



High-side shuttle cartridges are most often used in full-time regeneration circuits. When both work ports (ports 2 and 4) are at equal pressures the valve is spring-centered to an all-ports-blocked position. When one of the work ports (port 2 or 4) sees a higher pressure it is connected to the common port (port 3).

TECHNICAL DATA

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

CONFIGURATION

X Control	Not Adjustable
G Shifting Pressure	150 psi (10,5 bar)
N Seal Material	Buna-N

Cavity	T-34A
Series	4
Capacity	120 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	5 in ³ /min.@1000 psi
Valve Hex Size	1 5/8 in.
Valve Installation Torque	350 - 375 lbf ft
Seal kit - Cartridge	Buna: 990034007
Seal kit - Cartridge	Polyurethane: 990034002
Seal kit - Cartridge	Viton: 990034006
Model Weight	4.52 lb.

CONFIGURATION OPTIONS

Model Code Example: DSISArray

CONTROL	(X) SHIFTING PRESSURE	(G) SEAL MATERIAL	(N)
X Not Adjustable	G 150 psi (10,5 bar)	N Buna-N	
	C 30 psi (2 bar)	V Viton	
	E 75 psi (5 bar)		
	F 100 psi (7 bar)		

TECHNICAL FEATURES

- This valve provides overrunning load control in regeneration applications where the load tends to extend the cylinder. Because there is spool leakage, it does not prevent drift.
- Hardened spool/sleeve construction provides excellent wear characteristics and minimizes cross leakage.
- Although this valve goes into a 4-port cavity, the nose (port 1) is not used.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES

DSIS

Typical Pressure Differential vs. Flow

