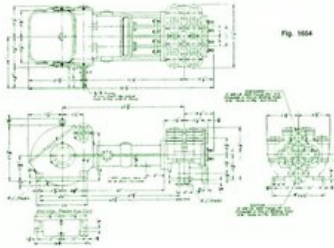


GasO, 1654, Duplex, Piston Pump (Mud Pump)

- 104 horsepower 8" stroke continuous duty double acting duplex pump
- Rated at pump speeds up to 90 RPM
- Maximum discharge pressures up to 1800 psi
- Equipped with cast iron or cast steel fluid ends
- Equipped with internal gear reduction unit

Specs

Spec	U.S. Standard
Type:	duplex
Minimum Piston Diameter:	2½"
Maximum Piston Diameter:	5"
Stroke length:	8"
Maximum Working Pressure:	1,800 PSI
Rod/Piston Load:	11000lb
Gallons per Minute:	234.0
Barrels per Day:	8023
Brake Horse Power:	97.8



Features/Benefits

Power End Features

- Cast iron power frame
- Steel crankshaft
- Heavy-duty crankshaft bearings
- Ductile iron connecting rods
- Allow steel crosshead pins
- Bronze bearing crosshead pin bushings

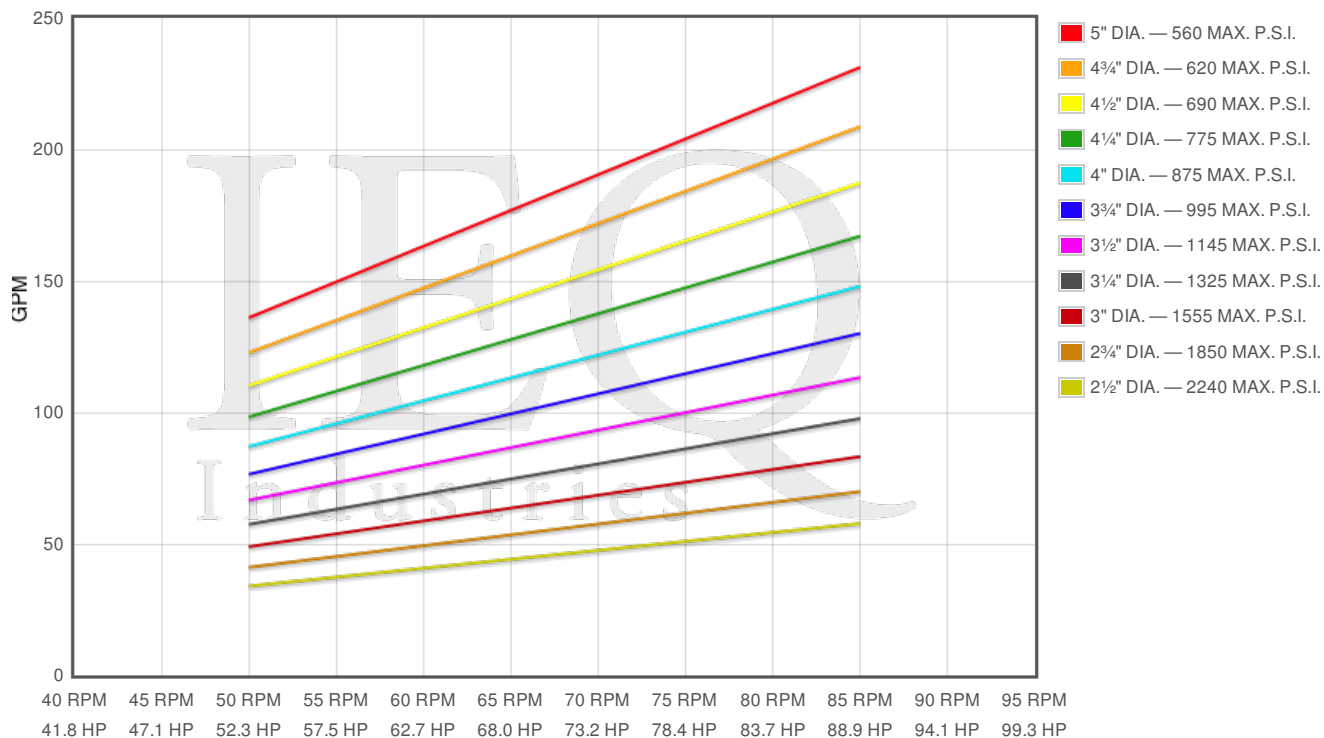
Internal gear reduction / 4.750:1 Ratio / with:

- Ductile iron herringbone type main gear
- Allow steel pinion shaft with herringbone pinion gear
- Heavy-duty roller pinion shaft bearings
- Flooded sump, splash distribution lubrication
- Cast iron crossheads with upper/lower oil grooves
- Rated rod load is 12680 lbs.

Fluid End Features

- Bolted valve cylinder head covers
- Bolted or threaded type glands and removable stuffing boxes
- File hard steel piston rods
- Standard valve types:
 - For crude oil transfer:
 - Steel wing guided valve and seat
 - For slush/mud service:
 - Steel wing guided with replaceable insert
- Standard piston types:
 - For crude oil transfer:
 - Cast iron piston body, ring type
 - Cast iron, chrome, faced, piston rings

- For slush/mud service:
 - Mission slush type piston w/replaceable rubbers
- General service piston rod packing



Pump	English Units					50 RPM		60 RPM		70 RPM		80 RPM		85 RPM	
	Plunger Dia. In.	Plunger Area Sq. In.	BPD per RPM	GPM per RPM	Max Press. PSI	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM
1654	5.000	19.6350	93.257	2.7200	560	4663	136.0	5595	163.2	6528	190.4	7461	217.6	7927	231.2
	4.750	17.7205	84.164	2.4548	621	4208	122.7	5050	147.3	5892	171.8	6733	196.4	7154	208.7
	4.500	15.9043	75.538	2.2032	692	3777	110.2	4532	132.2	5288	154.2	6043	176.3	6421	187.3
	4.250	14.1863	67.378	1.9652	775	3369	98.26	4043	117.9	4716	137.6	5390	157.2	5727	167.0
	4.000	12.5664	59.684	1.7408	875	2984	87.04	3581	104.4	4178	121.9	4775	139.3	5073	148.0
	3.750	11.0447	52.457	1.5300	996	2623	76.5	3147	91.8	3672	107.1	4197	122.4	4459	130.0
	3.500	9.6211	45.696	1.3328	1143	2285	66.64	2742	79.97	3199	93.3	3656	106.6	3884	113.3
	3.250	8.2958	39.401	1.1492	1326	1970	57.46	2364	68.95	2758	80.44	3152	91.94	3349	97.68
	3.000	7.0686	33.572	0.9792	1556	1679	48.96	2014	58.75	2350	68.54	2686	78.34	2854	83.23
	2.750	5.9396	28.210	0.8228	1852	1411	41.14	1693	49.37	1975	57.6	2257	65.82	2398	69.94
	2.500	4.9087	23.314	0.6800	2241	1166	34.0	1399	40.8	1632	47.6	1865	54.4	1982	57.8

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