

TP Lubricator

Air-operated, Progressive Systems

General

The TP Lubricator meets a wide range of requirements as shown in the table below. The discharge capacities range from .25cc (.015 cu. in.) to 2.8cc (.170 cu. in.) per stroke. These pumps offer a range of pressure ratios and are available as single acting, spring return or double acting, power return.

Application

The TP Lubricators are used on central pumping stations with T30 or T32 reservoirs; or in bulk oil installations without reservoirs. These lubricators are actuated by air or hydraulic power. See Bulletin #SL2800: Singline Components.



Technical Data

Discharge/Stroke		0.25-2.8cc (0.015-0.170 cu. in.)
Type ¹	Hydraulic	TP222C
	Air	TP121C, TP131C, TP231C
Grease		NLGI grade 1-2
Max. Lube Inlet Pressure		15 psi
Input Pressure		30 psi-600 psi
Max. Cycles per Minute	NLGI grade 1	40 cycles/minute (Max. discharge), 50 cycles/minute (50% discharge)
	NLGI grade 2	20 cycles/minute (Max. discharge), 25 cycles/minute (50% discharge)
Pump Piston Return	Hydraulic	TP222C
	Spring	TP121C, TP131C, TP231C

¹ Listings in this column show our recommendations based on pump pressure ratios in relation to typical machine air and hydraulic power supply pressures. Hydraulic pressure must fall below 2 psi during relief cycle when using pumps for single acting (spring return) hydraulic service.

How to Order

Name	Pressure Ratio ¹	Discharge/Stroke		Air or Hydraulic Input Pressure ²		Part #
		Minimum	Maximum	Minimum	Maximum	
TP Lubricator	7:1	0.57cc (0.035 cu. in.)	2.8cc (0.170 cu. in.)	200 psi	500 psi	TP222C
	18:1	0.25cc (0.015 cu. in.)	1.1cc (0.068 cu. in.)	60 psi	200 psi	TP121C
	18:1	0.57cc (0.035 cu. in.)	2.8cc (0.170 cu. in.)	60 psi	200 psi	TP231C
	50:1	0.25cc (0.015 cu. in.)	1.1cc (0.068 cu. in.)	30 psi	50 psi	TP131C

¹ Pressure ratios decrease at lower operating pressures – will increase slightly (up to 10%) at higher operating pressures.

² When using pump input pressures that generate pump output pressures over 3000 psi use rupture disc indicator (part #10412PR) in the pump port to prevent hazardous over pressurizing of lube system.

When ordering, specify by name, description and part number, e.g. TP Lubricator, 7:1, Part #TP222C.

BIJUR DELIMON INTERNATIONAL

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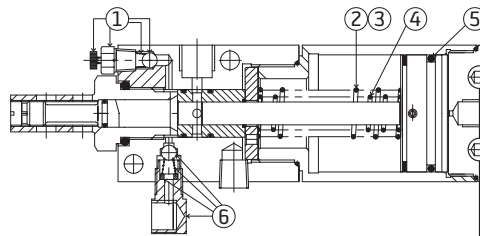
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Morrisville, NC 27560

Service Parts

Item	Description	Part #
1	Air vent assembly	53767
2	Spring (TP131C, TP231C)	30613
3	Spring (TP222C)	51283
4	Spring	30612
5	Seal kit*	53765
6	Outlet & check assembly	53766

* Universal seal kit contains all soft seals for each pump.



* Use spanner wrench when installing tube fitting, etc.

Measurements shown in inches.

ATTENTION

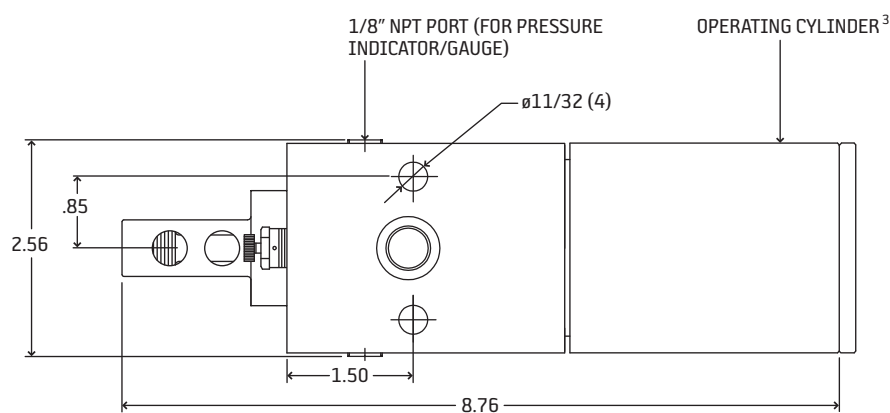
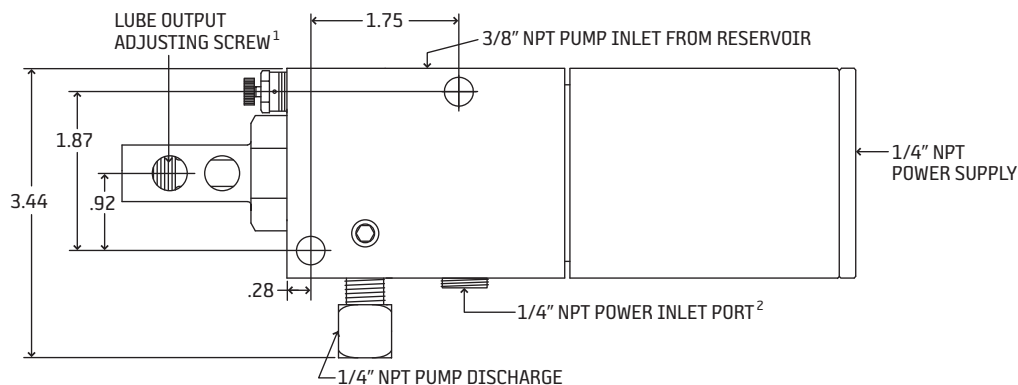
¹ Remove retainer screw to make adjustment.

TP1XX= .002 cu. in. per turn
TP2XX= .007 cu. in. per turn

² For double acting series 2 pumps. Plug with vented plug for series 1 pumps.

³ TP13 and TP23 have 2-1/2 round operating cylinder as shown. All others have 2" HEX operating cylinder.

Dimensional Schematics



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