

1. Proton Digital Mixing Valve

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- This technical drawing illustrates a two-channel hydraulic system. It features two identical pump assemblies at the top, each consisting of a pump unit and a pressure relief valve. These pumps are connected to a common horizontal manifold. From this manifold, two parallel hydraulic lines lead down to two identical actuator assemblies. Each actuator assembly includes a double-acting hydraulic cylinder and a directional control valve. The system is enclosed within a rectangular frame, likely representing a machine housing, with various mounting points and connection ports indicated by small circles and lines.

		PRESSURE DROP (PSI)									
MODEL # Inlet/Outlet	Minimum Flow*	5 PSI	10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	35 PSI	40 PSI	45 PSI	50 PSI
PNV100LF-2PS 1"x 1-1/4"	5 GPM	34	50	56	64	72	78	86	90	96	102
PNV125LF-2PS 1-1/2"x 2"	6 GPM	80	112	132	154	172	190	208	218	228	240
PNV150LF-2PS 2"x 3"	10 GPM	100	144	172	200	230	244	272	280	316	330
PNV200LF-2PS 3"x 4"	10 GPM	160	230	260	294	330	346	378	396	430	452
PNV300LF-2PS 4" x 5"	20 GPM	194	270	326	382	426	470	524	576	592	606
Flow in Gallons per Minute (GPM)											
Valves should be sized based on a 5 to 10 PSI pressure drop											