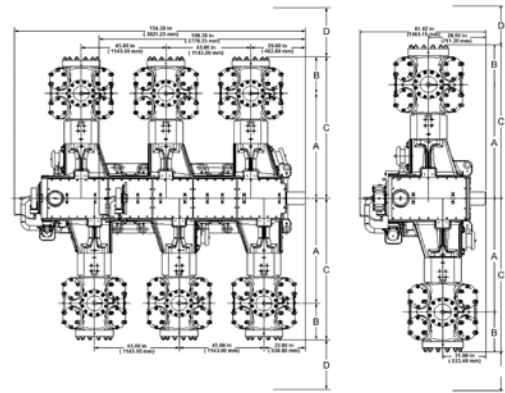


Ratings

Model	Stroke in. (mm)	Number of cylinders	Nominal Rated Power hp (kW)	Max. Allowable Operating Rod Load lbs.(kN)	Rated rpm
5HOS2	5 (127.0)	2	2,400 (1,790)	60,000 (267)	1,500
5HOS4	5 (127.0)	4	4,800 (3,580)	60,000 (267)	1,500
5HOS6	5 (127.0)	6	7,200 (5,370)	60,000 (267)	1,500
6HOS2	6 (152.4)	2	2,000 (1,492)	60,000 (267)	1,200
6HOS4	6 (152.4)	4	4,000 (2,983)	60,000 (267)	1,200
6HOS6	6 (152.4)	6	6,000 (4,475)	60,000 (267)	1,200
7HOS2	7 (177.8)	2	2,200 (1,641)	60,000 (267)	1,000
7HOS4	7 (177.8)	4	4,400 (3,281)	60,000 (267)	1,000
7HOS6	7 (177.8)	6	6,000 (4,475)	60,000 (267)	1,000



"D" is the required clearance to remove/install the piston and rod assembly

Standard Features

- Rigid cast gray iron frame, heavily ribbed and reinforced with integrally cast crosshead extensions; open top frame construction with steel tie rods, cast iron spacers, and an individual cover over each section
- Forged alloy steel crankshaft with passages for pressure lubrication, counterweighted to reduce horizontal moments
- Forged alloy steel connecting rods, rifle-drilled for pressure lubrication
- Nodular iron crossheads, pressure-lubricated
- Horizontally-split, precision-type, aluminum main bearings
- Solid bronze connecting rod bushings
- Bronze thrust bearings
- Crankcase filter-breather
- Single compartment distance piece
- Metallic oil wiper rings
- Main lube oil pump direct driven from crankshaft, complete with relief valve
- Twenty-five micron, full-flow oil filter with cartridge-type cleanable elements and differential pressure gauge
- Shell-and-tube oil cooler
- Bulls-eye oil level gauge
- Direct driven force-fed cylinder lubrication system
- Set of special tools consisting of crosshead nut wrench, piston rod entering sleeve; one set provided per frame

Optional Features

- Variable volume clearance pocket
- Automatic unloading devices
- TC3 (HVOF) coated piston rods
- 17-4 PH stainless steel piston rods
- Purged packing and purged wiper case

- Two-compartment distance piece
- Crankcase and lubricator oil heaters
- Crankcase explosion relief devices
- Main bearing, packing case RTDs
- Torsional studies
- Flywheel (if required)
- Dynamic valve analysis
- Pump-to-point cylinder lubrication
- Electric drive lubricator
- Dual oil filter
- Manual frame pre-lube pump

Specifications

Frame.....	One piece, cast iron, high-strength
Crankshaft.....	Forged steel
Connecting rods.....	Forged steel
Connecting rod bolts.....	Alloy steel, rolled threads
Crosshead pins.....	Hardened steel
Crosshead bolt-on shoes.....	Nodular iron, aluminum shoes
Crosshead integral shoes.....	Nodular iron, babbitt running shoes
Bearings - main.....	Aluminum with micro-babbitt overlay
Bearings - crankpin.....	Tri-metal bronze
Bushings - connecting rod and crosshead.....	Tri-metal bronze
Oil pump.....	Positive displacement gear-type
Oil filter.....	Full-flow, 25 micron
Oil cooler.....	Shell-and-tube
Cylinders.....	Nodular iron
Pistons.....	One or two piece; iron, aluminum or steel
Piston rods.....	Alloy steel, rolled threads
Piston rods packing rings.....	Filled Teflon®

Standard Cylinder Offering and Dimensions

Cylinder Size in. (mm)	MAWP psig (bar)		A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)
	LP	HP				
4.75 (120.7)	1,925 (133.7)		58 (1,473)	18 (457)	76 (1,930)	48 (1,219)
6.00 (152.4)	1,925 (133.7)	2,750 (189.6)	59.62 (1,515)	21 (533)	80 (2,032)	52 (1,321)
7.00 (177.8)	1,650 (113.8)	2,750 (189.6)	58 (1,473)	18 (457)	76 (1,930)	40 (1,016)
8.00 (203.2)	1,575 (108.6)	2,200 (151.7)	59 (1,499)	20 (508)	79 (2,007)	41 (1,041)
9.00 (228.6)	1,265 (87.2)	2,400 (165.5)	57.5 (1,461)	19 (483)	76 (1,930)	38 (965)
9.50 (241.3)	1,265 (87.2)	1,925 (133.7)	57.5 (1,461)	19 (483)	76 (1,930)	38 (965)
10.00 (254.0)	1,025 (70.7)	1,650 (113.8)	57.5 (1,461)	19 (483)	76 (1,930)	42 (1,067)
10.50 (266.7)	1,025 (70.7)	1,650 (113.8)	57.5 (1,461)	19 (483)	76 (1,930)	42 (1,067)
11.50 (292.1)	885 (61.0)	1,265 (87.2)	57 (1,449)	18 (457)	75 (1,905)	37 (940)
12.25 (311.1)		1,050 (72.4)	57.75 (1,467)	19 (483)	77 (1,956)	42 (1,067)
13.00 (330.2)	644 (44.4)	970 (66.9)	57.75 (1,467)	19 (483)	77 (1,956)	42 (1,067)
14.00 (355.6)		750 (51.7)	58.5 (1,486)	20 (508)	79 (2,007)	39 (991)
15.00 (381.0)	495 (34.1)	745 (51.4)	58.5 (1,486)	20 (508)	79 (2,007)	39 (991)
*16.25 (412.7)		600 (41.4)	58.75 (1,492)	20 (508)	79 (2,007)	40 (1,016)
*17.50 (444.5)		545 (37.6)	58.75 (1,492)	20 (508)	79 (2,007)	40 (1,016)
*19.00 (482.6)		470 (32.4)	59.5 (1,511)	21 (533)	80 (2,032)	41 (1,041)
*20.50 (520.7)		470 (32.4)	59.5 (1,511)	21 (533)	80 (2,032)	41 (1,041)
*22.00 (558.8)		350 (24.1)	62.5 (1,588)	23 (584)	86 (2,184)	48 (1,219)
*23.00 (584.2)		350 (24.1)	62.5 (1,588)	23 (584)	86 (2,184)	48 (1,219)
*24.50 (622.4)		280 (19.3)	62.5 (1,588)	24 (610)	86 (2,184)	48 (1,219)
26.00 (660.4)		280 (19.3)	61.75 (1,570)	22 (559)	84 (2,134)	32 (813)
26.50 (673.1)		280 (19.3)	61.75 (1,570)	22 (559)	84 (2,134)	32 (813)
28.00 (711.2)		185 (12.8)	61.75 (1,570)	22 (559)	84 (2,134)	32 (813)
3.75 (95.3) to 7.00 (177.8)	6,600 (455.1) or 4,000 (275.8) 10,000 (689.5)**		VARIES DEPENDING ON PIPING NEEDS			

Flanges are offset from piston rod centerline. Dimensions are for reference only and are not to be used for package design purposes.