



**BPV HYDRAULIC REMOTE CONTROL - "HF"
CONTROL CHARACTERISTICS**

**Bulletin No.
BPV 000
03.89/004/03**

1. General Description

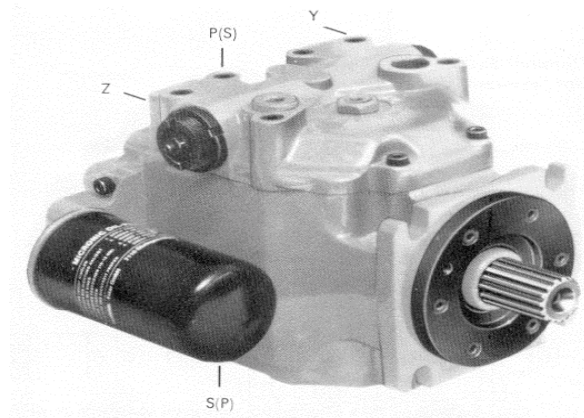
By pressurizing the servo control ports Y or Z by means of a pilot valve, the servo piston is actuated to manipulate a spool valve which leads the oil flow from the boost circuit to the actuation cylinders to control the swash plate in the pump. This determines the amount and direction of oil flow from the main pump. Additional description of the operation of the servo piston and spool valve can be seen in the "BPV, Description of design and function" manual, catalog H-95, page 12.

2. Flow Direction

The pump will not discharge any oil when the servo piston is in the center or neutral position. This is customarily when the control pressure is zero on both sides of the servo piston but is also when the control pressures are equal. Flow from the pump is established by subjecting the servo piston to a pressure differential. The magnitude of the pressure differential will determine the amount of pump flow and the direction from the pump's main pressure ports.

2.1 Control Logic:

	Control Pressure in :	
	Y	Z
CW PUMP in/out	S(P) - P(S)	P(S) - S(P)
CCW PUMP in/out	P(S) - S(P)	S(P) - P(S)



3. Control Pressure Range:

2 - 8 Bar

4. Control Volume:

8.6 cc for sizes 35 - 100
12.3 cc for size 200

5. Response Time:

≤ 2 Sec

6. Geometric Displacement vs Control Pressure:

