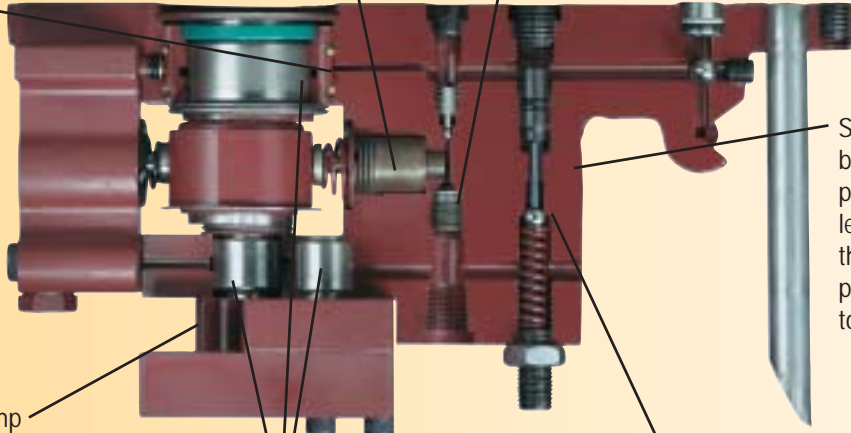


## CLYDESDALE TECHNOLOGY IS THE HEART OF ALL SIMPLEX PUMPS!

Only Simplex Clydesdale pumps incorporate an oiler system that sprays the upper unit with oil, and keeps critical components lubricated and running cool, especially when most of the reservoir oil is being used at the tool.

Sleeved piston bores allow easy replacement of precision components without replacing the entire pump body.

High pressure ball seats are designed as replaceable cartridges rather than machined into the body. Worn or damaged seats can be easily replaced without replacing the body.



Solid one piece pump body with internal flow paths eliminates potential leak points caused by threaded fittings, high pressure tubing and bolt together pump bodies.

High efficiency gear pump provides more first stage flow, and higher crossover pressures. Field proven gear pumps run cooler and last longer and are proven to provide years of trouble free service.

Four full size, full complement bearings add life & efficiency while contributing to cool & quiet running.

Unloading valve passes full power to the second stage at crossover. No power is lost holding relief valves open & less heat is generated.

### The Clydesdale Plus

### Power Pump Speed Selection Chart

Simplex pumps are the world's only 10,000 psi pumps to offer a new standard in pump construction and reliability. Close coupled motor and the one piece Clydesdale chassis combine to offer a rigid unit with minimal flex and wear characteristics. Traditional pumps consist of various components bolted together, and are more susceptible to internal leakage, overheating and expensive repair.

The Clydesdale chassis, field proven gear pumps, replaceable piston bores and ball seats, higher crossovers, and quality motors are just a few of the extras incorporated in all Simplex pumps.

Use the speed chart below and select the right size pump to obtain the cylinder speed you desire.

For multiple cylinder system speeds, divide the inches per minute by number of cylinders in the system.

Cylinder Capacity (Tons)	Inches Per Minute					
		10 Series	20 Series	40/70 Series	50 Series	60 Series
10	Loaded	9	9	24	45	76
	Unloaded	104	169	169	290	290
20/25	Loaded	4	4	10	20	33
	Unloaded	50	75	75	132	132
30	Loaded	3	3	8 1/2	16	26
	Unloaded	39	60	60	104	104
50/55	Loaded	2	2	5	9	15
	Unloaded	23	35	35	61	61
60/75	Loaded	1 1/2	1 1/2	3 1/2	6	10
	Unloaded	16	24	24	43	43
100	Loaded	1	1	3	5	8 1/2
	Unloaded	13	19	19	34	34
150	Loaded	1/2	1/2	1 3/4	3	5
	Unloaded	7	11	11	20	20
200	Loaded	3/8	3/8	1	2	4
	Unloaded	5	8	8	15	15



$$\frac{\text{Inches Per Minute}}{60} = \text{Cylinder Speed In Seconds}$$