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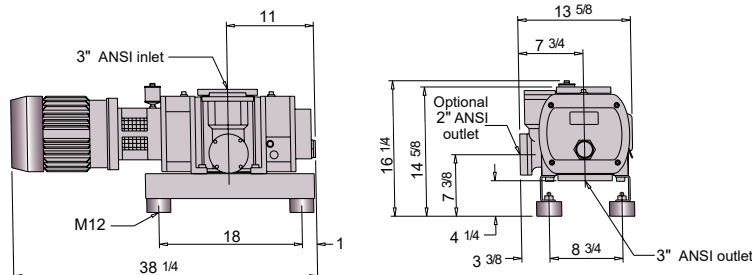
# Vacuum Boosters

## TMS RL500-1000

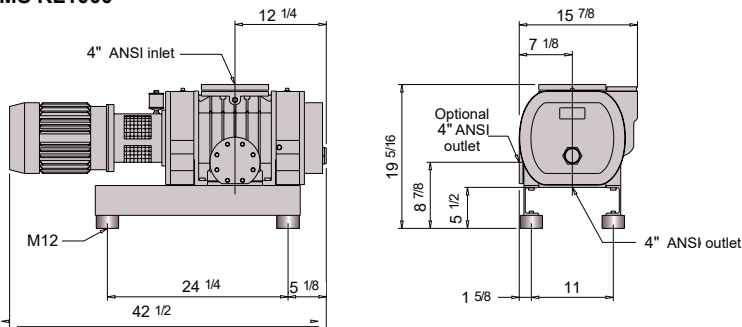
### Dimensional Drawing

All dimensions in inches unless otherwise noted.

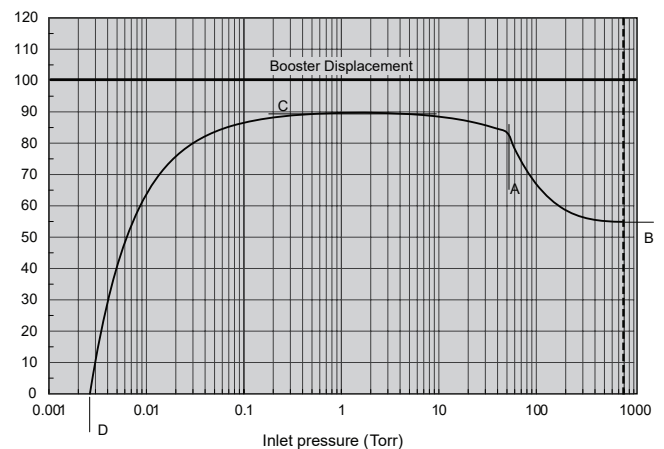
#### TMS RL500



#### TMS RL1000



### Booster/Pump Characteristic Curve



Actual performance curve will depend on the booster model, the backing pump performance curve, and additional factors.

- A = Bypass valve cracking point - Dependent on differential pressure of valve and the volumetric ratio ( $V_1/V_2$ ) (booster/pump).
- B = Flow @ atmospheric pressure - Dependent primarily on backing pump capacity.
- C = Nominal flow of booster - Dependent primarily on the displacement of the booster and the capacity of the backing pump selected
- D = Ultimate pressure - Dependent primarily on the ultimate pressure of the vacuum pump selected and the volumetric ratio.

Consult the factory for actual curve and application of vacuum boosters.

| Technical Data                | UOM      | TMS RL500            | TMS RL1000           |
|-------------------------------|----------|----------------------|----------------------|
| Nominal Displacement          | CFM      | 353                  | 765                  |
| Maximum Leak Rate             | Torr-CFM | $2.8 \times 10^{-2}$ | $2.8 \times 10^{-2}$ |
| Maximum Differential Pressure | Torr     | 40                   | 32                   |
| Motor Size                    | HP       | 3                    | 5                    |
| Rotational Speed              | RPM      | 3600                 | 3600                 |
| Approximate Module Weight     | Lbs      | 315                  | 520                  |
| Oil Capacity                  | Qt       | 1.25                 | 3.2                  |

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of +/- 10%.



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