

# V-series, pressure and flow control valves



- **Needle valves:** to control cylinder speed  
**V-82:** can also be used as shut-off valve for temporary load holding  
**V-182:** as V-82, also suitable for gauge snubbing  
**V-8F:** as V-82, but with very fine metering for precise flow control. Not recommended as shut-off valve
- **V-91: Snubber valve,** prevent snapping of gauge pointer when load or pressure is suddenly released. Also suitable as shut-off valve to protect gauge during high cycle applications
- **V-10: auto damper valve;** protect gauge during high cycle applications
- **Check valves:** for load holding with cylinders, to control oil flow direction  
**V-17:** to resist shock and operate with low pressure drop  
**V-42:** pilot-operated, pilot pressure ratio 14%
- **V-66:** manually operated  
**V-66F:** same as V-66, but with fine metering for precise oil flow control
- **Pressure relief valves:** limits pressure in circuit developed by pump  
**V-152:** ±3% repeatability
- **V-161: sequence valve;** to control oil flow to a secondary circuit.

	Hydraulic Symbol	Model Number	Thread NPTF	Operating Pressure bar
		V-82 V-182 V-8F	3/8" 1/4" 3/8"	0-700 0-700 0-700
		V-91	1/2"	0-700
		V-10	1/2"	0-700
		V-17	3/8"	0-700
		V-42	3/8"	0-700
		V-66 V-66F V-66NV *	3/8" 3/8" 3/8"	0-700 0-700 0-700
		V-152 V-152NV *	3/8" 3/8"	55-700 55-700
		V-161	3/8"	140-700