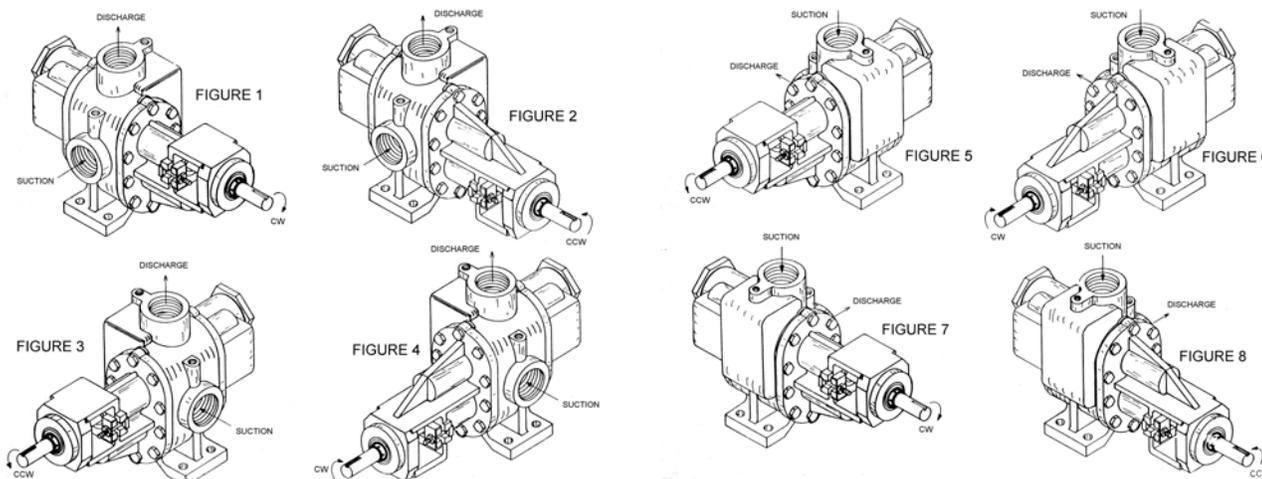
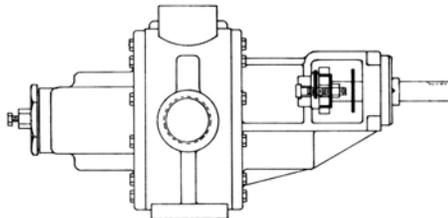




## PRODUCT BULLETIN MODEL GH HELICAL GEAR PUMP

These pumps operate smoothly and with equal efficiency in either direction of operation when the relief is in the proper position. They efficiently handle heavy, viscous materials such as asphalt, molasses, roofing compounds and printing inks; as well as fuel oils, gasolines and similar thin liquids.

Pumps are available in several materials of construction with or without relief valves. Pumps can be supplied with conventional packing or mechanical seal.



### MODEL GH SPECIFICATIONS

**Helical Gears:** Heat treated cast iron pumping gears are accurately machined for quiet, efficient operation and long life. The pumping gears are keyed to their shafts with a sliding fit and are easily replaced, if it becomes necessary. Accurate machining insures proper meshing, reduces friction and vibration. Gears can be constructed of bronze or stainless steel.

**Bearing Surfaces:** Bearing are special wear resistant, high lead bronze. Cast iron and carbon bearings are available. Four heavy duty sleeve bearings give positive support to pumping gears and insure long, efficient service. Bearing grooves allow circulation of the liquid being pumped for lubrication and control of bearing temperature. The outboard drive shaft bearing supports external radial loads and absorbs most thrust loads.

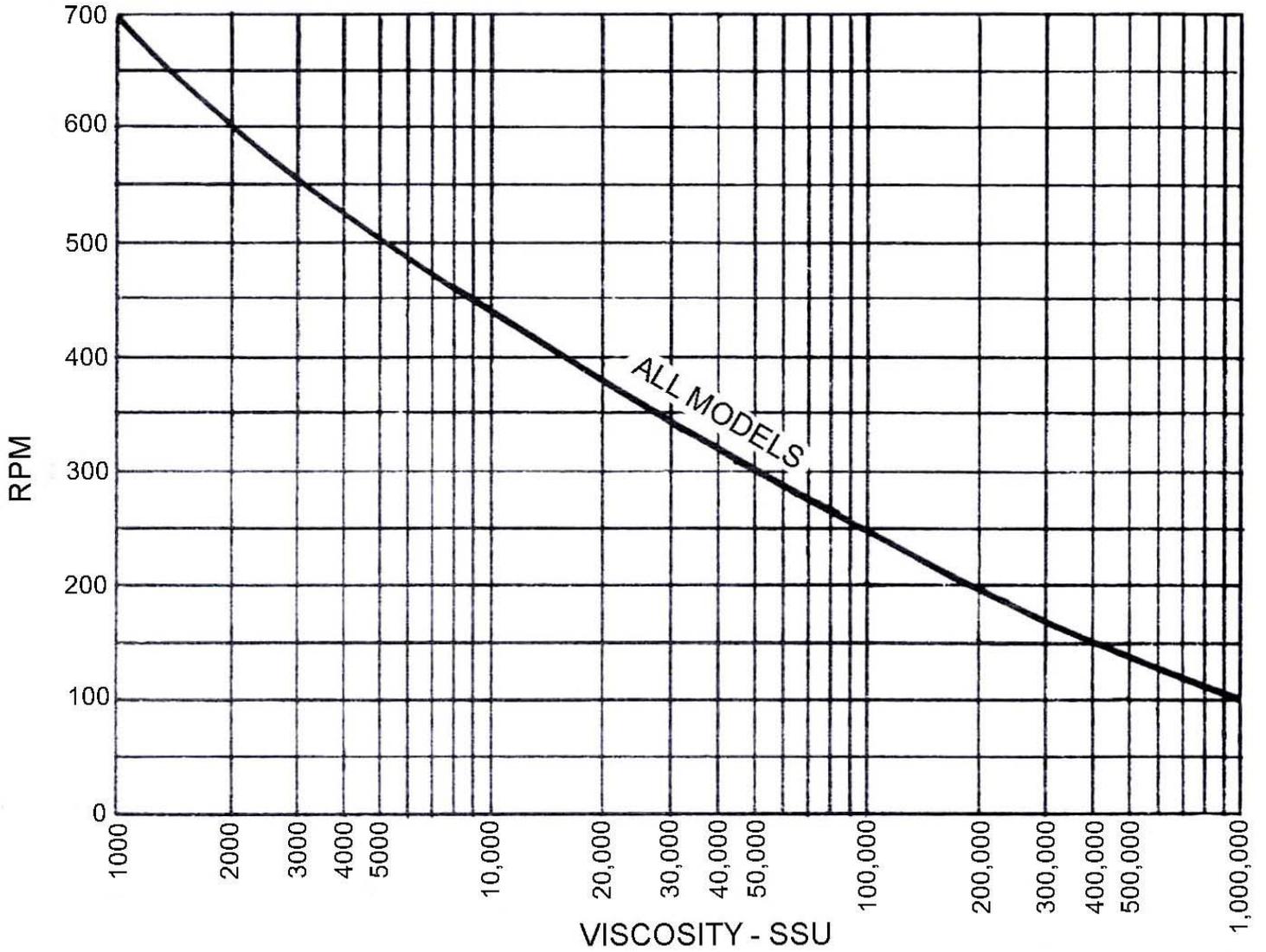
**Precision Ground Shafts:** The steel shafts are induction hardened in the bearing and packing areas and are precision ground to exacting standards for maximum life. Hardened stainless steel shafts are available.

**Pump Housing:** All castings are of high grade cast iron. Precise manufacturing tolerances provide minimum clearances for maximum pumping efficiency. Large, hardened steel dowel pins insure positive alignment between the faceplate, case and backplate.

**Stuffing Box/Seal Chamber:** The stuffing box is sized for a standard packing. An optional mechanical seal can be supplied upon request. The mechanical seal is constructed of a carbon rotary face, a silicon-carbide stationary face and buna elastomers standard.

**INDUSTRIAL**  
**PRODUCT BULLETIN**  
**MODEL GH HELICAL GEAR**  
 Crude Oil, Acids, Gasoline, Naptha, Petrochemical, Organic Fluids, Cargo Transfer, Asphalt, Molasses, Roofing Compounds, Printing Inks, Fuel Oil

NOTE: THE RPM VALUES ARE THE MAXIMUM RECOMMENDED FOR THE VARIOUS VISCOSITIES SHOWN WITH 14.7 PSIA AT THE PUMP INLET

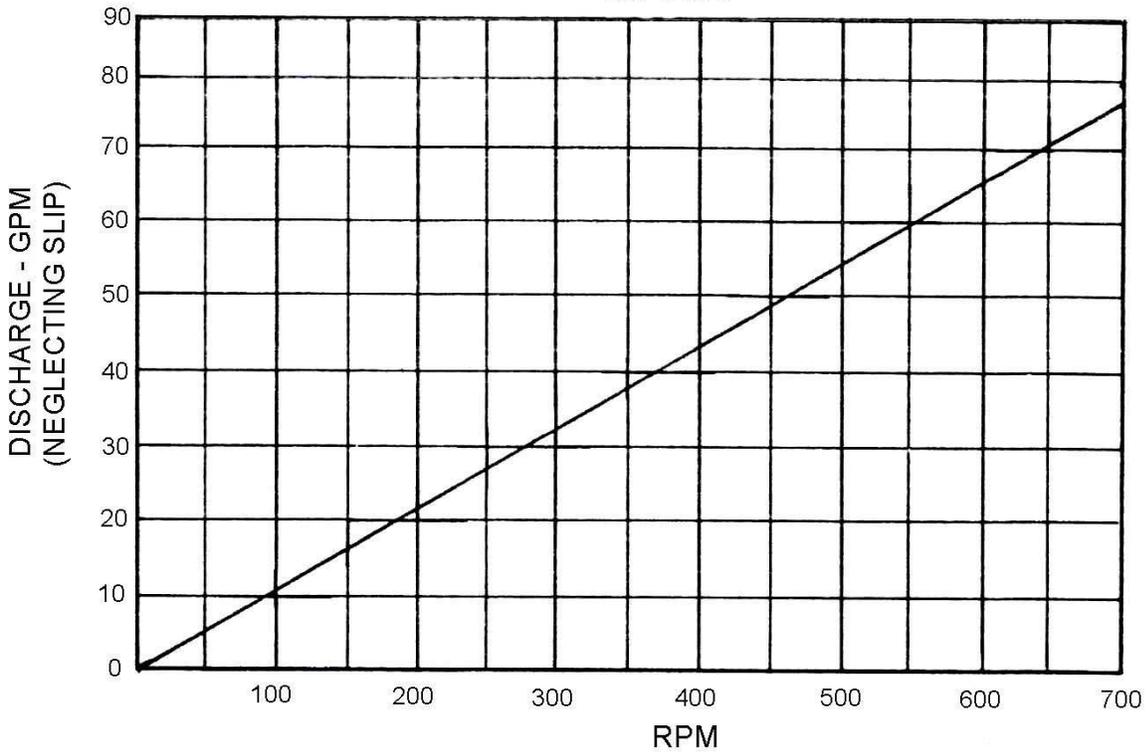


MODEL GH-11

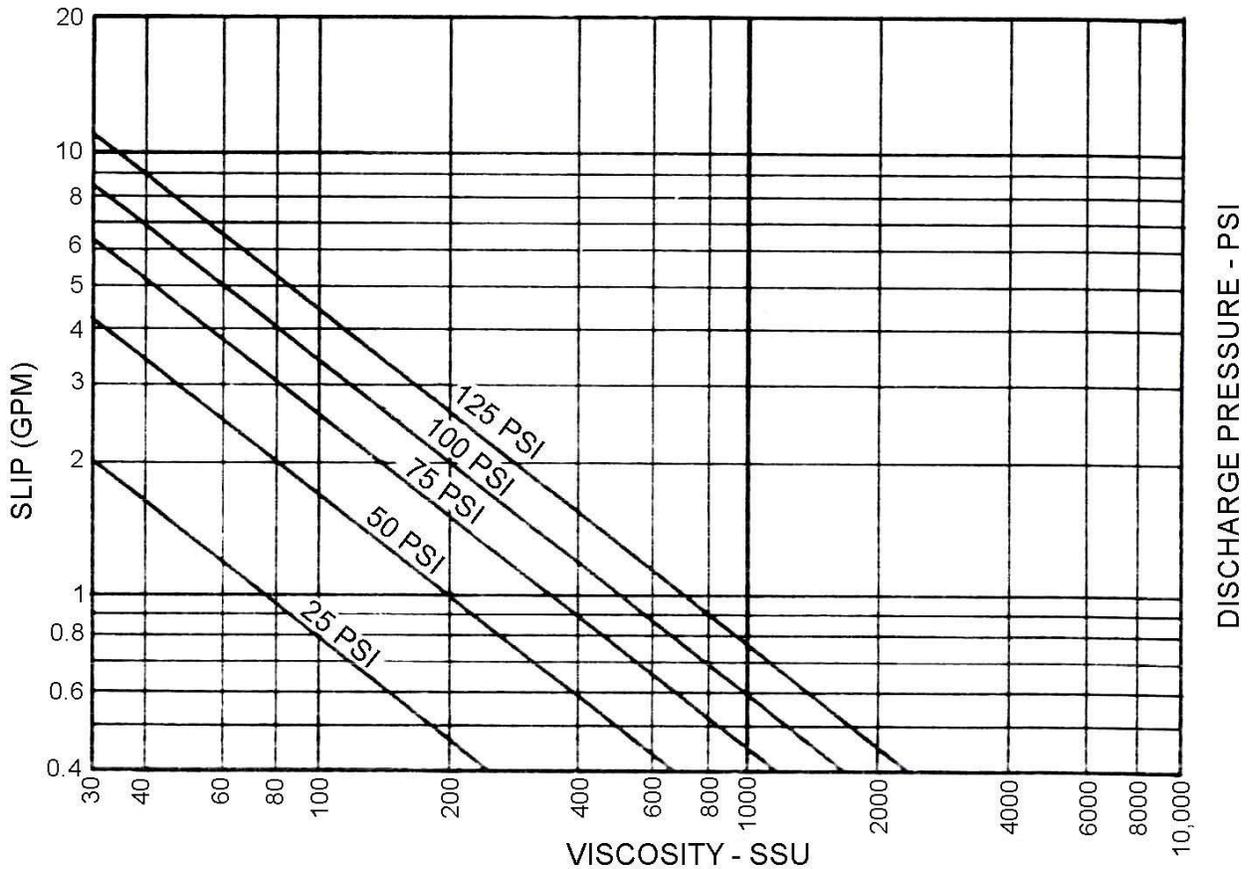
DELIVERY

ACTUAL DELIVERY IN GPM =  
GRAPH 1 - GRAPH 2

GRAPH 1



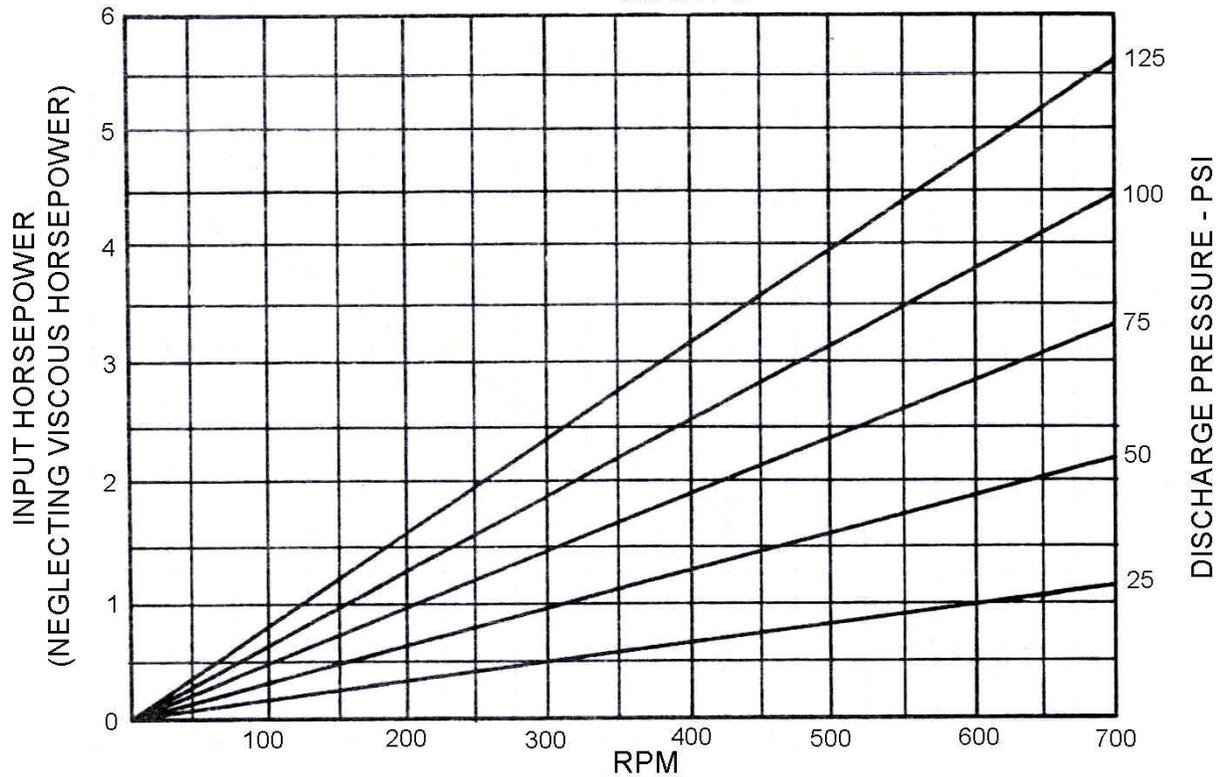
GRAPH 2



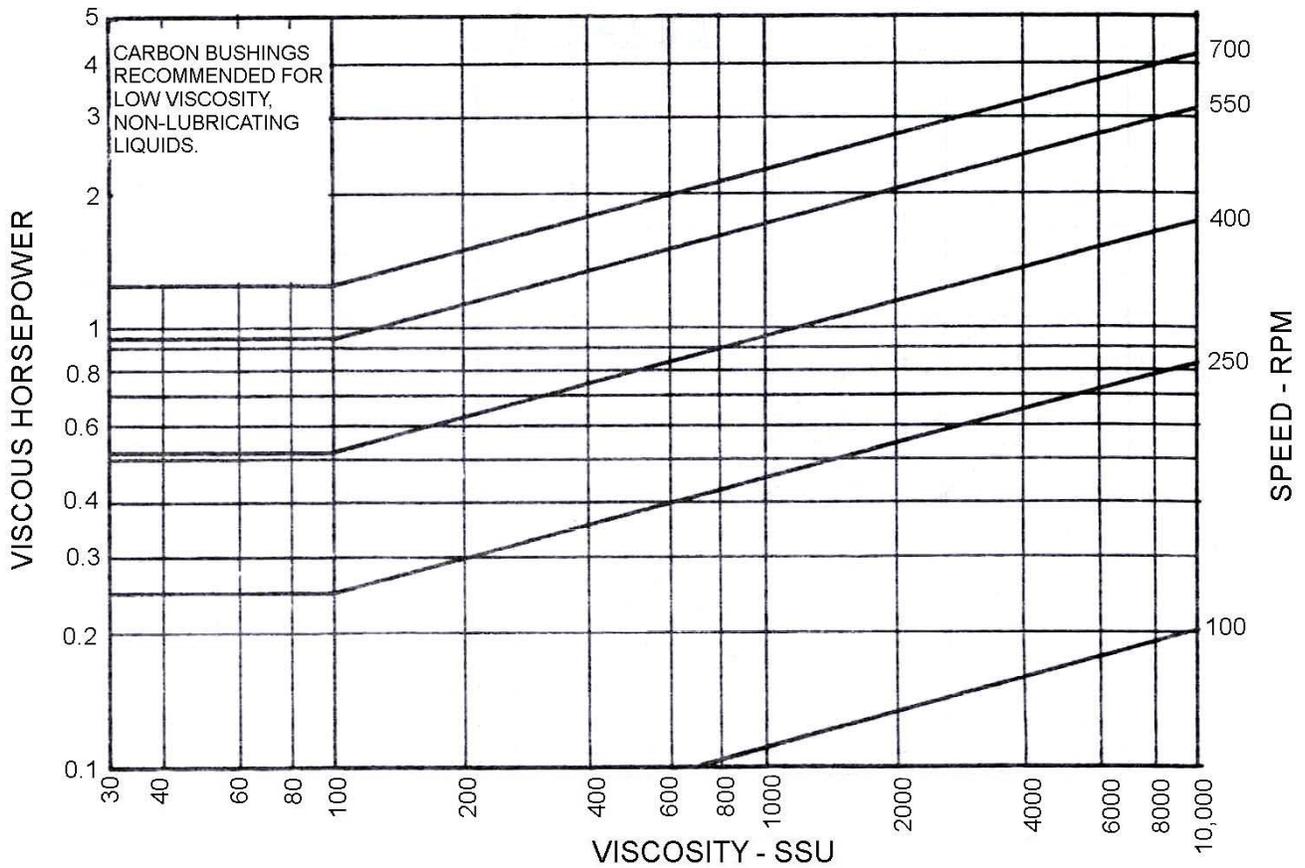
MODEL - GH11

INPUT HORSEPOWER  
GRAPH 3

TOTAL INPUT HORSEPOWER =  
GRAPH 3 + GRAPH 4



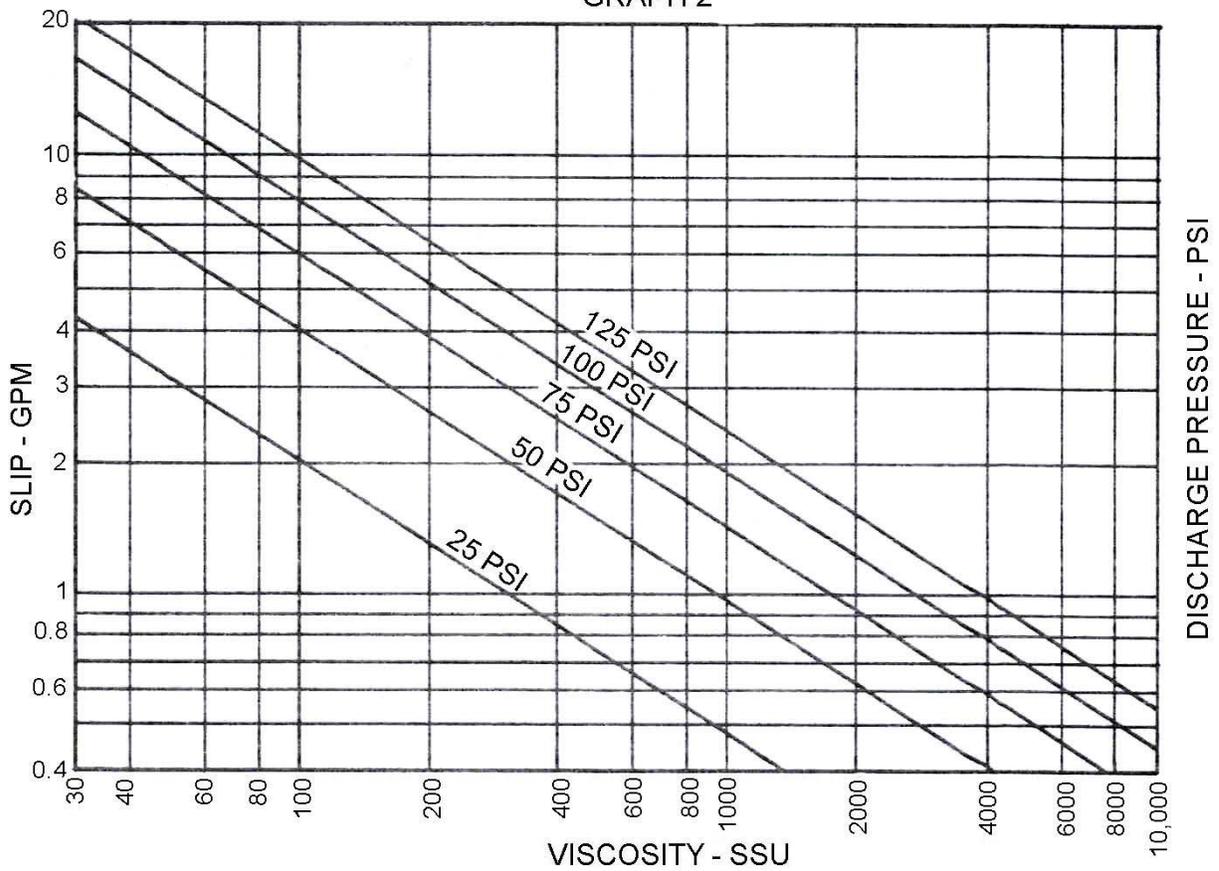
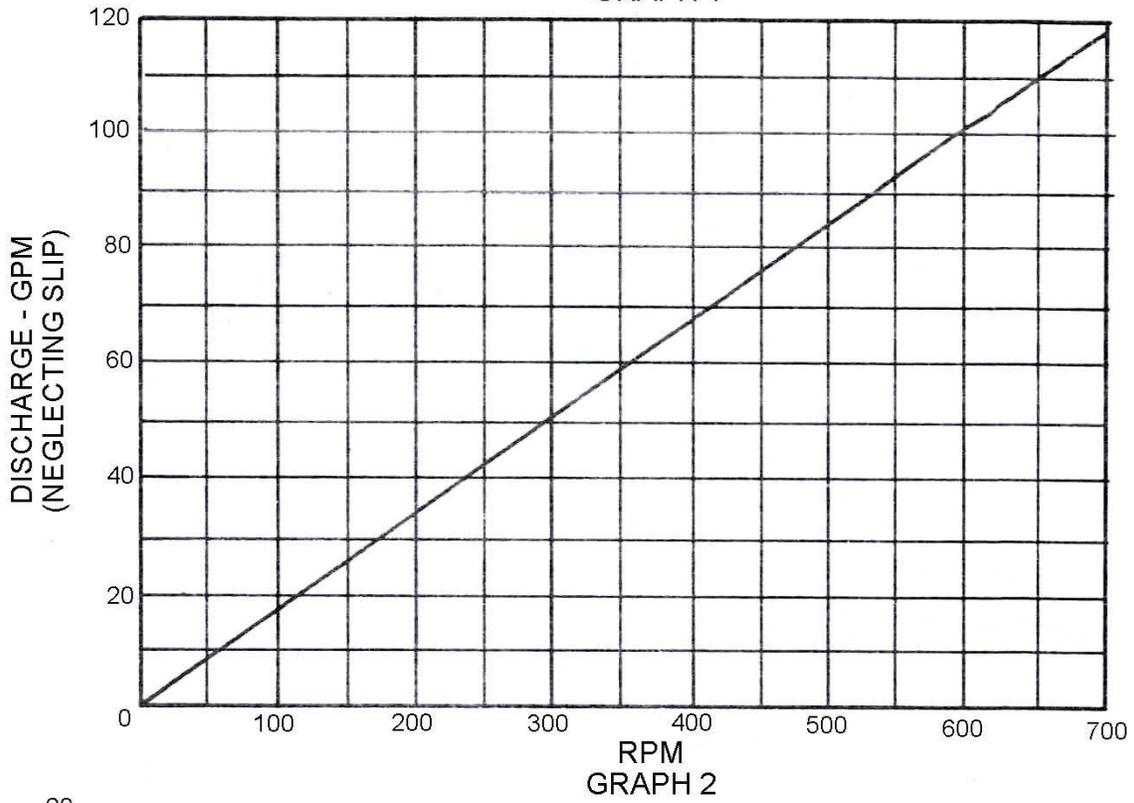
GRAPH 4



MODEL - GH17

DELIVERY  
GRAPH 1

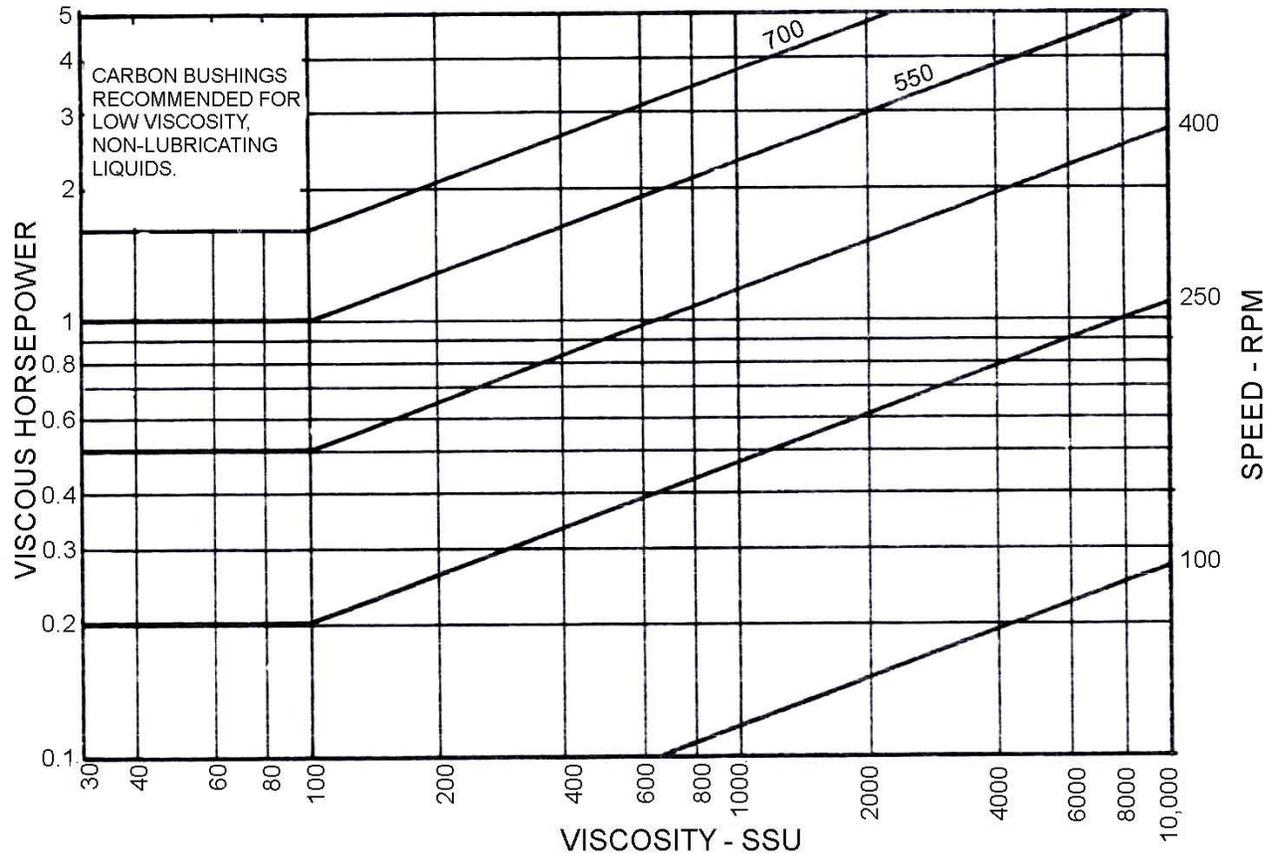
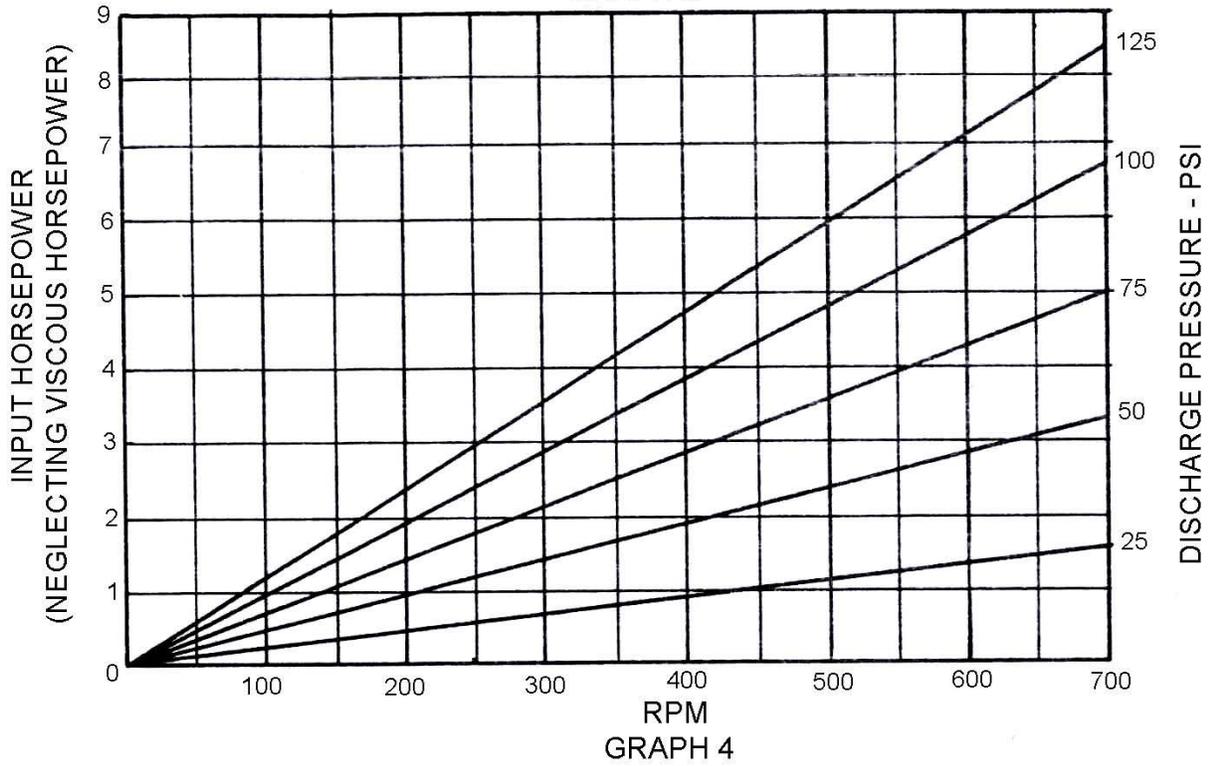
ACTUAL DELIVERY IN GPM =  
GRAPH 1 - GRAPH 2



MODEL - GH17

INPUT HORSEPOWER  
GRAPH 3

TOTAL INPUT HORSEPOWER =  
GRAPH 3 + GRAPH 4

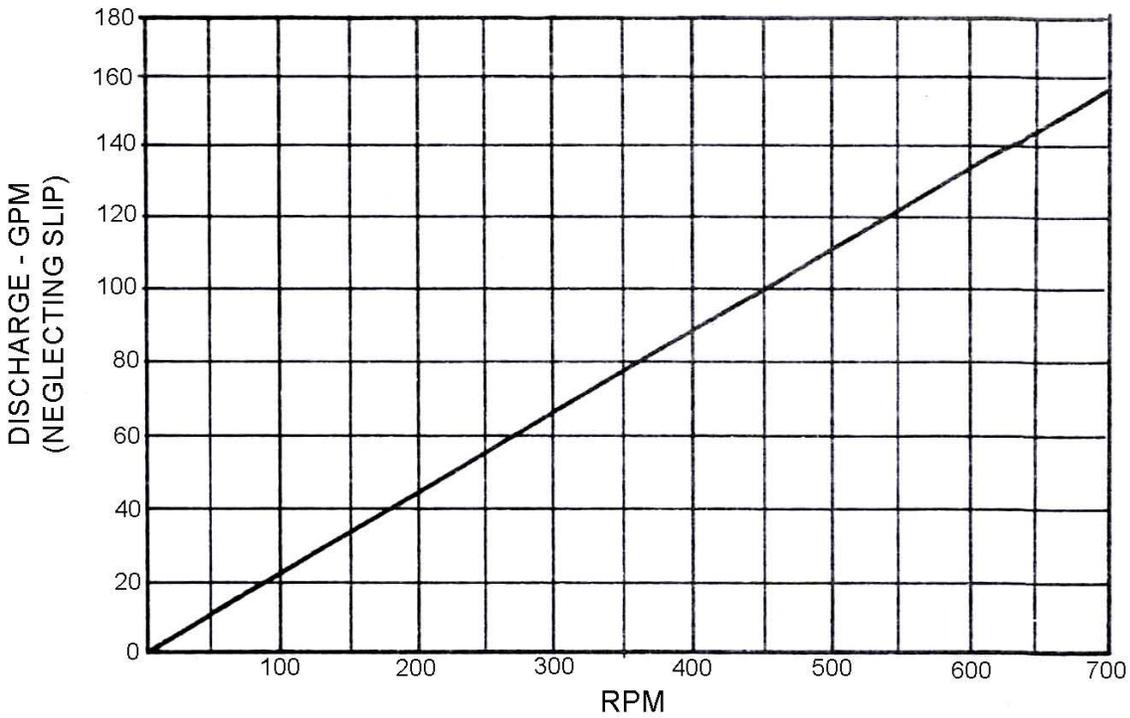


MODEL - GH22

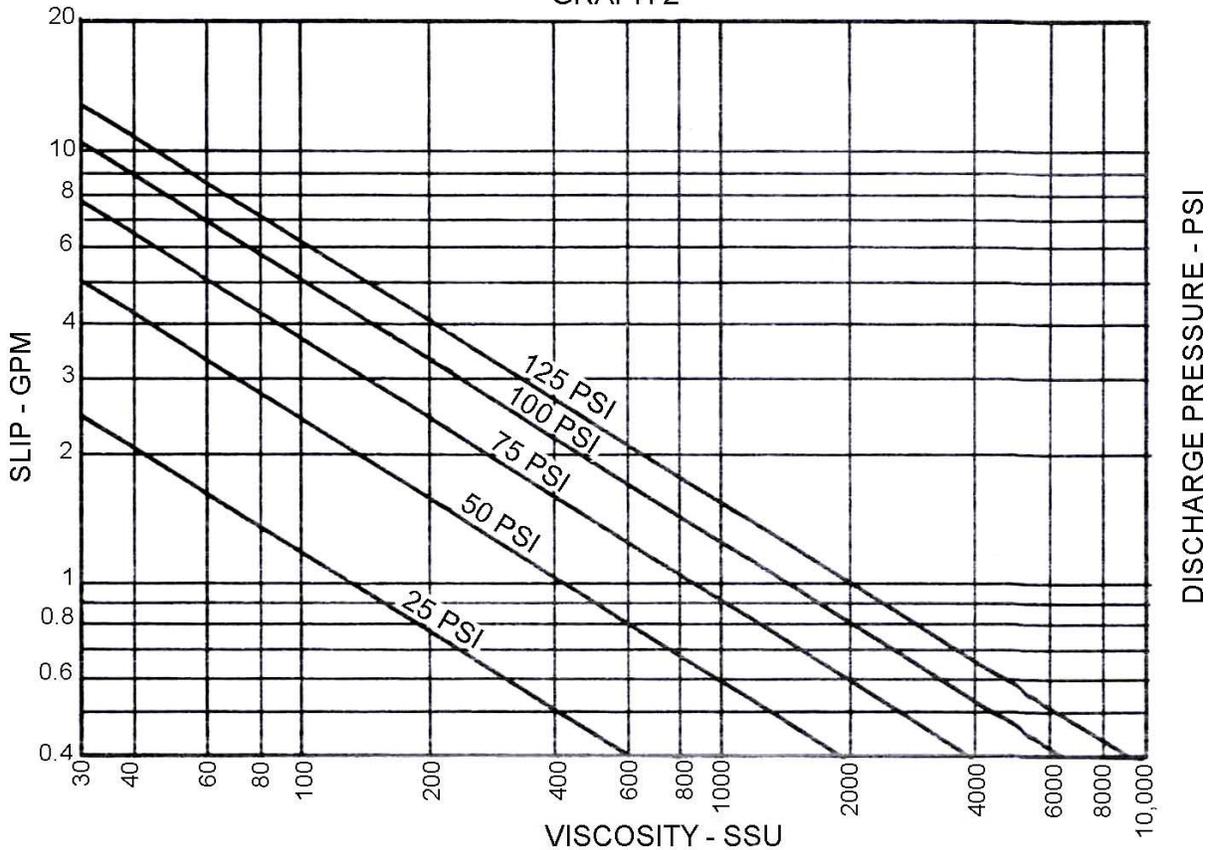
DELIVERY

ACTUAL DELIVERY IN GPM =  
GRAPH 1 - GRAPH 2

GRAPH 1



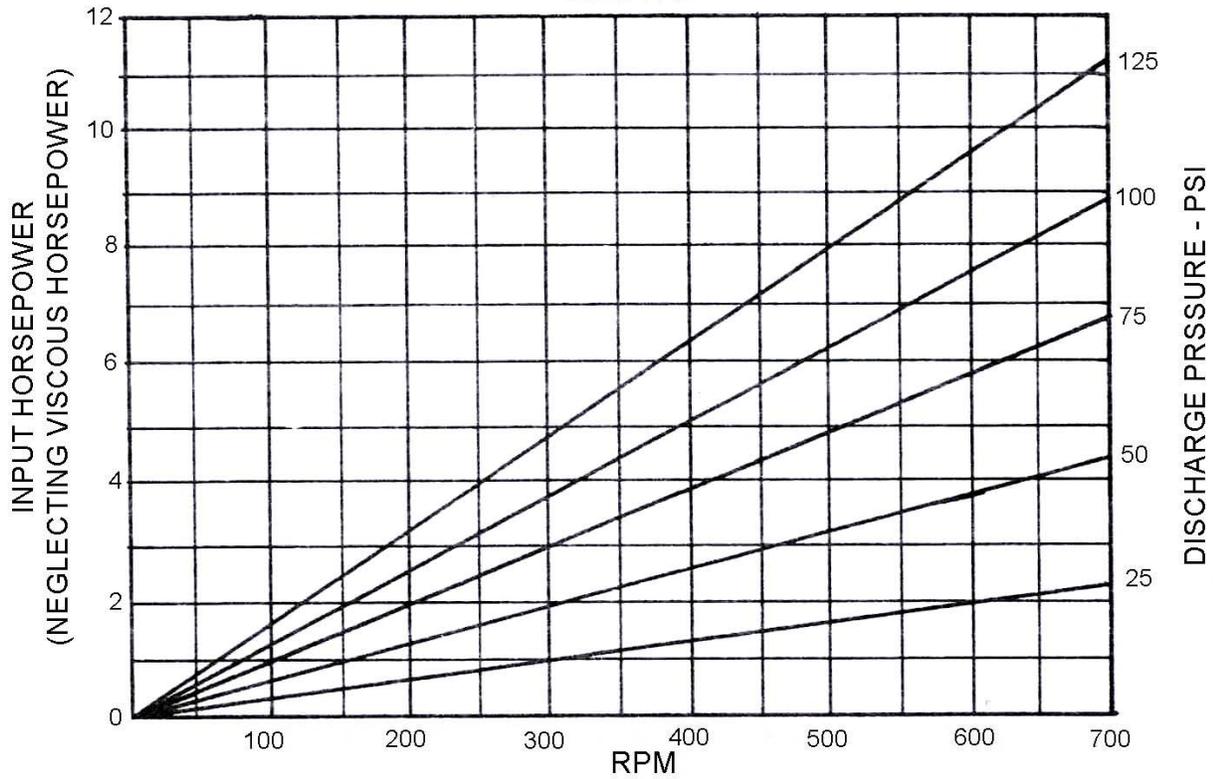
GRAPH 2



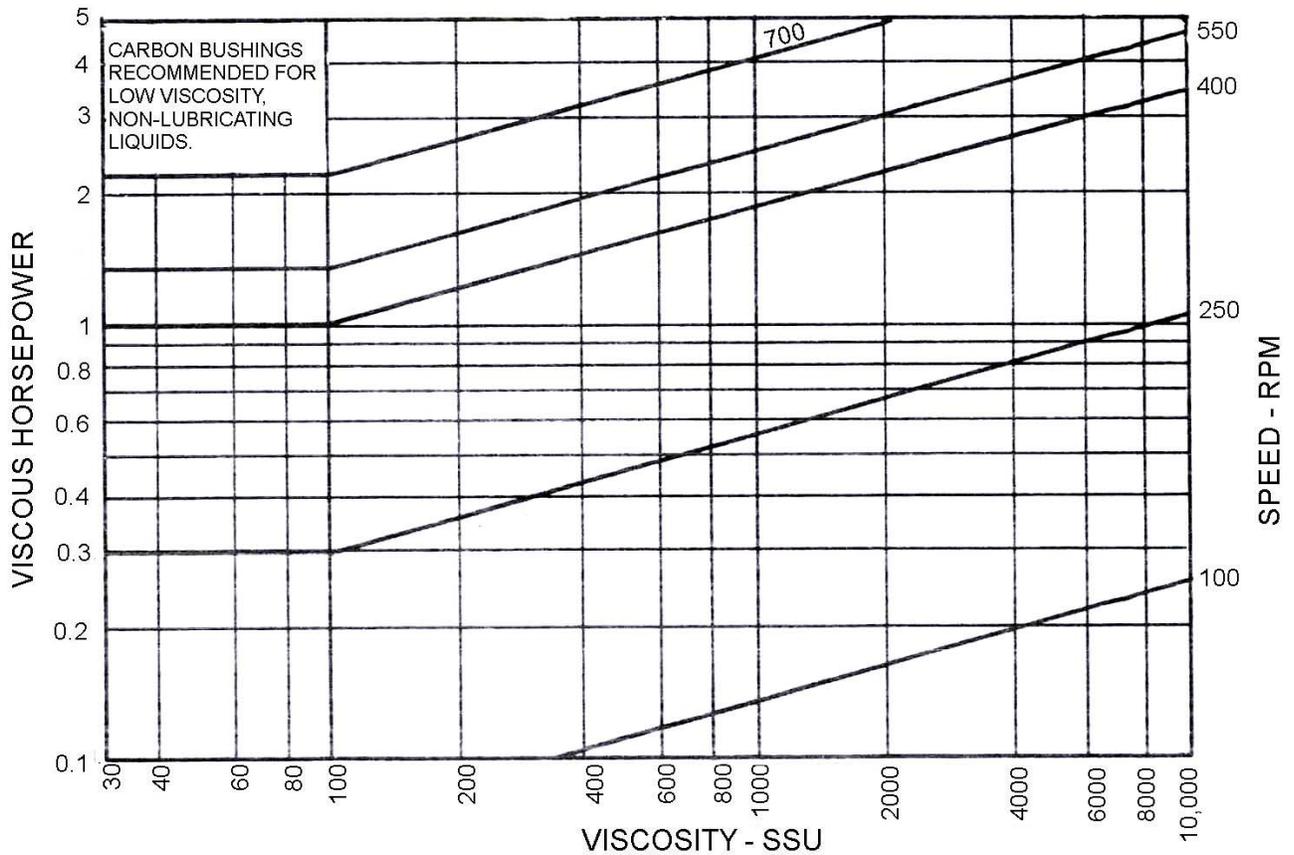
MODEL - GH22

INPUT HORSEPOWER  
GRAPH 3

TOTAL INPUT HORSEPOWER =  
GRAPH 3 + GRAPH 4



GRAPH 4



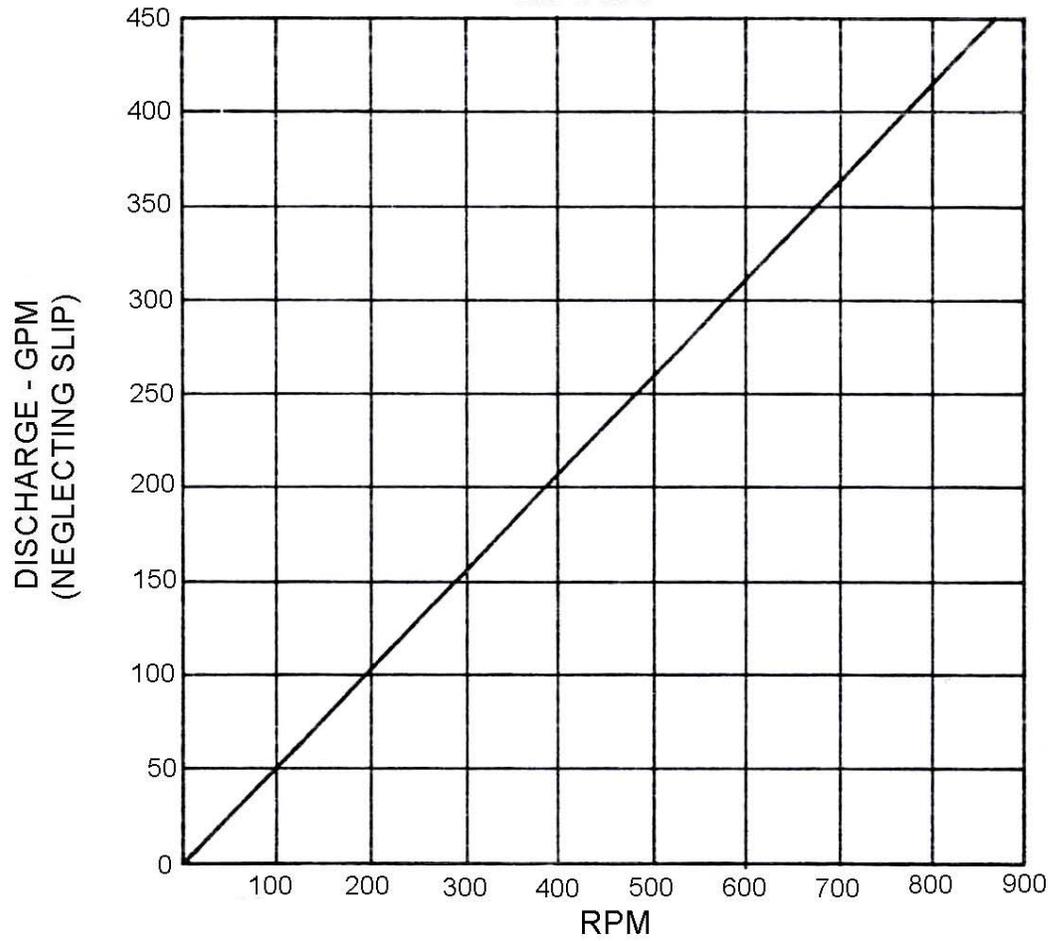


MODEL - GH48

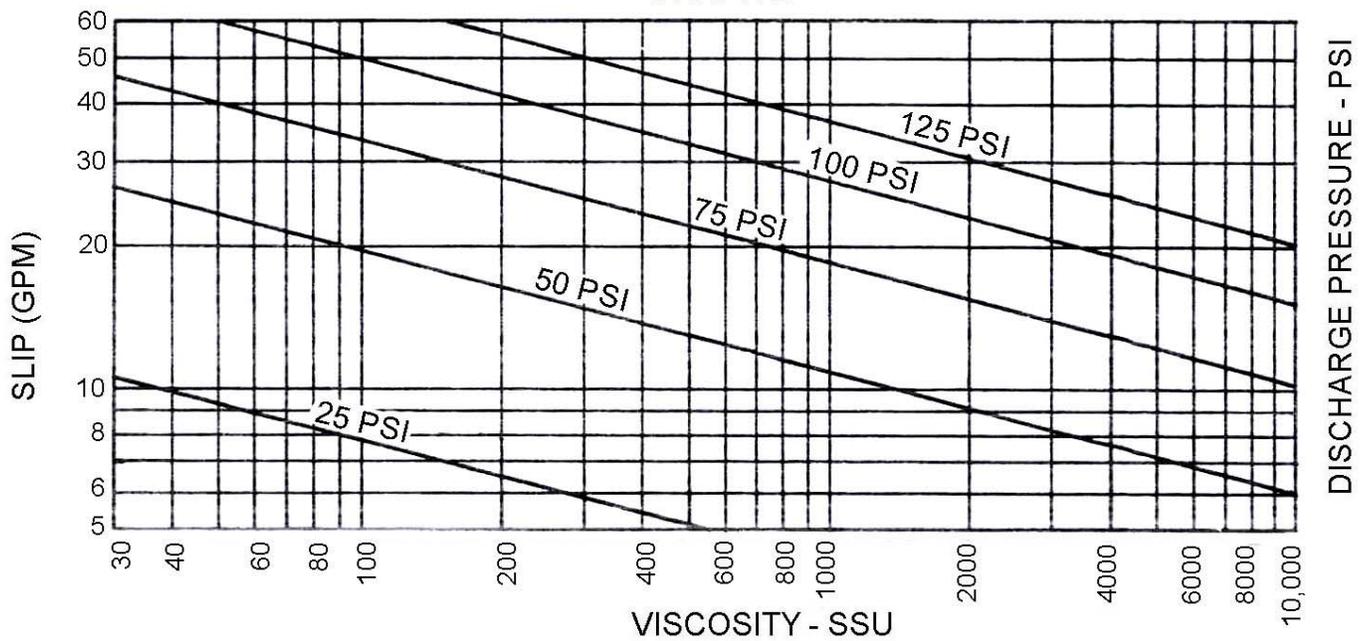
DELIVERY

ACTUAL DELIVERY IN GPM =  
GRAPH 1 - GRAPH 2

GRAPH 1



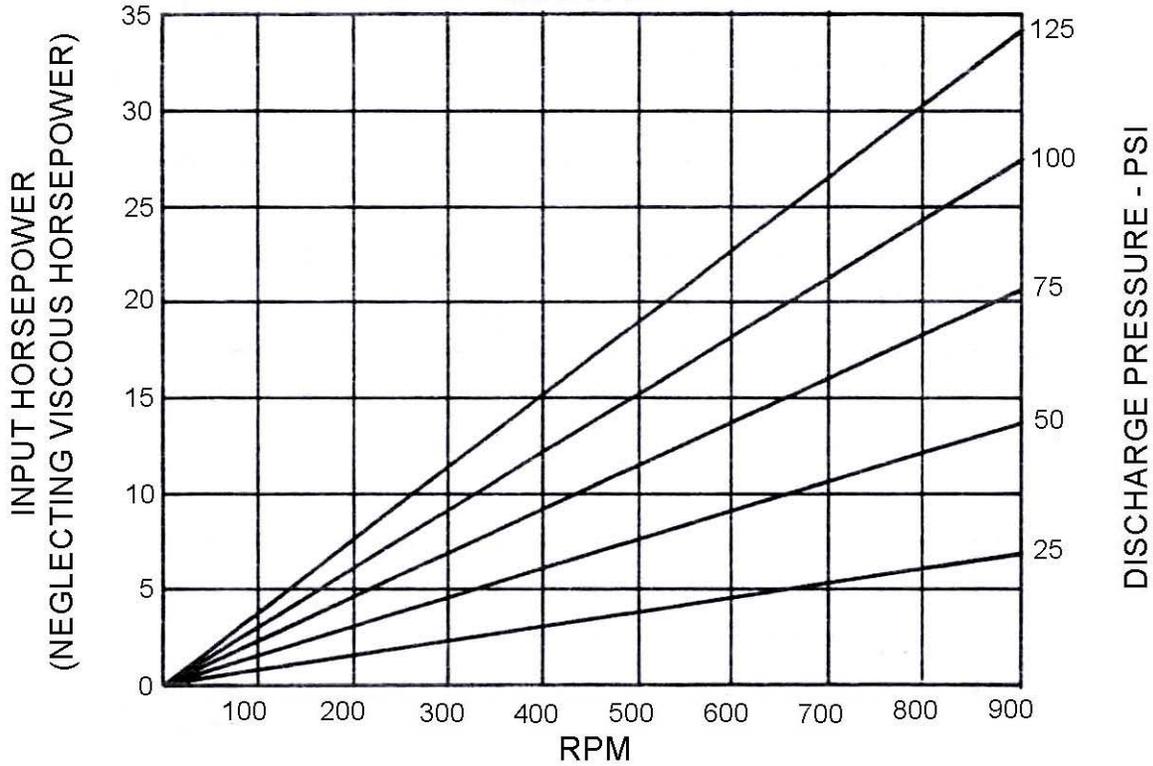
GRAPH 2



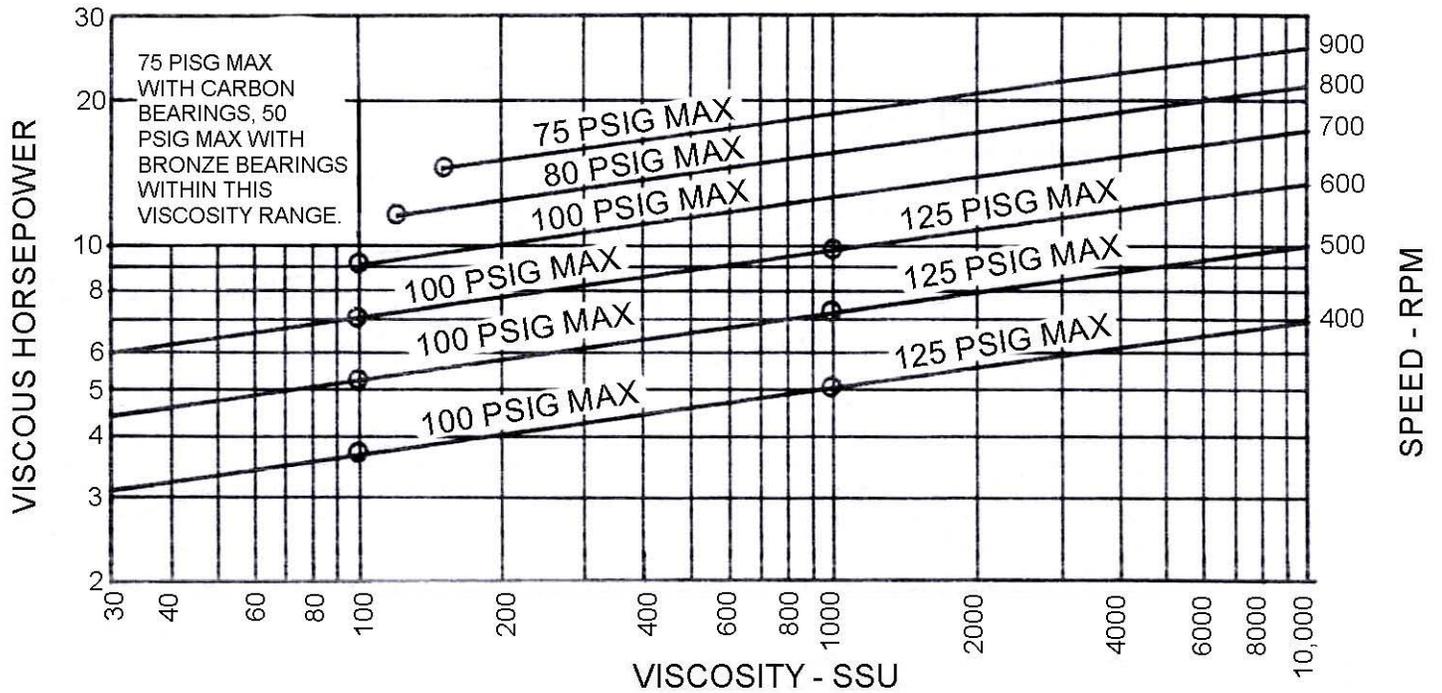
MODEL - GH48

INPUT HORSEPOWER  
GRAPH 3

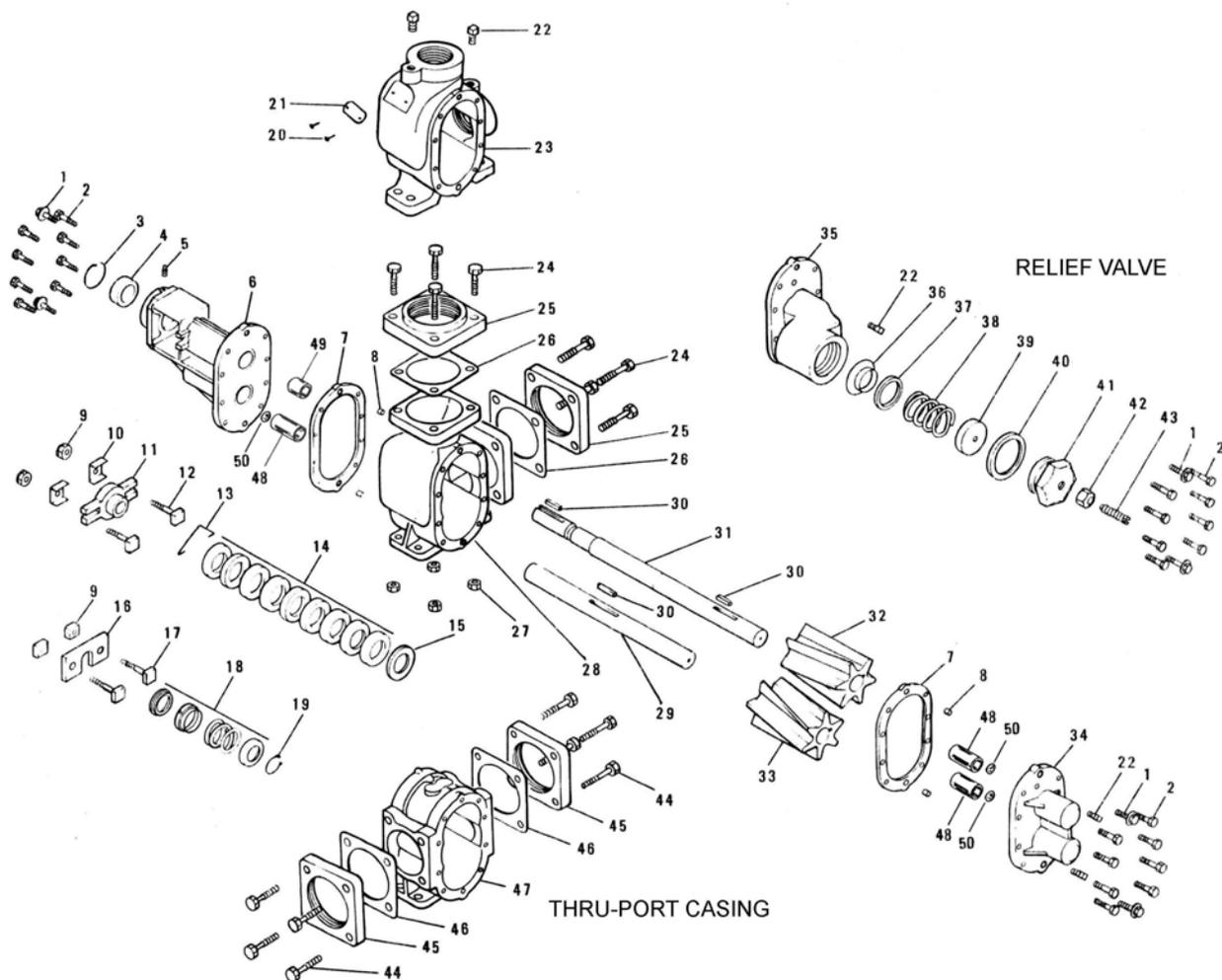
TOTAL INPUT HORSEPOWER =  
GRAPH 3 + GRAPH 4



GRAPH 4



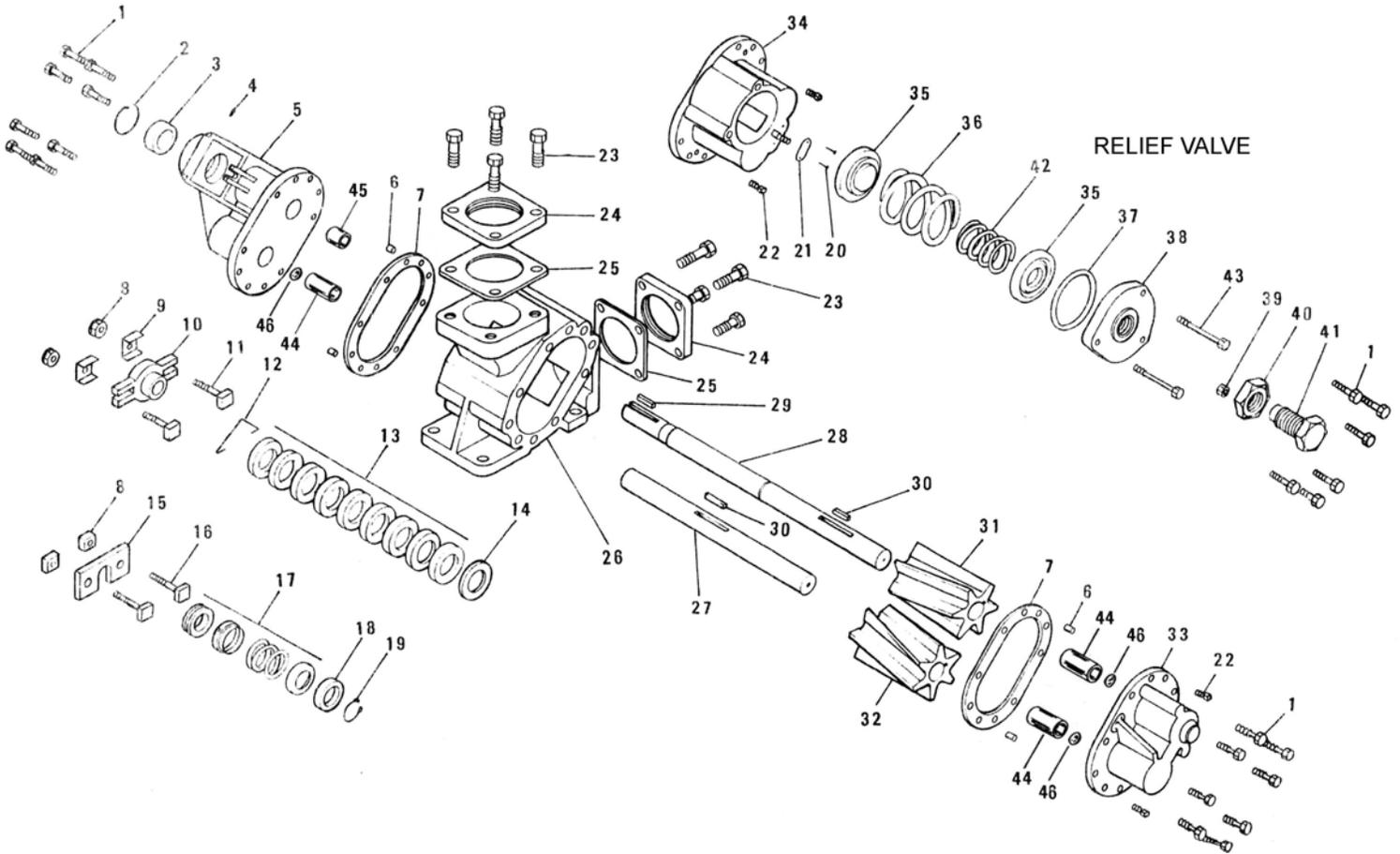
MODELS GH11, GH17 & GH22



Item Number	Item Description	Num. Req.
1	Washer, Hex Head Cap Screw	4
2	Hex Head Cap Screw	16
3	Retaining Ring	1
4	Ball Bearing	1
5	Zerk Fitting	1
6	Backplate Assembly	1
7	Gasket, Case	2
8	Dowel Pin, Hollow	4
9	Locknut	2
10	Clip, Packing Gland	2
11	Gland, Packing	1
12	Bolt, Square Head	2
13	Clip, Spring	1
14	Packing Set	1
15	Washer, Packing	1
16	Retainer, Seal	1
17	Bolt, Square Head	2
18	Mechanical Seal, Complete	1
19	Retainer Ring	1
20	Drive Screw	2
21	Name Plate	1
22	Pipe Plug	4
23	Casing	1
24	Cap Screw, Hex Head	8
25	Flange, Straight	2

Item Number	Item Description	Num. Req.
26	Gasket, Flange	2
27	Nut	8
28	Case	1
29	Shaft, Idler	1
30	Key	3
31	Shaft, Drive	1
32	Gear, Left Hand	1
33	Gear, Right Hand	1
34	Face Plate Assembly, No Relief Valve	1
35	Face Plate Assembly, Relief Valve	1
36	Poppet	1
37	Adapter, Poppet	1
38	Spring, Standard	1
39	Guide, Spring	1
40	Gasket, Cap	1
41	Plug Cap	1
42	Nut, Lock & Seal	1
43	Screw, Adjustment	1
44	Hex Head Cap Screw	8
45	Flange, Straight	2
46	Gasket, Flange	2
47	Case, Thru-Port	1
48	Bushing, Long	3
49	Bushing, Short	1
50	Washer, Expansion	3

MODEL GH48



Item Number	Item Description	Num. Req.
1	Washer, Hex Head Cap Screw	4
2	Retaining Ring	1
3	Ball Bearing	1
4	Zerk Fitting	1
5	Backplate Assembly	1
6	Dowel Pin	4
7	Gasket, Case	2
8	Locknut	2
9	Clip, Packing Gland	2
10	Gland, Packing	1
11	Bolt, Square Head	2
12	Clip, Spring	1
13	Packing Set	1
14	Washer, Packing	1
15	Retainer, Seal	1
16	Bolt, Square Head	2
17	Mechanical Seal, Complete	1
18	Seal Spacer	1
19	Retainer Ring	1
20	Drive Screw	2
21	Name Plate	1
22	Pipe Plug	4
23	Cap Screw, Hex Head	8

Item Number	Item Description	Num. Req.
24	Flange, Straight	2
25	Gasket, Flange	2
26	Casing	1
27	Shaft, Idler	1
28	Shaft, Drive	1
29	Key	1
30	Key	2
31	Gear, Left Hand	1
32	Gear, Right Hand	1
33	Face Plate Assembly, No Relief Valve	1
34	Face Plate Assembly, Relief Valve	1
35	Poppet & Spring	1
36	Spring, Standard	1
37	O-Ring, Buna	1
38	Plug Cap	1
39	Nut	1
40	Nut, Lock & Seal	1
41	Screw, Adjustment	1
42	Spring, High Pressure	1
43	Hex Head Cap Screw	8
44	Bushing, Long	3
45	Bushing, Short	1
46	Washer, Expansion	3