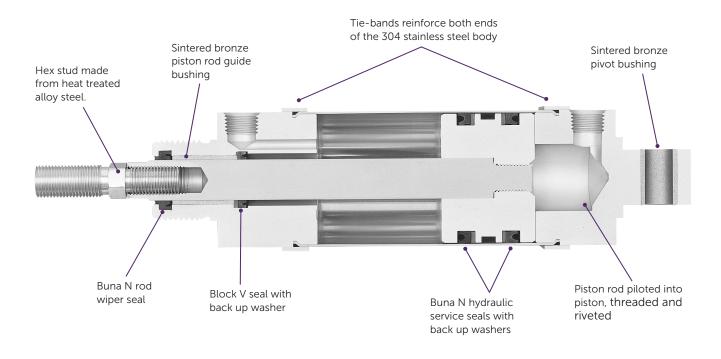


500 Series Light Pressure Hydraulics



Materials of Construction

- Hex stud made from heat treated alloy steel. In case of failure due to overload, the hexagon portion will remain in the rod and can be easily removed
- Tie-bands reinforce both ends of type 304 stainless steel body rolled in a groove on the periphery of each end cap doubling joint strength
- Buna N rod wiper seal assures dry drip free piston rod
- Piston rod is hard chrome plated
- High strength aluminum alloy end caps and piston
- Filled PTFE bearing
- Sintered bronze piston rod guide bushing

Operating Pressure

500 PSI HYD

Performance Options

- Extra extension (EE), per inch of extension:
- Ports rotated 90° (K) (no charge)
- Magnet (prefix M) Example: HM-096-DZ
 - 4" stroke or greater required
 - Overall length increases by 0.25"

Bore Sizes

1-1/16", 1-1/2', 2"

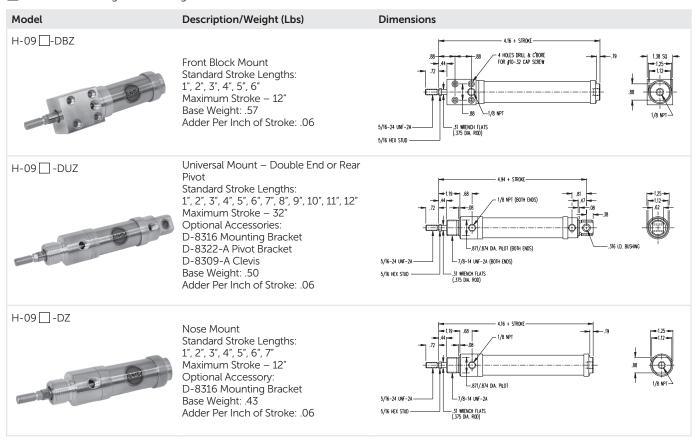
- Fluoroelastomer seals (V)
 - Specify for compatibility



1-1/16" Bore Hydraulic Cylinders

Push Force = $.886 \times PSI$ Pull Force = $.776 \times PSI$

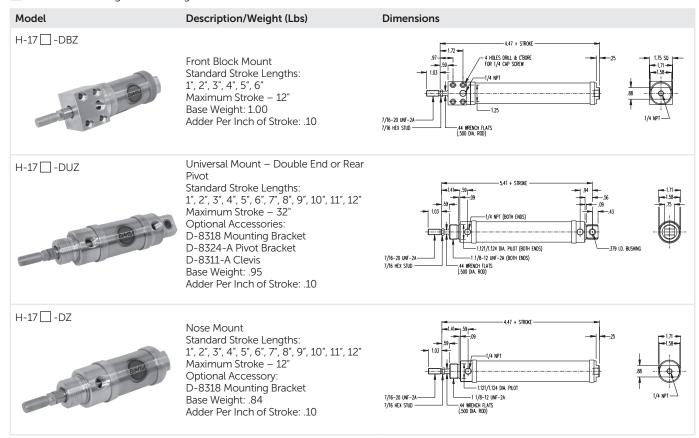
☐ Enter Stroke Length as 3rd Digit



1-1/2" Bore Hydraulic Cylinders

Push Force = $1.77 \times PSI$ Pull Force = $1.57 \times PSI$

☐ Enter Stroke Length as 3rd Digit

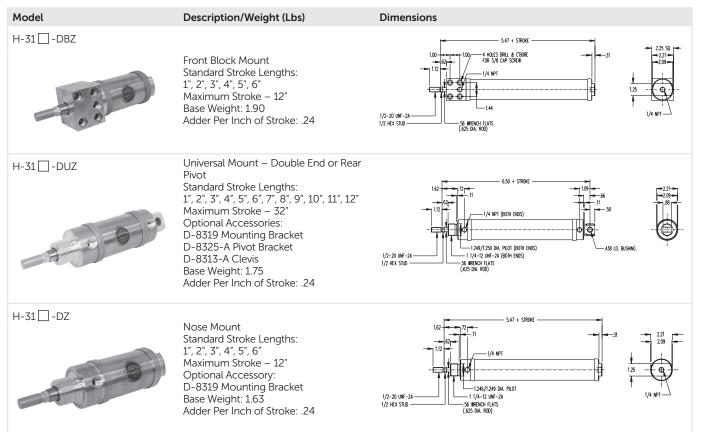




2" Bore Hydraulic Cylinders

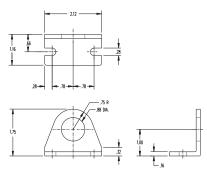
Push Force = 3.14 x PSI Pull Force = 2.83 x PSI

☐ Enter Stroke Length as 3rd Digit



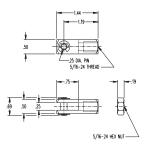
1-1/16" Bore Accessories

D-8316



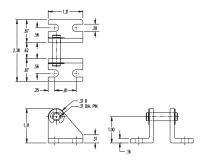
Mounting Bracket

D-8309-A



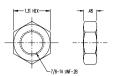
Rod Clevis

D-8322-A



Pivot Brackets

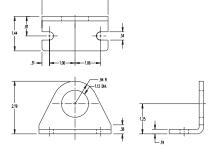
D-2545



Mounting Nut

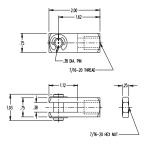
1-1/2" Bore Accessories

D-8318



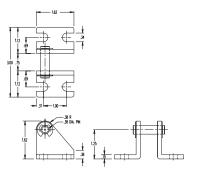
Mounting Bracket

D-8311-A



Rod Clevis

D-8324-A



Pivot Brackets

D-8484

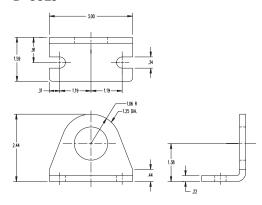


Mounting Nut



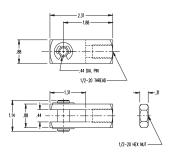
2" Bore Accessories

D-8319



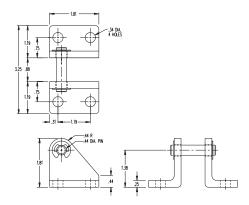
Mounting Bracket

D-8313-A



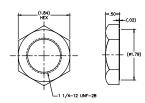
Rod Clevis

D-8325-A



Pivot Brackets

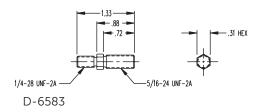
D-508



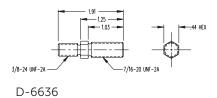
Mounting Nut

Hex Stud Accessory

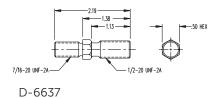
1-1/16" Bore



1-1/2" Bore



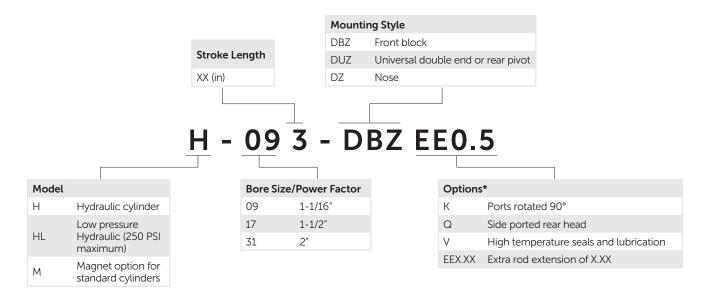
2" Bore





The model number of all Original Line hydraulic actuators consists of an alphanumeric cluster designating product type, bore size, stroke length, mounting styles, and other optional components that together make up the complete part number to use when ordering. Use the ordering information below to build a valid part number.

An example of a double-acting 500 Series hydraulic unit with a front block, 1-1/16" bore, 3" stroke, and additional options is shown below.



Approximate Power Factors		
1-1/16"	=	0.90
1-1/2"	=	1.7
2"	=	3.10

IMI Bimba has made sizing a cylinder as easy as knowing the model number. Each base model number is developed by calculating the area of the cylinder bore. This area, or Power Factor, will provide the force the cylinder will exert when multiplied by the airline pressure.

FORCE = Airline Pressure x Piston Area

PISTON AREA = IMI Bimba Power Factor

FORCE = Airline Pressure x IMI Bimba Power Factor