HSV Series 700 Bar Directional & Flow Control Valves

Solid forged alloy steel directional and flow control valves rated for 700 Bar (10,000 PSI), engineered for cylinder speed throttling, pilot-operated fail-safe locking, manual load holding, and adjustable 55-700 Bar overpressure bypass.



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PRODUCT SERIES	HSV Series 700 Bar Directional & Flow Control Valves
RATED WORKING PRESSURE	700 Bar (10,000 PSI) Continuous Industrial Rating
PORT THREAD STANDARDS	3/8"-18 NPTF / 1/4"-18 NPTF Dry-Seal Porting
VALVE CONFIGURATIONS	Needle Flow Control, Pilot Check (6.5:1), Manual Check, Relief Valves
RELIEF ADJUSTMENT RANGE	55 to 700 Bar Adjustable with ±3% Repeatability (HSV-152)
BODY CONSTRUCTION & FINISH	Precision Forged Solid Alloy Steel, Corrosion-Resistant Plating

Model Number	Valve Category	Max Working Pressure	Port Thread (NPTF)	Adjustment & Pilot Ratio	Dimensions (L x W x H) [mm]
HSV-11	Needle Flow Control Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female	Fine metering stem / Speed throttling	60 x 47 x 88
HSV-114	Needle Snubber & Throttle Valve	700 Bar (10,000 PSI)	1/4"-18 NPTF Female	Gauge pulsation dampening & throttling	60 x 47 x 88
HSV-42	Pilot-Operated Check Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female	Pilot ratio 6.5:1 (14% pilot pressure)	73 x 30 x 66
HSV-23	Manually Operated Check Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female	T-Handle Rotary Screw for load holding & oil return	89 x 57 x 102
HSV-152	Adjustable Pressure Relief Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female (3x)	55 - 700 Bar adjustable (±3% repeatability), incl. 0.9 m return line hose	193 x 38 x 79