

Pressure Relief Valves & Unloaders

K1, K3 & K5 Series Unloaders

— Flow Sensitive —



Standard Features: Stainless Steel and Brass internal parts. • No external moving parts or springs.

- Unique balance nozzle principle eliminates pressure peaks normally generated by conventionally designed unloaders as well as eliminating high pressure in all lines while unit is in by-pass mode.
- Pressure in system during unloading cycle is determined by the inlet pressure to the system. • Motors draw less amps, engines run with less load during unloading cycle. • Piston design permits precise pressure adjustment. **Ports:** Inlet: 3/8" FPT, Outlet: 3/8" MPT, By-pass: 3/4" MPT on **K3** and **K5**. Inlet: 3/8" FPT, Outlet: 1/2" MPT, By-pass: 1/2" on **ZK1**. **Maximum temperature** is 165° F.

Best for Single Non Weep Guns.



ZK1

Part No.	Maximum PSI	GPM Flow	Maximum Temperature
IP ZK1	3600	2.3 to 10.8	165° F.
IP K3.1	1500	3.0 to 4.2	165° F.
IP K3.2	1500	4.3 to 5.6	165° F.
IP K5.1	3000	3.0 to 4.2	165° F.
IP K5.2	3000	4.3 to 6.6	165° F.
IP K5.3	3000	6.6 to 10.8	165° F.
IP 53129	Repair Kit for K3 Unloader.....		
IP 53158	Repair Kit for K5 Unloader.....		

K7 Series Unloaders

— Flow Sensitive —

Standard Features: All Stainless steel and brass internal parts. No external moving parts or springs.

- Unique barb and flow balancer design provides gradual pressure build-up when system is closed.
- Eliminates high pressure in all lines while unit is in by-pass mode. • By-pass restrictor eliminates pressure peaks during by-pass. • Balanced piston design permits precise pressure adjustment. • Simple design offers easy maintenance and service. **Ports:** Inlet and by-pass ports are 3/8" FPT. Outlet port is 3/8" MPT. **Maximum Temperature:** 165° F. **Note:** These valves require a minimum of 5% by-pass at all times. **Best for Single Pump or Non Weep Guns.**



Part No.	PSI Range	Maximum Flow
IP K7.1	100 to 3000	3.0 to 4.0 GPM
IP K7.2	100 to 3000	4.0 to 6.6 GPM
IP K7.3	100 to 3000	6.6 to 10.6 GPM
IP 53420	Repair Kit for K7 Unloader....	

Flow Sensitive Unloaders



Flow Sensitive Unloaders from Cat Pumps®. Flow actuated bypass. Nominal pressure spikes for smoother operation. Provides protection for single gun, non-weep installation. Reduced pressure loss means more cleaning power. Rated to 4000 PSI. Flows from 2.5 to 10.5 GPM. Maximum temperatures to 195° F. Inlet, outlet and bypass ports are all 3/8" FPT.

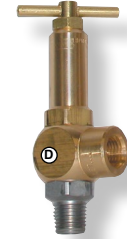


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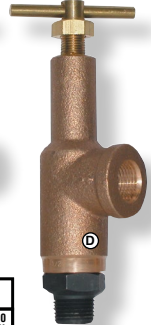
Part No.	Switch	Pressure Range	Flow Range
CC 7450	No	4000 PSI	2.5-10.5 GPM

Pressure Relief Valves

Pressure relief valves from **SPRAYING SYSTEMS**. Adjustable design for line pressure control on pumps and systems. Can bypass back to the liquid source or the inlet of the pump. Full flow with minimal pressure loss. Brass bodies with brass or stainless internal parts. 1/4" through 3/4" inlet and outlet and pressures from 300 to 1200 PSI as noted. Buna gaskets, rated to 150° F. (6815HSS valves have hardened stainless seats for higher pressures.)



Type 110



Type 6815

MODEL NO.	MAXIMUM FLOW IN G.P.M. THROUGH VALVE AT VARIOUS PRESSURES IN P.S.I. (WITH VALVES FULLY OPEN)											
	10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	35 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	100 PSI
AA110-1/4&3/8	5.3		7.5		9.2		11		13		15	17
6815-1/2&3/4-300		18	25	26	29	32	34	36	40	44	47	50
6815-3/4-700												
6815-1/2&3/4HSS	10	12	14	15	16	17	18	19	20	21	22	23



Part No.	Pressure	Inlet	Bypass
SS AA110-1/4	1000 PSI	1/4" MPT	1/4" FPT
SS AA110-3/8	1000 PSI	3/8" MPT	3/8" FPT
SS 6815-1/2-300	0-300 PSI	1/2" MPT	1/2" FPT
SS 6815-3/4-300	0-300 PSI	3/4" MPT	3/4" FPT
SS 6815-3/4-700	300-700 PSI	3/4" MPT	3/4" FPT
SS 6815-1/2HSS	700-1200 PSI	1/2" MPT	3/4" FPT
SS 6815-3/4HSS	700-1200 PSI	3/4" MPT	3/4" FPT

Diaphragm Pressure Relief Valves

Ideal for use with Spot-Free Transfer Systems. These Diaphragm Style Pressure Relief Valves are available with a nylon or brass lower body. Connections are 3/4" NPT with a 1/4" FPT gauge port.

- Features:** Viton® Diaphragm • 300 PSI Pressure Range • Aluminum Bonnet • Stainless Steel Springs • Positive Adjustment Lock • Extra Large Valve Passages.



Pressure (PSI)	10	20	30	40	60	80	100
Flow Rate (GPM)	22	31	38	44	54	62	70

Maximum Flow rates through valves at various pressures with valves fully open.

Part No.	Diaphragm By-Pass Valves
SS 8460-3/4	Nylon Valve
SS 9840-3/4	Brass Valve
SS CP8366-FA	Viton® Diaphragm Only
SS RK8460	Viton® Repair Kit
SS 8361-3/4NY	Nylon Repair Body



Unloader Manifold Blocks

High Pressure Manifold Blocks for remote mounting of unloader valves or pressure relief valves. Designed to be bolted down to a base or stand. Available in plated steel or brass construction. Ports are 3/8" or 1/2" FPT as shown. Standard with two ports: one is inlet for hose from high pressure pump, the other is for mounting of relief valve. Helps to reduce strain and weight of valves mounted directly to pump outlets.



Part No.	Ports	Type	Max. Pressure
DU 1142	3/8" FPT	Plated Steel	4,000 PSI
IP D10118	3/8" FPT	Plated Steel	5,500 PSI
MV 220294	1/2" FPT	Plated Steel	4,000 PSI
IP D10127	1/2" FPT	Plated Steel	5,000 PSI
MV 220103	3/8" FPT	Brass	4,000 PSI
MV 220104	1/2" FPT	Brass	4,000 PSI



Fantastic Company! "This was my first order made through Dultmeier and it was extremely smooth. Very helpful and knowledgeable people. No Complaints at all on my end!"

Nick