

HYFLOW® **Deceleration Valve**

A deceleration valve is a 2 way 2 position, spring-offset, cam actuated valve used for decelerating a load driven by a cylinder. A cam attached to the cylinder rod or load closes the valve gradually. This provides a variable orifice that gradually increases backpressure in the cylinder as the valve closes. Flow rate through the valve is regulated by the movement of the spool, which is operated by a cam. When the spool is depressed, the flow is decreased in Normal Open type valve and increased in Normal Closed type valve.

The bypass throttle valve allows a metered flow between ports even when the flow is stopped by the spool.

One of the applications is in a garbage truck. Cylinders moving at high speed must frequently be decelerated to a slow smooth stop. Connecting a cam operated, 2 way normal open deceleration valve in the cylinder's output line will bring it to a smooth gradual stop by slowly closing off the return oil flow.



Features & Specifications

Max operation pressure:	250 Bar (3500 PSI)
Flow max:	151 L/min (40 GPM)
Max drain port pressure:	3.45 Bar (50 PSI)
Temperature:	-22°F to 201°F (-30° to 93°C)
Fluid:	Mineral-based fluids
Filter:	ISO code 16/13, SAE class 4
Filtration:	25 micron
Seal:	Burn N, viton is special order only
Adjustment lock nut torque:	Max 35 N.m (25 ft.lbs)
Drain port	1/4"-18 NPT
Force to depress spool:	251 N (56.4 lbs) (spool fully closed)
Leakage:	8 ML/min total leakage at spool fully closed.
	Viscosity: 20mm ² /s(98SSu)
Mounting Bolts:	M10X120 (or 3/8"-16X4.65")
Bypass Orifice setting:	Middle (around 50% full open). Adjustable on site for application.
Total adjust turns:	8 rev from close to full open.

Model Number	Replacement for	Description	Note
DSCV-N75	355-9201-014	3/4" NPT ports, 40GPM/3500PSI	Standard stock item