PRESSURE AND FLOW REGULATING VALVE

BURNER PUMPS

Series ITRP



CHARACTERISTICS

Applications:

• Light and heavy oil

OIL

- Oil burners with spill-back nozzles.
- Adjustment 5-25 bar.
- Capacity up to 2500 l/h.

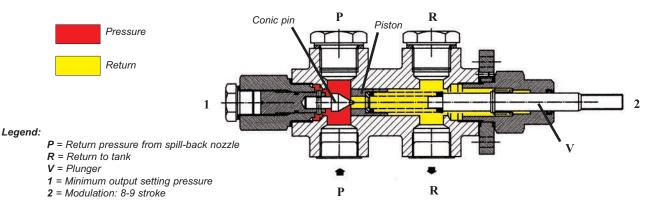
ITRP valve are designed to control pressure and flow on a modulating oil burner. The oil pressure varies proportionally to plunger movement.

FUNCTION

ITRP valve works between two different pressure values. The minimum pressure value is set by the minimum output setting pressure screw under the plug 1; it is suggested a value around 6 bar because this is the minimum rate to have an acceptable pulverization. The maximum pressure value is set by the plunger stroke "V" and the modulation is obtained with the movement of the piston in-out.

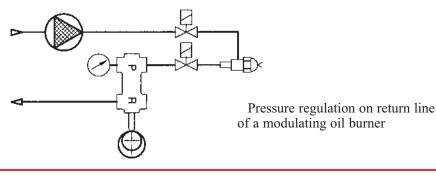
The valve also control the flow in the following way: the higher pressure in the valve has, as consequences, the less flow through it and also the lower pressure in the valve is, the higher flow through it.

On the other side in the nozzle return line the higher pressure has like consequence the more oil pulverized in the nozzle.



INSTALLATION NOTES

Spill-back nozzle



TECHNICAL DATA

ITRP 3/8"

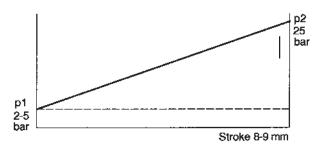
Viscosity range	2 - 800 cSt
Pressure range Weight	5 - 25 bar 1,5 kg
Max oil temperature	1,5 Kg 150°C
Max flow rate	1000 l/h
Factory settings	min. pressure

ITRP 3/4"

Viscosity range Pressure range Weight Max oil temperature Max flow rate Factory settings

2 - 800 cSt
5 - 25 bar
2,3 kg
150°C
2500 l/h
min. pressure

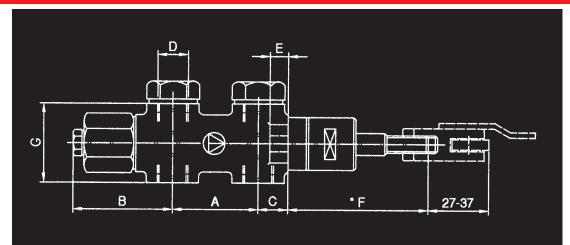




SERIES	PRES	STROKE		
ITRP	p1	p2	8 - 9 mm	
	2-5 bar	25 bar	8 - 9 11111	

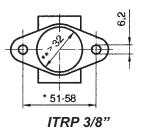
The oil pressure varies proportionally to plunger movement.

DIMENSIONS



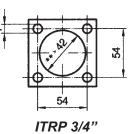
* On request 51 mm or58 mm ** Prearranged hole





INF 3/0

BRACKET



SERIES	MAX FLOW RATE	DIMENSIONS						
	l/h	Α	В	С	D	Е	F*	G
ITRP 3/8"	1.000	55	71	16	G 3/8	10	82	52
ITRP 3/4"	2.500	63	76	43	G 3/4	10	72	83
ITRP 3/4"L	3.500	63	76	43	G 3/4	10	72	83

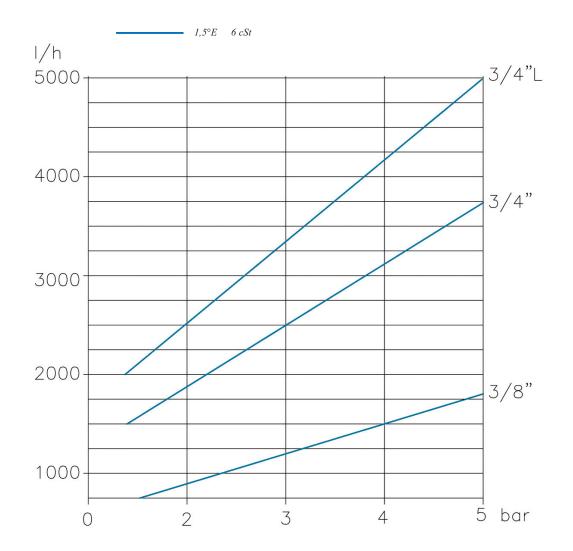
* F = dipending on regulation

PRESSURE-CAPACITY DIAGRAM

Regulator's capacity with minimum output setting pressure depends on adjustment of the conic pin. The diagram is obtained with an intermediate setting.



Avoid a piston stroke higher than 10mm. In this peculiar case with a high value of minimum output setting pressure set at high value can cause the block of the piston - conic pin and break the pin.



IDENTIFICATION

