▼ From left to right: **V-152, V-66, V-82, V-161, V-42, V-17**

Your Hydraulic Control Solution

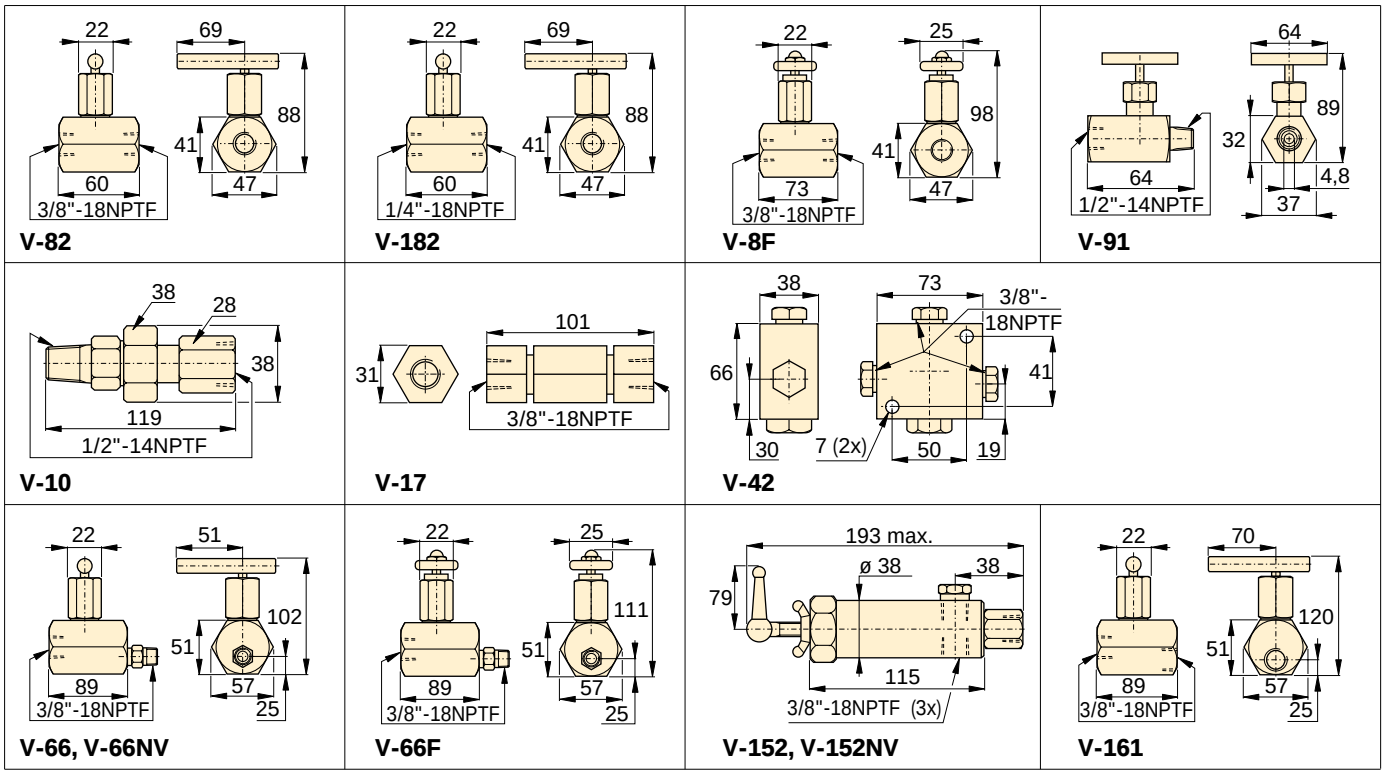
Valve Applications

To see these valves used in typical hydraulic circuits, please see our 'Yellow Pages'.

Page: **116**

▼ *The V-152 pressure relief valve limits the pressure or force developed in the hydraulic system.*

- **All valves are rated for 700 bar operating pressure**
- **All valves feature NPTF porting to insure against leakage at rated pressure**
- **All valves are painted, coated, or plated for corrosion resistance**
- **Viton® seals (in V-66NV and V-152NV) for high temperature applications, nickel-plated for maximum corrosion resistance**



Valve dimensions in mm

Pressure and Flow Control Valves

Premounted Manifolds

For two or four port manifolds with integral flow control valves, see the manifold page of the System Components section.

Page: 128

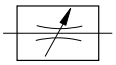
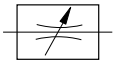
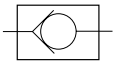
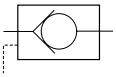
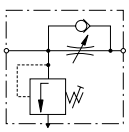
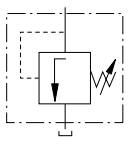
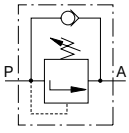
Fittings

For additional fittings see the fitting page of the System Components section.

Page: 129

V Series

Maximum Operating Pressure:
700 bar

Valve Type and Model Number		Description		Hydraulic Symbol
Needle Valve **V-82** **V-182** **V-8F**		**V-82:** To control cylinder speed. Can also be used as shut-off valve for temporary load holding. 3/8" NPTF female ports. **V-182**: Same as V-82, but with	1/4" NPTF female ports. Also suitable for gauge snubbing (also V-82). **V-8F:** Like V-82, but with very fine metering for precise flow control. **Not recommended as shut-off valve.**	
Snubber Valve **V-91**		**V-91:** Infinitely adjustable for metering oil out of a gauge to prevent snapping of gauge pointer when load or pressure is suddenly released. Also suitable as shut-off	valve to protect the gauge during high cycling applications. 1/2" NPTF male and female threads for use with GA-1, GA-2 or GA-4 gauge adaptors.	
Auto Damper® Valve **V-10**		**V-10:** To be used when gauge pressure must be monitored during high cycle applications. Creates a flow resistance when load is released suddenly.	No adjustments are necessary. 1/2" NPTF male and female threads for use with GA-1, GA-2 or GA-4 gauge adaptors.	
Check Valve **V-17**		**V-17:** Ruggedly built to resist shock and operate with low pressure drop. Closes smoothly without pounding. 3/8" NPTF female ports.		
Pilot Operated Check Valve **V-42**		**V-42:** Can be mounted at the cylinder to hold the load in case of system pressure loss. Normally used with double-acting cylinders where pilot port receives pressure from a	Tee-fitting in the cylinder retract line. 3/8" NPTF female ports. Pilot presure ratio 14% (6,5:1).	
Manually Operated Check Valve **V-66, V-66NV *** **V-66F**		**V-66, V-66NV:** For load holding applications with single and double acting cylinders. Valves allow oil to flow back to tank when cylinder retracts. V-66NV with Viton seals,	nickel-plated. **V-66F:** Similar to V-66, but with very fine metering capability for precise flow control. V-66F is not designed for load holding.	
Pressure Relief Valve **V-152** **V-152NV ***		**V-152:** Limits pressure developed by the pump in hydraulic circuit, thus limiting the force imposed on other components. Valve opens whenever preset pressure is reached.	To increase pressure setting, turn handle clockwise. Includes: • 0,9 m return line hose kit, • ±3% repeatability, • 55-700 bar adjustment range.	
Sequence Valve **V-161**		**V-161:** To control oil flow to a secondary circuit. Flow is blocked until system pressure rises to the V-161 setting. When this pressure level is reached, the V-161 opens to	allow flow to the secondary circuit. A pressure differential is always maintained between the primary and secondary circuit. **Min. operating pressure: 140 bar.**	

* See page 62 for more information about products for use in high temperature and extreme environment applications.