







Pump Selection

▼ HAND PUMP AND SINGLE-ACTING CYLINDER MATCHING CHART

Capacity ▶ ▼ Stroke	5 t	10 t	15 t	25 t	30 t	50 t	60 t	75 t	100 t	150 t	
< 1.00"											
1.00"											
2.00"											
3.00"											
4.00"											
5.00"											
6.00"											
7.00"											
8.00"											
9.00"											
10.00"											
12.00"											
13.00"											
14.00"											
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Note: Selection based on oil capacity requirements of cylinders.

▼ POWER PUMP SELECTION CHART

Flow*	Low (10 to 20 in ³ /min)		Medium (30 to 120 in ³ /min)		High (120 to 463 in ³ /min)
Reservoir Oil Capacity	0.5-1 gal	1.5 gal	1.2-10 gal	2.5-10 gal	25 gal
Duty Cycle**	Intermittent	Continuous	Intermittent	Continuous	Both
Portable/Stationary***	Portable	Stationary	Portable	Stationary	Stationary
Recommended Series	Economy	Submerged	Titan	Hushh	8000 Series
					
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- * Flow
- Determined by motor size
 - Directly affects electrical power requirements
 - Determines cylinder or tool speed

- ** Duty Cycle
- Continuous would be applications requiring more than one hour of continuous pump use
 - Intermittent would be used less than one hour of continuous pump use

- *** Portability
- | | |
|-------------------------------|----------------------------------|
| <u>Portable</u> | <u>Stationary</u> |
| • Ergonomic handles | • Mounting options |
| • Flexible power requirements | • Normally requires stable power |

Selection Worksheet



▼ Complete the following information to select the right products:

Cylinder Selection	Question:	Tips/help	Data	Model Number
	Total force required in tons:	Total load	<input type="text"/>	
	Number of cylinders required:	Number of lifting points	<input type="text"/>	
	Force per cylinder in tons:	Should be 80% of total cylinder cap.	<input type="text"/>	
	Stroke required:	Plunger travel	<input type="text"/>	
	Single or double acting (D/A):	D/A used when pull force is required, or retract speed is critical	<input type="text"/>	
	Type of plunger required:	Hollow or solid	<input type="text"/>	
	Collapsed height required:		<input type="text"/>	
	Optional saddle required:	Tilt, Grooved, Flat	<input type="text"/>	
	Cylinder base:	Improves stability	<input type="text"/>	
	Cylinder attachments: (RC-series)	Expanded functions	<input type="text"/>	
	Selected cylinder model:		<input type="text"/>	<input type="text"/>
	Including coupler model:		<input type="text"/>	

Pump Selection

The three most commonly selected pumps are hand pumps, electric pumps and air-driven pumps. Battery and gas powered pumps, however can be selected in the same way.

Available power source: Manual Electric Compressed Air Gasoline

Hand pump _____ Not for high cycle applications
Single or double acting operation Use 4-way valve for D/A applications
 Check speed chart on page 105 for number of strokes per inch

Selected hand pump:

Electric or Compressed Air pump

Need for portability:
Duty cycle: Intermittent or high
Required usable oil capacity: Intermittent = 1.2 x oil capacity
 high cycle = 2 x oil capacity
Available Voltage:
Lifting speed (Important/not important): Use speed chart on page 105
Type of control: Manual/remote pendant
Type of actuation/function: Advance/hold/retract
Accessories: Roll bar, Oil Filter kit, ...

Selected pump:

Including Coupler: Oil connection

System Components

Number of hoses and length required:

Selected Hoses:

Manifold or tee:		<input type="text"/>	<input type="text"/>
Extra hose per manifold (2):		<input type="text"/>	<input type="text"/>
Gauge (psi, lbs or tons scale):	Glycerine for high cycle	<input type="text"/>	<input type="text"/>
Gauge adapter:		<input type="text"/>	<input type="text"/>
Fittings:		<input type="text"/>	<input type="text"/>
Pressure Relief Safety Valve:		<input type="text"/>	<input type="text"/>
Load-holding Valve(s):		<input type="text"/>	<input type="text"/>
Hydraulic oil:		<input type="text"/>	<input type="text"/>