 psi bar) Standard Setting N 75 - 800 psi (5 - 55 bar), 400 psi (28 bar) Standard Setting Q 75 - 400 psi (5 - 28 bar), 200 psi (14 bar) Standard Setting W 75 - 4500 psi (5 - 315 bar), 1000 psi 	(70 (70 (70	N Buna-N V Viton	<u>(N)</u>
		bar) Standard Setting			











Kick-down sequence valves will kick completely open and remain open once the pressure at the inlet (port 1) exceeds the valve setting, creating an unrestricted flow path from port 1 to port 2 (sequence). The pressure setting at port 1 is relative to the drain (port 3). The valve remains open as long as the pressure at port 1 exceeds the pressure at port 2. To reset the valve, pressure at port 1 must fall below the setting of the valve, flow from port 1 to port 2 must cease, and pressure at port 2 must be equal to or greater than the pressure at port 1.

TECHNICAL DATA

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

Factory Pressure Settings Established at	Kick down point
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min.
Response Time - Typical	25 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

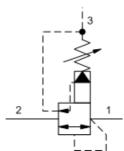
NOTES For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

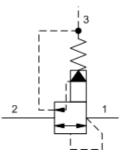
CONFIGURATION OPTIONS

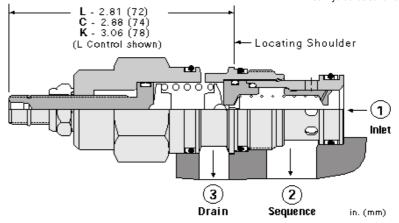
Model Code Example: SQDBLAN

CONTROL	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob O Handknob with Panel Mount 		 A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting 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 W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting 	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated









Kick-down sequence valves will kick completely open and remain open once the pressure at the inlet (port 1) exceeds the valve setting, creating an unrestricted flow path from port 1 to port 2 (sequence). The pressure setting at port 1 is relative to the drain (port 3). The valve remains open as long as the pressure at port 1 exceeds the pressure at port 2. To reset the valve, pressure at port 1 must fall below the setting of the valve, flow from port 1 to port 2 must cease, and pressure at port 2 must be equal to or greater than the pressure at port 1.

TECHNICAL DATA

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

Factory Pressure Settings Established at	Kick down point
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	50 cc/min.
Response Time - Typical	25 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990202007
Seal kit - Cartridge	Polyurethane: 990002002
Seal kit - Cartridge	Viton: 990202006

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.

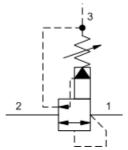
CONFIGURATION OPTIONS

Model Code Example: SQFBLAN

CONTROL (L) ADJUSTMENT RANGE (A) SEAL MATERIAL (N) MATERIAL/COATING L Standard Screw Adjustment 100 - 3000 psi (7 - 210 bar), 1000 psi N Buna-N Standard Material/Coating (70 bar) Standard Setting C Tamper Resistant - Factory Set V Viton **AP** Stainless Steel. Passivated B 50 - 1500 psi (3,5 - 105 bar), 1000 psi K Handknob (70 bar) Standard Setting O Handknob with Panel Mount 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 W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting



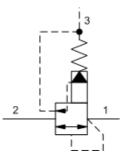
sunhydraulics.com/model/SQHB

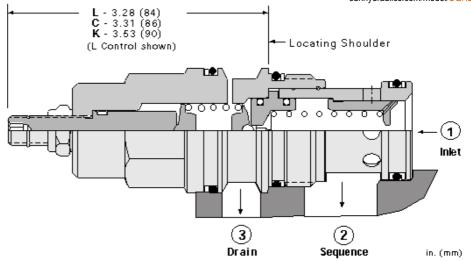


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MODEL

SQHB





Kick-down sequence valves will kick completely open and remain open once the pressure at the inlet (port 1) exceeds the valve setting, creating an unrestricted flow path from port 1 to port 2 (sequence). The pressure setting at port 1 is relative to the drain (port 3). The valve remains open as long as the pressure at port 1 exceeds the pressure at port 2. To reset the valve, pressure at port 1 must fall below the setting of the valve, flow from port 1 to port 2 must cease, and pressure at port 2 must be equal to or greater than the pressure at port 1.

TECHNICAL DATA

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

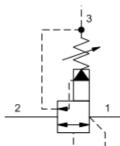
Factory Pressure Settings Established at	Kick down point
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	65 cc/min.
Response Time - Typical	25 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006

CONFIGURATION OPTIONS

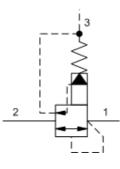
Model Code Example: SQHBLAN

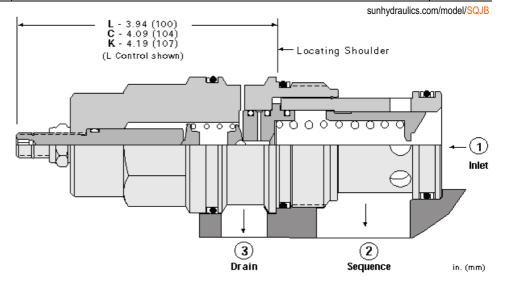
CONTROL	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)
L Standard Screw Adjustment		A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	N Buna-N	
C Tamper Resistant - Factory Set K Handknob		B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting	V Viton	
		C 150 - 6000 psi (10,5 - 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		
		W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting		





<mark>sun</mark> hydraulics[®]





Kick-down sequence valves will kick completely open and remain open once the pressure at the inlet (port 1) exceeds the valve setting, creating an unrestricted flow path from port 1 to port 2 (sequence). The pressure setting at port 1 is relative to the drain (port 3). The valve remains open as long as the pressure at port 1 exceeds the pressure at port 2. To reset the valve, pressure at port 1 must fall below the setting of the valve, flow from port 1 to port 2 must cease, and pressure at port 2 must be equal to or greater than the pressure at port 1.

TECHNICAL DATA

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

Factory Pressure Settings Established at	Kick down point
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min.
Response Time - Typical	25 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990019007
Seal kit - Cartridge	Polyurethane: 990019002
Seal kit - Cartridge	Viton: 990019006

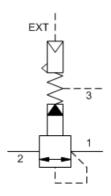
CONFIGURATION OPTIONS

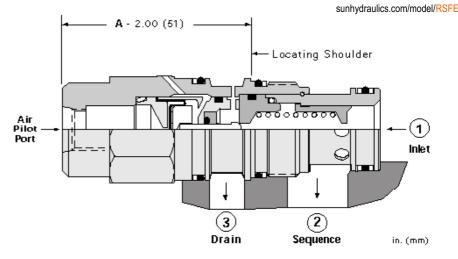
Model Code Example: SQJBLAN

CONTROL	(L) ADJ	USTMENT RANGE	(A)	SEAL MATERIAL	(N)
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob 	B to the second	100 - 3000 psi (7 - 210 bar), 100 (70 bar) Standard Setting 50 - 1500 psi (3,5 - 105 bar), 10 (70 bar) Standard Setting 150 - 6000 psi (10,5 - 420 bar), psi (70 bar) Standard Setting 25 - 800 psi (1,7 - 55 bar), 400 p bar) Standard Setting 25 - 400 psi (1,7 - 28 bar), 200 p bar) Standard Setting 150 - 4500 psi (10,5 - 315 bar), psi (70 bar) Standard Setting	00 psi 1000 osi (28 osi (14	N Buna-N V Viton	

MODEL RSFE







Air-controlled, pilot-operated, balanced piston sequence valves use compressed air over a diaphragm instead of an adjustable spring to control the pressure setting of the valve. The air signal is supplied through a port in the hexend of the cartridge. They 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.

Pilot Ratio	20:1
Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	140 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	50 cc/min.
Maximum Air Pressure	10,5 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990202007
Seal kit - Cartridge	Polyurethane: 990002002
Seal kit - Cartridge	Viton: 990202006

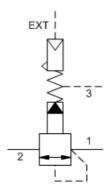
CONFIGURATION OPTIONS

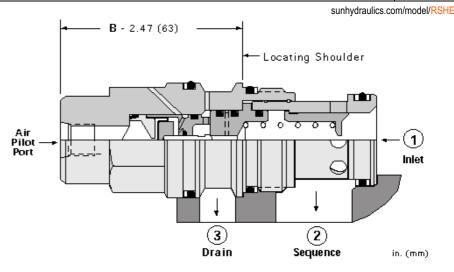
Model Code Example: RSFEABN

CONTROL	(A)	ADJUSTMENT RANGE	(B)	SEAL MATERIAL	(N)
A External 1/4 NPTF Port		B 50 - 1500 psi (3,5 - 105 bar)		N Buna-N	
				V Viton	

MODEL RSHE







Air-controlled, pilot-operated, balanced piston sequence valves use compressed air over a diaphragm instead of an adjustable spring to control the pressure setting of the valve. The air signal is supplied through a port in the hexend of the cartridge. They 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.

Pilot Ratio	20:1
Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	140 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	65 cc/min.
Maximum Air Pressure	10,5 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006

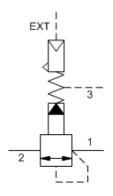
CONFIGURATION OPTIONS

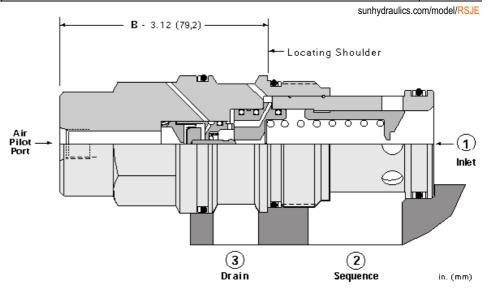
Model Code Example: RSHEBBN

CONTROL	(B)	ADJUSTMENT RANGE (B	<u>s)</u>	SEAL MATERIAL	(N)
B External 4-SAE Port		B 50 - 1500 psi (3,5 - 105 bar)		N Buna-N	
				V Viton	

MODEL RSJE







Air-controlled, pilot-operated, balanced piston sequence valves use compressed air over a diaphragm instead of an adjustable spring to control the pressure setting of the valve. The air signal is supplied through a port in the hexend of the cartridge. They 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.

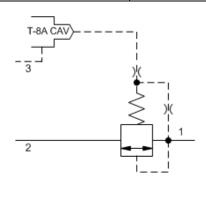
Pilot Ratio	20:1
Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	140 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min.
Maximum Air Pressure	10,5 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990019007
Seal kit - Cartridge	Polyurethane: 990019002
Seal kit - Cartridge	Viton: 990019006

CONFIGURATION OPTIONS

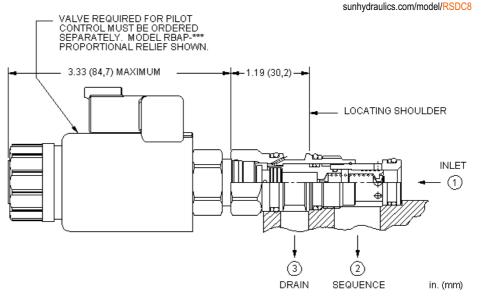
Model Code Example: RSJEBBN

CONTROL	(B)	ADJUSTMENT RANGE	(B)	SEAL MATERIAL	(N)
B External 4-SAE Port		B 50 - 1500 psi (3,5 - 105 bar)		N Buna-N	
				V Viton	

Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity
SERIES 1 / CAPACITY: 60 L/min. / CAVITY: T-11A



<mark>un</mark> hydraulics



This valve is a normally closed modulating element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced piston design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the modulating element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar
Control Pilot Flow	0,11 - 0,16 L/min.
Pilot Control Cavity	T-8A
Main stage leakage at 110 SUS (24 cSt)	30 cc/min.@70 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	EPDM: 990011014
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

NOTES Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.

CONFIGURATION OPTIONS

Model Code Example: RSDC8WN

MINIMUM CONTROL PRESSURE	(W) SEAL MATERIAL	(N)
W 100 psi (7 bar)	N Buna-N	
D 25 psi (1,7 bar)	E EPDM	

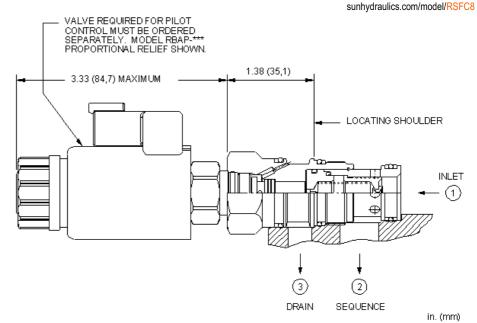
V Viton



T-8A CAV

un hydraulics

2



This valve is a normally closed modulating element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced piston design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the modulating element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar
Control Pilot Flow	0,16 - 0,25 L/min.
Pilot Control Cavity	T-8A
Main stage leakage at 110 SUS (24 cSt)	50 cc/min.@70 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990202007
Seal kit - Cartridge	Polyurethane: 990002002
Seal kit - Cartridge	Viton: 990202006

NOTES Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.

CONFIGURATION OPTIONS

Model Code Example: RSFC8WN

(N)

MINIMUM CONTROL PRESSURE (W) SEAL MATERIAL

W 100 psi (7 bar)

D 25 psi (1,7 bar)

N Buna-N V Viton

(3) (2) SEQUENCE DRAIN in. (mm)

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LOCATING SHOULDER

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This valve is a normally closed modulating element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced piston design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the modulating element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

C

E

TECHNICAL DATA

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

Maximum Operating Pressure	350 bar
Control Pilot Flow	0,25 - 0,33 L/min.
Pilot Control Cavity	T-8A
Main stage leakage at 110 SUS (24 cSt)	65 cc/min.@70 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006

Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at NOTES point of use.

CONFIGURATION OPTIONS

Model Code Example: RSHC8WN

MINIMUM CONTROL PRESSURE	(W)	SEAL MATERIAL	(N)
W 100 psi (7 bar)		N Buna-N	

2

V Viton

INLET

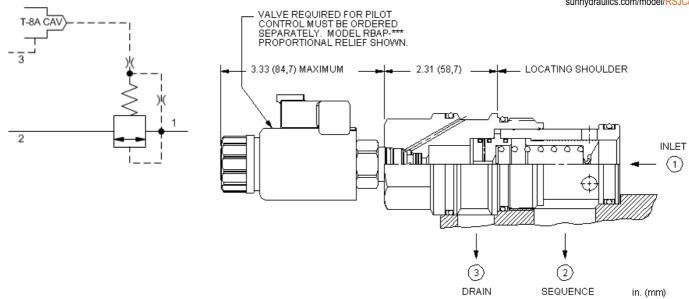
(1)



Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity SERIES 4 / CAPACITY: 480 L/min. / CAVITY: T-19A



sunhydraulics.com/model/RSJC8



This valve is a normally closed modulating element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced piston design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the modulating element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar
Control Pilot Flow	0,25 - 0,33 L/min.
Pilot Control Cavity	T-8A
Main stage leakage at 110 SUS (24 cSt)	80 cc/min.@70 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990019007
Seal kit - Cartridge	Polyurethane: 990019002
Seal kit - Cartridge	Viton: 990019006

Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at NOTES point of use.

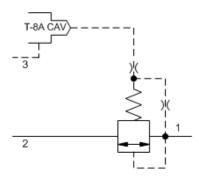
CONFIGURATION OPTIONS

Model Code Example: RSJC8WN

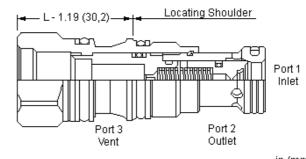
MINIMUM CONTROL PRESSURE	(W) SEAL MATERIAL	(N)
W 100 psi (7 bar)	N Buna-N	
D 25 psi (1,7 bar)	V Viton	

MODEL RSDS8 Pilot-operated, balanced poppet sequence main stage with integral T-8A control cavity
SERIES 1 / CAPACITY: 60 L/min. / CAVITY: T-11A

sunhydraulics.com/model/RSDS8



un hydraulics



in (mm)

This valve is a normally closed poppet element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced poppet design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the poppet element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar
Control Pilot Flow	0,11 - 0,16 L/min.
Pilot Control Cavity	Т-8А
Pilot Control Valve Installation Torque	27 - 33 Nm
Pilot Control Valve Hex Size	22,2 mm
Main stage leakage at reseat	0,7 cc/min.
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

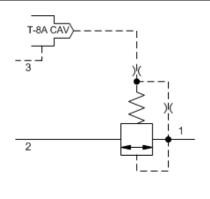
NOTES Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.

CONFIGURATION OPTIONS

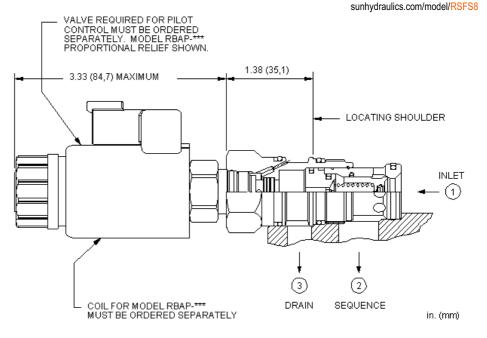
Model Code Example: RSDS8WN

BIAS PRESSURE (W)	SEAL MATERIAL	(N)
W 100 psi (7 bar)	N Buna-N	
D 50 psi (3,5 bar)	V Viton	

Pilot-operated, balanced poppet sequence main stage with integral T-8A control cavity SERIES 2 / CAPACITY: 120 L/min. / CAVITY: T-2A



un hydraulics



This valve is a normally closed poppet element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced poppet design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the poppet element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar	
Control Pilot Flow	0,16 - 0,25 L/min.	
Pilot Control Cavity	Т-8А	
Pilot Control Valve Installation Torque	27 - 33 Nm	
Pilot Control Valve Hex Size	22,2 mm	
Main stage leakage at reseat	0,7 cc/min.	
Response Time - Typical	10 ms	
Seal kit - Cartridge	Buna: 990402007	
Seal kit - Cartridge	Polyurethane: 990002002	
Seal kit - Cartridge	Viton: 990402006	

Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at NOTES point of use.

CONFIGURATION OPTIONS

Model Code Example: RSFS8WN

MINIMUM CONTROL PRESSURE	(W)	SEAL MATERIAL
W 100 psi (7 bar)		N Buna-N

B 50 psi (3,5 bar)

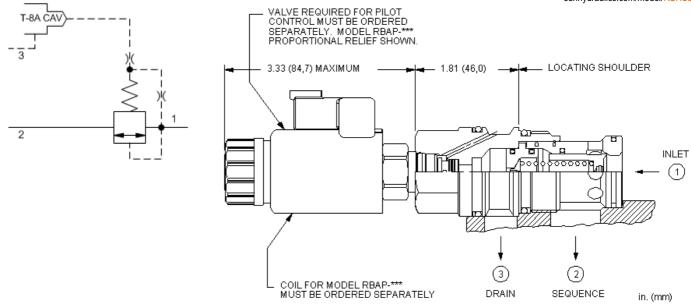
V Viton

Pilot-operated, balanced poppet sequence main stage with integral T-8A control cavity

SERIES 3 / CAPACITY: 240 L/min. / CAVITY: T-17A



sunhydraulics.com/model/RSHS8



This valve is a normally closed poppet element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced poppet design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the poppet element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar
Control Pilot Flow	0,25 - 0,33 L/min.
Pilot Control Cavity	T-8A
Pilot Control Valve Installation Torque	27 - 33 Nm
Pilot Control Valve Hex Size	22,2 mm
Main stage leakage at reseat	0,7 cc/min.
Response Time - Typical	2 ms
Seal kit - Cartridge	Buna: 990217007
Seal kit - Cartridge	Polyurethane: 990217002
Seal kit - Cartridge	Viton: 990217006

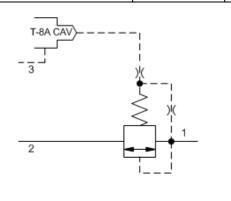
NOTES Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.

CONFIGURATION OPTIONS

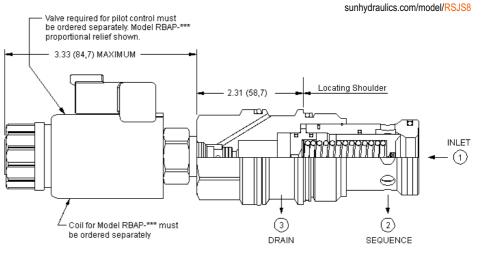
Model Code Example: RSHS8WN

MINIMUM CONTROL PRESSURE	(W)	SEAL MATERIAL	(N)
W 100 psi (7 bar)		N Buna-N	
B 50 psi (3,5 bar)		V Viton	

Pilot-operated, balanced poppet sequence main stage with integral T-8A control cavity
SERIES 4 / CAPACITY: 480 L/min. / CAVITY: T-19A



un hydraulics



This valve is a normally closed poppet element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced poppet design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the poppet element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, 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.

Maximum Operating Pressure	350 bar		
Control Pilot Flow	0,25 - 0,33 L/min.		
Pilot Control Cavity	T-8A		
Pilot Control Valve Installation Torque	27 - 33 Nm		
Pilot Control Valve Hex Size	22,2 mm		
Main stage leakage at reseat	0,7 cc/min.		
Response Time - Typical	2 ms		
Seal kit - Cartridge	Buna: 990219007		
Seal kit - Cartridge	Viton: 990219006		

NOTES Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.

CONFIGURATION OPTIONS

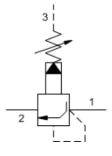
Model Code Example: RSJS8WN

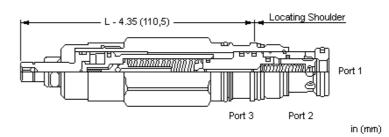
MINIMUM CONTROL PRESSURE (W)	SEAL MATERIAL (N)
W 100 psi (7 bar)	N Buna-N
B 50 psi (3,5 bar)	V Viton

Anti-Shock, pilot-operated, balanced poppet sequence valve with drain to port 3 SERIES 2 / CAPACITY: 120 L/min. / CAVITY: T-2A



sunhydraulics.com/model/SDFT





Pilot-operated, anti shock sequence cartridges limit maximum system pressure and also limit the rate of pressure rise. The valve opens and then ramps closed at a constant speed, independent of settings and flows. The adjust screw determines the maximum (relief) setting and the minimum (threshold) setting.

The external drain makes the valve insensitive to pressure at port 2.

TECHNICAL DATA

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

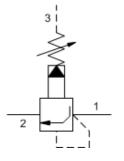
Factory Pressure Settings Established at	15 L/min.		
Maximum Operating Pressure	350 bar		
Control Pilot Flow	0,16 - 0,41 L/min.		
Pressure Ramp Up Time	200 - 400 ms		
Response Time - Typical	2 ms		
Adjustment - No. of CW Turns from Min. to Max. setting	4.5		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990402007		
Seal kit - Cartridge	Polyurethane: 990002002		
Seal kit - Cartridge	Viton: 990402006		

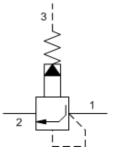
CONFIGURATION OPTIONS

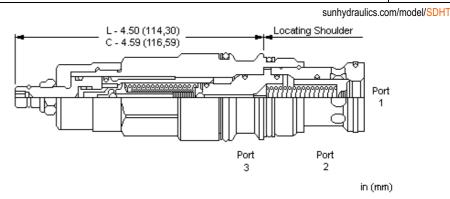
Model Code Example: SDFTLAN

CONTROL	(L)	ADJUSTMENT RANGE	A)	SEAL MATERIAL	(N)
L Standard Screw Adjustment		 A 2000 - 3000 psi (140 - 210 bar), 2000 psi (140 bar) Standard Setting C 4500 - 6000 psi (315 - 420 bar), 4500 psi (315 bar) Standard Setting W 3000 - 4500 psi (210 - 315 bar), 3000 		N Buna-N V Viton	
		psi (210 bar) Standard Setting			









Pilot-operated, anti shock relief cartridges limit maximum system pressure and also limit the rate of pressure rise. The valve opens and then ramps closed at a constant speed, independent of settings and flows. The adjust screw determines the maximum (relief) setting and the minimum (threshold) setting.

The external drain makes the valve insensitive to pressure at port 2.

TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at Reseat	0,7 cc/min.		
Pressure Ramp Up Time	300 - 500 ms		
Response Time - Typical	2 ms		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990217007		
Seal kit - Cartridge	Polyurethane: 990217002		
Seal kit - Cartridge	Viton: 990217006		

CONFIGURATION OPTIONS

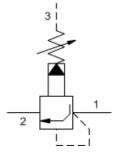
CONTROL

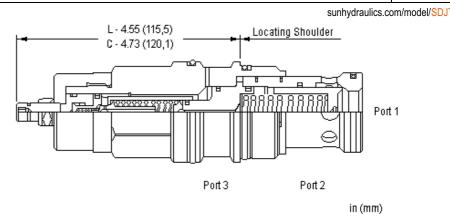
L Standard Screw Adju C Tamper Resistant - F

Model Code Example: SDHTLAN

	(L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)
ustment		A 2000 - 3000 psi (140 - 210 bar), 2000	N Buna-N	
actory Set		psi (140 bar) Standard Setting	V Viton	
·		C 4500 - 6000 psi (315 - 420 bar), 4500 psi (315 bar) Standard Setting		
		W 3000 - 4500 psi (210 - 315 bar), 3000 psi (210 bar) Standard Setting		







Pilot-operated, anti shock sequence cartridges limit maximum system pressure and also limit the rate of pressure rise. The valve opens and then ramps closed at a constant speed, independent of settings and flows. The adjust screw determines the maximum (relief) setting and the minimum (threshold) setting.

The external drain makes the valve insensitive to pressure at port 2.

TECHNICAL DATA

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

Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Control Pilot Flow	0,16 - 0,41 L/min.
Pressure Ramp Up Time	200 - 400 ms
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	4.5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990219007
Seal kit - Cartridge	Viton: 990219006

CONFIGURATION OPTIONS

Model Code Example: SDJTLAN

CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N)	MATERIAL/COATING
L Standard Screw Adjustment	A 2000 - 3000 psi (140 - 210 bar), 2	2000 N Buna-N		Standard Material/Coating
C Concealed Manual Override	psi (140 bar) Standard Setting	V Viton		/LH Mild Steel, Zinc-Nickel
	C 4500 - 6000 psi (315 - 420 bar), 4	500		
	psi (315 bar) Standard Setting			
	W 3000 - 4500 psi (210 - 315 bar), 3	.000		

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psi (210 bar) Standard Setting

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www.sunhydraulics.com

Sun Hydraulics Headquarters Sarasota, Florida USA +1 941 362 1200 Sun Hydraulics Limited Coventry England +44 2476 217 400 sales@sunuk.com

Sun Hydraulics Korea Corp. Incheon Korea +82 3281 31350 sales@sunhydraulics.co.kr Sun Hydraulik GmbH Erkelenz Germany +49 2431 80910 sales@sunhydraulik.de

Sun Hydraulics China Co. Ltd. Shanghai P.R. China +86 2162 375885 sunchinainfo@sunhydraulics.com Sun Hydraulics Corp. (India) Bangalore India +91 8028 456325 sunindiainfo@sunhydraulics.com

Sun Hydraulics Corp. (S.America) Rosario, Argentina +54 9 341 584 3075 ventas@sunhydraulics.com