



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.

Cavity	T-163A
Series	0
Capacity	7.5 gpm
Maximum Operating Pressure	5000 psi
Factory Pressure Settings Established at	Kick down point
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in ³ /min.
Response Time - Typical	25 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	3/4 in.
Valve Installation Torque	20 - 25 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	0.25 lb.
Seal kit - Cartridge	Buna: 990-163-007
Seal kit - Cartridge	Polyurethane: 990-163-002
Seal kit - Cartridge	Viton: 990-163-006

OPTION SELECTION EXAMPLE: SQBBLAN

CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)
L	Standard Screw Adjustment	A	75 - 3000 psi (5 - 210 bar), 1000 psi (70 bar) Standard Setting	N	Buna-N
C	Tamper Resistant - Factory Set	B	75 - 1500 psi (5 - 105 bar), 1000 psi (70 bar) Standard Setting	V	Viton
K	Handknob	C	75 - 6000 psi (5 - 420 bar), 1000 psi (70 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 bar) Standard Setting		

TECHNICAL FEATURES

- All 3 port sequence cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size).
- Should not be used in load holding applications.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- Intended for use on the actuator side of the system as flow through the valve must cease for the valve to reset. If used on the pump side of a system, pump flow must be shut off for the valve to reset.
- 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.