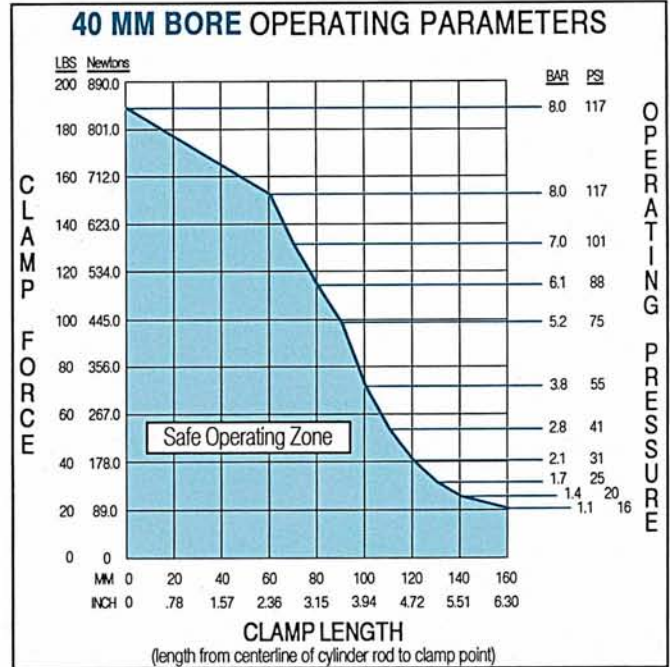
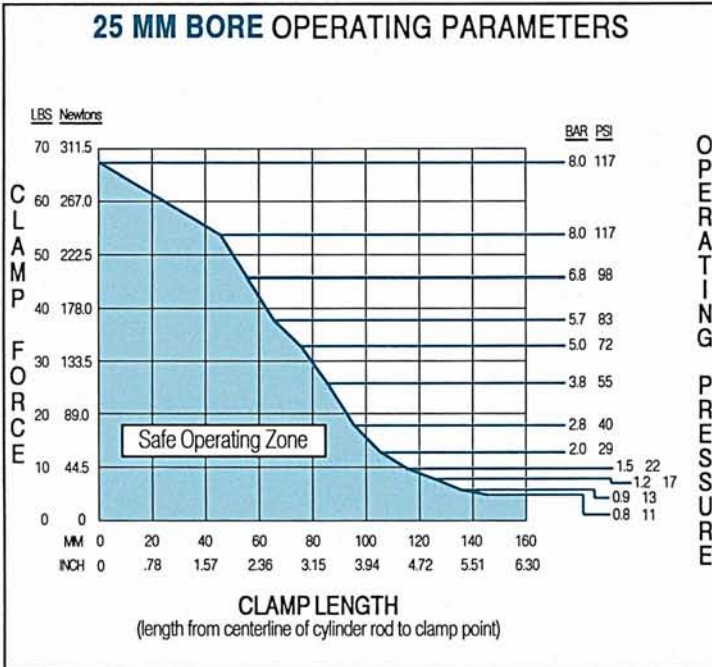
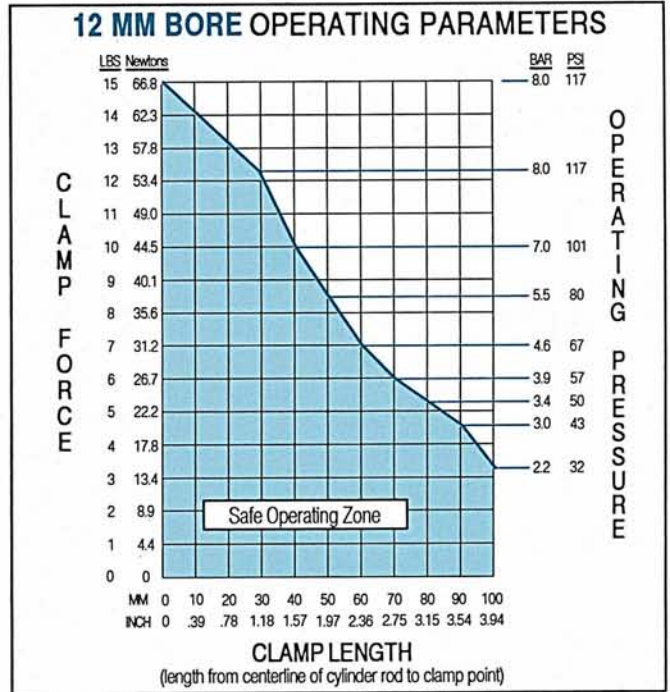


ENGINEERING DATA

1. THEORETICAL CLAMP FORCE:
(with no clamp arm) = Pull Piston Area X Pressure
2. Use these charts to determine maximum operating pressures for clamp arm lengths. Operating pressures and arm lengths on or below the curves are safe operating zones.
3. As a result of friction and cantilevered clamping action, output force is not a straight line. Use these charts to determine safe operating zones for required clamp force.
4. If using a clamp arm more than 1.5 times dimension "A" of our standard "CA" option, flow controls must be used to reduce inertia during the turn stroke.
5. Double clamp arm, option "CAD", can be used to clamp two parts with one cylinder. However, clamp force is half of a single clamp arm. If using a double clamp arm longer than dimension "A" of our standard "CAD", flow controls must be used to reduce inertia during the turn stroke.



HOW TO ORDER - Example: ATCL25 x 30-CAD-TBE

A MAGNETIC PISTON	◆ TCL STYLE	25 BORE	x	30 STROKE	CAD OPTION	US OPTION																																																																								
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◆ Must specify rotation for initial assembly. Cam is universal and may be converted after received.

CONVERSION FORMULAS
 BAR to PSI: 1 PSI = .069 BAR Example: 25 PSI x .069 = 1.7 BAR or 10 BAR x .069 = 145 PSI
 Fractional Inch to Millimeters: 1 inch = 25.4mm and 1mm + 25.4 = 0.03937" Example: 12mm + 25.4 = .47" or .75" x 25.4 = 19.05mm

* All tapped holes and ports converted to inches. See conversions on page 2