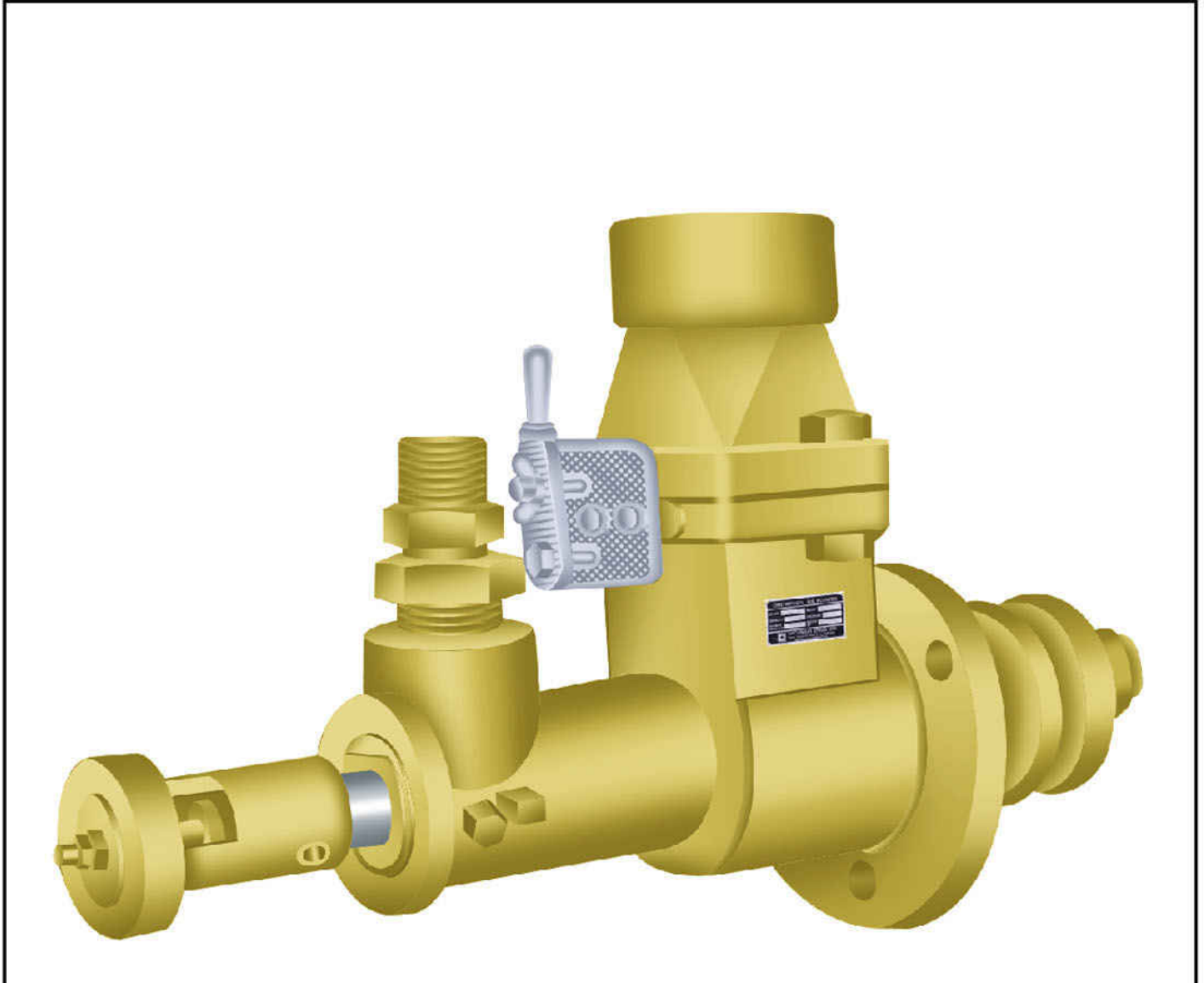


LOW AIR PRESSURE



- SPECIALLY DESIGNED FOR USING FURNACE OIL
- SUITABLE FOR ALL CLASSES OF LIQUID FUELS
- COMPLETE WITH OIL AND AIR REGULATING VALVES
- FUEL SUPPLY BY GRAVITY FEED OR PUMPING SYSTEM
- WORK WITH AIR PRESSURE OF 16" TO 24" WG
- IDEALLY SUITABLE FOR INDUSTRIAL HEAT TREATMENT FURNACES, MELTING FURNACES, CORE & MOULD DRYING OVENS, TEA DRIERS STOVES, LADLE HEATING, BRICK KILNS SAND DRIERS, BITUMAN IND.,HOT MIX PLANT ETC.....
- Low air pressure oil / gas / dual fuel burners are excellent for high temperature furnaces for steel plants, rolling mills, non ferrous foundries, rotary furnaces, glass and silicate industry, ceramic & refractory furnaces and for many more applications. They are available with several added instruments for automatic operations.
- Capacity : 10 to 300 LPH (100 to 3000 KW)

OIL BURNER

CHARACTERISTICS AND SALIENT FEATURES :

- Low Air Pressure burners are basically designed to withstand rough handling for operation and maintenance.

The burner works on the principle of fuel oil mixing with air inside burner and being atomised at the same low pressure air. Furnace temperature and flame are adjustable and easy control at the turn of a knob.

These burners provide efficient combustion ratios from very lean to very rich mixtures and also a high CO₂ content fuel gases. They have been used widely in Boilers, Industrial Furnaces, Kilns etc., etc. and have given excellent service.

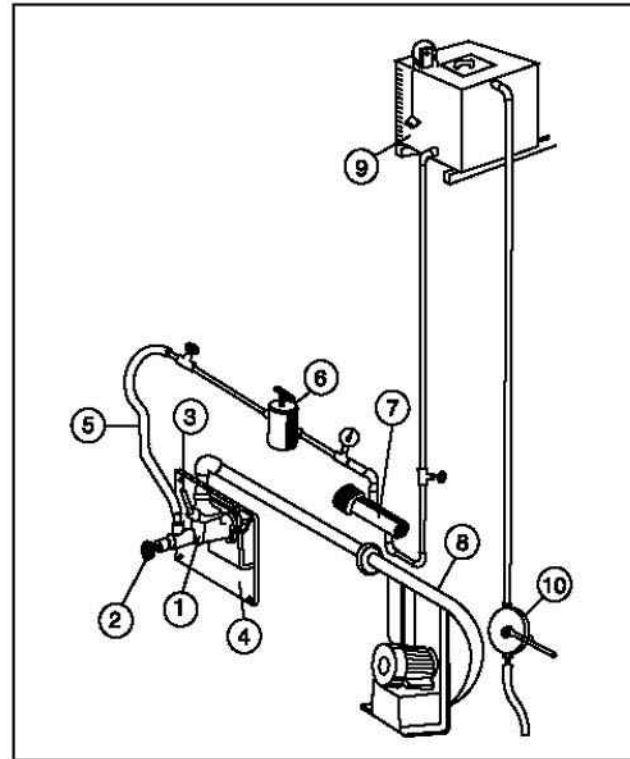
Oil is supplied to the burner by a pump or by gravity feed system pressure of 0.5-0.85 Kg/Cm²g. (i.e. lbs per sq.inch) The atomising air provided by a centrifugal air blower pressure of 500-750 mm w.g. (i.e. 20" - 30")

Classes of liquid fuels can however heavy oils e.g. furnace oil require to be preheated to bring down viscosity. For proper atomization of fuel the viscosity of furnace oil should be around 80-100 cSt. Red wood the burner.

- Output of burner is adjusted by closing oil regulating hand corresponding adjustments are on the air valve. The length of flame can be easily adjusted by the swirler flap provided in burner.

CONSTRUCTIONAL FEATURES :

- 1) The body is made of close grained cast iron and is capable of withstanding shocks and despite its sturdy construction the weight is less.
- 2) The atomizing head is stationary and is capable of being removed from the burner without necessity of any disconnection in the air piping.
- 3) The internal parts are precision machined.
- 4) Provision is made in the burner for a substantial area of flow for both oil and air so that there is the least possible resistance because of its streamlined design. This also avoids clogging and minimises carbon build up.



- | | |
|-------------------------|-------------------------|
| 1. BURNER BODY | 6. OIL FILTER |
| 2. OIL CONTROL VALVE | 7. OIL PREHEATER |
| 3. AIR CONTROL VALVE | 8. MOTORIZED AIR BLOWER |
| 4. FRONT MOUNTING PLATE | 9. OIL SERVICE TANK |
| 5. FLEXIBLE PIPING | 10. HAND PUMP |

ENSURE OPTIMUM ATOMIZATION AND EFFICIENT COMBUSTION

BURNER CAPACITY

Size of Burner	Oil consumption in lit/hrs	Oil connection	Air connection	H.P. of Blowers	Blower Capacity M ³ /min	Total pressure in MM WG	Oil Preheater
LAP - 00	2-6.5	3/4" BSP	1" BSP	1 HP	4.5	500	1 KW
LAP - 0	4-11	3/4" BSP	1-1/2" BSP	2 HP	7	550	2 KW
LAP - 1	6-28	3/4" BSP	2" BSP	3 HP	10	600	3 KW
LAP - 2	21-57	1-1/4" BSP	3" BSP	5 HP	15.5	600	4.5 KW
LAP - 4	32-110	1-1/4" BSP	4" BSP	7.5 HP	22.5	700	6 KW
LAP - 6							



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