

CHEMFLOW

PUMPS

A196



Chemical Process Pumps Designed for Total Range of Industry Services

- Capacities to 7000 GPM (1364 m³/h)
- Heads to 730 feet (223m)
- Temperatures to 700°F (371° C)
- Pressures to 375 PSIG (2586 kPa)
- ANSI B73.1M Standard

Ease of Maintenance

- Back Pull-out Design
- External Impeller Adjustment
- Maximum Interchangeability

Optimum Hydraulic Performance

- Fully Open Impeller
- Full 50/60 Hz Coverage
- 29 Sizes
- Computerized Pump Selection

www.chemflowpumps.co.uk

Model A196 Chemi

LIP SEAL STANDARD, LABYRINTH SEALS OPTIONAL:

INPRO® oil seals keep outside contaminants from lubrication, significantly extending bearing life. Standard in bronze. Carbon-filled Teflon® and magnetic face seals optional.

MOUNTING FRAME FLANGE:

Machined to accommodate C-face motor adapters.

EXTRA LARGE CAPACITY POWDER-COATED OIL SUMP:

Maximized oil capacity delivers improved heat transfer and oil temperature, greatly extending bearing life. Designed to accommodate optional fin coolers for higher temperature applications. Impenetrable fusion bonded epoxy coating on interior-surface extends quality, cleanliness and longevity of the lubricating oil.

EXTERNAL CLEARANCE ADJUSTMENT:

For maintaining original flow, pressure and efficiency, minimizing energy consumption and repairs, and extending mean-time-between-failures (MTBF).

MAGNETIC DRAIN PLUG:

Collects damaging metallic contaminants away from the bearings.

OVERSIZED SIGHT GLASS:

One-inch bulls eye reflective sight glass facilitates monitoring oil level and condition, critical to bearing life. Bottle oiler optional.

DUCTILE IRON FRAME ADAPTERS:

Ductile Iron construction provides strength and safety. Precision-machined fits accurately align the liquid end to the power end. Large openings simplify installation and maintenance. Includes jacking bolts to facilitate disassembly.

HEAVY-DUTY SHAFT & BEARINGS:

Engineered to minimize vibration and shaft deflection, less than 0.002 inch per ANSI B73.1, optimizing pump life. Sleeved and solid shaft available in a variety of materials. Bearings sized for 10-year life under tough operating conditions.



ical Process Pumps

EXTRA - HEAVY CASINGS:

Class 150 pumps incorporate Class 300 wall thickness as standard, extending reliability and casing life under severe corrosive/erosive conditions:

- Top centerline, self-venting discharge for air handling
- Back pull-out to simplify maintenance
- Rigid casing feet prevent pipe load misalignment and promote seal/casing life
- Discharge connection for pressure gauge or seal by pass flush connection standard on Ductile Iron and Stainless Steel casings
- Class 150 FF standard for positive sealing. Optional Class 150 RF 300 FF/RF available
- Casing drain standard in Ductile Iron and Stainless Steel for simplified maintenance.

FULLY OPEN IMPELLER:

With double the wear area of enclosed models, the A196 impeller offers superior handling of solids, corrosives and abrasives.

Back pump-out vanes reduce hydraulic loads and seal chamber pressure.

SEALING FLEXIBILITY:

Wide range of sealing options coupled with seal chambers and stuffing boxes selected for service condition to improve lubrication and heat dissipation of sealfaces, maximizing pump uptime.

CONTAINED CASING GASKET:

Provides positive sealing at casing joint to prevent "blow out" of liquid sand to facilitate disassembly.



CHEMFLOW X-Series Power Ends

Designed for Reliability, Extended Pump Life

Standard performance features extend pump life. Chemflow backs reliability with a three-year unconditional warranty.



LARGE OIL SIGHT GLASS

Allows for viewing condition and level of oil — critical for bearing life. Frame pre-drilled for optional bottle oiler.



CARBON-FILLED TEFLON LABYRINTH OILSEALS

Prevent contamination of lubricant, the primary cause of premature bearing failure.



CONDITION MONITORING SITES

Allow easy and consistent monitoring of temperature and vibration for preventive maintenance. Optional installation of sensors.



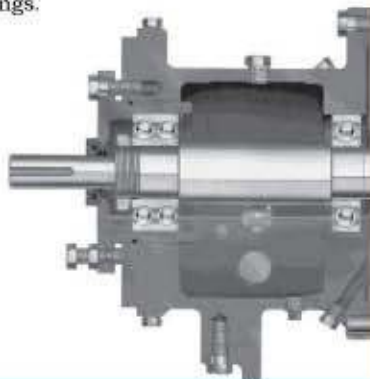
SHAFT / BEARINGS ASSEMBLY

Shaft designed for minimum deflection for long seal and bearing life. Bearings sized for optimum life. Duplex thrust bearings optional.



EXTRALARGE OIL SUMP

Large oil capacity provides optimum heat transfer for cooler running bearings.



RIGID FRAME FOOT

Reduces effect of pipe loads on shaft alignment. Pump / driver alignment is better maintained for extended bearing and seal life.



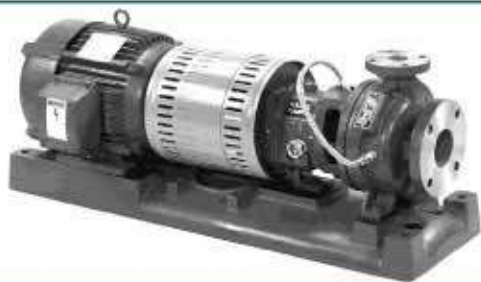
FRAME ADAPTER

Ductile iron standard for safety and strength.



Seal Flush Plans

To control emission levels and meet seal installation requirements, all ANSI B73.1 seal flush and cooling plans are available. Chemflow can also provide other special arrangements of user preference.



CPI PLAN 7311

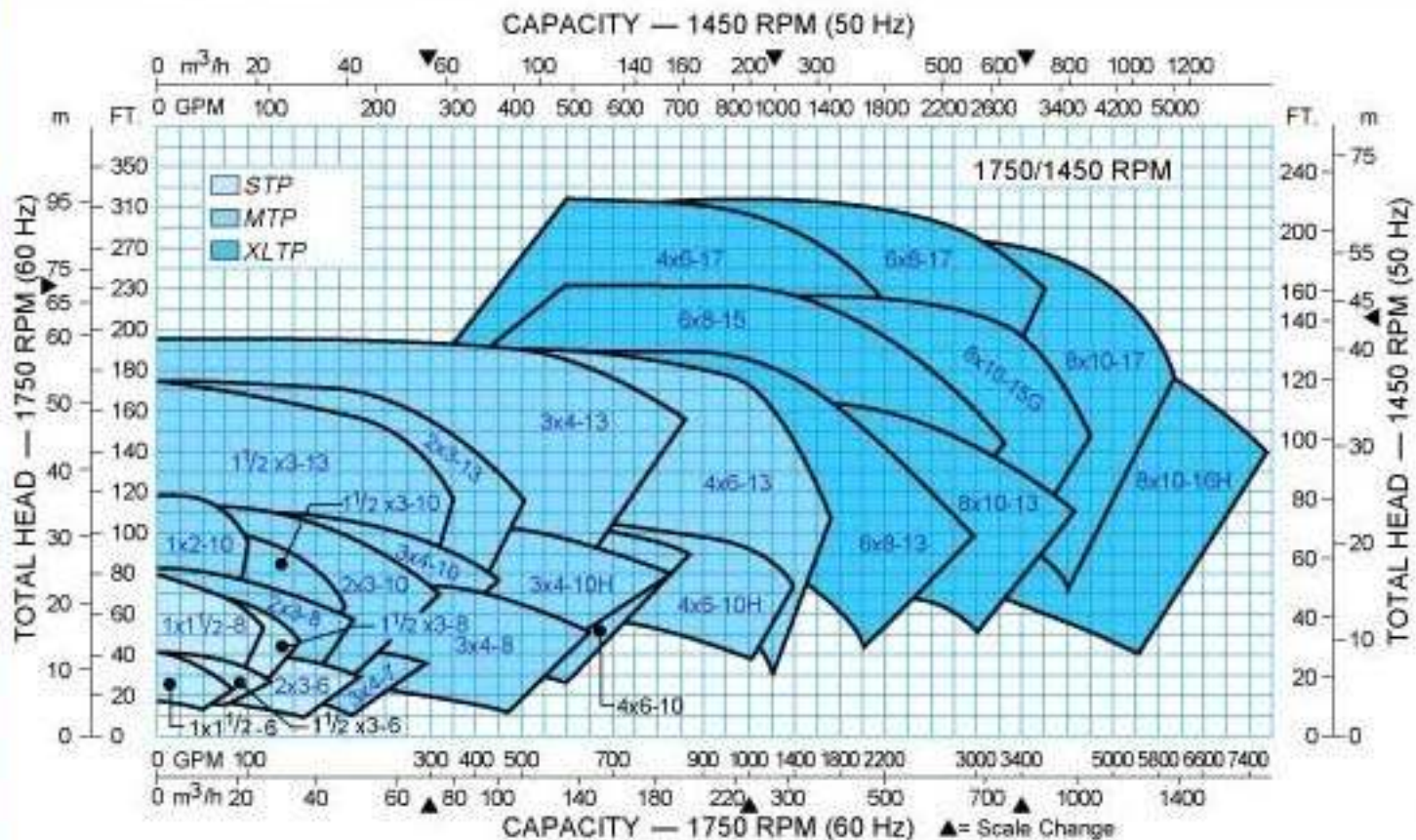
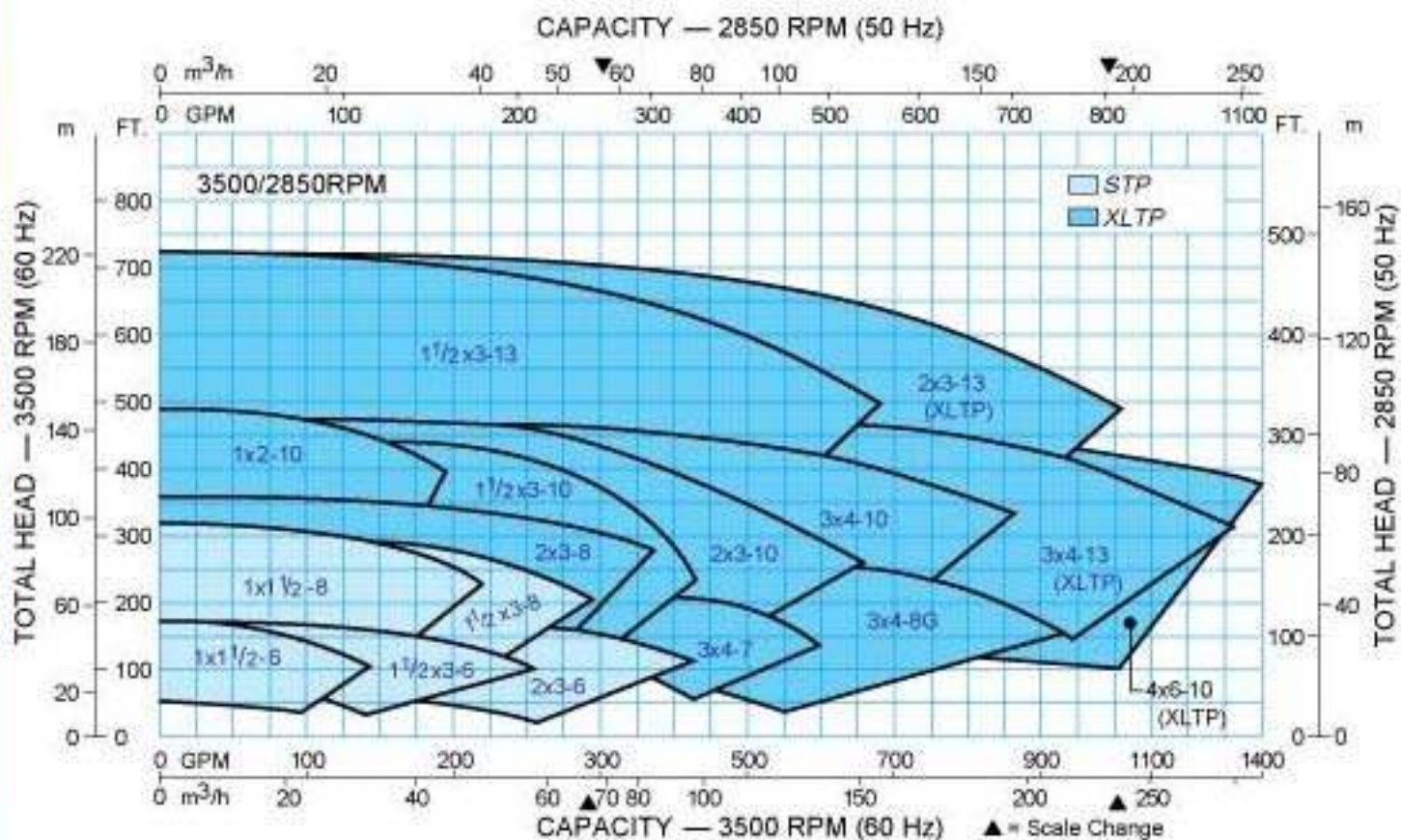
By-pass flush lubricates single seal faces.



CPI PLAN 7353

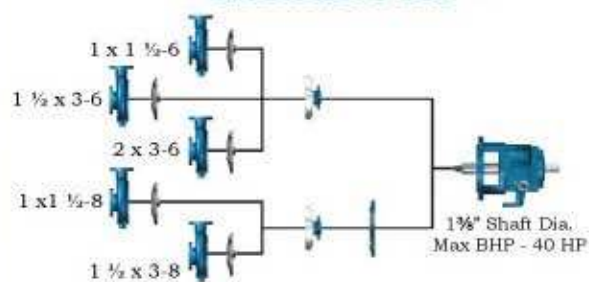
Pressurized circulation lubricates double seal faces.

Hydraulic Coverage Model A196

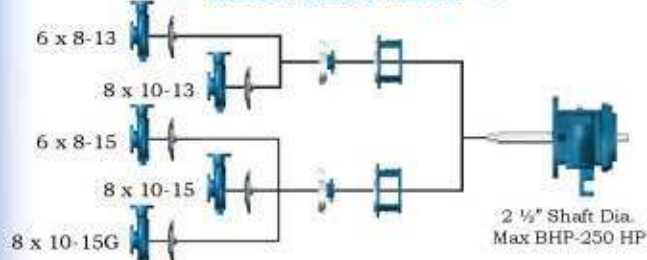


A196 INTERCHANGEABILITY & DIMENSIONAL DRAWING

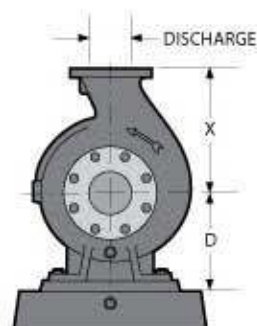
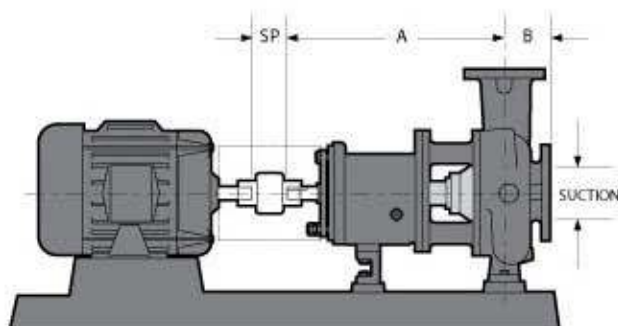
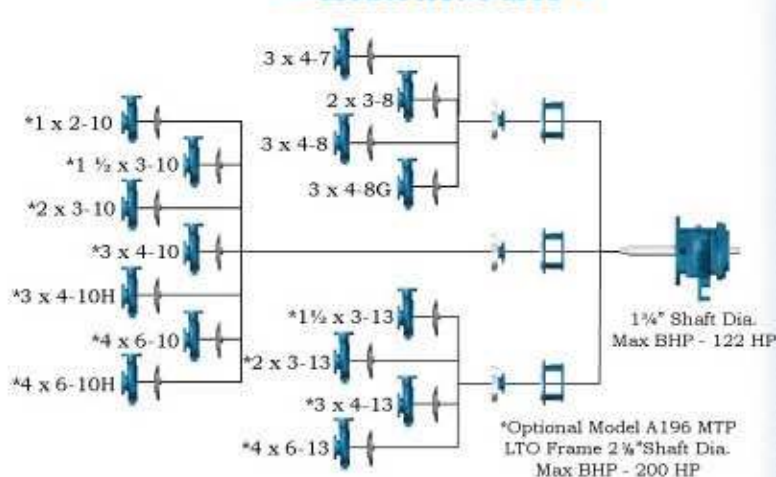
► Model A196 STP ◀



► Model A196 XLTP ◀



► Model A196 MTP ◀



| Group | Pump Size | ANSI Designation | Discharge Size | Suction Size | X | A | B | D | SP | Bare Pump Weight Lbs. (kg) |
|-------------|--------------|------------------|----------------|--------------|------------|-------------|---------|------------|------------|----------------------------|
| STP | 1 x 1½ - 6 | AA | 1 | 1½ | 6.5 (165) | 13.5 (343) | 4 (102) | 5.25 (133) | 3.75 (95) | 84 (38) |
| | 1½ x 3 - 6 | AB | 1½ | 3 | | | | | | 92 (42) |
| | 2 x 3 - 6 | | 2 | 3 | | | | | | 95 (43) |
| | 1 x 1½ - 8 | AA | 1 | 1½ | | | | | | 100 (45) |
| | 1½ x 3 - 8 | AB | 1½ | 3 | | | | | | 108 (49) |
| MTP/ LTP | 3 x 4 - 7 | A70 | 3 | 4 | 11 (280) | 19.5 (495) | 4 (102) | 8.25 (210) | 3.75 (95) | 220 (100) |
| | 2 x 3 - 8 | A60 | 2 | 3 | 9.5 (242) | | | | | 220 (91) |
| | 3 x 4 - 8 | A70 | 3 | 4 | 11 (280) | | | | | 220 (100) |
| | 3 x 4 - 8G | A70 | 3 | 4 | | | | | | |
| | 1 x 2 - 10 | A05 | 1 | 2 | | | | | | |
| | 1½ x 3 - 10 | A50 | 1½ | 3 | 8.5 (216) | 19.5 (495) | 4 (102) | 10 (254) | | 220 (91) |
| | 2 x 3 - 10 | A60 | 2 | 3 | 9.5 (242) | | | | | 220 (100) |
| | 3 x 4 - 10 | A70 | 3 | 4 | 11 (280) | | | | | 230 (104) |
| | 3 x 4 - 10H | A40 | 3 | 4 | 12.5 (318) | | | | | 265 (120) |
| | 4 x 6 - 10 | A80 | 4 | 6 | 13.5 (343) | | | | | 305 (138) |
| | 4 x 6 - 10H | A80 | 4 | 6 | | | | | | |
| | 1½ x 3 - 13 | A20 | 1½ | 3 | | | | | | |
| | 2 x 3 - 13 | A30 | 2 | 3 | 11.5 (292) | | | | | 275 (125) |
| | 3 x 4 - 13 | A40 | 3 | 4 | 12.5 (318) | | | | | 330 (150) |
| | 4 x 6 - 13 | A80 | 4 | 6 | 13.5 (343) | | | | | 405 (184) |
| XLTP | 6 x 8 - 13 | A90 | 6 | 8 | 16 (406) | 27.875(708) | 6 (152) | 14.5 (368) | 5.25 (133) | 560 (254) |
| | 8 x 10 - 13 | A100 | 8 | 10 | 18 (457) | | | | | 670 (304) |
| | 6 x 8 - 15 | A110 | 6 | 8 | | | | | | 610 (277) |
| | 8 x 10 - 15 | A120 | 8 | 10 | 19 (483) | | | | | 740 (336) |
| | 8 x 10 - 15G | A120 | 8 | 10 | 19 (483) | | | | | 710 (322) |
| | 8 x 10 - 16H | A120 | 8 | 10 | 19 (483) | | | | | 850 (385) |
| | 4 x 6 - 17 | | 4 | 6 | 16 (406) | | | | | 650 (295) |
| | 6 x 8 - 17 | | 6 | 8 | 18 (457) | | | | | 730 (331) |
| | 8 x 10 - 17 | | 8 | 10 | 19 (483) | | | | 830 (376) | |

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