MICRO/SENSITROL OIL VALVES

SAIFEE

COMBUSTION EQUIPMENT

MICRO/SENSITROL OIL VALVES are precision built factory-calibrated valves for manual or motorized control of oil flow to burners.

Micro/Sensitrols are manual valves used as limiting orifices in setting oil/air ratio and as tight shutoff valves to prevent oil dribbling into burners during shutdown. An additional shutoff valve in the line which permits shutting off the burner without disturbing the Micro/Sensitrol's ratio setting position is recommended.

Micro/Sensitrol valves have an adjustable detent mechanism that provides memory for desired valve operating position. A spring-loaded steel ball fits into a hollow in an adjustable collar, whose position is secured by a setscrew.

The handle can be pushed past the detent position easily to temporarily open the valve wide for light-off or clean-out.
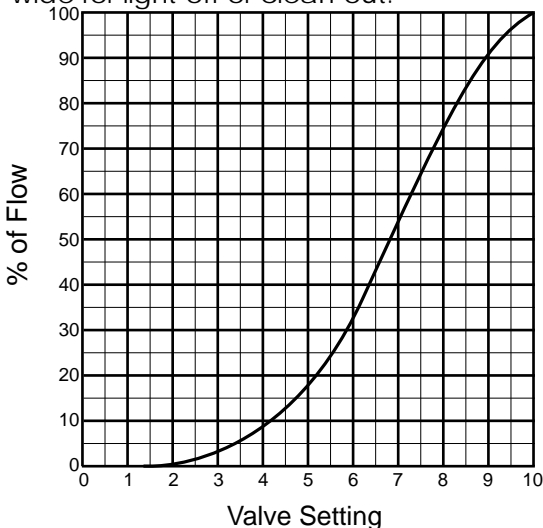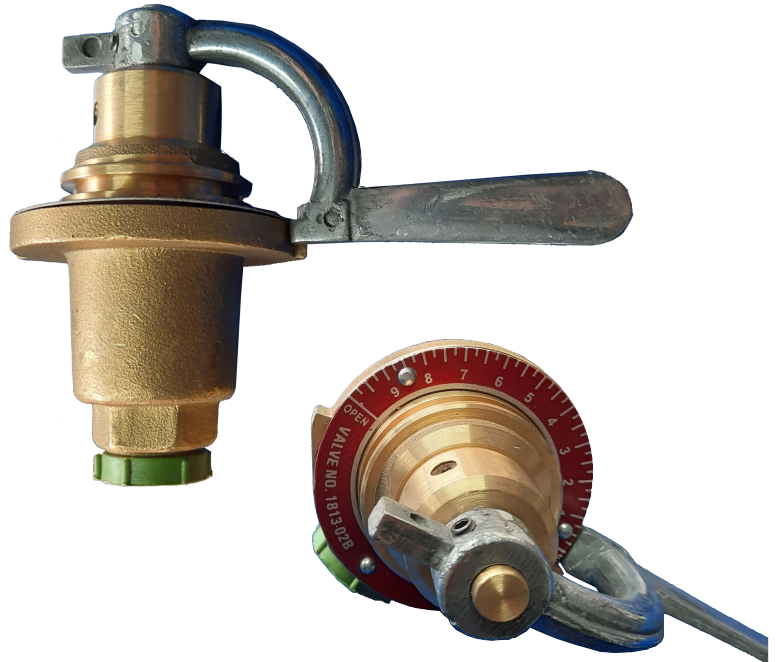

Figure 1. Typical oil flow vs. valve handle position at constant pressure drop. This generalized curve will not predict exact flow rates at handle positions other than #7, so do not use chart to set burner ratios.

CAPACITY

These Valves are factory calibrated for rated flow at No.7 indicator position and can be used for metering at that setting only.

Valve Capacities at #7 Indicator Position
10 psi Pressure Drop

	VALVE SIZE DESIGNATION					
	-03	-02A	-02B	-02C	-02D	-01
LPH #2 OIL (40 SSU) AT 10 PSI ΔP	11	30	63	122	203	518
DIAL COLOR	Black	Red	Blue	Green	Brown	White

Flow at #10 (wide open) position is about twice the #7 position capacity. Shutoff occurs between positions #1 and #2 (see Figure 1).

Capacities are listed for 40 SSU #2 oil. They are somewhat less for higher viscosity oils but well within suitable ranges for oil burners (varying less than 10% from figures shown).