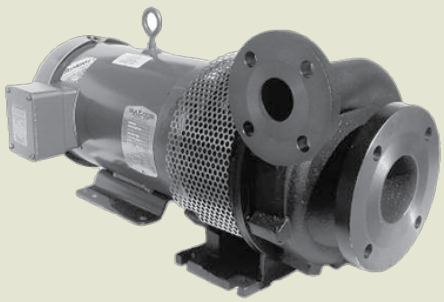
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# HTO™ 180

## 3" x 1-1/2" End Suction Centrifugal Hot Oil Pump

HTO180 is a patented, unique centrifugal pump designed for high temperature applications, such as the plastics, chemical, food and processing industries. The pump can be used in horizontal or vertical positions and is available with or without an electric motor.  It is designed to greatly reduce the temperature at the seal by utilizing ambient air temperature which greatly increases seal life.

Want to learn more about using pumps with heat transfer fluids? Click here to view “Using Pumps with Heat Transfer Fluids” an article featured in Process Heating Magazine written by MP Pumps’ Chief Engineer.



### Application

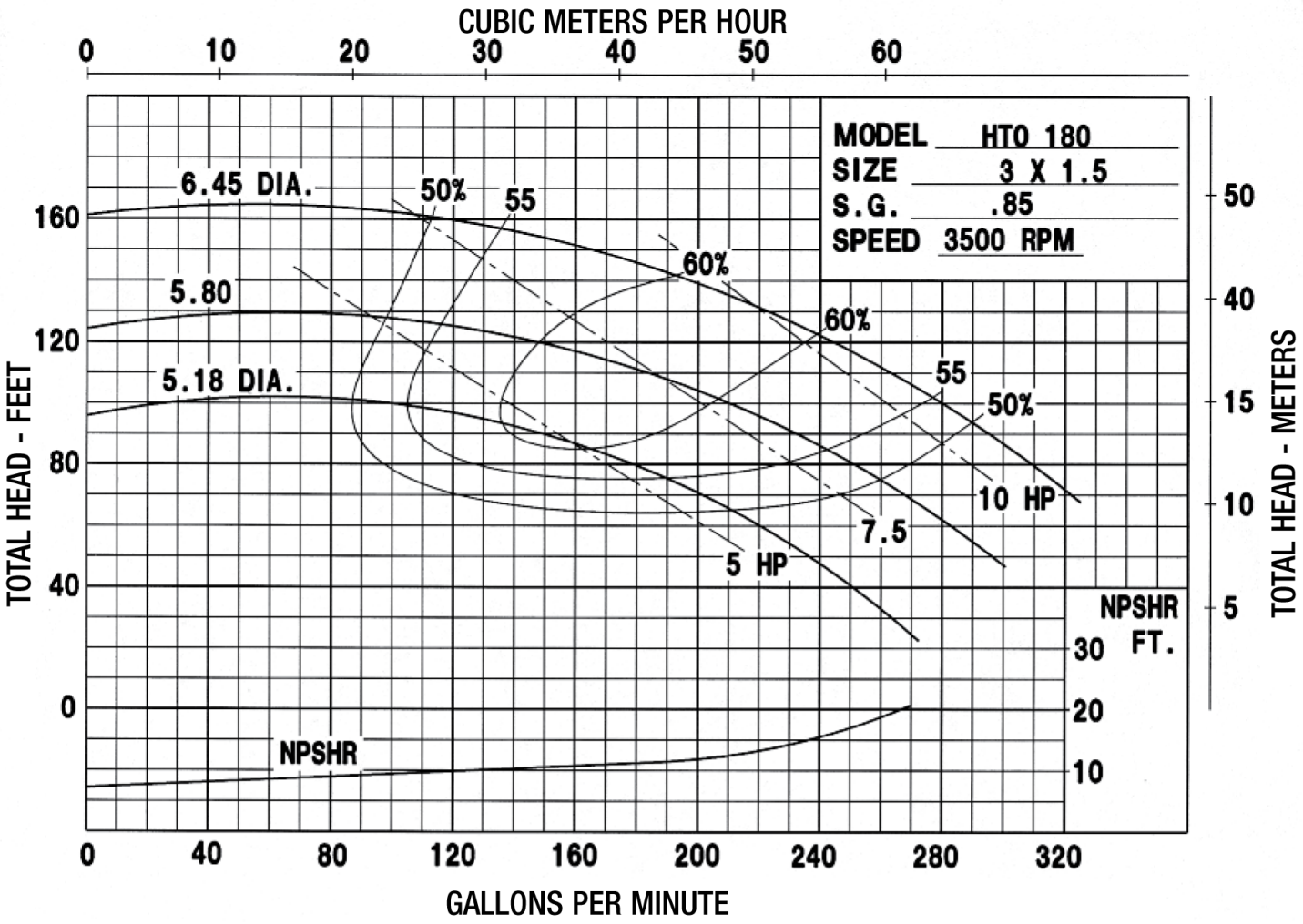
- Industrial
- OEM

### Drive Sleeve

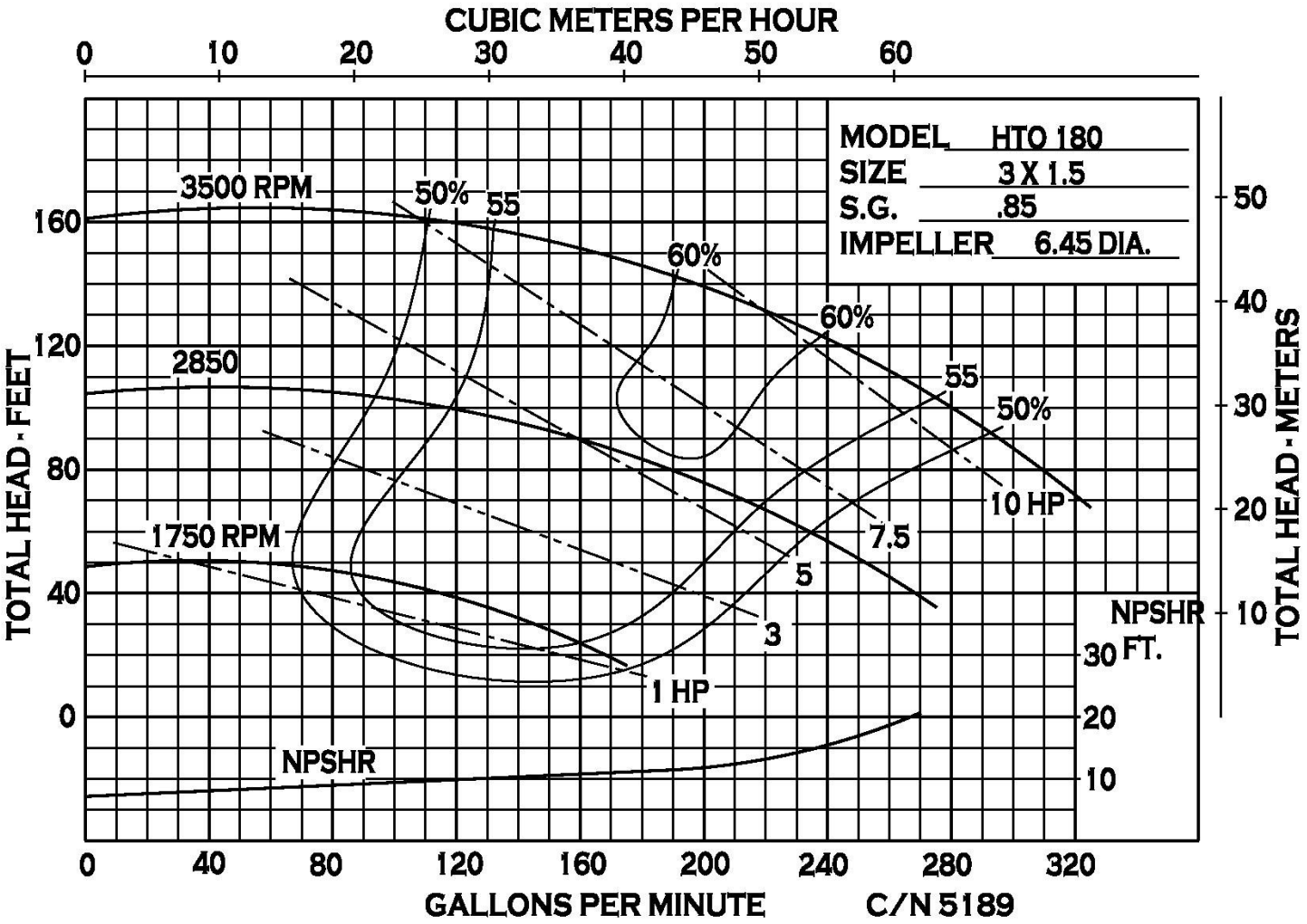
- 303 stainless steel

## SPECIFICATIONS:

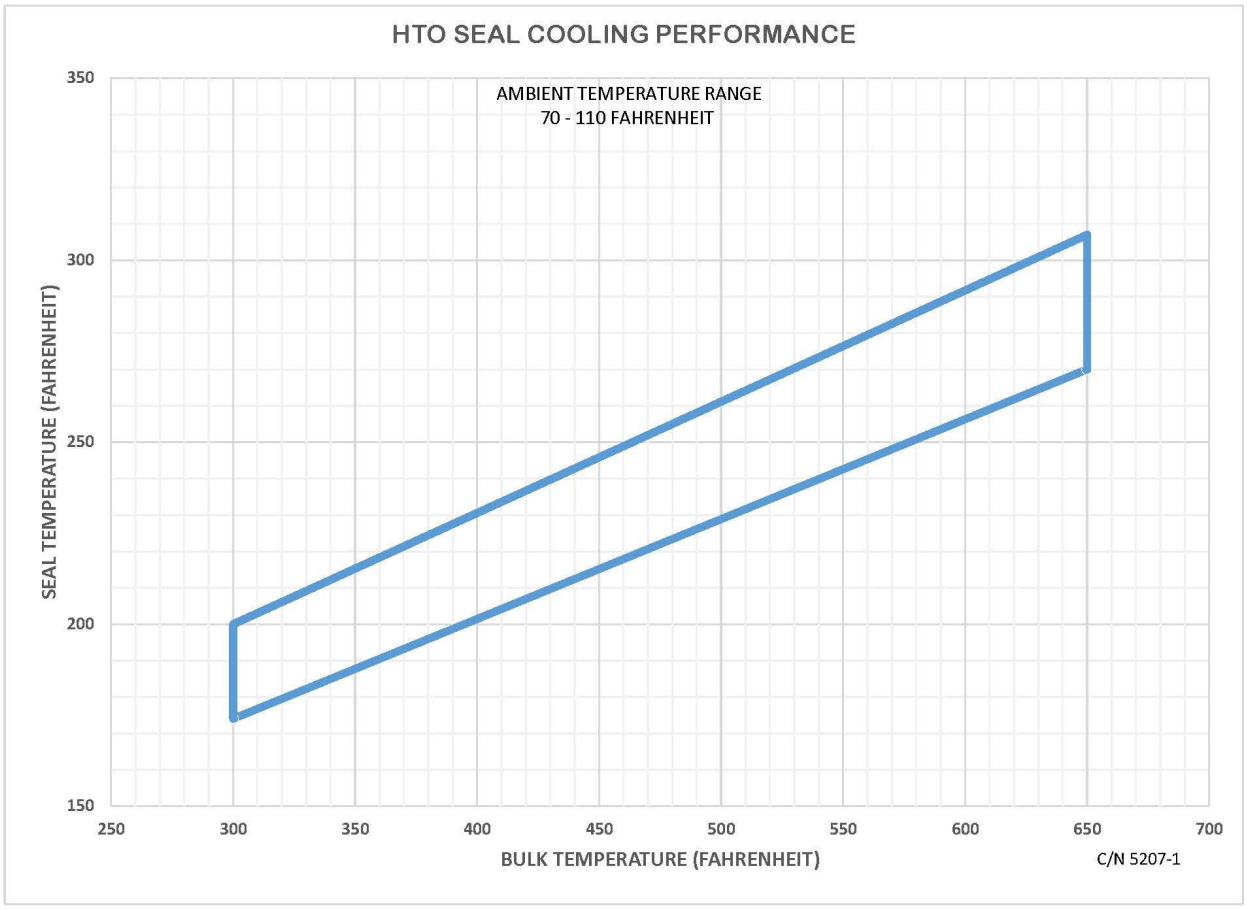
| | |
|---|---|
| Suction And Discharge | 3" x 1-1/2" ANSI 150# flat flange |
| Materials Of Construction | Ductile iron |
| Flow | Up to 320 GPM |
| Head Feet | Up to 160' |
| Impeller | 6.45" |
| Motor | Up to 10 HP |
| Drive Options | Close coupled 184TC, Close coupled 215TC, Pedestal, PumPAK® (without motor) |
| Seal | Carbon / silicon carbide / Viton, Optional severe duty seal available |
| Temperature | 650°F max |



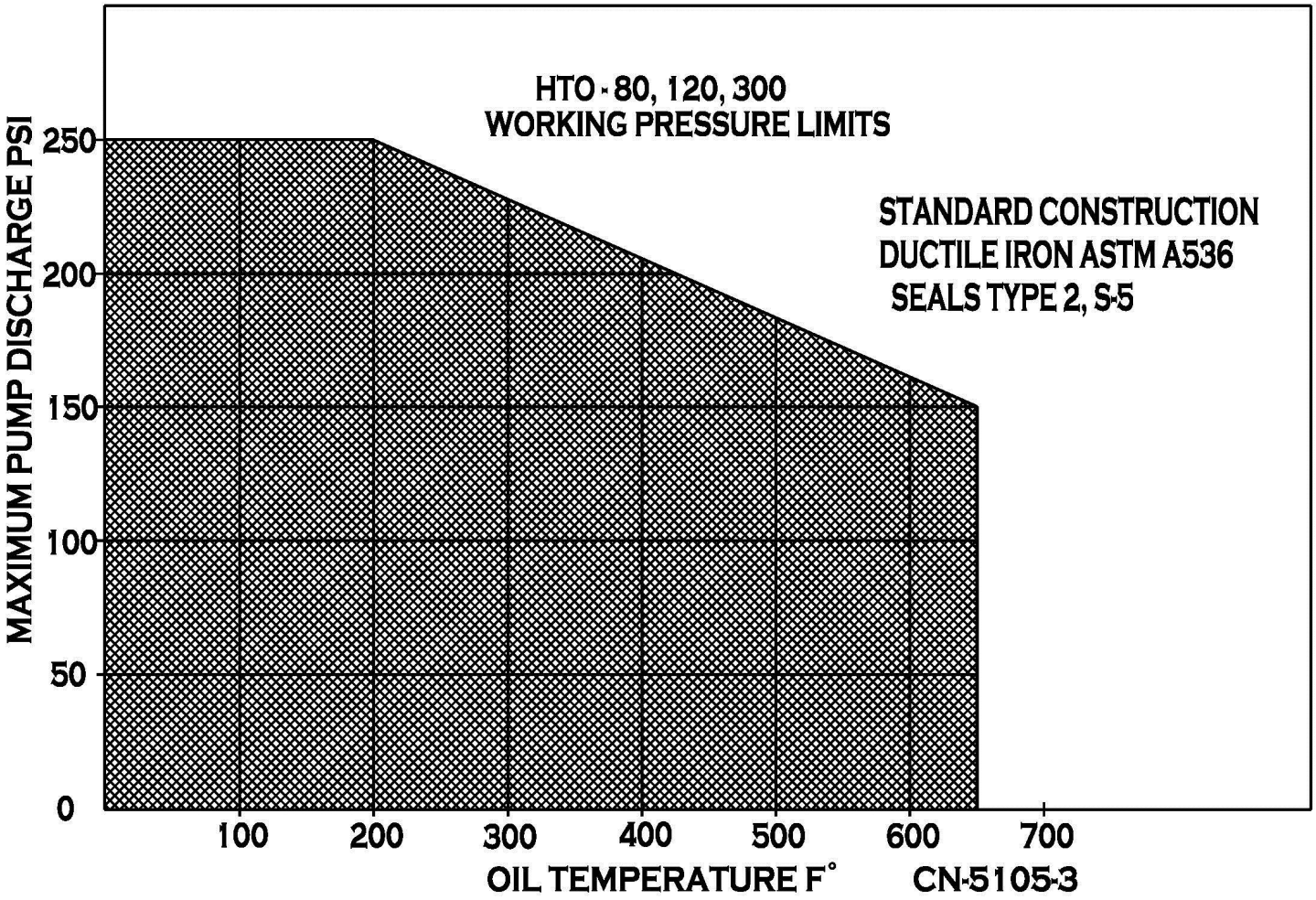

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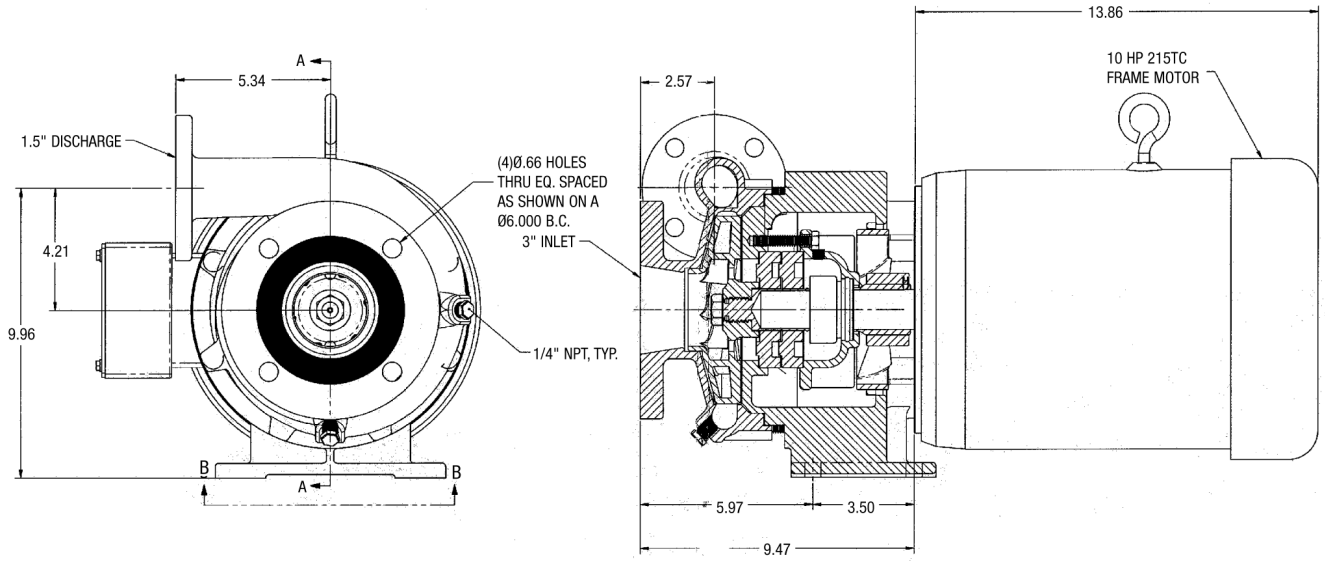

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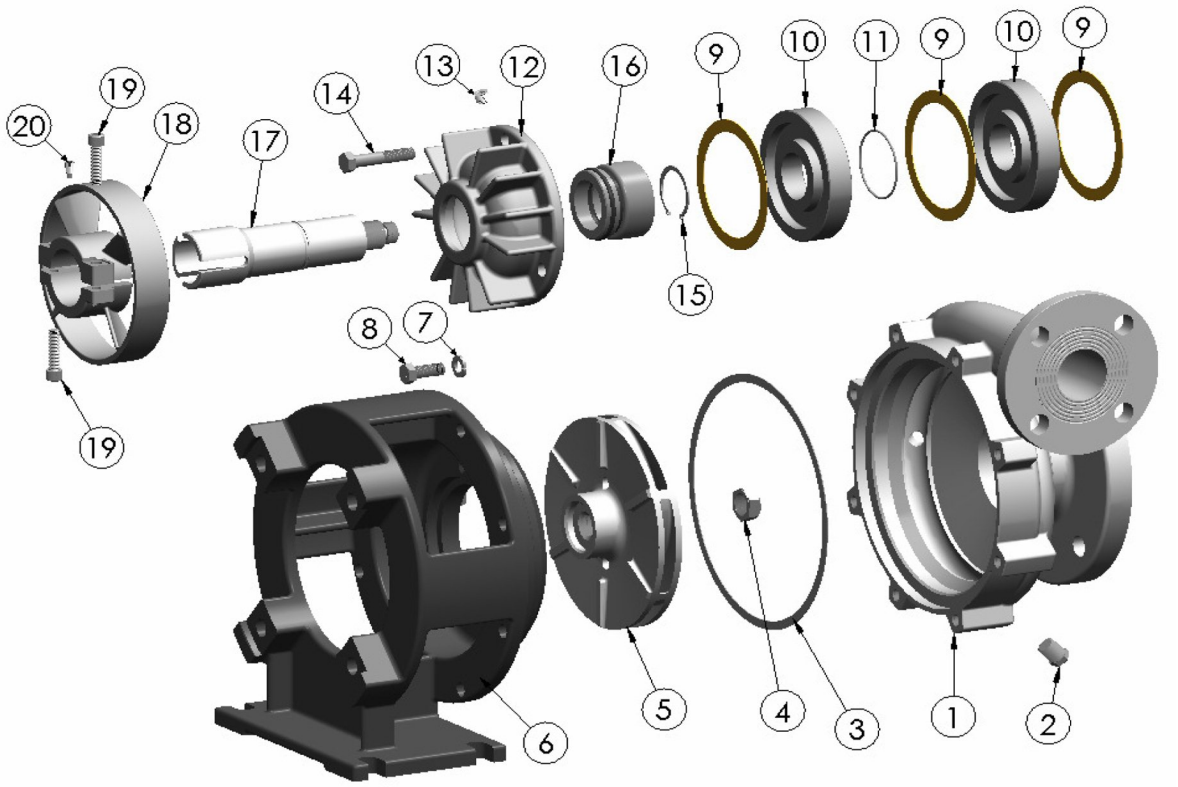

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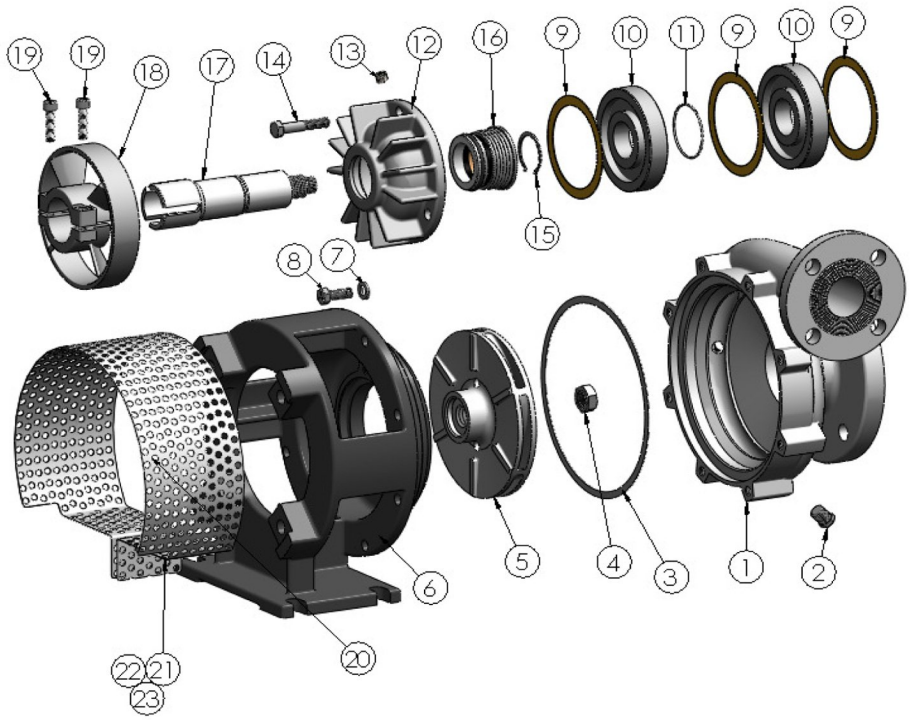



| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 33503 | HOUSING- DUCTILE IRON | 1 |
| 2 | 41475 | PIPE PLUG- 1/4 NPT ZPS | 2 |
| 3 | 31519 | GASKET- HOUSING | 1 |
| 4 | 25168 | HEX JAM NUT | 1 |
| 5 | 33505 | IMPELLER 6.5 DIA- DUCTILE IRON | 1 |
| 6 | 33506 | ADAPTOR- DUCTILE IRON | 1 |
| 7 | 41256 | CAPSCREW STL- 3/8-16 X 1" | 8 |
| 8 | 30626 | LOCKWASHER STL- 3/8" | 8 |
| 9 | 29825 | GASKET- ISOLATOR | 3 |
| 10 | 30842 | ISOLATOR | 2 |
| 11 | 30841 | O-RING- VITON | 1 |

| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 12 | 29830 | SEAL HOUSING- DUCTILE IRON | 1 |
| 13 | 30824 | PIPE PLUG- 1/8 NPT | 1 |
| 14 | 21277 | CAPSCREW SS- 3/8-16 X 2" | 3 |
| 15 | 29826 | SNAP RING STL | 1 |
| 16 | 30219 | SEAL ASSEMBLY (215TC MTR) | 1 |
| | 33507 | SEAL ASSEMBLY (184TC MTR) | 1 |
| 17 | 29822 | DRIVE SLEEVE (215TC MTR) | 1 |
| | 33510 | DRIVE SLEEVE (184TC MTR) | 1 |
| 18 | 29833 | FAN CLAMP- D.I. (215TC MTR) | 1 |
| | 33509 | FAN CLAMP- D.I. (184TC MTR) | 1 |
| 19 | 30264 | CAPSCREW STL- 5/16-18 X 1.25" | 2 |
| 20 | 33417 | SET SCREW STL- 1/4-28 | 1 |

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| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 33503 | HOUSING- DUCTILE IRON | 1 |
| 2 | 41475 | PIPE PLUG- 1/4 NPT ZPS | 2 |
| 3 | 31519 | GASKET- HOUSING | 1 |
| 4 | 25168 | HEX JAM NUT STL. | 1 |
| 5 | 33505 | IMPELLER 6.5 DIA - DUCTILE IRON | 1 |
| 6 | 33506 | ADAPTOR- DUCTILE IRON | 1 |
| 7 | 41257 | CAPSCREW STL- 3/8-16 X 1" | 8 |
| 8 | 30626 | LOCKWASHER STL- 3/8" | 8 |
| 9 | 29825 | GASKET- ISOLATOR | 3 |
| 10 | 30842 | ISOLATOR | 2 |
| 11 | 30841 | O-RING- VITON | 1 |

| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 12 | 29830 | SEAL HOUSING- DI | 1 |
| 13 | 30824 | PIPE PLUG- 1/8 NPT | 1 |
| 14 | 21277 | CAPSCREW SS- 3/8-16 X 2" | 3 |
| 15 | 29826 | SNAP RING STL | 1 |
| 16 | 34933 | SEAL ASSEMBLY T-2 | 1 |
| 17 | 29822 | DRIVE SLEEVE SS 215TC | 1 |
| 18 | 29833 | FAN CLAMP- DI | 1 |
| 19 | 30264 | CAPSCREW STL- 5/16-18 X 1.25" | 2 |
| 20 | 33274 | SHIELD ZPS | 1 |
| 21 | 21241 | HEX NUT SS - 1/4-20 | 1 |
| 22 | 33810 | CAPSCREW HH ZPS - 1/4-20 X 1.75 | 1 |
| 23 | 27261 | WASHER STL. | 2 |

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