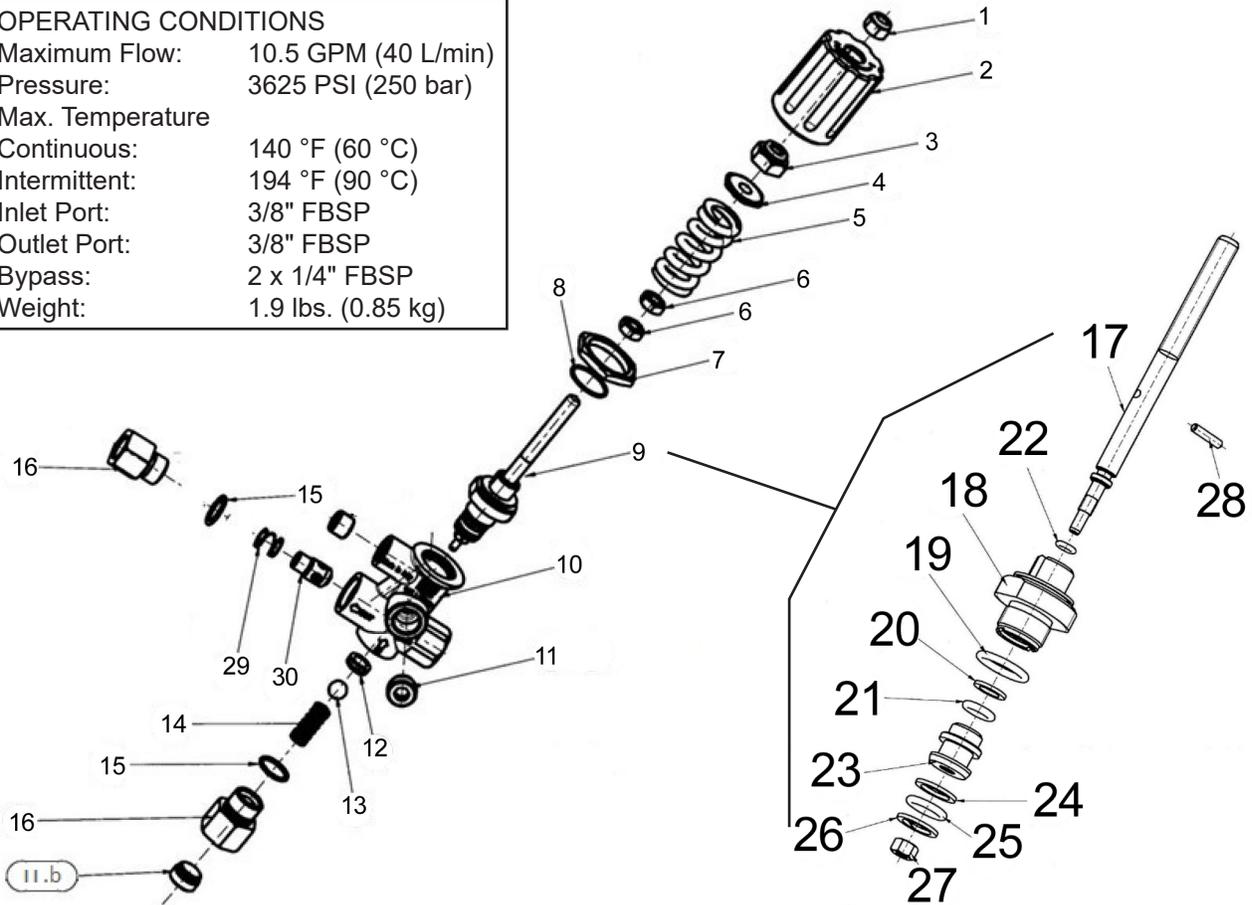


Model 25150

Pressure Actuated Unloader

OPERATING CONDITIONS

Maximum Flow:	10.5 GPM (40 L/min)
Pressure:	3625 PSI (250 bar)
Max. Temperature	
Continuous:	140 °F (60 °C)
Intermittent:	194 °F (90 °C)
Inlet Port:	3/8" FBSP
Outlet Port:	3/8" FBSP
Bypass:	2 x 1/4" FBSP
Weight:	1.9 lbs. (0.85 kg)



Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	16255	Self Locking Nut	1	15	05496*	Self Locking Nut	2
2	03660	Handwheel	1	16	05495	Fitting	2
3	04223	Nut for Handwheel	1	17	05497	Piston	1
4	05486	Brass Washer	1	18	05498	Guide Fitting	1
5	05487	Spring	1	19	05499*	O-Ring	1
6	05488	Nut, zinc plated	2	20	05500*	Support Ring	1
7	04225	Nut, brass	1	21	05501*	O-Ring	1
8	05490	Blue O-Ring	1	22	05502*	O-Ring	1
9	05489	Piston Assembly	1	23	05503	Seal Bushing	1
10	03661	Body	1	24	05504*	Support Ring	1
11	03662	Cap	1	25	05505*	O-Ring	1
12	16269*	Seat, Stainless Steel	1	26	05506*	Support Ring	1
13	16268*	Ball	1	27	05507	Nut, M6, SS	1
14	05494*	Spring	1	28	05508	Spring Pin	1
				29	03664*	Kick Back Valve Spring	1
				30	04228*	Kick Back Valve w/o Spring	1

*09749 Repair Kit

Operation

*The 25150 unloader valve has been designed and manufactured to work properly with hot water at 140 °F (60 °F), although it can operate for short periods of time at a maximum temperature of 195 °F (90 °F).

WARNING: When used in a hot water application, pay close attention and ensure that the system does not exceed the maximum pressure and temperature ratings listed in this user's manual.

This is due to the fact that, thermal inertia can cause the trapped pressure and temperature in the system to increase and exceed the maximum pressure and temperature rating of the unloader. In hot water applications it is always advisable to include a safety valve to protect the unit.

PRODUCT DESCRIPTION

The 25150 unloader valve is a device that allows the control of the maximum pressure of the fluid passing through it, by recirculating/bypassing the excess flow. The handwheel (2) is used to alter the output pressure by adjusting the spring tension. If the outflow is closed (trigger gun released), the entire pump flow is recirculated/bypassed.

INSTALLATION

The 25150 unloader valve has been designed and manufactured to be incorporated into a complete machine or complete hydraulic system. The valve should be installed downstream from the pump and upstream of any boiler or heater coil.

The valve has 2 inlet ports; close the unused inlet port. The valve has 2 by-pass ports; close the unused bypass port.

Use a sealant on the threaded connections and tighten appropriately.

WARNING

The pressure system where the valve is installed, must be equipped with all the safety devices (safety valves, adjustment, etc.) required by current regulations.

Installation must be done exclusively by skilled workers. The Manufacturer is not responsible or liable for any loss or damage arising from improper installation or installation done by unskilled workers.

PRODUCT USE

Choose the appropriate valve to match all of the system requirements (ex: low, pressure, temperature); ensure none of the system requirements exceed the valve ratings. The value of the maximum allowable pressure is indicated by the different color of the plastic bushing which is at the top of the valve body. We recommend selecting a nozzle sized so that at least the 5% of the total pump flow will be bypassed. This will ensure a constant working pressure and minimize pressure spikes. The pressure adjustment must be performed with the system in operation (with fluid flowing from the nozzle).

Use fresh clear water, with common detergents used for washing of vehicles. Any impure fluid must be adequately filtered before it is used.

Giant Industries does not manufacture or supply any of the chemicals used with our product and is not responsible for their effects. Because of the large number of chemicals that could be used (and their different chemical reactions), the buyer and user of this equipment should determine compatibility of the materials used and any of the potential hazards involved.

NOTE: Always remember to carefully read the chemical manufacturer's label and follow all directions.

SERVICE

Service must be done exclusively by skilled workers using only original MTM Hydro replacement parts. To correctly reassemble, follow the drawing listed in the exploded view in this manual. The 25150 unloader valve's regular service is to be done once every 400 working hours (around 10.000 cycles); we recommend inspection of the seals and internal components for wear. If necessary, replace worn components with original MTM Hydro replacement parts lubricated with a suitable water resistant grease.

WARNING: Before performing service on the product it is necessary to discharge any residual pressure from the hydraulic system.

The components need to be properly reassembled to restore the original conditions of the product. The Manufacturer is not responsible or liable for any loss or damage arising from improper reassembly or service by unskilled workers.

ADDITIONAL INSTRUCTIONS

To correctly install, use, and service this product, carefully read and follow the instructions and warnings contained in this manual.

Ensure that these instructions are included in the final user's manual of any machine in which the product is assembled.

Any improper use of or alteration of this product may cause loss or injury. The Manufacturer is not responsible or liable for any loss, damage, or injury arising from improper use or alteration and declines all liability for its functioning and safety.

The component described here complies with the rules and the lines in force that you can find in the MTM Hydro's CONFORMITY DECLARATION.

Giant Industries declines all responsibility and liability in the case that the compliance and regulations stated in this manual are not followed or respected.

Giant Industries reserves the right to make any modification to both products and manuals without notice.

GIANT
Performance Under Pressure

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WARNING: This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov