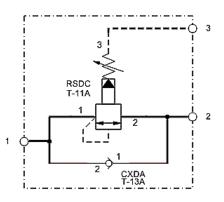




sunhydraulics.com/model/YSDA



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. Additionally, these assemblies incorporate an integral check valve to provide reverse free flow from port 2 (sequence) to port 1 (inlet).

## CONFIGURATION

L	Control	Standard Screw Adjustment	
Α	Adjustment Range	100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	
N	Seal Material	Buna-N	
C	Range Letter(s) of Subordinate Cartridge	30 psi (2 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)	
J	Port and Material Designation	Ports 1 & 2 — SAE 8; Port 3 — SAE 6; Aluminum	

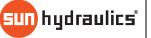
### **TECHNICAL DATA**

Body Type	Line mount	
Capacity	15 gpm	
Mounting Hole Diameter	.28 in.	
Mounting Hole Depth	Through	
Mounting Hole Quantity	2	
Model Weight	1.40 lb.	

NOTES

Important: Carefully consider the maximum system pressure. The pressure rating of the manifold is dependent on the manifold material, with the port type/size a secondary consideration. Manifolds constructed of aluminum are not rated for pressures higher than 3000 psi (210 bar), regardless of the port type/size specified.

• For detailed information regarding the cartridges contained in this assembly, click on the models codes shown in the Included Components tab.



(L)

# **OPTION SELECTION EXAMPLE: YSDALANCJ**

### PRIMARY CARTRIDGE CONFIGURATION

#### CONTROL

L	Standa	rd S	crew	Ac	ljus	tme	nt
•	Ŧ	1	• •		1		0

- C Tamper Resistant Factory Set
- J Capped Screw Adjustment
- K Handknob
- O Handknob with Panel Mount
- W Hex Wrench Adjustment
- Y Tri-Grip Handknob

#### ADJUSTMENT RANGE

Standard Setting

- (A)
- SEAL MATERIAL (M
- N Buna-N
  - E EPDM V Viton
- ₩ 150 4500 psi (10,5 315 bar), 1000 psi (70 bar) Standard Setting

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

- 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

## (C)

(J)

#### RANGE LETTER(S) OF SUBORDINATE CARTRIDGE

**C** 30 psi (2 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)

- A 4 psi (0,3 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)
- A 4 psi (0,3 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)
- **B** 15 psi (1 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)
- B 15 psi (1 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)
- C 30 psi (2 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)
- **D** 50 psi (3,5 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)
- D 50 psi (3,5 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)
- E 75 psi (5 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)
- E 75 psi (5 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)
- F 100 psi (7 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)
- F 100 psi (7 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)
- Z 1 psi (0,07 bar) (with RSDC primary cartridge, Pilot-operated, balanced piston sequence valve)
- Z 1 psi (0,07 bar) (with RSDC8 primary cartridge, Pilot-operated, balanced piston sequence main stage with integral T-8A control cavity)

#### PORT DESIGNATORS

Ports	
Ports 1 & 2: SAE 8; Port 3: SAE 6;	
Ports 1 & 2: 1/4" NPTF; Port 3: 1/4" NPTF;	
Ports 1 & 2: 3/8" NPTF; Port 3: 1/4" NPTF;	
Ports 1 & 2: 1/2" NPTF; Port 3: 1/4" NPTF;	
Ports 1 & 2: SAE 6; Port 3: SAE 6;	
Ports 1 & 2: SAE 10; Port 3: SAE 6;	
Ports 1 & 2: 1/4" BSPP; Port 3: 1/4" BSPP;	
Ports 1 & 2: 3/8" BSPP; Port 3: 1/4" BSPP;	
Ports 1 & 2: 1/2" BSPP; Port 2: 1/4" BSPP;	
	Ports 1 & 2: SAE 8; Port 3: SAE 6;         Ports 1 & 2: 1/4" NPTF; Port 3: 1/4" NPTF;         Ports 1 & 2: 3/8" NPTF; Port 3: 1/4" NPTF;         Ports 1 & 2: 1/2" NPTF; Port 3: 1/4" NPTF;         Ports 1 & 2: SAE 6; Port 3: SAE 6;         Ports 1 & 2: SAE 10; Port 3: SAE 6;         Ports 1 & 2: 1/4" BSPP; Port 3: 1/4" BSPP;         Ports 1 & 2: 3/8" BSPP; Port 3: 1/4" BSPP;

### MATERIAL DESIGNATOR

No modifier - inch, aluminum

/S - Inch, Ductile Iron

/M - Metric, Aluminum

/T - Metric, Ductile Iron

# INCLUDED COMPONENTS

l	Part	Description	Quantity
	CXDAXCN	Cartridge	1
ĺ	RSDCLAN	Cartridge - Primary	1

### **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.
- 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.
- 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.