

CAPACITIES AND RECOMMENDED WORKING PRESSURES OF GASO DUPLEX PISTON PUMPS

PUMP FIGURE NUMBER	Pump Size	Front Face Area of Piston	DISPLACEMENT						Working Pressure Lbs. Per Sq. In.	*** REQUIRED HORSEPOWER		** Maximum Piston Rod Load Pounds
			Normal			Maximum*				Normal R.P.M.	Maximum R.P.M.	
			Gallons per Min.	Barrels per Hour	Crank R.P.M.	Gallons per Min.	Barrels per Hour	Crank R.P.M.				
1849	2½ x 6 3 x 6 3½ x 6 4 x 6 4½ x 6	4.91 7.07 9.62 12.57 14.19	32 48 66 88 99	46 68 94 125 142	70 70 70 70 70	41 62 85 113 128	59 88 121 161 182	90 90 90 90 90	990 685 505 385 345	20.5 21.0 21.4 21.7 22.0	26.3 27.1 27.5 27.9 28.3	4,850 4,850 4,850 4,850 4,850
1845	5 x 6 5½ x 6 5¾ x 6 6 x 6	19.64 23.76 25.97 28.27	139 169 185 202	199 242 264 288	70 70 70 70	179 217 238 260	256 311 340 371	90 90 90 90	240 200 180 165	21.5 21.8 21.4 21.4	27.7 28.0 27.6 27.6	4,715 4,750 4,675 4,665
11847 Bronze Fluid End	2½ x 6 3 x 6 3½ x 6 4 x 6 4½ x 6	4.91 7.07 9.62 12.57 15.90	32 48 66 88 112	46 68 94 125 160	70 70 70 70 70	41 62 85 113 143	59 88 121 161 206	90 90 90 90 90	990 685 505 385 305	20.5 21.0 21.4 21.7 22.0	26.3 27.1 27.5 27.9 28.3	4,850 4,850 4,850 4,850 4,950
12249 Worm Drive	2½ x 6 3 x 6 3½ x 6 4 x 6 4½ x 6	4.91 7.07 9.62 12.57 15.90	32 48 66 88 99	46 68 94 125 142	70 70 70 70 70	37 53 75 100 113	53 78 108 143 162	80 80 80 80 80	845 585 430 330 290	17.5 17.9 18.2 18.6 18.6	20.2 20.5 20.9 21.2 21.2	4,150 4,135 4,135 4,150 4,120
12245 Worm Drive	5 x 6 5½ x 6 5¾ x 6 6 x 6	19.64 23.76 25.97 28.27	139 169 185 202	199 242 264 288	70 70 70 70	159 193 211 230	227 276 302 330	80 80 80 80	210 175 160 145	18.8 19.1 19.1 18.8	21.5 21.8 21.8 21.5	4,135 4,160 4,150 4,100
1550 Moly-iron or Steel Fluid End and 1563 Bronze Fluid End	2½ x 10 3 x 10 3½ x 10 4 x 10 4½ x 10 5 x 10	4.91 7.07 9.62 12.57 15.90 19.64	41 61 85 113 144 179	59 88 122 161 206 256	54 54 54 54 54 54	65 97 134 178 227 282	93 138 192 254 324 402	85 85 85 85 85 85	1320 915 675 515 410 330	35.1 36.2 37.1 37.3 38.0 38.0	55.3 56.8 58.3 58.8 59.8 59.8	6,480 6,470 6,480 6,490 6,520 6,480
Ø1550-C Chain Drive Moly-iron or Steel Fluid End	2½ x 10 3 x 10 3½ x 10 4 x 10 4½ x 10 5 x 10	4.91 7.07 9.62 12.57 15.90 19.64	38 58 82 109 141 175	54 83 117 156 201 250	54 54 54 54 54 54	59 130 128 172 221 276	85 85 85 85 85 85	1320 915 675 515 410 330	32.1 34.2 35.5 36.1 37.1 37.2	50.5 53.5 55.9 57.0 58.4 58.5	6,480 6,470 6,480 6,480 6,520 6,480	
1507	5½ x 10 6 x 10 7 x 10	23.76 28.27 38.46	218 260 355	311 371 507	54 54 54	343 410 559	490 585 800	85 85 85	270 225 165	37.8 37.5 37.7	59.5 63.0 63.0	6,420 6,350 6,350
12050 Worm Drive	2½ x 10 3 x 10 3½ x 10 4 x 10 4½ x 10 5 x 10	4.91 7.07 9.62 12.57 15.90 19.64	41 61 85 113 144 179	59 88 122 161 206 256	54 54 54 54 54 54	54 80 111 146 187 232	77 114 158 209 267 331	70 70 70 70 70 70	1140 790 580 445 350 285	30.3 31.3 31.8 31.9 32.5 32.8	39.5 40.6 41.3 41.5 42.2 42.5	5,590 5,590 5,580 5,590 5,565 5,600
12017 Worm Drive	5½ x 10 6 x 10 7 x 10	23.76 28.27 38.46	218 260 355	311 371 507	54 54 54	282 337 460	403 480 658	70 70 70	235 195 145	32.9 31.8 33.1	42.7 41.2 43.0	5,500 5,515 5,590
1654 Gear Drive and Ø1654-C Chain Drive	2½ x 8 3 x 8 3½ x 8 4 x 8 4½ x 8 5 x 8	4.91 7.07 9.62 12.57 15.90 19.64	26 55 78 105 135 168	52 80 112 150 193 243	65 65 65 65 65 65	47 73 103 137 177 222	85 104 147 196 253 318	85 85 85 85 85 85	1650 1560 1145 875 690 560	38.6 56.2 57.7 54.1 59.9 61.2	50.5 73.0 75.7 77.2 78.6 80.1	9,100 11,025 11,000 11,000 10,975 11,000
1742 (Moly-iron Fluid End) and	2½ x 10 3 x 10 3½ x 10 4 x 10 4½ x 10 5 x 10	4.91 7.07 9.62 12.57 15.90 19.64	38 58 82 109 141 175	54 83 117 156 201 250	54 54 54 54 54 54	59 91 128 172 221 276	85 130 184 246 316 394	85 85 85 85 85 85	1540 1540 1360 1040 820 665	37.4 57.5 71.6 73.0 74.2 74.9	58.9 90.1 112.6 115.2 117.8 118.0	7,560 10,890 13,080 13,050 13,050 13,050
1755 (Steel Fluid End)	5 x 10 5½ x 10	23.76 28.27	214 256	306 366	54 54	337 403	481 576	85 85	550 550	75.7 75.7	119.1 119.1	13,050 13,050
1743 (Moly-iron Fluid End)	4 x 10 4½ x 10 5 x 10 5½ x 10 6 x 10 6½ x 10 7 x 10 7½ x 10	12.57 15.90 19.64 23.76 28.27 33.18 38.46 44.18	109 141 175 214 256 301 351 405	156 201 250 306 366 431 502 578	54 54 54 54 54 54 54 54	172 221 276 337 403 475 554 637	246 316 394 481 576 679 791 910	85 85 85 85 85 85 85 85	665 665 665 550 460 395 340 295	46.7 60.2 74.9 75.8 75.7 76.6 76.8 76.7	73.6 94.6 118.0 119.1 119.3 120.7 121.0 121.0	8,350 10,560 13,050 13,050 13,000 13,100 13,050 13,050
1753 (Steel Fluid End)	4 x 10 4½ x 10 5 x 10 5½ x 10 6 x 10 6½ x 10 7 x 10 7½ x 10	12.57 15.90 19.64 23.76 28.27 33.18 38.46 44.18	109 141 175 214 256 301 351 405	156 201 250 306 366 431 502 578	54 54 54 54 54 54 54 54	172 221 276 337 403 475 554 637	246 316 394 481 576 679 791 910	85 85 85 85 85 85 85 85	1040 820 665 550 460 395 340 295	73.0 74.2 74.9 75.8 75.7 76.6 76.8 76.7	115.2 116.6 118.0 119.1 119.3 120.7 121.0 121.0	13,050 13,050 13,050 13,050 13,000 13,100 13,050 13,050
2651 (Steel Fluid End)	4 x 12 4½ x 12 5 x 12 5½ x 12	17.57 19.64 23.76 28.27	123 161 203 249	176 230 290 356	54 54 54 54	195 253 319 392	278 362 456 560	85 85 85 85	1760 1390 1125 930	139.5 143.9 146.8 148.9	220.2 226.5 230.8 234.4	22,100 22,100 22,100 22,100
2652 (Steel Fluid End)	4 x 12 4½ x 12 5 x 12 5½ x 12 6 x 12 6½ x 12 7 x 12 7½ x 12	12.57 15.90 19.64 23.76 28.27 33.18 38.46 44.18	123 161 203 249 300 355 414 446	176 230 290 356 428 507 597 637	54 54 54 54 54 54 54 54	195 253 319 392 472 558 652 702	278 362 456 560 674 797 931 1003	85 85 85 85 85 85 85 85	1125 1125 1125 930 780 665 575 535	89.1 116.5 146.9 148.9 150.2 151.6 153.3 153.5	140.8 183.3 230.8 234.4 236.5 238.4 241.0 241.5	14,150 17,900 22,100 22,100 22,100 22,100 22,100 22,100

* Pump must have flooded suction when operating at maximum RPM. Ø See Page 15 for Capacity & Pressure Chart at low speed. † These pumps are not described in catalog but are available. Additional information on request. ** Piston rod load equals pounds per square inch x front face area of piston. *** Horsepower required is the input at the pump pinion shaft and equals barrels per hour x pressure per square inch x .0045.