



PWH

**API 610
SINGLE STAGE OH2**

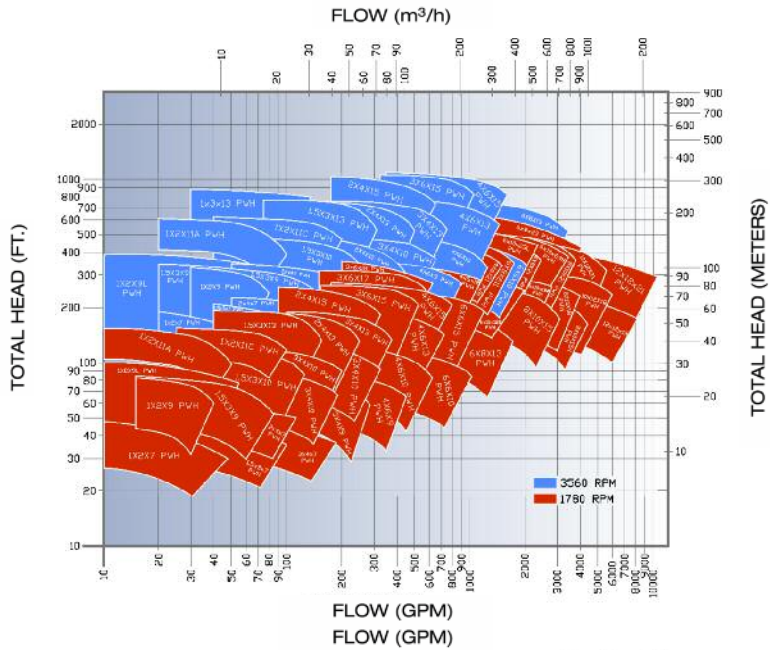


HYDRAULIC PERFORMANCE COVERAGE

60 Hz Performance Coverage



Visit our web site at www.pumpworks610.com and specify flow and performance needs and obtain pump selection and performance curve.

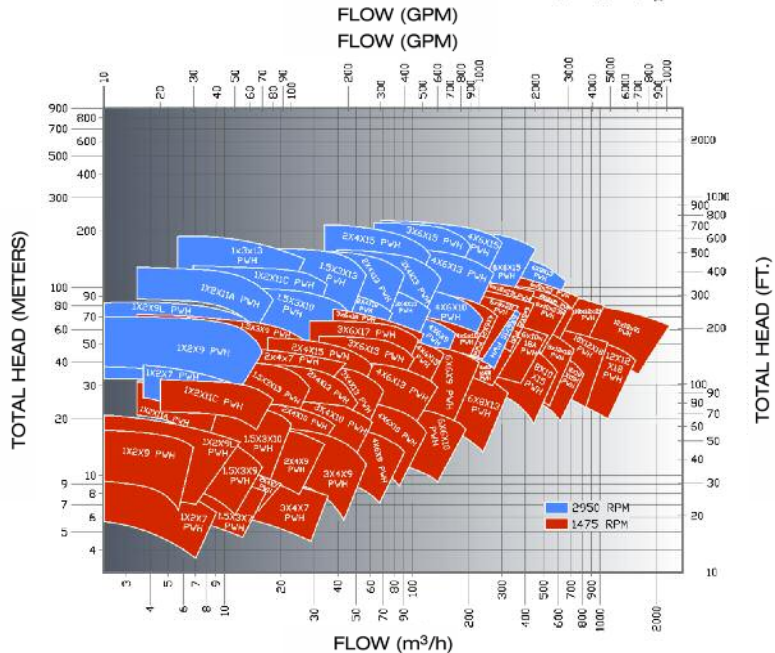


Performances shown are nominal and are to be used for preliminary selection only.

50 Hz Performance Coverage



Visit our web site at www.pumpworks610.com and specify flow and performance needs and obtain pump selection and performance curve.



STANDARD MATERIALS OF CONSTRUCTION

| API MATERIAL CLASS | S-6 | S-8 | C-6 | A-8 |
|---------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|
| CASING | A216 GRADE WCB | A216 GRADE WCB | A487 GRADE CA6NM | A351 GRADE CF3M |
| COVER | A516 GRADE 70 | A516 GRADE 70 | A479 TYPE 410SS | A479 TYPE 316/316L |
| IMPELLER | A743 GRADE CA6NM | A743 CF3M 316SS | A743 GRADE CA6NM | A743 CF3M 316SS |
| SHAFT | A276 TYPE 410SS CONDITION "T" | ASTM A479 TYPE XM 19 | A276 TYPE 410SS CONDITION "T" | ASTM A479 TYPE XM 19 |
| IMPELLER LOCK NUT | A479 TYPE 316L | NITRONIC 60 | A479 TYPE 316L | NITRONIC 60 |
| BEARING HOUSING | A216 GRADE WCB CARBON STEEL | A216 GRADE WCB CARBON STEEL | A216 GRADE WCB CARBON STEEL | A216 GRADE WCB CARBON STEEL |
| IMPELLER WEAR RINGS | 410 SS HT: 262-302 BHN | NITRONIC 50 | 410 SS HT: 262-302 BHN | NITRONIC 50 |
| CASING WEAR RINGS | 420 SS HT: 400-450 BHN | NITRONIC 60 | 420 SS HT: 400-450 BHN | NITRONIC 60 |
| THROAT BUSHING | 420 SS HT: 400-450 BHN | NITRONIC 60 | 420 SS HT: 400-450 BHN | NITRONIC 60 |
| CASING STUDS | A193 GRADE B-7 | A193 GRADE B-7 | A193 GRADE B-7 | A193 GRADE B-8 |
| CASING NUTS | A194 GRADE 2H | A194 GRADE 2H | A194 GRADE 2H | A194 GRADE B8M |

*Other API 610 Material Classes and Combinations are available

DESIGN FEATURES AND BENEFITS

Quality

- Manufactured and tested in the USA

Dual Volute Casing

- On 4" discharge and larger pump sizes
- Minimizes radial loads and shaft deflection increasing mechanical seal and bearing life
- Suction and discharge flanges are ANSI Class 300# RF as standard. Other flange ratings available for higher pressure applications

Discharge Nozzle

- Tangential discharge maximizes hydraulic efficiency

Drain & Vent Ports

- Threaded or socket welded
- Socket welded drain port two-plane gusseted and piped to skid edge 3/4" SCH 160 300# RF

Casing Mounting Feet

- Gusseted and oversized to meet stringent API nozzle loading criteria

Nozzle Load

- Casing & baseplate design exceeds current edition API 610 nozzle load requirement

Impeller Retention

- Keyed and secured to shaft with exclusive dual set-screw locknut

Pump Casing

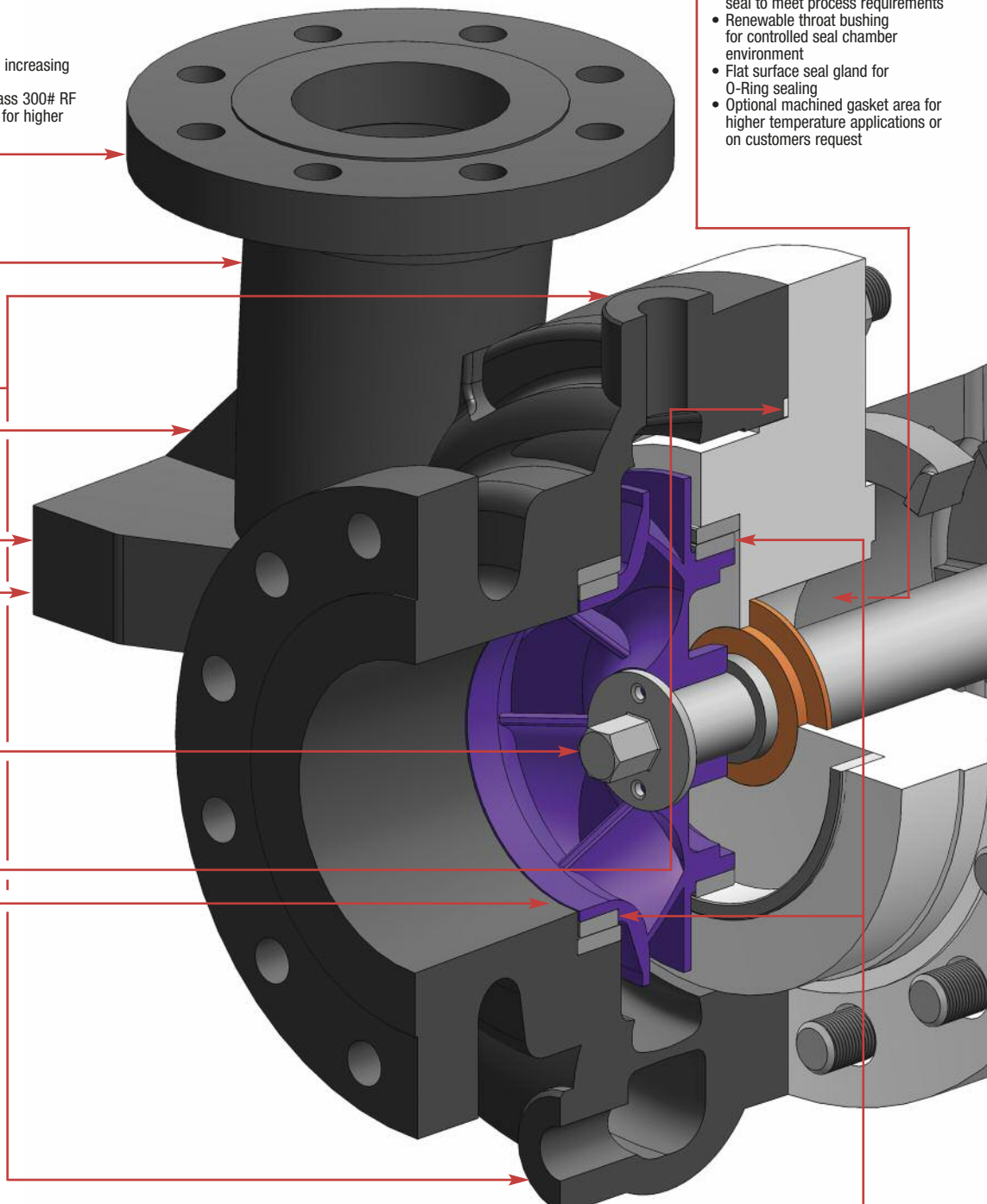
- Precision machining and fully confined controlled compression gasket ensures proper sealing and case to cover alignment

Impeller

- Fully enclosed design provides increased efficiency
- Dynamically balanced to ISO G1.0 criteria before mounting

Casing Cover and Seal Chamber

- API 610 seal chamber allows user to install any API 682 cartridge seal to meet process requirements
- Renewable throat bushing for controlled seal chamber environment
- Flat surface seal gland for O-Ring sealing
- Optional machined gasket area for higher temperature applications or on customers request



ePOD Pump Selector

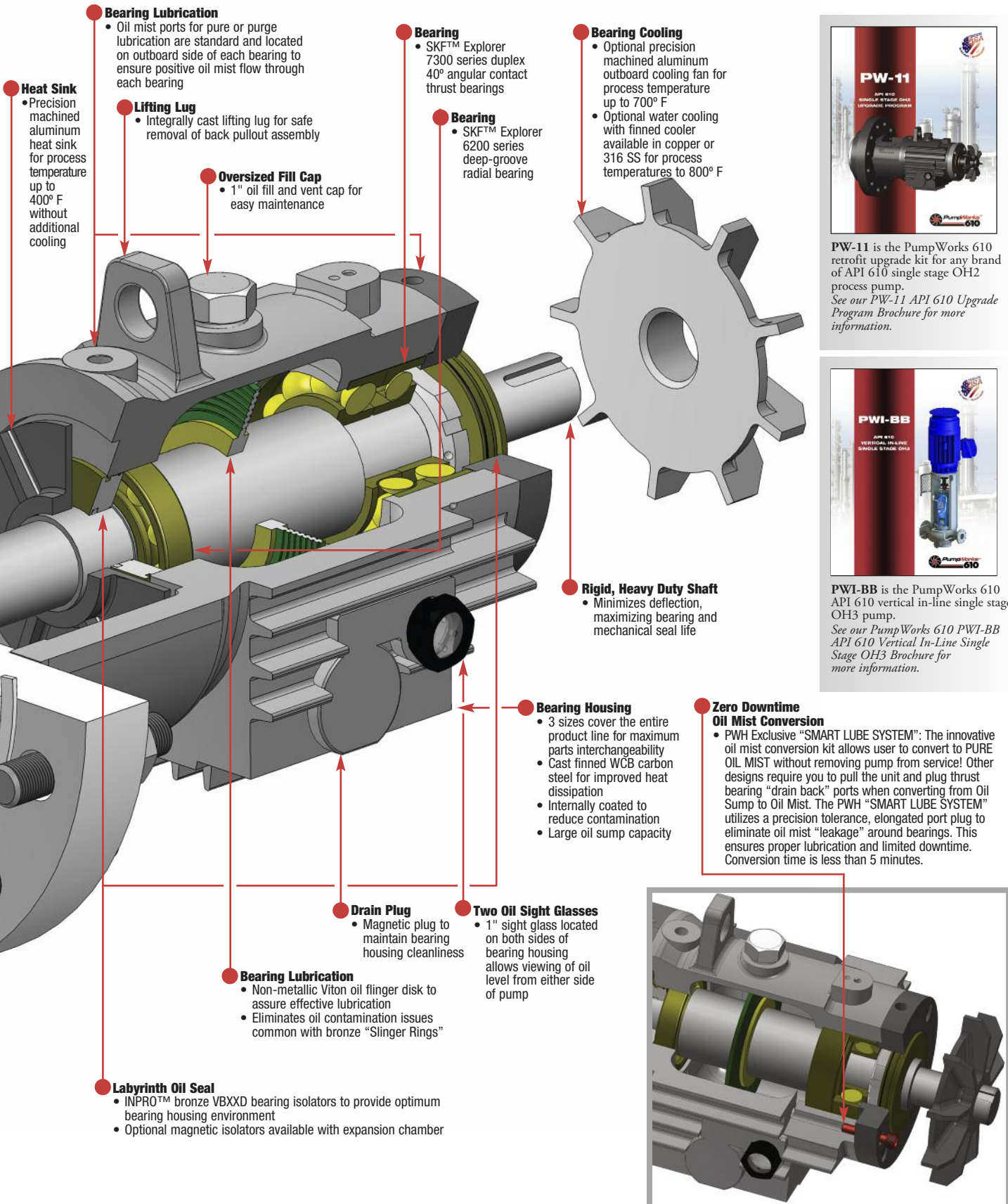
- Access to end users and specifiers to select your pump online at www.pumpworks610.com – no password or login required.

Delivery

- 16 weeks for API 610 material class S-6, S-8 and C-6
- Refer to the factory on deliveries for other API material classes and customer specific material combinations

Renewable Casing and Impeller Wear Rings

- Front and back rings control seal chamber pressure and provides impeller stability
- Optional non-metallic rings for improved efficiency and dry running



Heat Sink

- Precision machined aluminum heat sink for process temperature up to 400° F without additional cooling

Bearing Lubrication

- Oil mist ports for pure or purge lubrication are standard and located on outboard side of each bearing to ensure positive oil mist flow through each bearing

Lifting Lug

- Integrally cast lifting lug for safe removal of back pullout assembly

Oversized Fill Cap

- 1" oil fill and vent cap for easy maintenance

Bearing

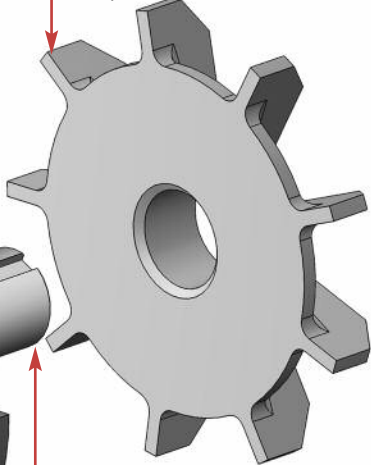
- SKF™ Explorer 7300 series duplex 40° angular contact thrust bearings

Bearing

- SKF™ Explorer 6200 series deep-groove radial bearing

Bearing Cooling

- Optional precision machined aluminum outboard cooling fan for process temperature up to 700° F
- Optional water cooling with finned cooler available in copper or 316 SS for process temperatures to 800° F



Rigid, Heavy Duty Shaft

- Minimizes deflection, maximizing bearing and mechanical seal life

Bearing Housing

- 3 sizes cover the entire product line for maximum parts interchangeability
- Cast finned WCB carbon steel for improved heat dissipation
- Internally coated to reduce contamination
- Large oil sump capacity

Zero Downtime Oil Mist Conversion

- PWH Exclusive "SMART LUBE SYSTEM": The innovative oil mist conversion kit allows user to convert to PURE OIL MIST without removing pump from service! Other designs require you to pull the unit and plug thrust bearing "drain back" ports when converting from Oil Sump to Oil Mist. The PWH "SMART LUBE SYSTEM" utilizes a precision tolerance, elongated port plug to eliminate oil mist "leakage" around bearings. This ensures proper lubrication and limited downtime. Conversion time is less than 5 minutes.

Drain Plug

- Magnetic plug to maintain bearing housing cleanliness

Two Oil Sight Glasses

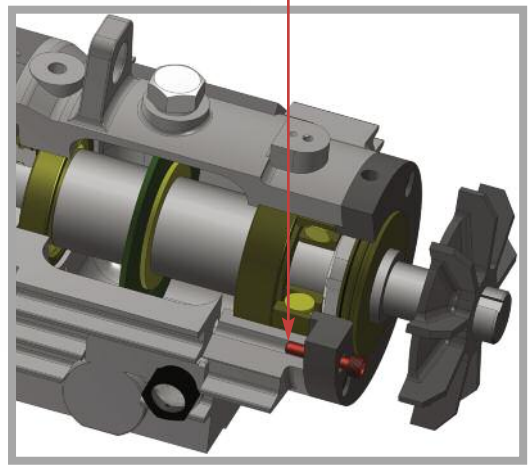
- 1" sight glass located on both sides of bearing housing allows viewing of oil level from either side of pump

Bearing Lubrication

- Non-metallic Viton oil flinger disk to assure effective lubrication
- Eliminates oil contamination issues common with bronze "Slinger Rings"

Labyrinth Oil Seal

- INPRO™ bronze VBXXD bearing isolators to provide optimum bearing housing environment
- Optional magnetic isolators available with expansion chamber



PW-11
API 610 SINGLE STAGE OH2 PROCESS PUMP

PW-11 is the PumpWorks 610 retrofit upgrade kit for any brand of API 610 single stage OH2 process pump. See our PW-11 API 610 Upgrade Program Brochure for more information.



PWI-BB
API 610 VERTICAL IN-LINE SINGLE STAGE OH3

PWI-BB is the PumpWorks 610 API 610 vertical in-line single stage OH3 pump. See our PumpWorks 610 PWI-BB API 610 Vertical In-Line Single Stage OH3 Brochure for more information.

PWH API 610 PROCESS PUMP

PUMP AND DRIVER DIMENSIONS

| PUMP SIZE | FRAME SIZE | CP (Brg) | X | Y | Z | SUCTION | DISCHARGE |
|-----------|------------|----------|--------|--------|--------|---------|-----------|
| 1x2x7 | I-7 | 25.15 | 8.5 | 5.75 | 4.125 | 2 | 1 |
| 1.5x3x7 | | 25.28 | 8.75 | 6.25 | 4.25 | 3 | 1.5 |
| 2x4x7 | | 25.28 | 9.25 | 6.25 | 4.5 | 4 | 2 |
| 3x4x7 | I-9 | 25.28 | 9.5 | 6.25 | 4.75 | 4 | 3 |
| 1x2x9 | | 25.15 | 8.500 | 5.375 | 5.188 | 2 | 1 |
| 1x2x9L | | 25.15 | 8.500 | 5.375 | 5.188 | 2 | 1 |
| 1.5x3x9 | I-9A | 25.29 | 8.500 | 6.642 | 5.125 | 3 | 1.5 |
| 2x4x9 | | 25.21 | 9.500 | 7.000 | 5.500 | 4 | 2 |
| 3x4x9 | | 25.28 | 9.500 | 7.375 | 5.375 | 4 | 3 |
| 6x6x9 | I-10 | 26.34 | 13.000 | 8.000 | 7.875 | 6 | 6 |
| 1.5x3x10 | | 25.53 | 10.500 | 6.906 | 5.875 | 3 | 1.5 |
| 2x4x10 | | 25.28 | 10.031 | 5.438 | 5.847 | 4 | 2 |
| 3x4x10A | I-10 | 25.65 | 10.063 | 7.438 | 6.313 | 4 | 3 |
| 3x4x10B | | 25.65 | 10.063 | 7.438 | 6.313 | 4 | 3 |
| 4x6x10 | | 25.62 | 10.500 | 6.671 | 6.875 | 6 | 4 |
| 6x6x10 | I-11 | 25.65 | 11.188 | 6.625 | 6.888 | 6 | 6 |
| 1x2x11A | | 25.53 | 10.000 | 6.875 | 5.688 | 2 | 1 |
| 1x2x11B | | 25.53 | 10.000 | 6.875 | 5.688 | 2 | 1 |
| 1x2x11BL | I-11 | 25.53 | 10.000 | 6.875 | 5.688 | 2 | 1 |
| 1x2x11C | | 25.53 | 10.000 | 6.875 | 5.688 | 2 | 1 |
| 1x3x13 | | 28.19 | 12.500 | 8.687 | 6.750 | 3 | 1 |
| 1x3x13LL | II-13 | 28.19 | 12.500 | 8.687 | 6.750 | 3 | 1 |
| 1.5x3x13 | | 27.88 | 11.875 | 7.000 | 6.875 | 3 | 1.5 |
| 2x4x13 | | 27.75 | 13.063 | 7.625 | 7.815 | 4 | 2 |
| 3x4x13 | II-13 | 27.75 | 13.063 | 7.500 | 8.375 | 4 | 3 |
| 4x6x13 | | 27.88 | 14.000 | 9.938 | 9.250 | 6 | 4 |
| 6x8x13 | | 28.44 | 15.063 | 9.188 | 10.500 | 8 | 6 |
| 2x4x15 | II-15 | 28.19 | 13.000 | 8.000 | 8.375 | 4 | 2 |
| 3x6x15 | | 27.91 | 12.368 | 8.063 | 9.188 | 6 | 3 |
| 4x6x15 | | 28.38 | 13.688 | 9.313 | 10.313 | 6 | 4 |
| 4x6x15B | II-15 | 28.38 | 13.688 | 9.313 | 10.313 | 6 | 4 |
| 6x6x15 | | 28.13 | 14.875 | 9.562 | 10.312 | 6 | 6 |
| 8x10x15 | | 28.57 | 16.063 | 10.430 | 12.250 | 10 | 8 |
| 8x10x15H | II-17 | 28.57 | 16.063 | 10.430 | 12.250 | 10 | 8 |
| 3x6x17 | | 28.00 | 13.375 | 8.063 | 10.188 | 6 | 3 |
| 3x6x18 | | II-18 | 29.94 | 14.500 | 9.000 | 11.000 | 6 |
| 4x6x18 | 30.19 | | 15.000 | 11.000 | 12.000 | 6 | 4 |
| 6x10x18A | 29.94 | | 16.000 | 11.187 | 12.250 | 10 | 6 |
| 6x10x18B | II-18 | 29.94 | 16.000 | 11.187 | 12.250 | 10 | 6 |
| 6x10x18C | | 29.94 | 16.000 | 11.187 | 12.250 | 10 | 6 |
| 8x10x18 | | 29.94 | 19.000 | 10.000 | 14.500 | 10 | 8 |
| 4x6x21 | II-21 | 29.00 | 16.063 | 11.375 | 12.688 | 6 | 4 |
| 6x8x21 | | 29.13 | 16.063 | 10.031 | 14.440 | 8 | 6 |
| 6x8x21L | | 29.13 | 16.063 | 10.031 | 14.440 | 8 | 6 |
| 8x10x21 | III-18 | 29.50 | 19.125 | 10.250 | 15.500 | 10 | 8 |
| 10x12x18 | | 31.38 | 18.250 | 16.000 | 15.000 | 12 | 10 |
| 12x12x18 | | 31.44 | 24.000 | 20.000 | 19.500 | 12 | 12 |
| 10x12x21 | III-21 | 31.44 | 18.000 | 16.000 | 15.750 | 12 | 10 |
| 12x12x21 | | 31.50 | 24.500 | 22.000 | 20.250 | 12 | 12 |
| 6x8x23 | | III-23 | 31.31 | 18.000 | 11.500 | 15.750 | 8 |
| 6x10x23L | 31.50 | | 18.000 | 12.000 | 16.000 | 10 | 6 |
| 6x10x23M | 31.50 | | 18.000 | 11.500 | 16.000 | 10 | 6 |

| PUMP | MOTOR | BASEPLATE # | MIN. CL | PUMP | MOTOR | BASEPLATE # | MIN. CL |
|---|--|-------------|---------|----------------------------------|--------------------------------------|-------------|----------|
| 1x2x7 | 184T, 213-215T | API # 3 | 8.250 | 1x3x13 1x3x13LL | 256T, 284-286T/TS, 324-326T/TS | API # 5 | 10.500 |
| | 254-256TS 324T | API # 3.5 | 9.500 | | 364,365T/TS | API # 5.5 | 10.500 |
| 1.5x3x7 | 184T, 213-215T | API # 3 | 8.250 | 1.5x3x13 | 256T, 284-286T/TS, 324-326T/TS | API # 5.5 | 10.500 |
| | 254-256TS 324T | API # 3.5 | 9.500 | | 404-405T | API # 6 | 12.000 |
| 2x4x7 | 184T, 213-215T | API # 3 | 8.250 | 2x4x13 | 326T, 364-365T/TS | API # 7 | 11.000 |
| | 254-256TS 324T | API # 3.5 | 9.500 | | 404-405T, 405TS | API # 6 | 11.500 |
| 3x4x7 | 184T, 213-215T | API # 3 | 8.250 | 3x4x13 | 444-445T | API # 6.5 | 12.500 |
| | 254-256TS 324T | API # 3.5 | 9.500 | | 326T, 364-365T/TS | API # 7 | 11.000 |
| 1x2x9 | 184T, 213-215T | API # 3 | 8.500 | 4x6x13 | 404-405T, 405TS | API # 7 | 12.000 |
| | 254-256TS 324T | API # 3.5 | 9.500 | | 444-445T/TS | API # 7.5 | 13.000 |
| 1x2x9L | 184T, 213-215T | API # 3 | 8.500 | 6x8x13 | 447T/TS, 449T | API # 7.5 | 13.000 |
| | 254-256TS 324T | API # 3.5 | 9.500 | | 326T, 364-365T/TS | API # 6 | 11.000 |
| 1.5x3x9 | 213-215T | API # 3 | 8.500 | 2x4x15 | 404-405T, 405TS | API # 6 | 11.750 |
| | 254-256T | API # 3.5 | 8.500 | | 444-445T/TS | API # 6.5 | 12.500 |
| 2x4x9 | 284TS, 286T | API # 3.5 | 13.000 | 3x6x15 | 405T/TS | API # 6 | 13.500 |
| | 324-326T | API # 3.5 | 13.000 | | 444-445T/TS | API # 6.5 | 13.500 |
| 3x4x9 | 254-256T, 284-286T/TS, 324-326T/TS, 364T/TS, 365T | API # 3.5 | 14.000 | 4x6x15B | 447-449T/TS | API # 10 | 13.500 |
| | 404-405T | API # 4 | 14.000 | | 445T/TS | API # 7 | 14.250 |
| 6x6x9 | 326T | API # 7 | 17.250 | 6x6x15 | 447-449T/TS | API # 7.5 | 14.250 |
| | 364-365T/TS, 404-405T, 405TS | API # 7 | 17.250 | | 447-449T/TS | API # 10 | 13.500 |
| 1.5x3x10 | 215T | API # 3 | 9.500 | 8x10x15 | 405T/TS | API # 6 | 13.500 |
| | 254-256T, 284-286T/TS, 324-326T/TS | API # 3.5 | 9.500 | | 444-445T/TS | API # 6.5 | 13.500 |
| 2x4x9 | 364-365T | API # 4 | 10.500 | 8x10x15H | 447-449T/TS | API # 10 | 13.500 |
| | 404T | API # 4 | 11.500 | | 405T, 444-445T | API # 10 | 18.000 |
| 2x4x10 | 254-256T, 284-286T/TS, 324-326T/TS | API # 3.5 | 9.500 | 3x6x17 | 447-449T | API # 12 | 18.000 |
| | 364T/TS, 365T | API # 3.5 | 10.500 | | 444-445T | API # 10 | 18.000 |
| 3x4x10 | 404-405T | API # 4 | 11.500 | 6x8x21 | 447-449T | API # 12 | 19.250 |
| | 286T/TS, 324-326T/TS | API # 3.5 | 10.000 | | 445T/TS | API # 8 | 14.000 |
| 4x6x10 | 364-365T/TS | API # 4 | 10.500 | 8x10x18 | 447-449T/TS | API # 12 | 19.250 |
| | 404-405T | API # 4 | 11.500 | | 3x6x18 | 447-449T | API # 10 |
| 6x6x10 | 444T/TS, 445T, 447T | API # 6.5 | 12.500 | 6x10x18A 6x10x18B 6x10x18C | 444-445T | API # 10 | 19.250 |
| | 324-326T/TS | API # 5.5 | 11.500 | | 447-449T | API # 10 | 19.250 |
| 4x6x10 | 364-365T/TS | API # 6 | 11.500 | 6x8x21L | 444-445T | API # 12 | 19.250 |
| | 404-405T, 405TS | API # 6 | 11.500 | | 447-449T | API # 12 | 19.250 |
| 6x6x10 | 444-445T/TS, 447-449T | API # 6.5 | 12.500 | 8x10x21 | 444-445T | API # 10 | 20.750 |
| | 326T | API # 5.5 | 13.750 | | 10x12x18 | 447-449T | API # 12 |
| 1x2x11A 1x2x11B 1x2x11BL 1x2x11C | 364-365T/TS, 404-405T, 405TS | API # 6 | 10.500 | 10x12x18 | 447-449T | API # 12 | 21.500 |
| | 444-445T/TS, 447T/TS, 449T | API # 6.5 | 10.500 | | 12x12x18 | 447-449T | API # 12 |
| 1x2x11A 1x2x11B 1x2x11BL 1x2x11C | 256T, 284-286T/TS | API # 3.5 | 8.750 | 6x8x23 | 447-449T | API # 12 | 23.500 |
| | 324-326T/TS | API # 3.5 | 9.500 | | 6x10x23L | 447-449T | API # 12 |
| 1x2x11A 1x2x11B 1x2x11BL 1x2x11C | 364-365T/TS | API # 4 | 10.500 | 6x10x23M | 447-449T | API # 12 | 24.000 |
| | 404-405T | API # 4 | 11.500 | | | | |

BASEPLATE DIMENSIONS

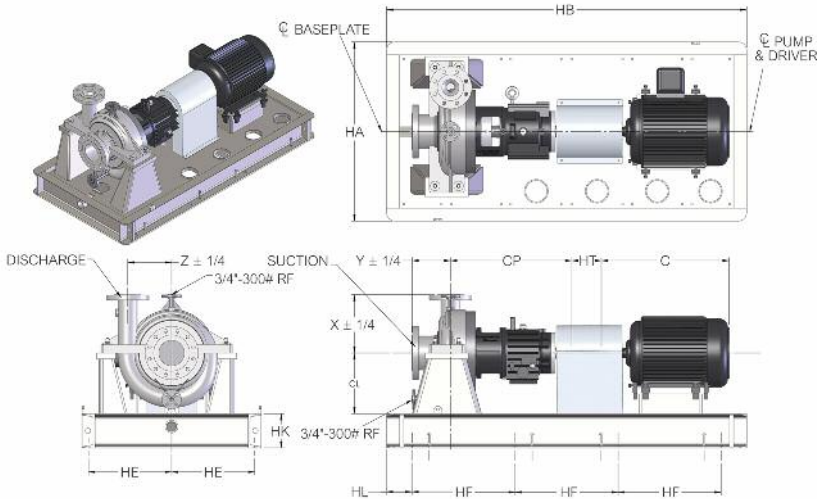
| BASEPLATE # | HA | HB | HE | # HOLES PER SIDE | HF | HL | HK |
|-------------|--------|---------|--------|------------------|-------|------|------|
| API # 3 | 36.000 | 72.500 | 16.500 | 3 | 30.25 | 6.00 | 8.00 |
| API # 3.5 | 36.000 | 84.500 | 16.500 | 4 | 24.16 | 6.00 | 8.00 |
| API # 4 | 36.000 | 96.500 | 16.500 | 4 | 28.16 | 6.00 | 8.00 |
| API # 5 | 42.000 | 72.500 | 19.500 | 3 | 30.25 | 6.00 | 8.00 |
| API # 5.5 | 42.000 | 84.500 | 19.500 | 4 | 24.16 | 6.00 | 8.00 |
| API # 6 | 42.000 | 96.500 | 19.500 | 4 | 28.16 | 6.00 | 8.00 |
| API # 6.5 | 42.000 | 108.500 | 19.500 | 5 | 24.12 | 6.00 | 8.00 |
| API # 7 | 49.000 | 84.500 | 23.000 | 4 | 24.16 | 6.00 | 8.00 |
| API # 7.5 | 49.000 | 96.500 | 23.000 | 4 | 28.16 | 6.00 | 8.00 |
| API # 8 | 49.000 | 108.500 | 23.000 | 5 | 24.12 | 6.00 | 8.00 |
| API # 9 | 55.000 | 84.500 | 26.000 | 4 | 24.16 | 6.00 | 8.00 |
| API # 9.5 | 55.000 | 96.500 | 26.000 | 4 | 28.16 | 6.00 | 8.00 |
| API # 10 | 55.000 | 108.500 | 26.000 | 5 | 24.12 | 6.00 | 8.00 |
| API # 11 | 61.000 | 84.500 | 29.000 | 4 | 24.16 | 6.00 | 8.00 |
| API # 11.5 | 61.000 | 96.500 | 29.000 | 4 | 28.16 | 6.00 | 8.00 |
| API # 12 | 61.000 | 108.500 | 29.000 | 5 | 24.12 | 6.00 | 8.00 |

NOTES

1. DIMENSIONS ARE IN INCHES
2. DIMENSIONS OF PUMP ARE ± 0.12" UNLESS OTHERWISE NOTED
3. DIMENSIONAL TOLERANCES OF MOTOR ARE IN COMPLIANCE WITH NEMA MG-1
4. PUMP FLANGE RATINGS ARE ANSI B16.5 300# RF
5. CCW ROTATION VIEWED FROM COUPLING END
6. BASEPLATE DIMENSIONS NOT TO BE USED FOR CONSTRUCTION

PWH API 610 PROCESS PUMP

OUTLINE DIMENSIONS



MOTOR DIMENSIONS

| FRAME SIZE | C* |
|-------------|-------|
| 184T | 16.25 |
| 213-215T | 19.50 |
| 254-256T/TS | 25.25 |
| 284-286T/TS | 28.18 |
| 324-326T/TS | 31.19 |
| 364-365T/TS | 33.44 |
| 404-405T | 38.38 |
| 404-405TS | 37.00 |
| 444-445T | 45.88 |
| 444-445TS | 44.00 |
| 447-449T | 55.12 |
| 447-449TS | 54.00 |

* = Dimensions may vary

TECHNICAL DATA

| Pump Size | Pump Size | | | | | | | | | | | | | | | | | | | |
|------------------|----------------------------------|---------|------|------|------|-------|--------|------|------|------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| | 1x27 | 1.5x37 | 2x47 | 3x47 | 1x29 | 1x29L | 1.5x39 | 2x49 | 3x49 | 6x9 | 1.5x10 | 2x10 | 3x10 | 4x10 | 6x10 | 1x21A | 1x21B | 1x21BL | 1x21C | |
| Flange | Suction - 300# RF (IN) | 2.00 | 3.00 | 4.00 | 4.00 | 2.00 | 2.00 | 3.00 | 4.00 | 4.00 | 6.00 | 3.00 | 4.00 | 4.00 | 6.00 | 6.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| | Discharge - 300# RF (IN) | 1.00 | 1.50 | 2.00 | 3.00 | 1.00 | 1.00 | 1.50 | 2.00 | 3.00 | 6.00 | 1.50 | 2.00 | 3.00 | 4.00 | 6.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MAWP | S-6 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | |
| | S-8 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | |
| | C-6 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | |
| | A-8 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | |
| Mechanical Group | I-7 | | | I-9 | | | I-9A | | | I-10 | | | I-11 | | | | | | | |
| | Bearing Frame | | | | | | | | | | | | | | | | | | | |
| | Volute Type | | | | | | | | | | | | | | | | | | | |
| AUX PORTS | Discharge (Flush) (IN) | SINGLE | | | | | | | | | | | | | | | | | | |
| | Vent (IN) | SINGLE | | | | | | | | | | | | | | | | | | |
| | Drain (IN) | DOUBLE | | | | | | | | | | | | | | | | | | |
| | Suction (IN) | SINGLE | | | | | | | | | | | | | | | | | | |
| SHAFT | Max Impeller (IN) | 7.00 | 7.00 | 7.00 | 7.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 10.50 | 10.50 | 10.50 | 10.50 | 10.50 | 11.12 | 11.12 | 11.12 | 11.12 |
| | Min Impeller (IN) | 5.50 | 5.50 | 5.50 | 5.50 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.75 | 9.50 | 8.75 | 9.50 |
| | Diameter at Coupling (IN) | 1.63 | | | | | | | | | | | | | | | | | | |
| | Keyway at Coupling (IN) | 0.38 | | | | | | | | | | | | | | | | | | |
| | Extension at coupling (IN) | 3.50 | | | | | | | | | | | | | | | | | | |
| | Diameter at Mechanical Seal (IN) | 2.00 | | | | | | | | | | | | | | | | | | |
| | Diameter Between Bearings (IN) | 3.00 | | | | | | | | | | | | | | | | | | |
| | Distance Between Bearings (IN) | 7.74 | | | | | | | | | | | | | | | | | | |
| | Radial Bearing | 6212.00 | | | | | | | | | | | | | | | | | | |
| | Thrust Bearing | 7312x2 | | | | | | | | | | | | | | | | | | |
| | Maximum RPM | 3560.00 | | | | | | | | | | | | | | | | | | |
| | Maximum HP/100 RPM | 2.00 | | | | | | | | | | 4.50 | | | | | | | | |

| Pump Size | Pump Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------------------------|----------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|---------|-------|---------|-------|---------|---------|---------|--------|-------|-------|--------|--------|---------|---------|---------|---------|-------|---------|---------|
| | 1x313 | 1.5x313L | 1.5x313 | 2x413 | 3x413 | 4x613 | 6x813 | 2x415 | 3x615 | 4x615 | 4x615B | 6x815 | 8x1015 | 8x1015H | 3x617 | 3x618 | 4x618 | 6x1018A | 6x1018B | 6x1018C | 8x1018 | 4x621 | 6x821 | 6x821L | 8x1021 | 10x1218 | 12x1218 | 10x1221 | 12x1221 | 6x823 | 6x1023L | 6x1023M |
| Flange | Suction - 300# RF (IN) | 3.00 | 3.00 | 3.00 | 4.00 | 4.00 | 4.00 | 6.00 | 8.00 | 4.00 | 6.00 | 6.00 | 6.00 | 6.00 | 10.00 | 10.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| | Discharge - 300# RF (IN) | 1.00 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 6.00 | 2.00 | 3.00 | 4.00 | 4.00 | 6.00 | 8.00 | 8.00 | 3.00 | 3.00 | 4.00 | 6.00 | 6.00 | 6.00 | 8.00 | 4.00 | 6.00 | 6.00 | 8.00 | 10.00 | 12.00 | 10.00 | 12.00 | 8.00 | 6.00 |
| MAWP | S-6 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S-8 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C-6 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A-8 (PSIG @ 100°F) | 740.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanical Group | II-13 | | | | | | | II-15 | | | | | | | II-17 | | | II-18 | | | II-21 | | | III-18 | | III-21 | | III-23 | | | | |
| | Bearing Frame | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Volute Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUX PORTS | Discharge (Flush) (IN) | SINGLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Vent (IN) | SINGLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Drain (IN) | DOUBLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Suction (IN) | DOUBLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHAFT | Max Impeller (IN) | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 | 17.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 | 21.00 | 21.00 | 21.00 | 18.00 | 18.00 | 21.00 | 21.00 | 23.50 | 23.00 | 23.00 |
| | Min Impeller (IN) | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 11.63 | 13.50 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 13.75 | 16.00 | 14.00 | 14.00 | 13.50 | 13.50 | 17.00 | 17.00 | 17.50 | 17.00 | 18.00 |
| | Diameter at Coupling (IN) | 2.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Keyway at Coupling (IN) | 0.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Extension at coupling (IN) | 3.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Diameter at Mechanical Seal (IN) | 2.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Diameter Between Bearings (IN) | 3.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Distance Between Bearings (IN) | 8.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Radial Bearing | 6215.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Thrust Bearing | 7314x2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Maximum RPM | 3560.00 | | | | | | | | | | | | | | 1780.00 | | | | | | | | | | | | | | | | |
| | Maximum HP/100 RPM | 5.00 | 1.90 | 6.90 | 8.00 | 11.50 | 15.00 | 6.10 | 7.50 | 13.20 | 13.50 | 7.70 | 8.80 | 11.90 | 12.50 | 3.50 | 6.00 | 12.00 | 8.00 | 11.00 | 15.00 | 9.00 | 15.00 | 13.00 | 23.00 | 23.00 | 28.00 | 35.38 | 51.43 | 31.87 | 19.17 | 25.73 |



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