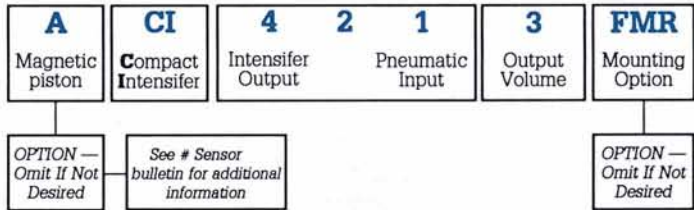


BASIC INFORMATION

Explanation Of Part Numbers:

EXAMPLE: ACI-421-3-FMR



FORMULAS:

Intensifier Output Ratio:

$$\frac{\text{ACTUATOR PISTON AREA (IN.}^2\text{)}}{\text{OIL CHAMBER AREA (IN.}^2\text{)}} = \text{RATIO}$$

RATIO MULTIPLIED BY PSI = OUTPUT PRESSURE

Example:

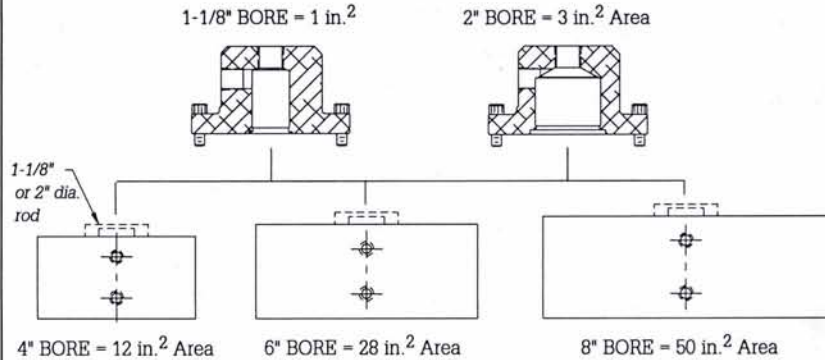
$$\begin{aligned} 4'' \text{ Piston} &= \frac{12\text{in.}^2 \text{ area}}{3\text{in.}^2 \text{ area}} = \frac{4}{1} = 4 : 1 \text{ ratio or } 421 \\ 4 \text{ (force)} \times 100 \text{ (psi)} &= 400 \text{ psi OUTPUT} \end{aligned}$$

Output Volume (in.³)

OIL CHAMBER AREA (IN.²) MULTIPLIED BY STROKE OF ACTUATOR (IN.) = VOLUME (IN.³)

Example: 3 in.² x 1 in. = 3 in.³ of VOLUME

Oil Chambers



Large Pneumatic Actuators (NOTE: Available in 1" and 3" stroke)

Pneumatic Input: Clean, dry or lubricated compressed air from 3 PSI up to maximum rating. Maximum input ratio is based on NOT exceeding 5000 PSI output. Consult the factory when using compressed gases other than "shop air".

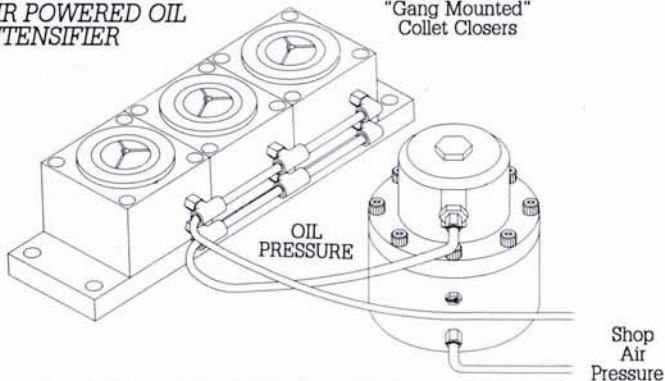
Hydraulic Output: We recommend a non-detergent medium weight oil for best results. The pressure seal is urethane so fluids must be compatible. The maximum pressure with the urethane seal is 5000 PSI.

☆ Important: Viton is offered as an optional seal for high temperature or unique fluid compatibility, although maximum pressure is only 2000 PSI

TYPICAL APPLICATION

AIR POWERED OIL INTENSIFIER

"Gang Mounted" Collet Closers



SPECIALS WELCOME!

- ☆ Corrosion Resistant Stainless Steel
- ☆ Special Volume or Output Ratios
- ☆ Miniature and Sub-miniature Sizes from 1/2" Piston Diameter
- ☆ SAE "O-ring" Pressure Ports
- ☆ Seal Materials



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