GENERAL PUMP

A member of the Interpump Group

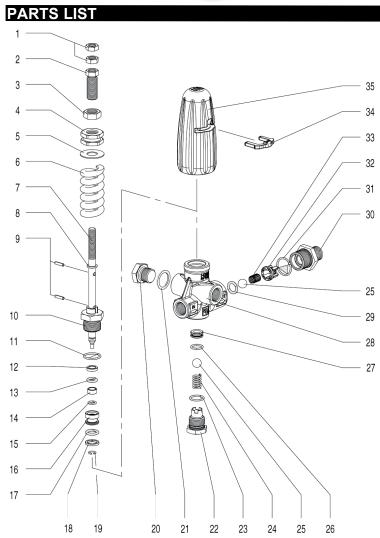
ZK4010

Trapped Pressure Unloader

General Pump recommends using a safety relief device in conjunction with this unloader valve when installed on a positive displacement pump. General Pump is not liable and assumes no responsibility when used in a customer's high pressure system.



SPECIFICATIONS						
Part Number	•	ZK4010				
Maximum Pressure		4000 PSI				
Maximum Flow		2.11 - 10.5 GPM				
Port Sizes:	Inlet	3/8" BSP-F				
	Outlet	3/8" BSP-M				
	Bypass	(2) 3/8" BSP-F				
Temperature		182° F				
Dimensions		7.7" x 3.6"				
Shipping Wei	ght	2.3 lbs				
Materials		Brass, Stainless Steel,				
		Bun-N, NBR, Nitrile				



1 92220000 Nut, M8 x 1 x 5 x 13 2 2 36326264 Pressure Screw 1 3 92240000 Nut, M12 x 1.25 x 7 x 19 1 4 36326164 Pressure Regulator Nut 1 5 96778000 Washer, Ø 28 x 12.5 x 1 1 6 94750900 Spring, Ø 21 x 60 * 1 7 36326373 Valve Rod 1 8 96703700 Washer, Ø 8.5 x 12 x 1.5 1 9 97665800 Pin, Ø 3 x 12 2 10 36335670 Bushing 1 11 90359500 O-ring, Ø 17.17 x 1.78 * 12 99503600 Anti-extrusion Ring * 1 13 90381800 O-ring, Ø 7.59 x 2.62 * 1 14 36335770 Spacer 1 1 15 90357600 O-ring, Ø 6.75 x 1.78 * 1 16 36326466 Piston Control 1 17 90382500 O-ring, Ø 10.78 x 2.62 * 1 18 90507000	Item	Part Number	Description	KIT	Qty
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35 36326051 Knob 1	34	36329751	Yoke		1
	35	36326051	Knob		1_
* KIT245 Repair Kit	*	KIT245	Repair Kit		







Trapped Pressure Unloader

INSTRUCTIONS

In order to obtain a correct pressure adjustment and a long life of the trapped pressure unloader, the bypass keeps releasing 5% of the total flow rate. The positions mentioned in the following instructions refer to those shown on Page 1.

- 1. Remove yoke (#34) with a screwdriver.
- 2. Take off knob (#35).
- 3. Unscrew the ring nut (#4) and the nut (#3) up to the upper stop position of the screw for adjustment of maximum pressure (#2).
- 4. Tighten the regulation screw (2) to the stroke stopper (#7), taking care not to force it.
- 5. Open the gun, start the system and make sure that all air is expelled.
- 6. With gun opened, begin adjusting the pressure by tightening the adjustment ring nut (#4). Alternate the adjusting operations with a few openings and closings of the gun (at least twice), until the desired pressure has been reached. In order to stabilize the various components (seals, springs, etc.), open and close the gun a few times. Check the pressure again and correct if needed.
- 7. Hold the ring nut (#4) with a pliers and tighten the nut (#3) to torque value between 30 and 35 Nm.
- 8. ADJUSTMENT OF MINIMUM PRESSURE: Unscrew the ring nut (#4) until the required minimum pressure is obtained. Tighten the lower nut (#1) all the way down on the pressure regulation screw (#2); tighten the upper nut (#1) onto the lower nut with a torque between 15 and 20 Nm.
- 9. Replace knob (#35) and yoke (#34).

After performing the operations described above, the valve is adjusted. Moving the knob (#35) you can obtain all intermediate pressures within the adjustment range, in addition to the minimum and maximum pressure.

DO NOT FORCE THE KNOB WHEN IT HAS REACHED THE END OF STROKE.

SAFETY AND OPERATING INSTRUCTIONS

- 1. Installation must be done in compliance with the local regulations in the country where the pressure regulator is installed and used.
- Installation and pressure adjustment must be made by qualified and authorized staff only, who must be informed of the operating and safety instructions contained in this document.
- 4. Never exceed the maximum values of pressure and flow rates stated by the manufacturer.
- 5. The maximum water temperature must not exceed 185⁰F.
- 6. Use only guns and/or other control devices ensuring a perfect seal. Water leakage will affect the correct functioning of the automatic pressure regulator
- 7. If the flow-rate at the bypass is close to zero or exceeds the maximum flow-rate by 15% during operation, this could cause failure, early wear and result in situations of danger.
- 8. In the event that the pressure regulator is installed in a system for hot water generation, it must be placed before the boiler, at such a distance to prevent back-flow of steam or very hot water from reaching it.
- 9. This type of regulator cannot replace the safety valve by any means. If requested by the applicable Regulations, a safety valve must be added to the system.
- 10. After working and before performing any operation on the system, release the residual pressure by opening the gun for a few seconds. Direct the lance in a way that the jet created by the residual pressure cannot be harmful or dangerous.
- 11. For the bypass use a tube of limited length and of the same size as the bypass port of the regulator taking care not to form siphons which could include harmful air bubbles.
- 12. Maintenance and repair must be carried out by qualified and authorized staff only. Use original spare parts only.
- 13 In case of disposal, do not discard the material into the environment; instead, take it to an authorized disposal center.

