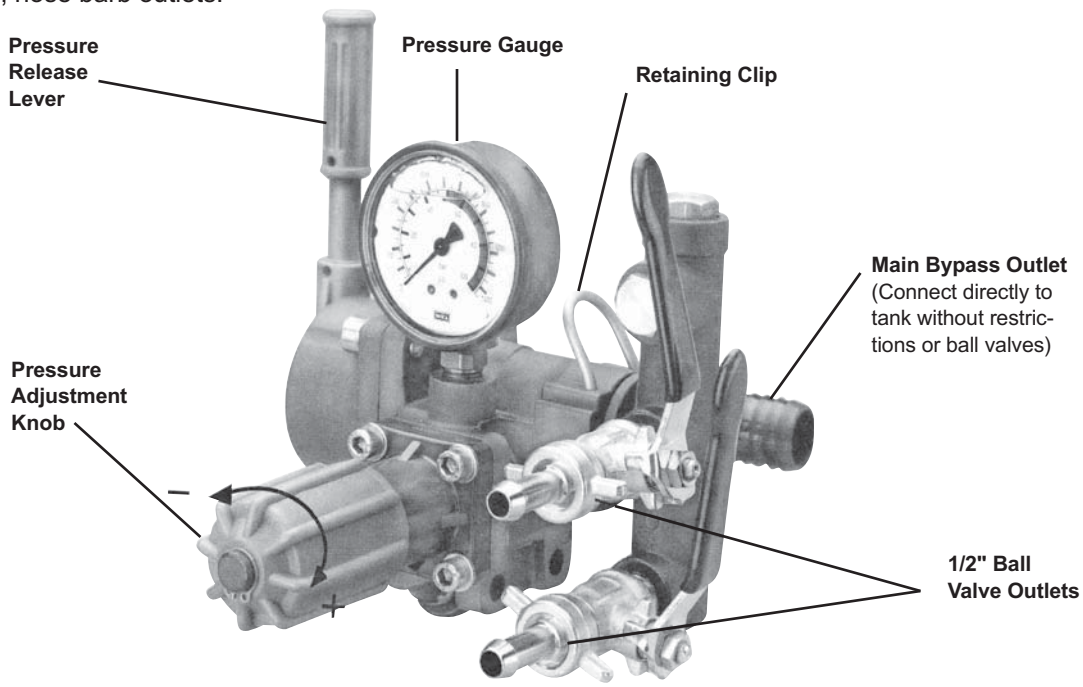
Control Unit 9910-VDR50

The Model 9910-VDR50 Control Unit is designed for the control of pressures up to 725 psi and flows to 35 gpm. It consists of an adjustable pressure relief valve, a manual pressure release lever, and two individual ball valve-controlled, 1/2" O.D., hose barb outlets.



Installation

Direct Mounting*

1. Locate the pump discharge manifold. With o-rings (Ref. 13) lubricated and in position on selector housing inlet (Ref. 17), plug into the discharge manifold of the pump. Lock into place with the retainer clip (Ref. 10) and cotter pin (Ref. 53).
2. Connect the bypass hose to the bypass port hose barb elbow (Ref. 1), and run it unrestricted back to the supply tank.
3. Connect the desired number of high pressure outlet hoses to the outlet hose barbs (Ref. 56). The unused hose barb can be shut off with the ball valves provided.

NOTE: For all discharge hoses, use hose with an operating pressure rating that is equal or greater than the maximum pressure rating of the pump.

Remote Mounting*

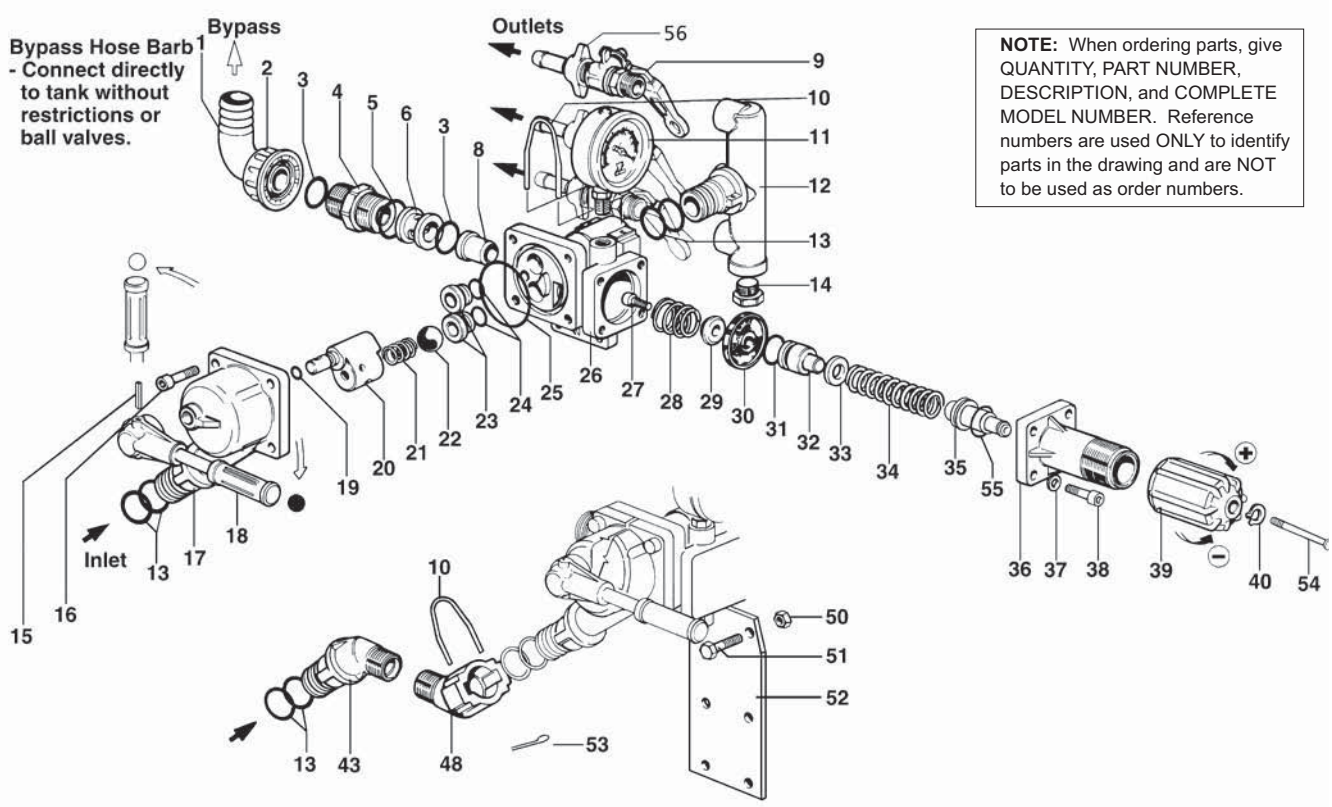
1. Install the mounting bracket (Ref. 52) in the desired position and secure.
2. With the o-rings (Ref.13) lubricated and in position on the selector housing inlet (Ref. 17), assemble into the 3/4" (M) NPT female adapter (Ref. 48). Lock in place with the retainer clip (Ref. 10) and cotter pin (Ref. 53).
3. With o-rings (Ref. 13) lubricated and in position on the 3/4" (M) NPT male adapter (Ref. 43), slip into the pump discharge manifold. Lock in place with the retainer clip (Ref. 1) and the cotter pin (Ref. 53).
4. With high pressure hose, connect the NPT fitting on the discharge manifold of the pump with the NPT fitting on the control unit.
5. Connect the bypass hose to the bypass hose barb elbow (Ref.1), on the control unit and run it unrestricted back to the tank.
6. Connect the desired number of high pressure outlet hoses to the outlet hose barbs (Ref. 56). Unused hose barbs can be shut off with the ball valves provided.

*Refer to the parts list on page 11 for part number references.

Operation

1. Refer to the pump operation instructions for the proper operation.
2. The control unit can be put into full bypass mode by turning the pressure release lever (Ref. 18) counterclockwise as far as it will go.
3. With the pressure release lever (Ref. 18) rotated clockwise to pressure position, pressure can be adjusted by rotating the pressure adjustment knob (Ref. 39) clockwise for more pressure or counterclockwise for less pressure.
4. Flow can be controlled by ball valves on each of the outlet ports.

Parts List for Control Unit 9910-VDR50



NOTE: When ordering parts, give QUANTITY, PART NUMBER, DESCRIPTION, and COMPLETE MODEL NUMBER. Reference numbers are used ONLY to identify parts in the drawing and are NOT to be used as order numbers.

REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ'D.
1	9910-550370	Hose Barb	1
2	9910-550242	Nut	1
3	9910-550350	O-ring	2
4	9910-1040780	Port Adapter	1
5	9910-550040	O-ring	1
6	9910-1040670	Spacer	1
8	9910-1040660	Valve Seat	1
9	9910-130491	Ball Valve w/o hose barb assy.	2
10	9910-1040690	Retainer Clip	2
11	9910-550545	Gauge	1
12	9910-1040680	Outlet Manifold	1
13	9910-390180	O-ring	8
14	9910-130171	Plug	2
15	9910-1040820	Pin	1
16	9910-180030	Bolt	4
17	9910-1040720	Selector Housing	1
18	9910-1040730	Pressure Release Lever	1
19	9910-1080200	O-ring	1
20	9910-1040700	Selector Body	1
21	9910-850680	Spring	1
22	9910-850660	Ball	1
23	9910-850650	Seat	2
24	9910-740290	O-ring	2
25	9910-1040710	O-ring	1
26	9910-1040600	Main Body	1

REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ'D.
27	9910-680560	Bolt	1
28	9910-1040650	Spring	1
29	9910-1040640	Valve Cap	1
30	9910-1040630	Diaphragm	1
31	9910-880830	O-ring	1
32	9910-1040620	Piston	1
33	9910-850440	Spacer	1
34	9910-1040830	Spring	1
35	9910-394770	Spring Guide	1
36	9910-1040610	Spring Guide Body	1
37	9910-550331	Washer	4
38	9910-780330	Bolt	4
39	9910-394790	Knob	1
40	9910-480550	Snap Ring	4
43	9910-1040761	3/4" (M) NPT Male Adapter	1
48	9910-1040771	3/4" (M) NPT Female Adapter	1
49	9910-550210	1" Straight Hose Barb	1
50	9910-390270	Nut	2
51	9910-180370	Bolt	2
52	9910-850690	Mounting Bracket	1
53	9910-1040950	Cotter Pin	2
54	9910-1150650	Bolt	1
55	9910-770130	O-ring	1
56	9910-110130	Hose barb assembly 1/2"	2