

# PRESSURE COMPENSATED ADJUSTABLE FLOW CONTROL VALVES

## MODEL RD-100 TOP PORT FLOW CONTROL



The PRINCE valve models RD-100 and RD-1900 are pressure compensated adjustable flow control valves. By rotating the handle, the flow out the "CF", or controlled flow port, can be varied from approximately 0 to the maximum controlled flow shown in the chart below. Any remaining flow is bypassed to the "EF" or excess flow port. This flow can be used to power another circuit or can be returned to tank. Once the controlled flow is set it will remain nearly constant with variations in pressure on either the controlled or excess flow ports.

Please note: If during operation the controlled flow port is blocked the valve will compensate in such a way as to shut off flow to the excess port.

These valves can also be used as a restrictive flow control by plugging the excess flow port.

## MODEL RD-1900 SIDE PORT FLOW CONTROL



The PRINCE valve models RDRS-100 and RDRS-1900 have a built in adjustable pressure relief. For these models the excess flow port **must** be connected to tank.

It should be noted that whenever these or any valve is used to bypass or restrict, flow heat will be generated. Steps may be required to keep oil temperature from becoming too high.

### VALVE SPECIFICATIONS:

Capacity: 30 gpm max inlet flow  
Pressure: 3000 psi max  
Weight: RD-100 8 lbs.  
RD-1900 9 lbs.

### FIELD REPAIR KITS:

Handle hardware 660301002  
Seal Kit 660501001

## STANDARD MODELS AVAILABLE

MODEL NUMBER		PORT SIZES	CONTROLLED FLOW RANGE	For Other Relief Settings Please Specify:
RD-137-8	RD-1937-8	3/8 NPTF	0-8 GPM	
RD-150-8	RD-1950-8	1/2 NPTF	0-8 GPM	
RD-150-16	RD-1950-16	1/2 NPTF	0-16 GPM	
RD-175-16	RD-1975-16	3/4 NPTF	0-16 GPM	
RD-175-30	RD-1975-30	3/4 NPTF	0-30 GPM	RDRS-1950-16-20 └ Relief Pressure in Hundreds Example: 20=2000 PSI
RD-108-8	RD-1908-8	#8 SAE	0-8 GPM	
RD-112-30	RD-1912-30	#12 SAE	0-30 GPM	
RDRS-150-16	RDRS-1950-16	1/2 NPTF	0-16 GPM	These models have built in relief set at 1500 psi @ 10 GPM.
RDRS-175-30	RDRS-1975-30	3/4 NPTF	0-30 GPM	

Special combinations of port size and controlled flow range are available in O E M quantities.  
Please consult your sales representative.

