

Better performance comes from working together.



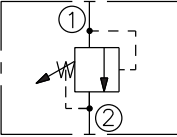
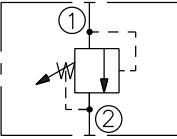
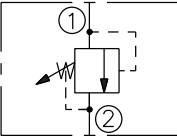
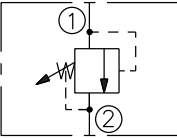
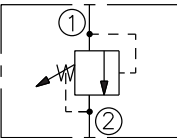
HYDRAFORCE
POWER FORWARD

January 2016

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click on a symbol for more info.

HydraForce Relief Valve Selection Guide

	Type/Model No./Cavity	Pressure/Flow	Uses	Characteristics
	DIRECT-ACTING POPPET High pressure for demanding applications. Model: RVD50-20 ; Cav: 10-2	5075 psi/350 bar ; 30 gpm/114 lpm	<ul style="list-style-type: none"> • Safety relief. • Low Leakage. • Very Low hysteresis. • Continuous duty. • Medium flow range. • Stable. 	<ul style="list-style-type: none"> • Extremely fast response. • Very low pressure rise. • Smooth, quiet relief. • Contamination-tolerant. • Consistent pressure setting.
	DIRECT-ACTING POPPET Model: RV08-20 ; Cav: 08-2 Model: RV58-20 ; Cav: 08-2 Model: RV10-20 ; Cav: 10-2 Model: RV08-29 ; Cav: 08-2	3600 psi/248 bar; 6 gpm/22 lpm 5000 psi/345 bar ; 6 gpm/22 lpm 3300 psi/228 bar; 10 gpm/38 lpm 3500 psi/241 bar; 0.5 gpm/1.9 lpm	<ul style="list-style-type: none"> • Safety relief. • Low flow range. • Low internal leakage. • RV58-20 may not be used for cross-over relief applications. 	<ul style="list-style-type: none"> • Inexpensive. • Fast response. • Contamination-tolerant. • Higher flow stability.
	DIFFERENTIAL-AREA POPPET Model: RV08-22 ; Cav: 08-2 Model: RV10-22 ; Cav: 10-2 Model: RV50-22 ; Cav: 10-2	3600 psi/248 bar; 8 gpm/30 lpm 3500 psi/241 bar; 30 gpm/114 lpm 5000 psi/345 bar ; 20 gpm/75 lpm	<ul style="list-style-type: none"> • Medium flow range. • Low hysteresis. • Very low internal leakage. • Continuous duty. • RV50-22 may not be used in cross-over relief applications. 	<ul style="list-style-type: none"> • Extremely fast response. • Higher reseal resistance. • Low pressure rise. • Accurate.
	PILOT-OPERATED POPPET Model: RV10-24	—	— Obsolete —	—
	PILOT-OPERATED SPOOL Model: RV10-26 ; Cav: 10-2 Model: RV50-26 ; Cav: 10-2 Model: RV12-26 ; Cav: 12-2 Model: RV52-26 ; Cav: 12-2 Model: RV16-26 ; Cav: 16-2 Model: RV56-26 ; Cav: 16-2	3500 psi/241 bar; 30 gpm/114 lpm 5000 psi/345 bar ; 30 gpm/114 lpm 3500 psi/241 bar; 40 gpm/150 lpm 5000 psi/345 bar ; 40 gpm/150 lpm 3500 psi/241 bar; 80 gpm/303 lpm 5000 psi/345 bar ; 100 gpm/379 lpm	<ul style="list-style-type: none"> • High flow range. • Pilot leakage. • Continuous duty. • Low hysteresis. • No cross-over relief. • Varying load conditions. 	<ul style="list-style-type: none"> • Very quiet. • Stable pressure relief. • Higher pressure rise. • Contamination tolerant. • Reseal at 90% of crack pressure.
	PILOT-OPERATED SPOOL, REVERSE CHECK Model: RV10-28 ; Cav: 10-2A	3500 psi/241 bar; 30 gpm/114 lpm	<ul style="list-style-type: none"> • Low leakage. • Low hysteresis. • No cross-over relief. 	<ul style="list-style-type: none"> • Fast response. • Reverse free flow. • Low pressure overshoot.

For detailed information and specifications, visit www.hydraforce.com or contact your local HydraForce representative at www.hydraforce.com/distrib/world.htm

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	Type/Model No./Cavity	Pressure/Flow	Uses	Characteristics
	<p>DIRECT-ACTING BI-DIRECTIONAL Model: CR10-28; Cav: 10-2 Model: CR08-38; Cav: 08-3</p>	<p>3500 psi/240 bar; 16 gpm/60 lpm 3500 psi/241 bar; 10 gpm/38 lpm</p>	<ul style="list-style-type: none"> • Low flow range. • Low leakage. • Continuous duty. • Prohibits back pressure. 	<ul style="list-style-type: none"> • Fast response. • Reseat at 90% of crack pressure.
	<p>CROSS-OVER DIRECT-ACTING POPPET Model: CRV08-20; Cav: N/A Model: CRV10-20; Cav: N/A</p>	<p>3300 psi/228 bar; 6 gpm/22 lpm 3500 psi/241 bar; 20 gpm/76 lpm</p>	<ul style="list-style-type: none"> • Protection from load-induced pressure surges. • Low flow range. • Low internal leakage. 	<ul style="list-style-type: none"> • Extremely fast response. • Contamination tolerant. • Poor pressure-rise characteristics.
	<p>CROSS-OVER DIFFERENTIAL-AREA POPPET Model: CRV08-22; Cav: N/A Model: CRV10-22; Cav: N/A</p>	<p>2600 psi/180 bar; 8 gpm/30 lpm 3500 psi/241 bar; 20 gpm/76 lpm</p>	<ul style="list-style-type: none"> • Medium flow range. • Protection from load-induced pressure surges. • Low internal leakage. 	<ul style="list-style-type: none"> • Extremely fast response. • Smooth response to pressure surges.
	<p>THERMAL RELIEF Model: TR04-B20; Cav: 04-B2</p>	<p>6000 psi/414 bar</p>	<ul style="list-style-type: none"> • Relief of pressure-induced thermal intensification. • Low Leakage. 	<ul style="list-style-type: none"> • 10 drops/minute at 85% of pressure setting. • Withstands high pressure.