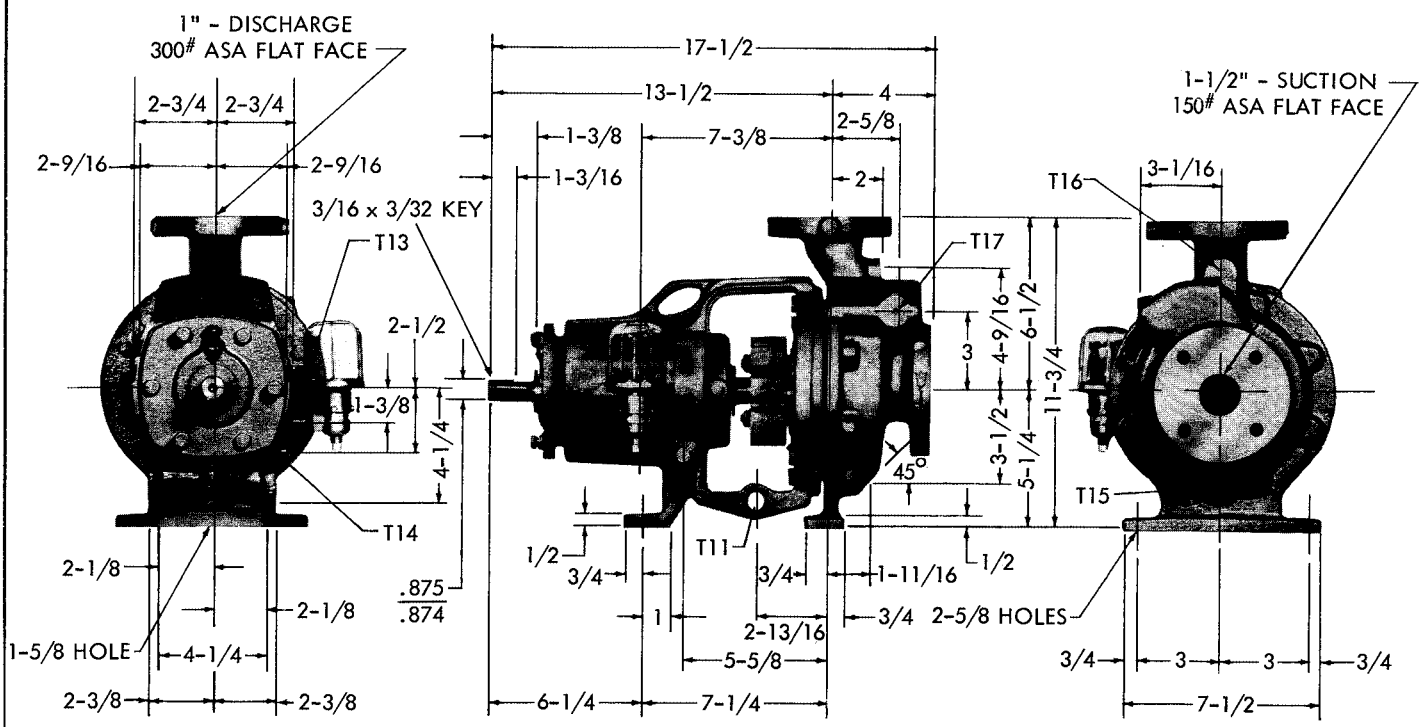
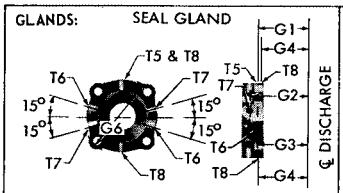
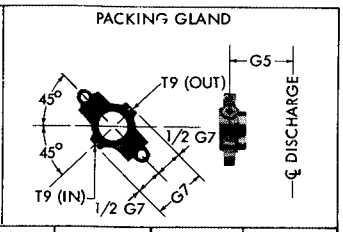



| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 2 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE

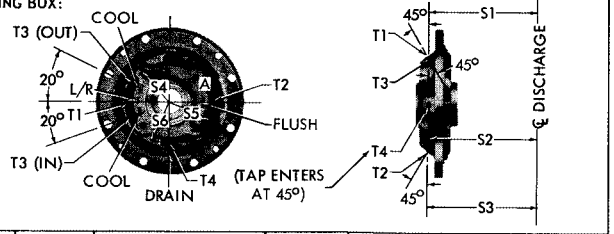
GLANDS:




| G1 | G2 | G3 | G4 | G5 | G6 | G7 |
|---|---|---|---|---|---|---|
| 2-11/16 | 2-11/16 | 2-1/8 | 2-1/8 | 2-1/2 | 4 | 3 |

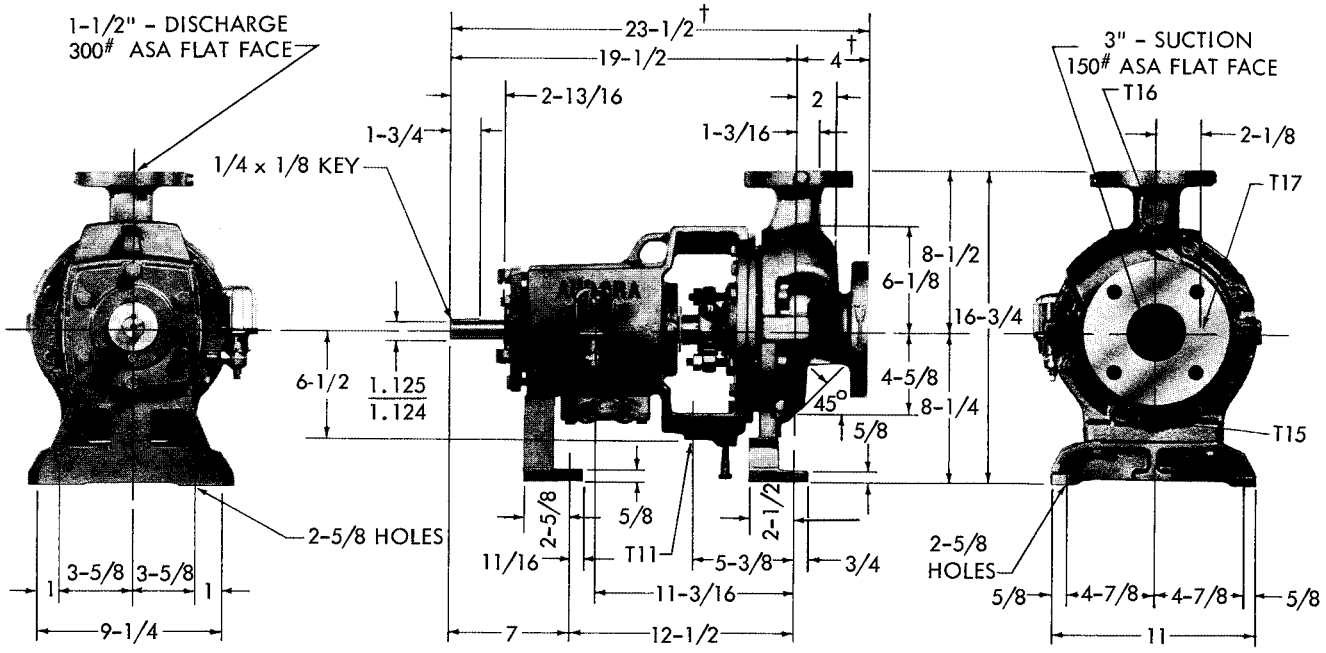
STUFFING BOX:




| S1 | S2 | S3 | | S4 | S5 | | S6 |
|---|---|---|---|---|---|---|---|
| | | STD | W/C | | STD | W/C | |
| 1-1/2 | 1-1/8 | 1-5/16 | 1-7/16 | 2-9/16 | 2-1/4 | 2-9/16 | 2-1/16 |

NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

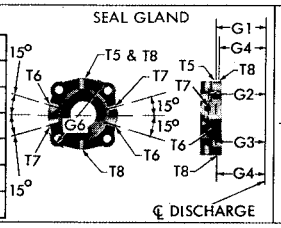
# AURORA MODEL 152 PUMPS
## PUMP ONLY
## STANDARD FOOT MOUNTED CASING




| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 1/2 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

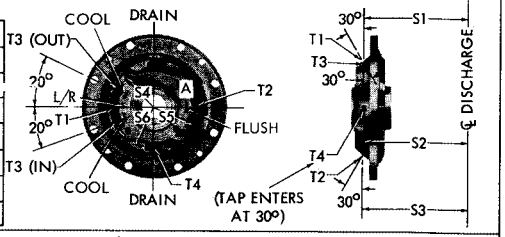
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

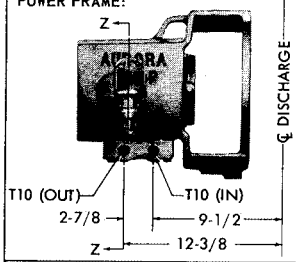



STUFFING BOX:

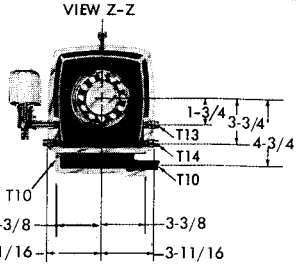
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:



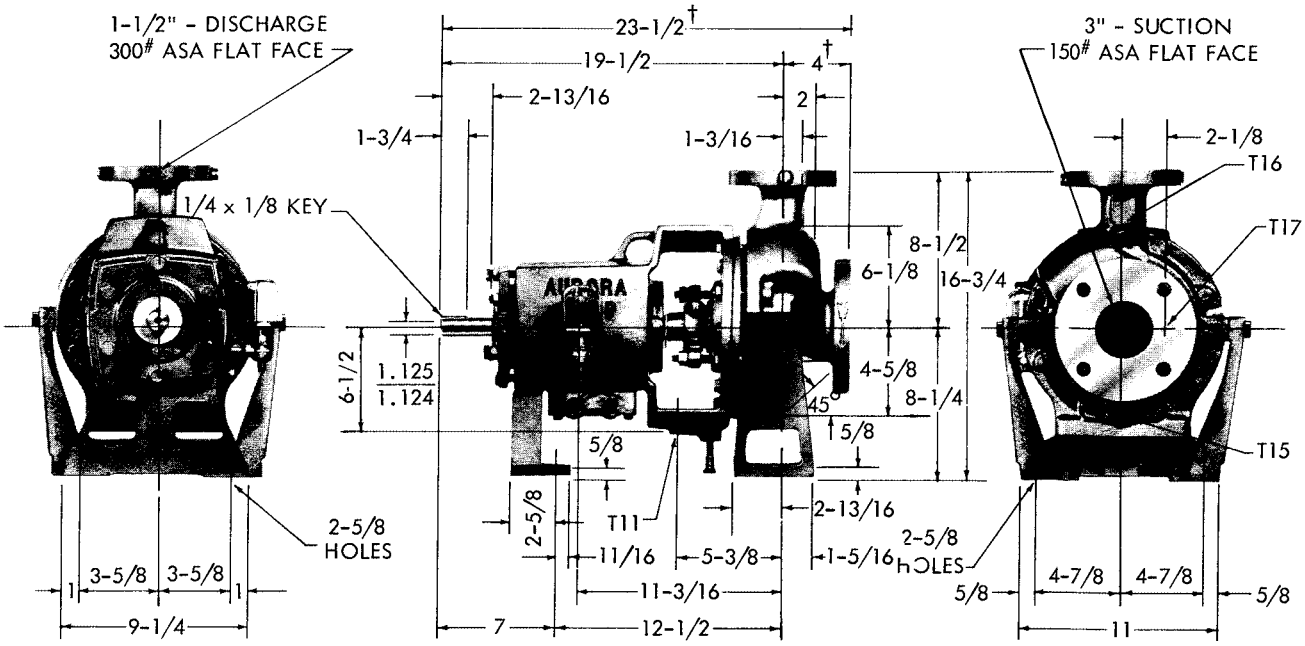

VIEW Z-Z




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 3/16".

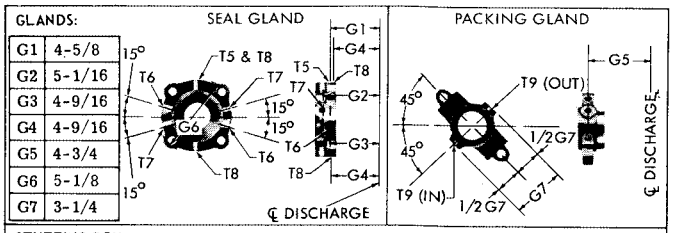
# PUMP ONLY
# OPTIONAL CENTERLINE MOUNTED CASING




| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

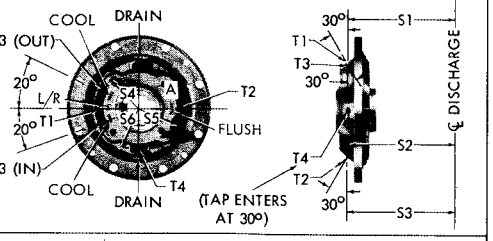
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

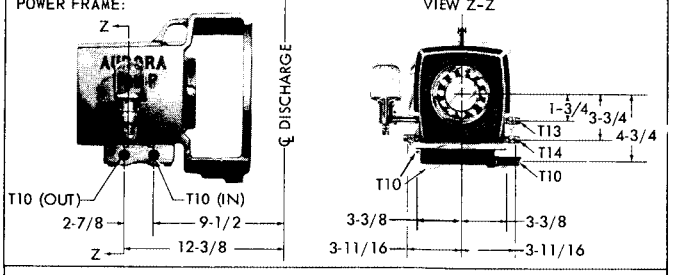



STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |



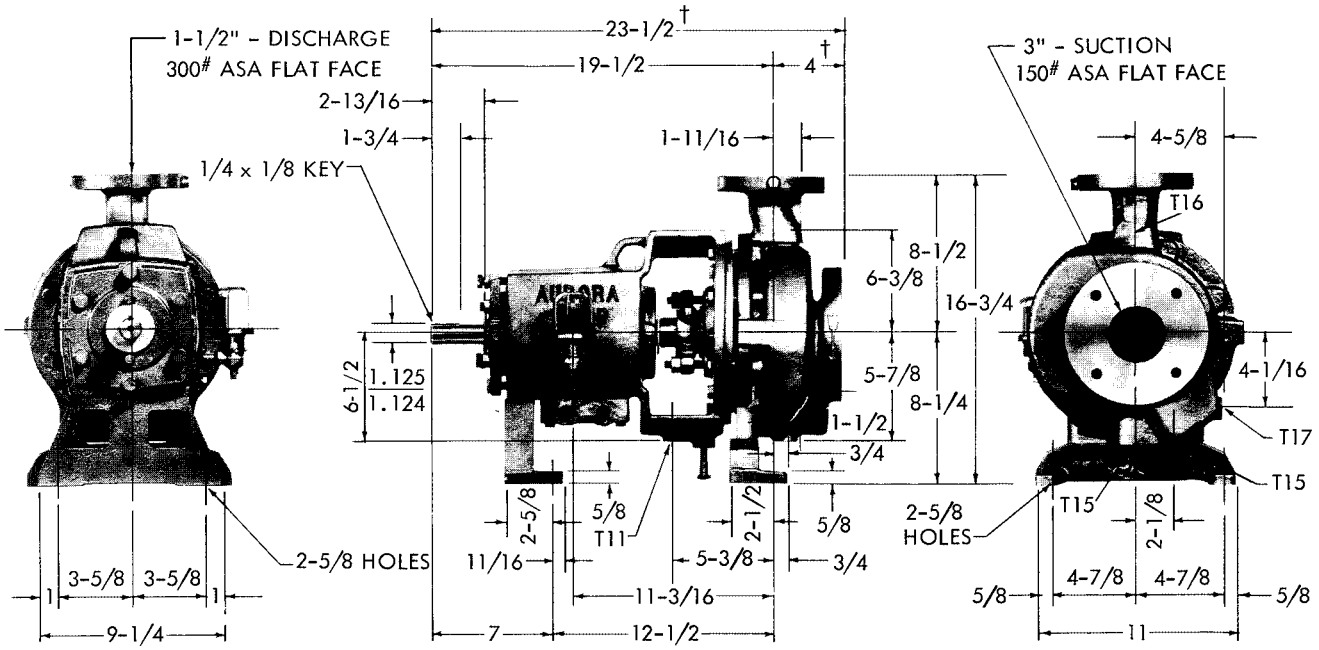

POWER FRAME:




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1, 8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

* DIRECTLY OPPOSITE
** ONE (1) IN. ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 3/16".

# AURORA MODEL 153 PUMPS
## PUMP ONLY
## STANDARD FOOT MOUNTED CASING

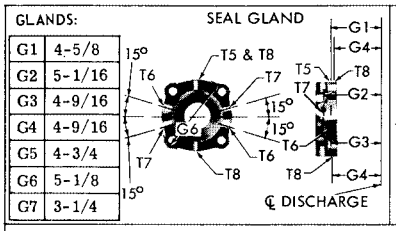



| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 13/16".

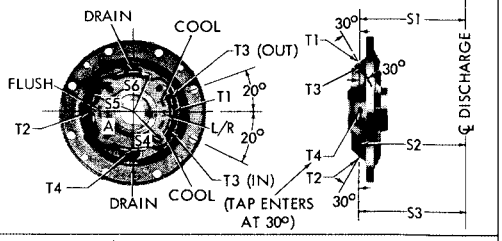
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

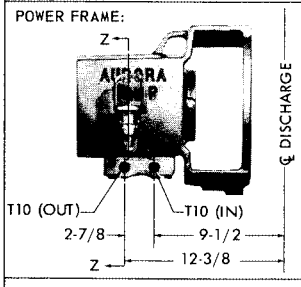



STUFFING BOX:

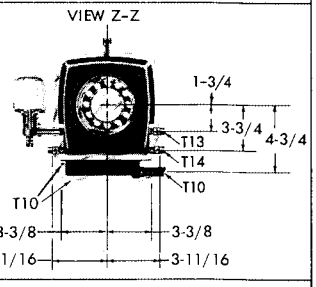
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |



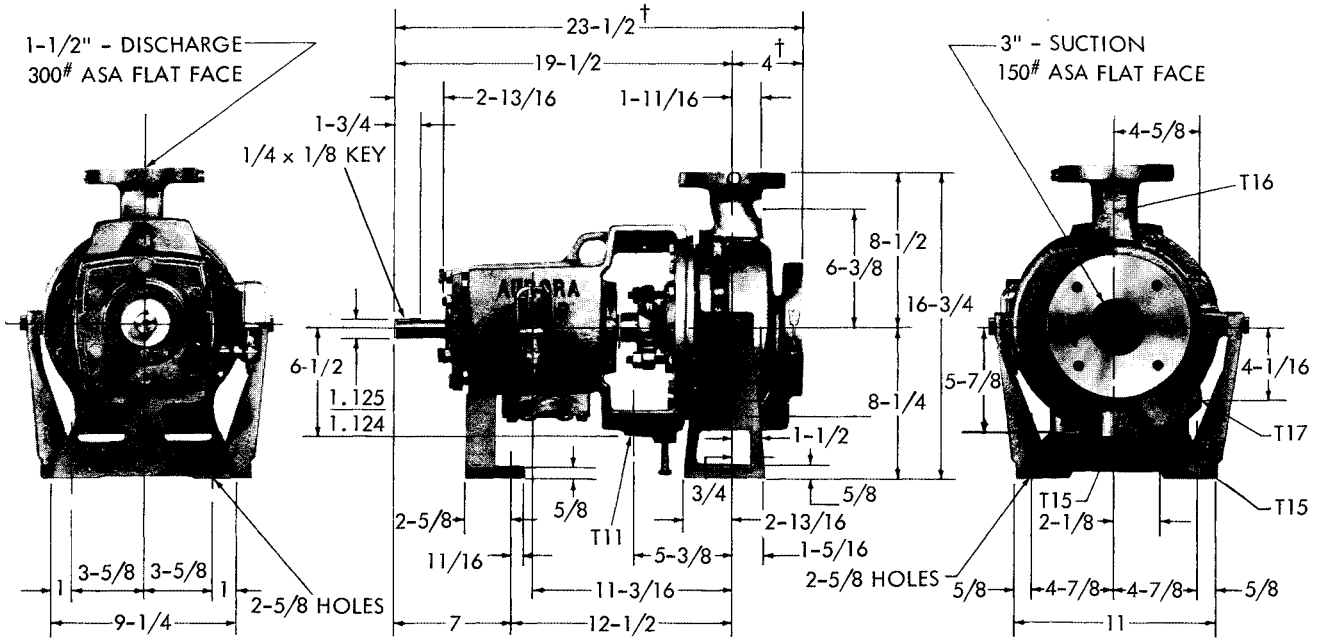

POWER FRAME:




VIEW Z-Z




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W.C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W.C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

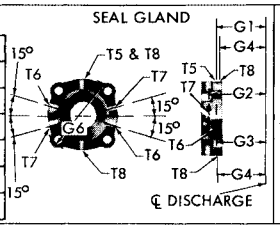



| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 13/16".

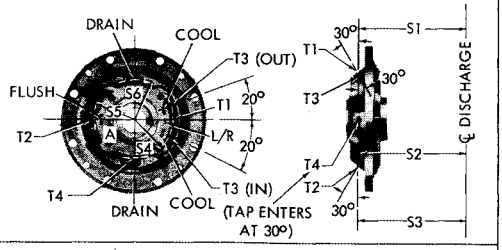
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

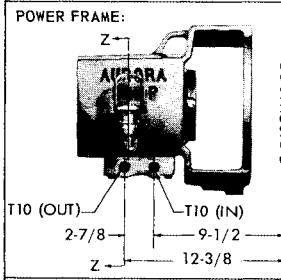



STUFFING BOX:

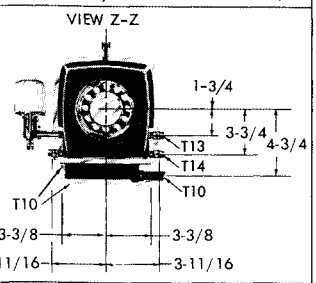
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:

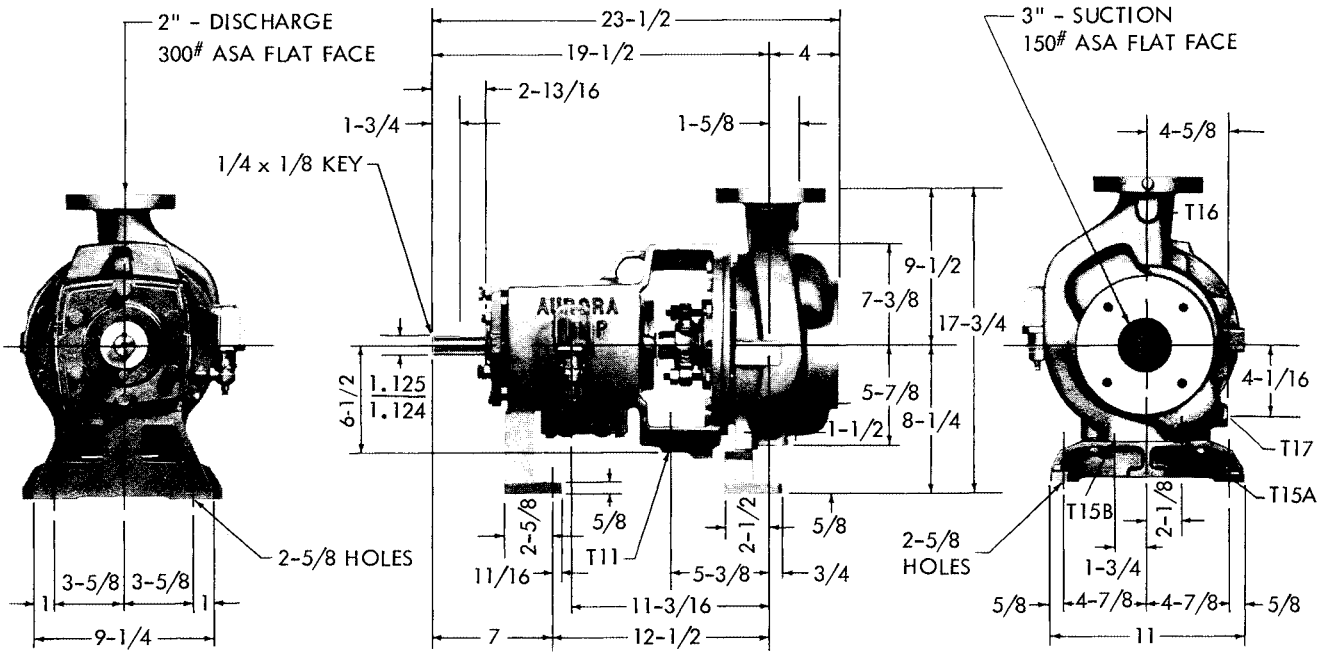



VIEW Z-Z




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 154 PUMPS
## PUMP ONLY
## STANDARD FOOT MOUNTED CASING

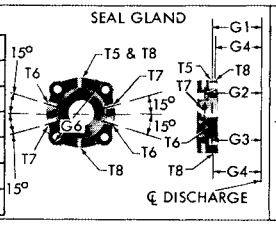



| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)

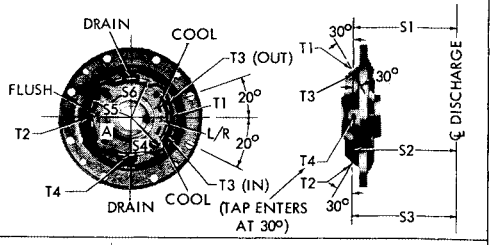
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

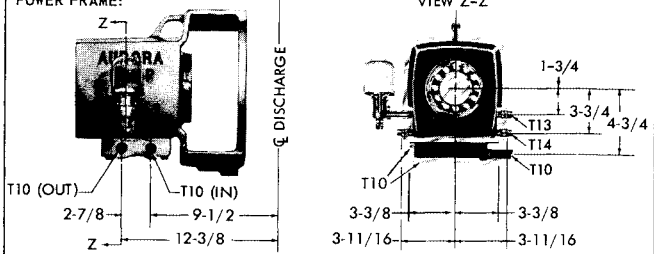



STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:




NOTES:
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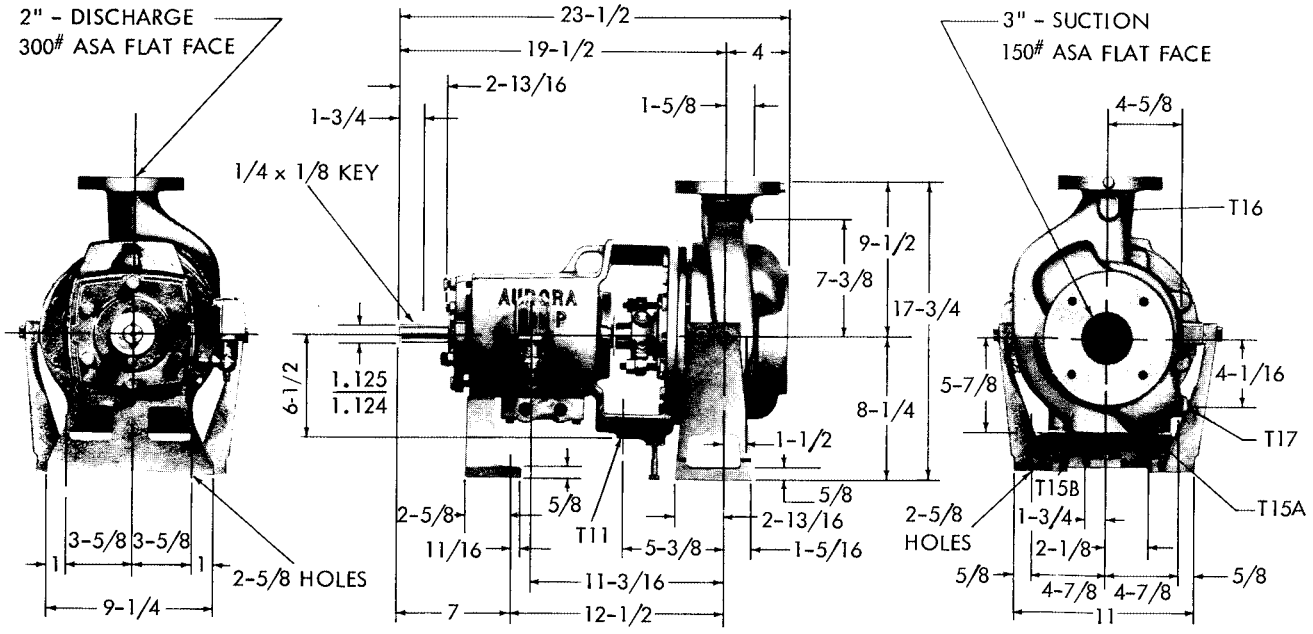
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W,C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W, C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# PUMP ONLY
# OPTIONAL CENTERLINE MOUNTED CASING

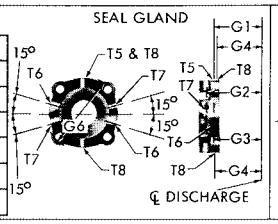



| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)

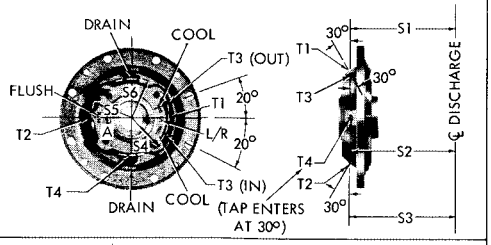
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

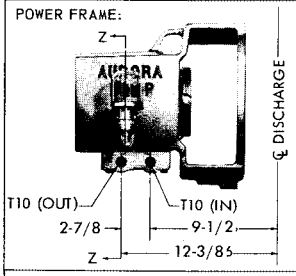



STUFFING BOX:

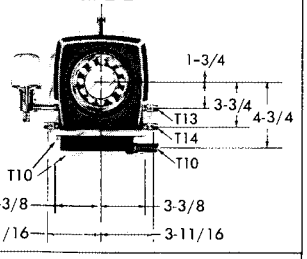
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:




VIEW Z-Z




NOTES:
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2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 STUFFING BOX
A. W.C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W. C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
5 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

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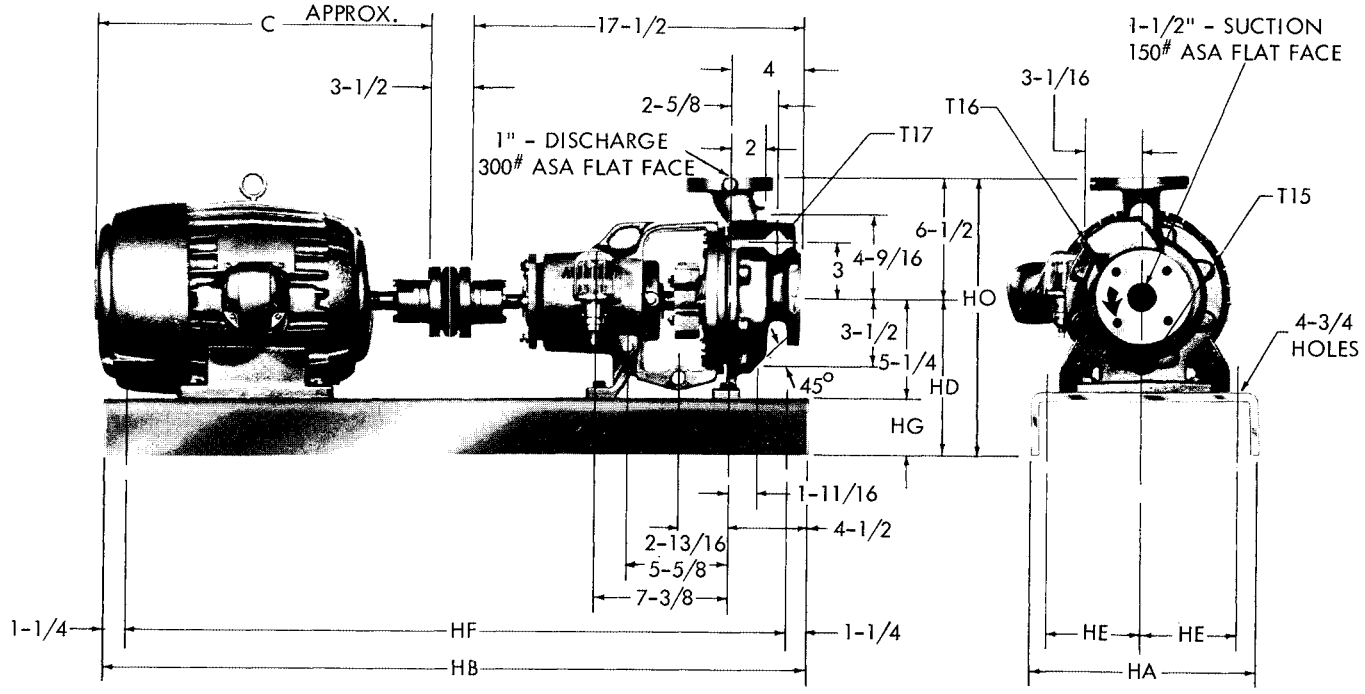
# AURORA MODEL 151 PUMPS
## ON FORMED STEEL BASE
## STANDARD FOOT MOUNTED CASING



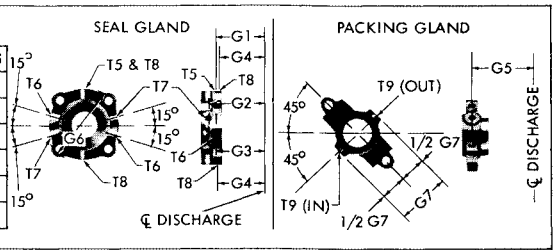

| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | | | | | | | | |
| 145T | 13 | 10 | 35 | 8-1/4 | 4 | 32-1/2 | 3 | 14-3/4 | 1T |
| 182T | 13 | | | | | | | | |
| 184T | 14 | | | | | | | | |
| 213T | 16 | 12 | 39 | 8-1/2 | 4-1/2 | 36-1/2 | 3-1/4 | 15 | 2T |
| 215T | 18 | | | | | | | | |

| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 2 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE

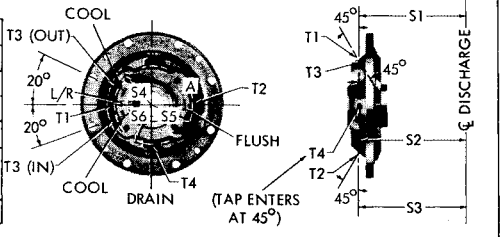
GLANDS:

| | |
|---|---|
| G1 | 2-11/16 |
| G2 | 2-11/16 |
| G3 | 2-1/8 |
| G4 | 2-1/8 |
| G5 | 2-1/2 |
| G6 | 4 |
| G7 | 3 |

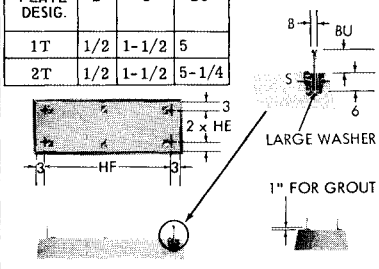



STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 1-1/2 |
| S2 | | 1-1/8 |
| S3 | STD. | 1-5/16 |
| | W/C | 1-7/16 |
| S4 | | 2-9/16 |
| S5 | STD. | 2-1/4 |
| | W/C | 2-9/16 |
| S6 | | 2-1/16 |

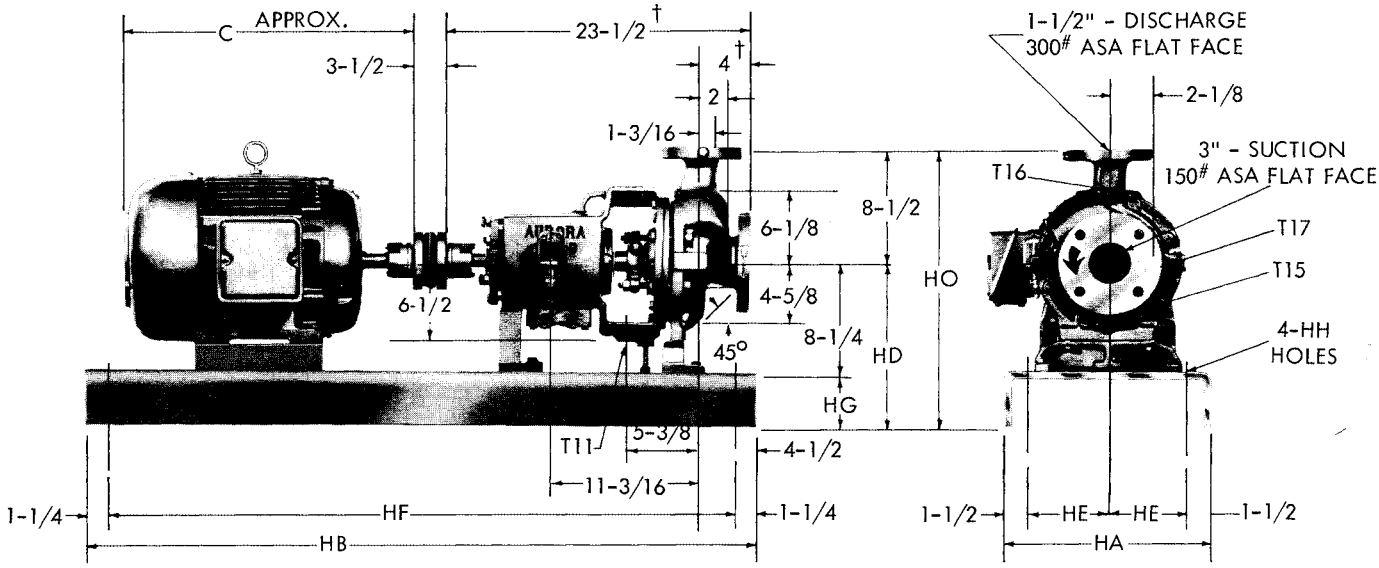



| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1T | 1/2 | 1-1/2 | 5 |
| 2T | 1/2 | 1-1/2 | 5-1/4 |




NOTES:
1. DIMENSIONS ARE APPROXIMATE.
2. ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5. CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6. STUFFING BOX.
   A. W.C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
   B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7. SEAL GLAND
   A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 152 PUMPS
## ON FORMED STEEL BASE
## STANDARD FOOT MOUNTED CASING



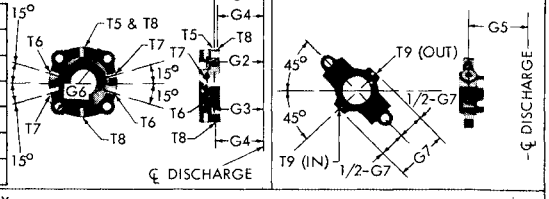

| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |

GLANDS:

SEAL GLAND

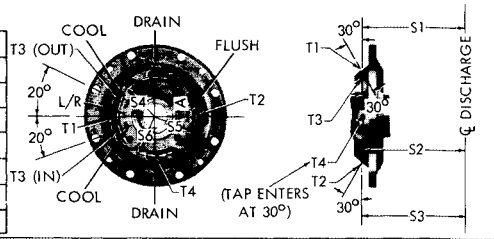
PACKING GLAND

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |



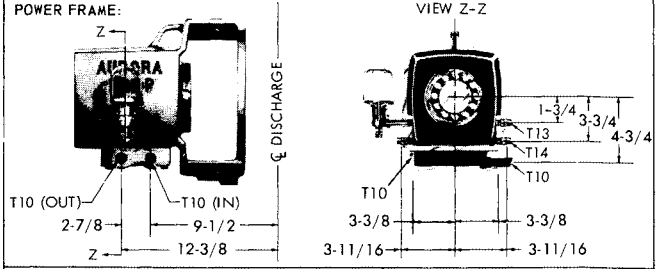

STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |



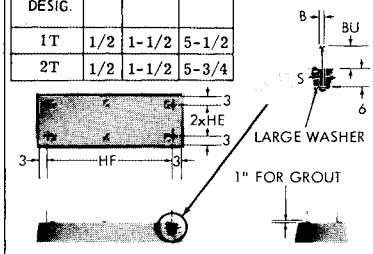

POWER FRAME:

VIEW Z-Z




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1T | 1/2 | 1-1/2 | 5-1/2 |
| 2T | 1/2 | 1-1/2 | 5-3/4 |

RECOMMENDED FOUNDATION:




NOTES:
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3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
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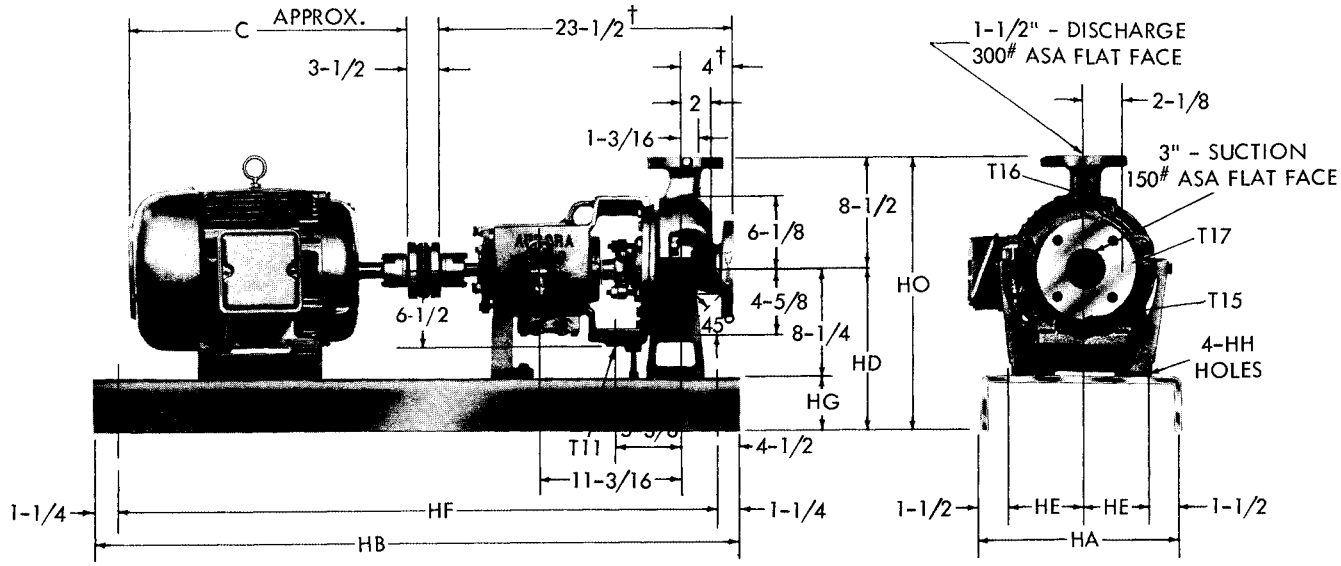
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 3/16".

# AURORA MODEL 152 PUMPS
## ON FORMED STEEL BASE
## OPTIONAL CENTERLINE MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |

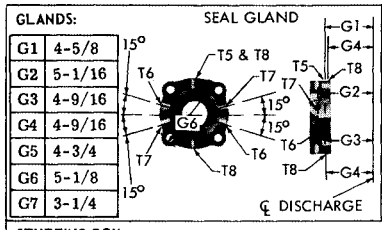
TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 3/16".

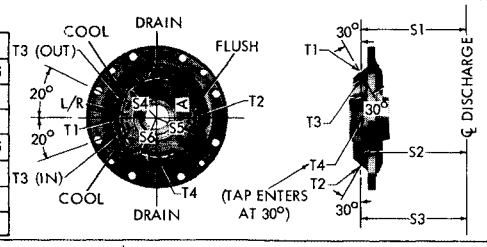
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

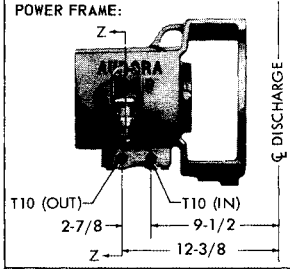



STUFFING BOX:

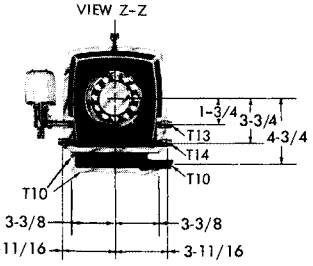
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:

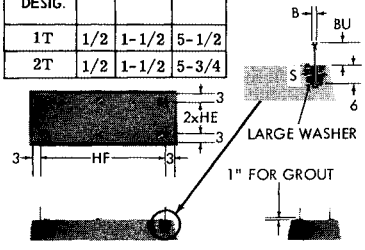



VIEW Z-Z



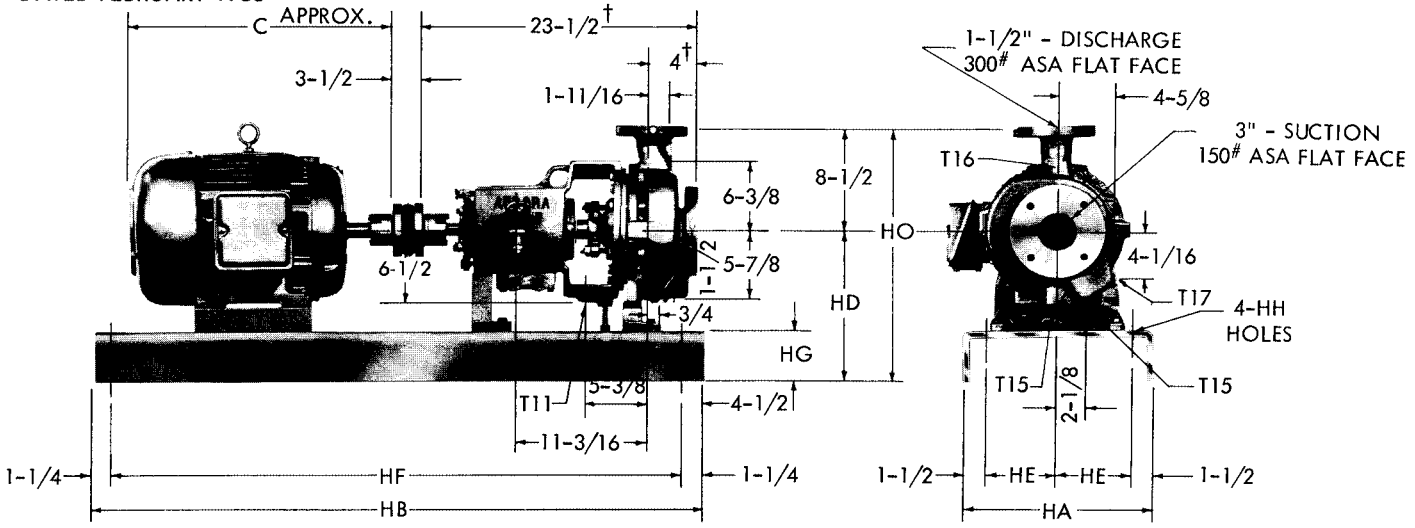

| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1T | 1/2 | 1-1/2 | 5-1/2 |
| 2T | 1/2 | 1-1/2 | 5-3/4 |

RECOMMENDED FOUNDATION:




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ±1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 153 PUMPS
## ON FORMED STEEL BASE
## STANDARD FOOT MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 12-1/4 | 7-1/2 | 55-1/2 | 4 | 1 | 20-3/4 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4 | 1 | 21-1/2 | |

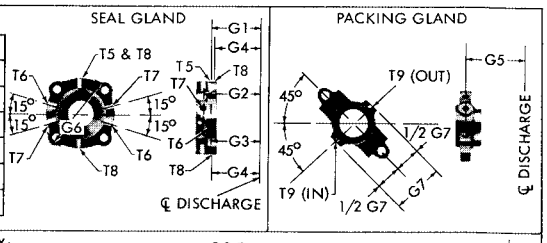
TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 13/16".

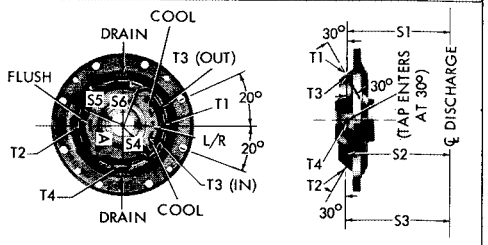
GLANDS:

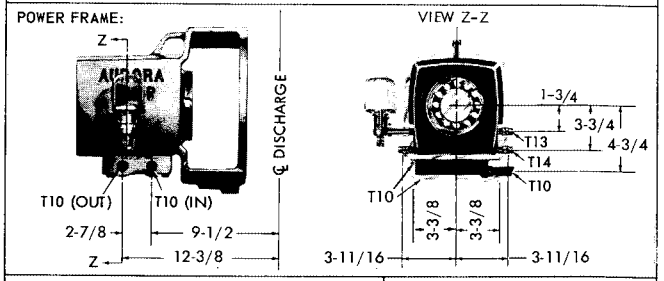
| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |



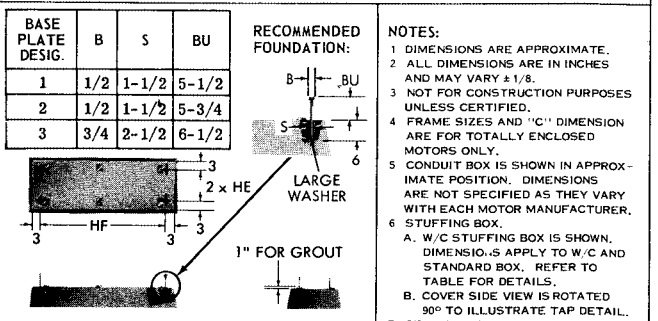

STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |



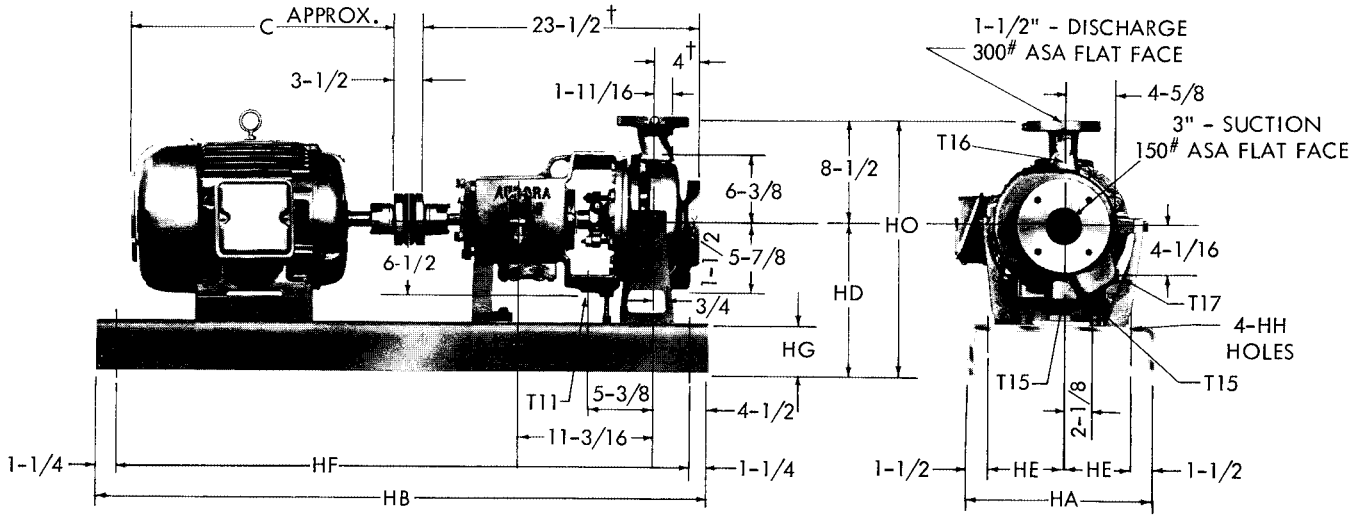




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND.
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 153 PUMPS
## ON FORMED STEEL BASE
## OPTIONAL CENTERLINE MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 12-1/4 | 7-1/2 | 55-1/2 | 4 | 1 | 20-3/4 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4 | 1 | 21-1/2 | |

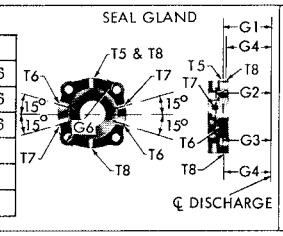
TAPPED PIPE CONNECTIONS

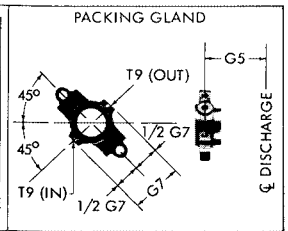
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 13/16".

GLANDS:

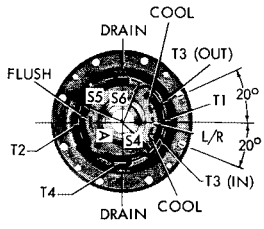
| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

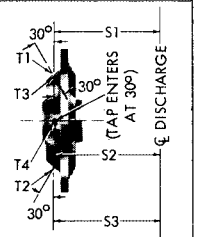


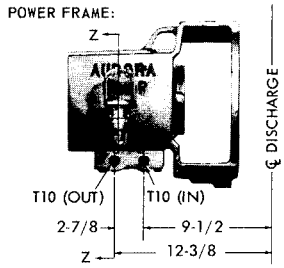

STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |

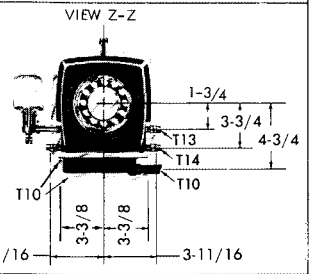



POWER FRAME:

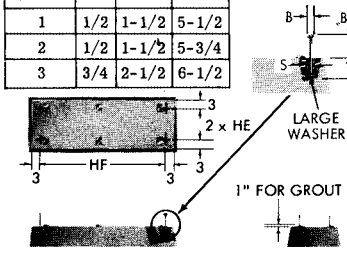



VIEW Z-Z



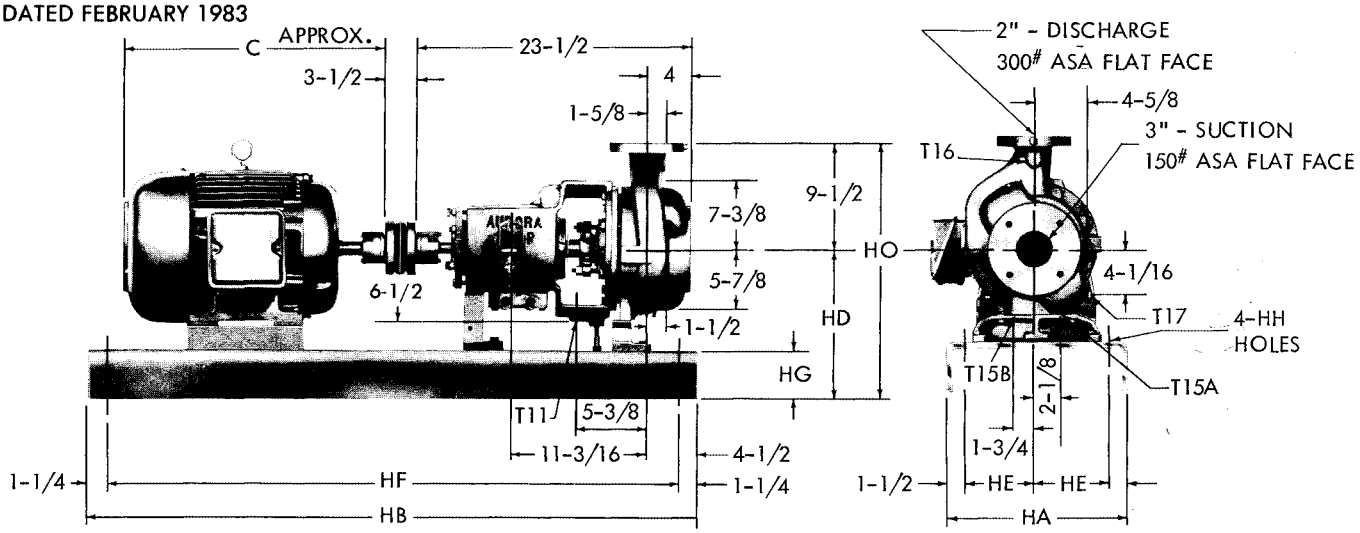

| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |

RECOMMENDED FOUNDATION:




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND.
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 154 PUMPS
## ON FORMED STEEL BASE
## STANDARD FOOT MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 21-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 21-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 12-1/4 | 7-1/2 | 55-1/2 | 4 | 1 | 20-3/4 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4 | 1 | 21-1/2 | |

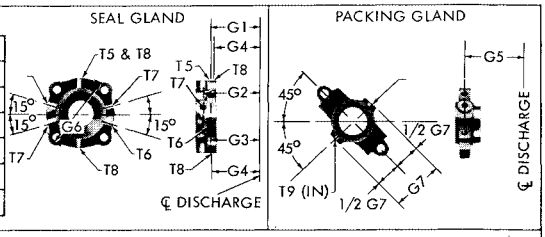
TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)

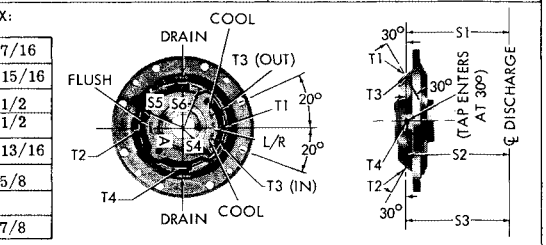
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

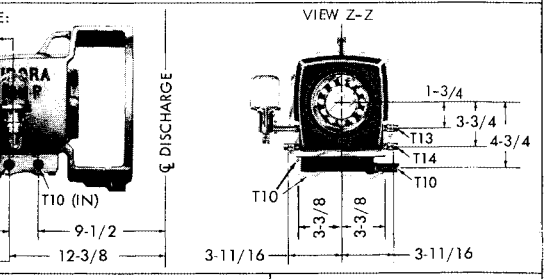



STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |

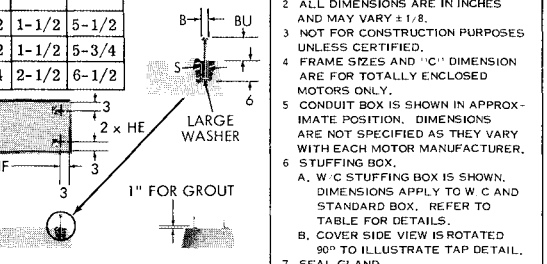



POWER FRAME:



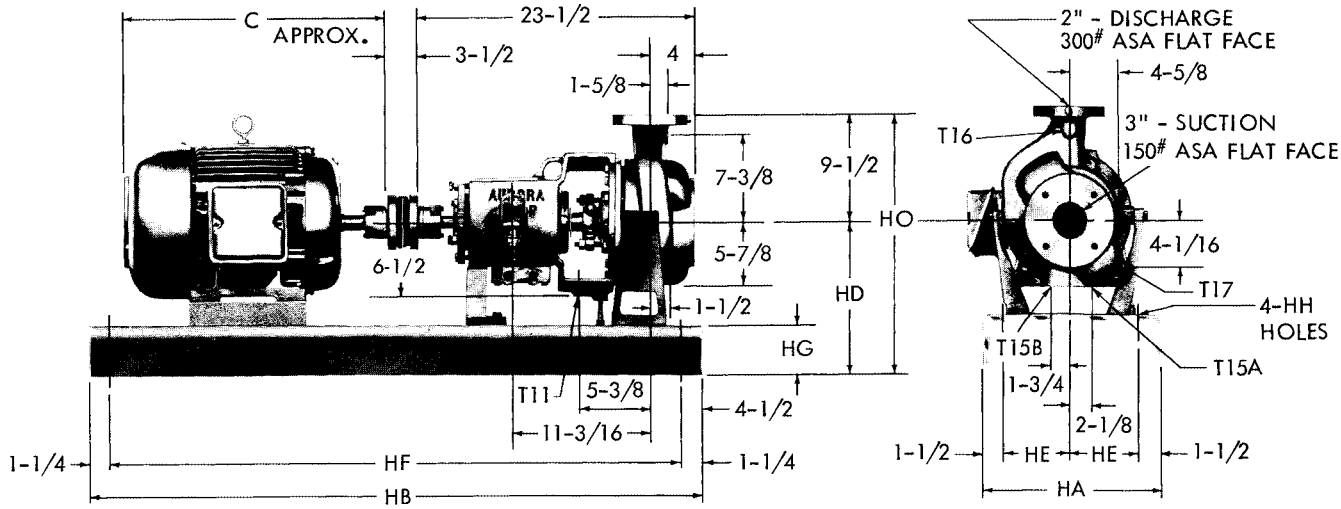

| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |

RECOMMENDED FOUNDATION:




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W.C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W.C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND.
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 154 PUMPS
## ON FORMED STEEL BASE
## OPTIONAL CENTERLINE MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 21-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 21-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 12-1/4 | 7-1/2 | 55-1/2 | 4 | 1 | 21-3/4 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4 | 1 | 22-1/2 | |

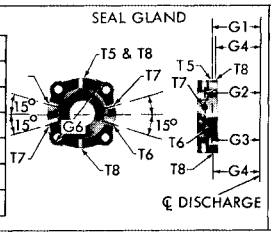
TAPPED PIPE CONNECTIONS

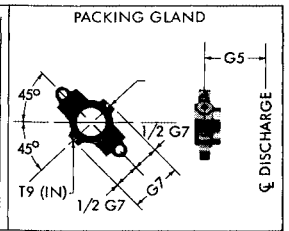
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (JACKET CAN ROTATE 180°)

GLANDS:

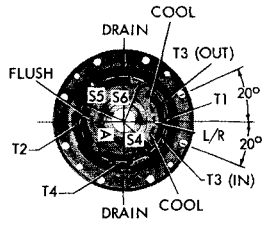
| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

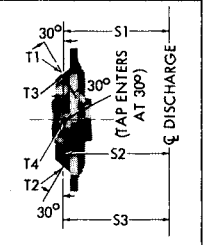


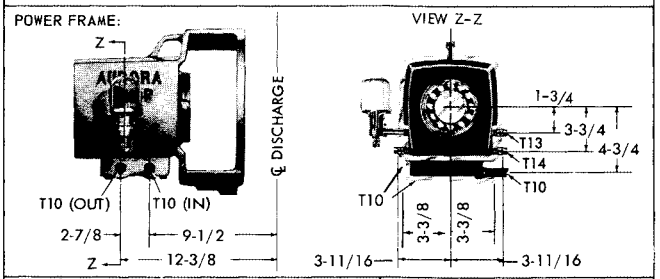




STUFFING BOX:

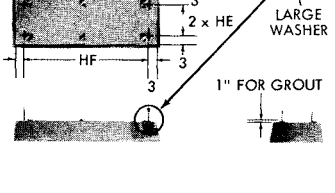
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |




NOTES:
1. DIMENSIONS ARE APPROXIMATE.
2. ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5. CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6. STUFFING BOX.
   A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W.C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
   B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7. SEAL GLAND.
   A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

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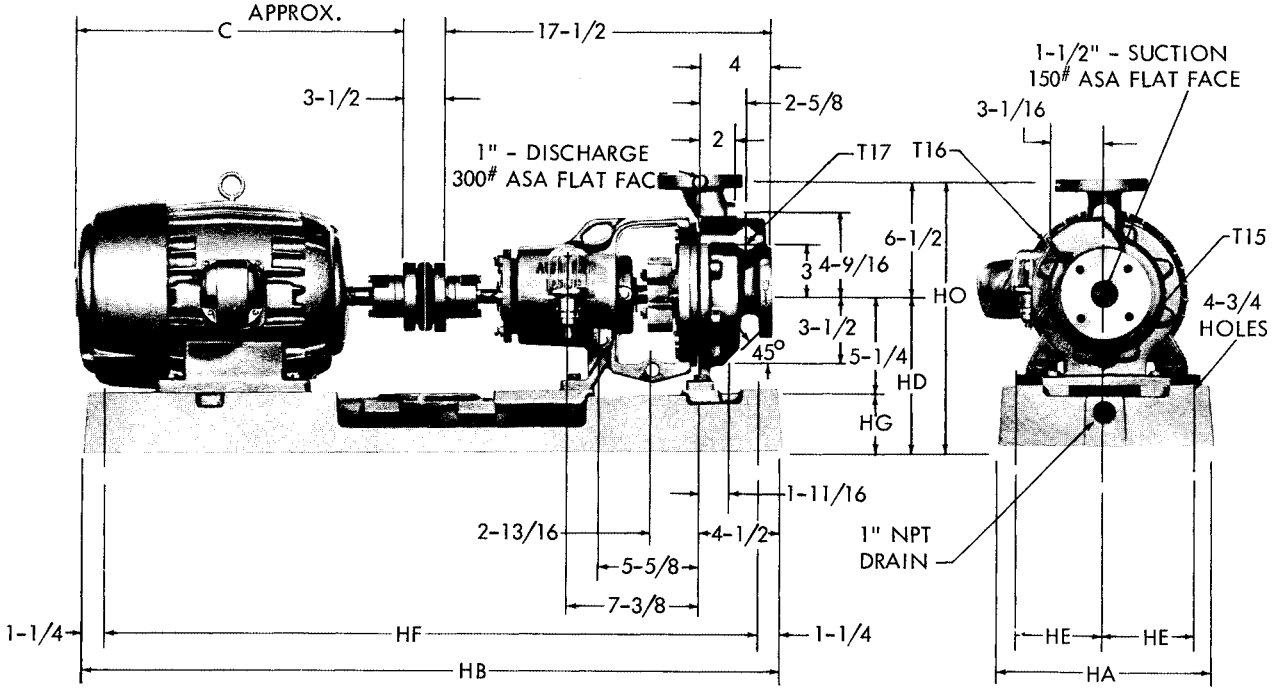
# AURORA MODEL 151 PUMPS
## ON CAST IRON - DRIP RIM BASE
## STANDARD FOOT MOUNTED CASING



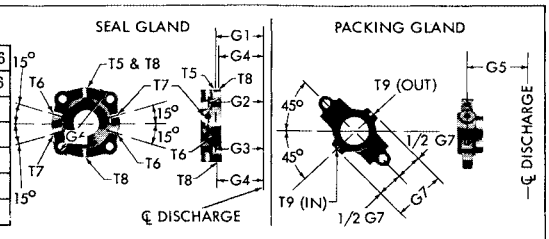

| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | | | | | | | | |
| 145T | 13 | 10 | 35 | 8-1/4 | 4 | 32-1/2 | 3 | 14-3/4 | 1T |
| 182T | 13 | | | | | | | | |
| 184T | 14 | | | | | | | | |
| 213T | 16 | 12 | 39 | 8-1/2 | 4-1/2 | 36-1/2 | 3-1/4 | 15 | 2T |
| 215T | 18 | | | | | | | | |

| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 2 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE

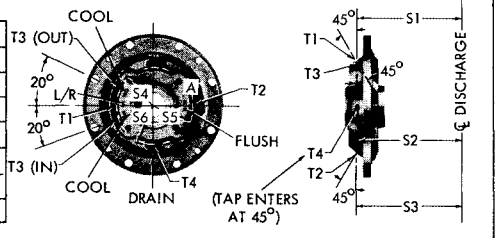
GLANDS:

| | |
|---|---|
| G1 | 2-11/16 |
| G2 | 2-11/16 |
| G3 | 2-1/8 |
| G4 | 2-1/8 |
| G5 | 2-1/2 |
| G6 | 4 |
| G7 | 3 |

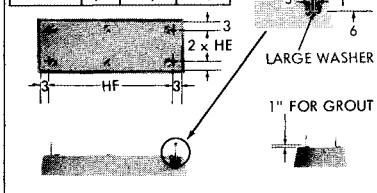



STUFFING BOX:

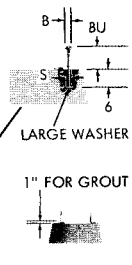
| | | |
|---|---|---|
| S1 | | 1-1/2 |
| S2 | | 1-1/8 |
| S3 | STD. | 1-5/16 |
| | W/C | 1-7/16 |
| S4 | | 2-9/16 |
| S5 | STD. | 2- |
| | W/C | 2- 6 |
| S6 | | 2- 6 |




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1T | 1/2 | 1-1/2 | 5 |
| 2T | 1/2 | 1-1/2 | 5-1/4 |

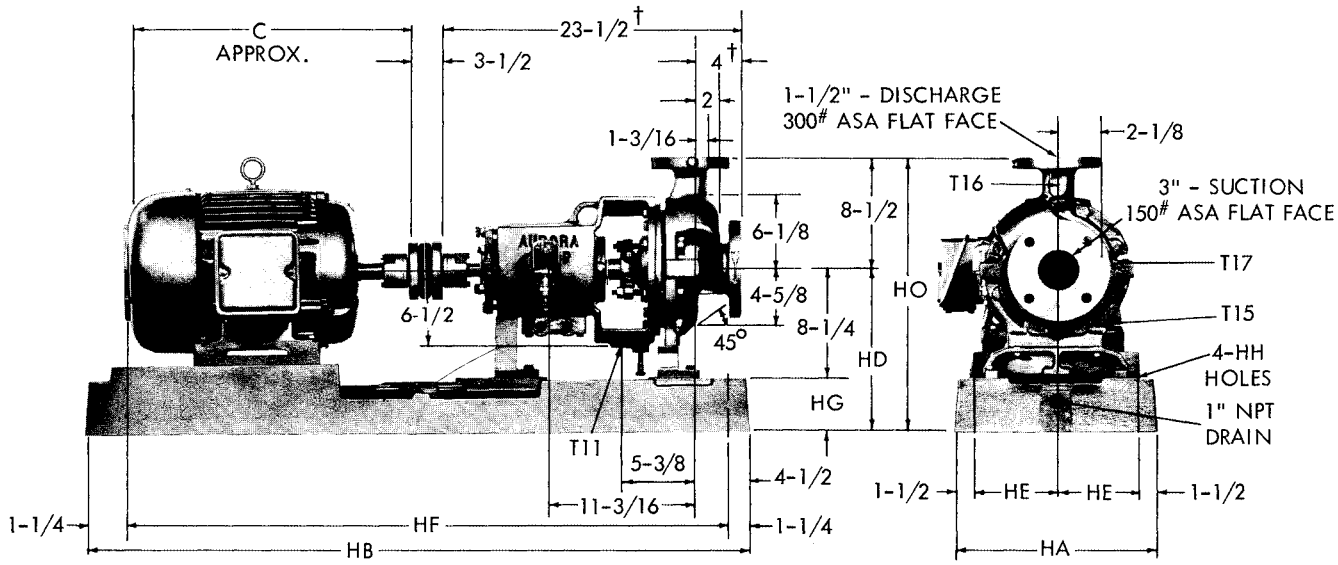



RECOMMENDED FOUNDATION:

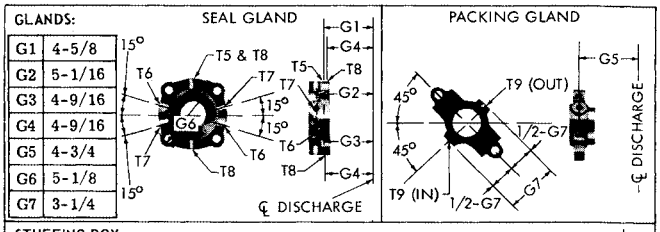


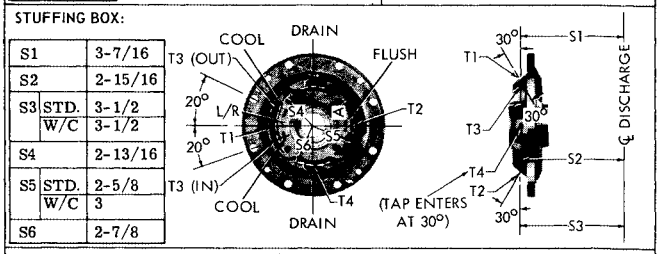

NOTES:
1. DIMENSIONS ARE APPROXIMATE.
2. ALL DIMENSIONS ARE IN INCHES AND MAY VARY ±1/8.
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5. CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6. STUFFING BOX.
   A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
   B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7. SEAL GLAND
   A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

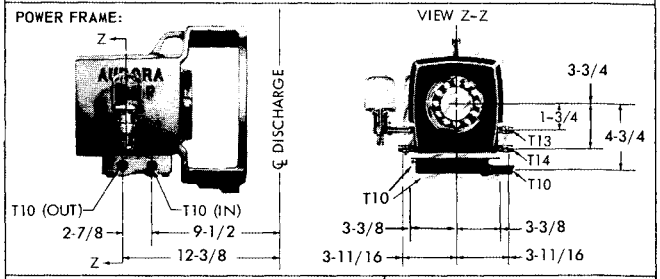
# AURORA MODEL 152 PUMPS
## ON CAST IRON - DRIP RIM BASE
## STANDARD FOOT MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |



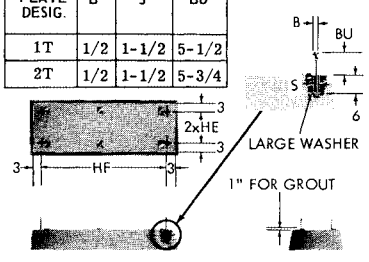




| TAPPED PIPE CONNECTIONS | | | | |
|---|---|---|---|---|
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 3/16".

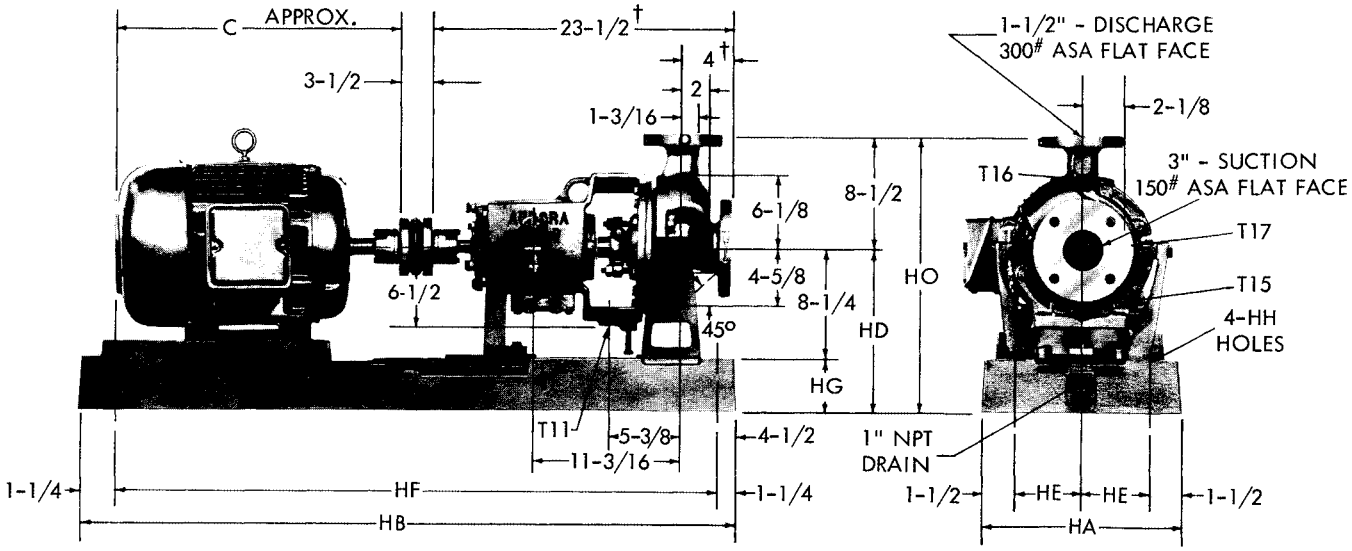
| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1T | 1/2 | 1-1/2 | 5-1/2 |
| 2T | 1/2 | 1-1/2 | 5-3/4 |

RECOMMENDED FOUNDATION:




NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W C STUFFING BOX IS SHOWN, DIMENSIONS APPLY TO W C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 152 PUMPS
## ON CAST IRON - DRIP RIM BASE
## OPTIONAL CENTERLINE MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |

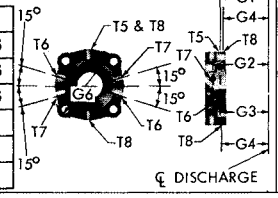
**TAPPED PIPE CONNECTIONS**

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 1 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 3/16".

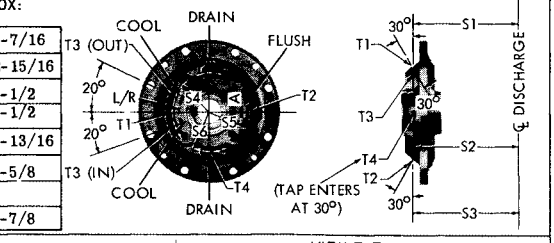
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

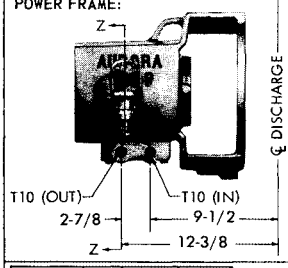



STUFFING BOX:

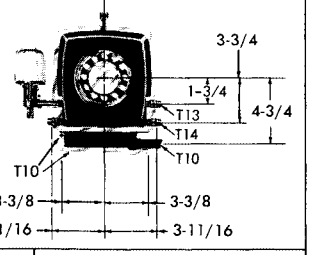
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:

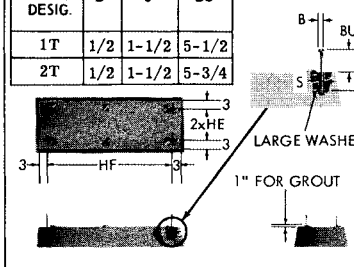



VIEW Z-Z




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1T | 1/2 | 1-1/2 | 5-1/2 |
| 2T | 1/2 | 1-1/2 | 5-3/4 |

RECOMMENDED FOUNDATION:




NOTES:
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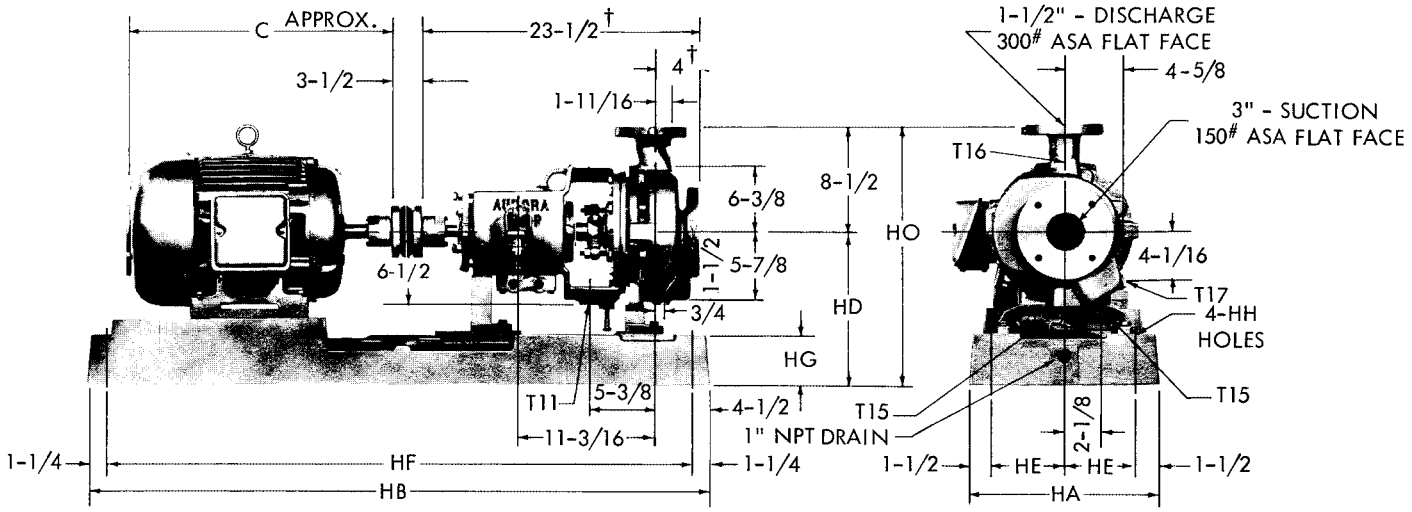
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ±1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

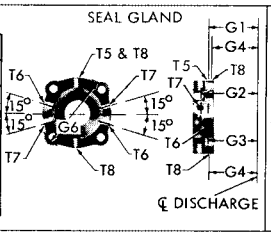
# AURORA MODEL 153 PUMPS
## ON CAST IRON - DRIP RIM BASE
## STANDARD FOOT MOUNTED CASING

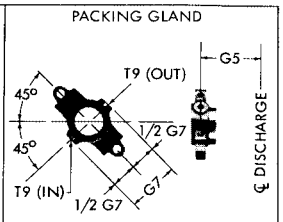



| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 21-1/2 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 14 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 22-1/2 | |

GLANDS:

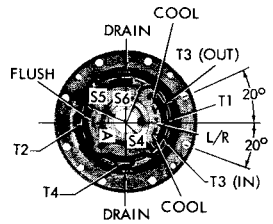
| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

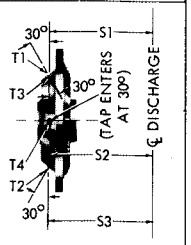


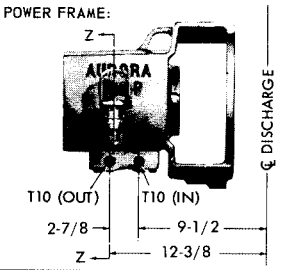

STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |

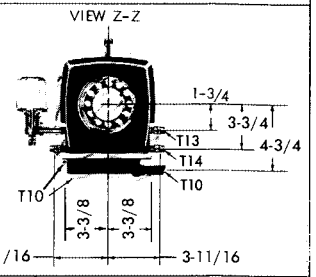



POWER FRAME:

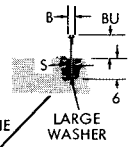


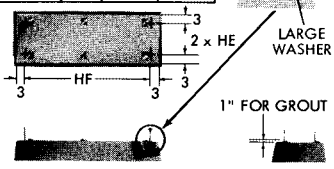

VIEW Z-Z




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |

RECOMMENDED FOUNDATION:



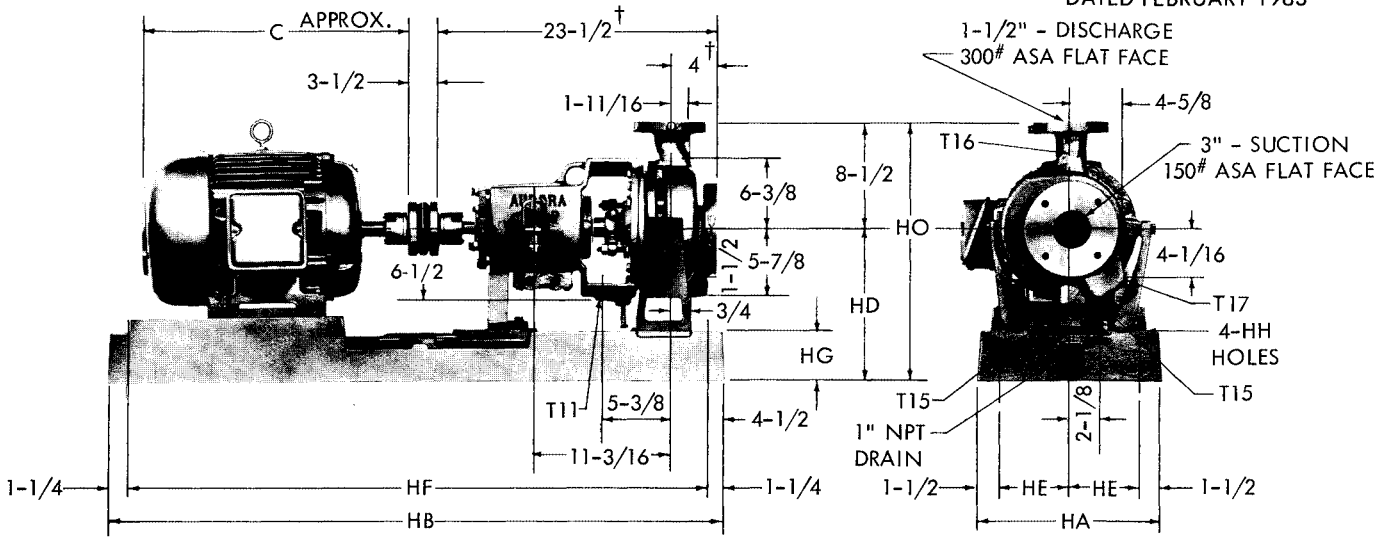

NOTES:
1 DIMENSIONS ARE APPROXIMATE.
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W/C STUFFING BOX IS ' HOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND.
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 13/16".

# AURORA MODEL 153 PUMPS
## ON CAST IRON - DRIP RIM BASE
## OPTIONAL CENTERLINE MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 20-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 20-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 21-1/2 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 14 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 22-1/2 | |

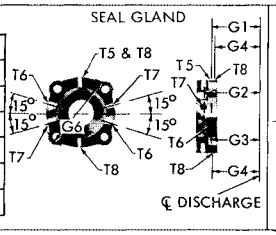
TAPPED PIPE CONNECTIONS

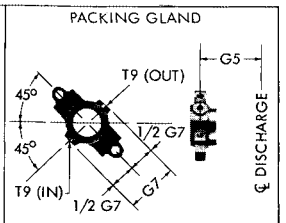
| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)
† WHEN OPTIONAL 300# ASA FLAT FACE SUCTION FLANGE IS USED ADD 13/16".

GLANDS:

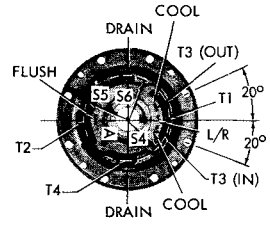
| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

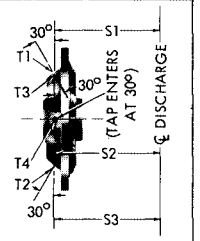


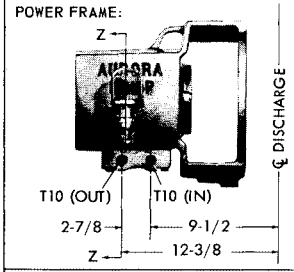

STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |

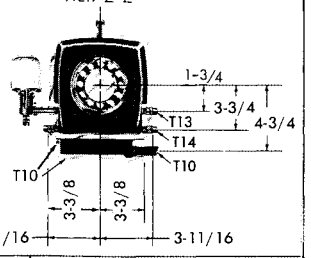



POWER FRAME:

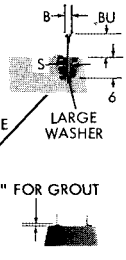



VIEW Z-Z




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |

RECOMMENDED FOUNDATION:




NOTES:
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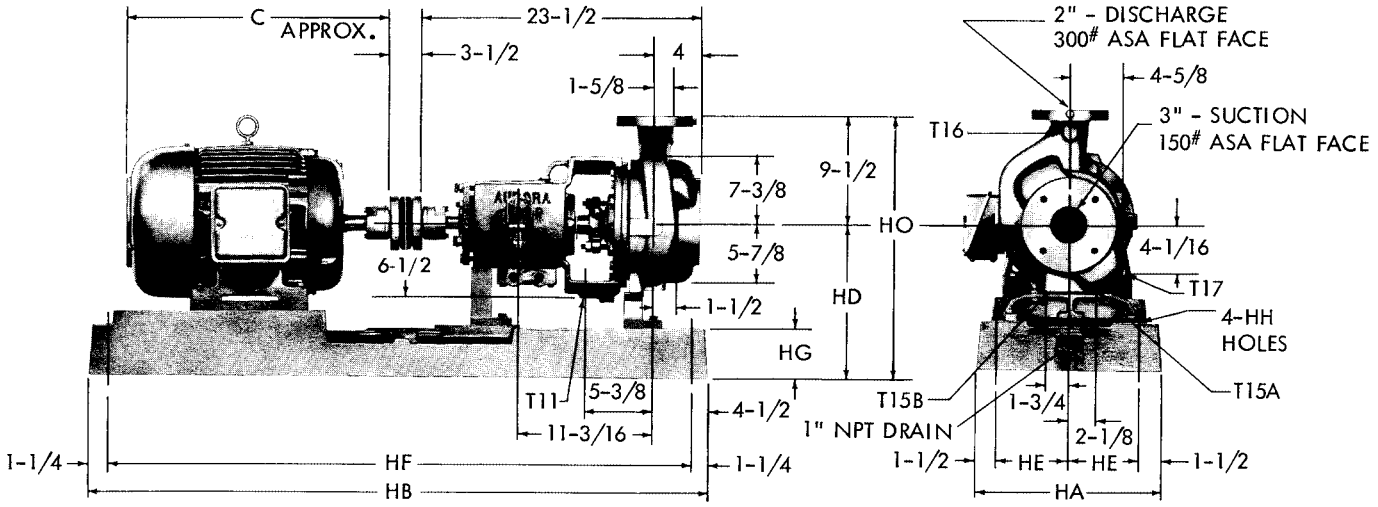
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± 1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W/C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W/C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND.
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 154 PUMPS
## ON CAST IRON - DRIP RIM BASE
## STANDARD FOOT MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 21-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 21-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 22-1/2 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 14 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 23-1/2 | |

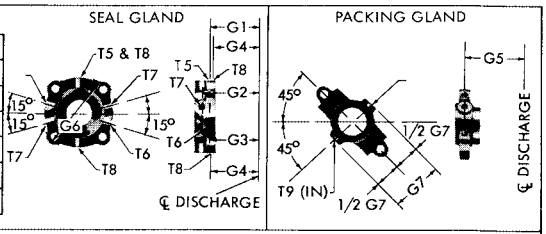
TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)

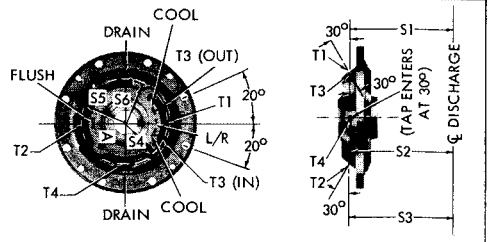
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

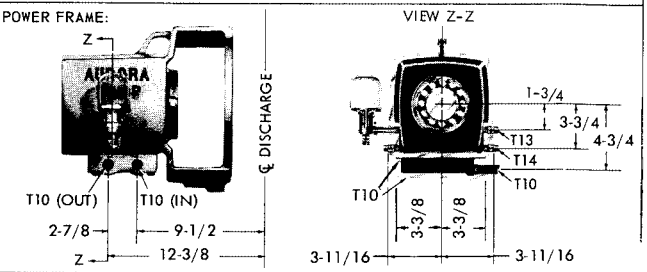



STUFFING BOX:

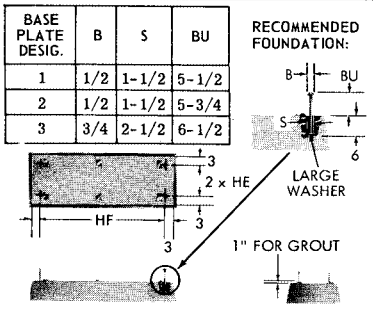
| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |




POWER FRAME:




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |




NOTES:
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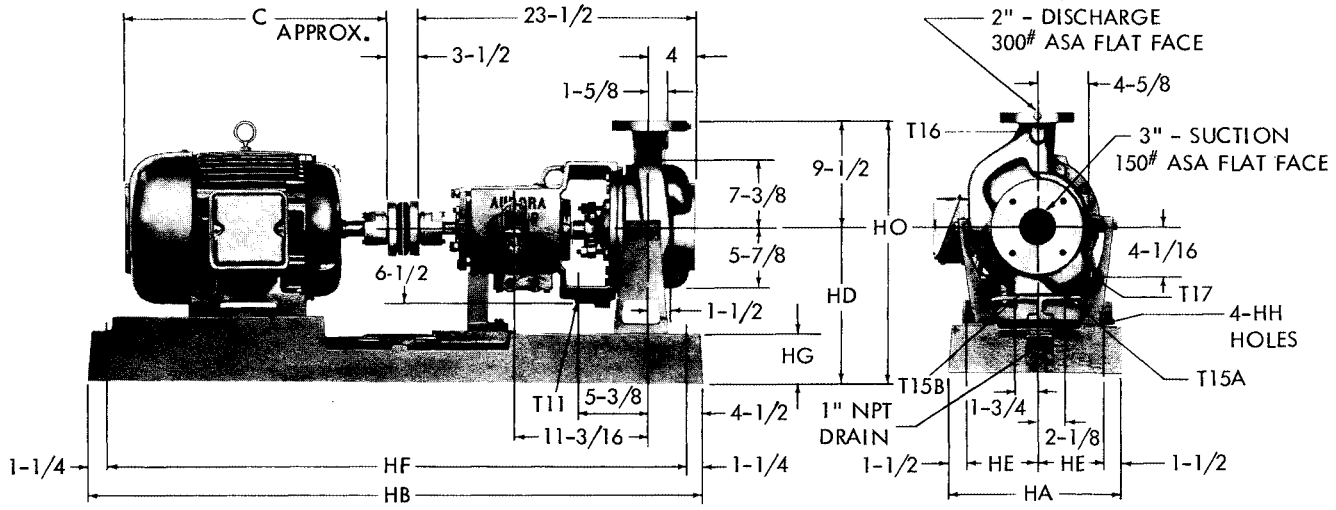
2 ALL DIMENSIONS ARE IN INCHES AND MAY VARY ±1/8.
3 NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4 FRAME SIZES AND "C" DIMENSION ARE FOR TOTALLY ENCLOSED MOTORS ONLY.
5 CONDUIT BOX IS SHOWN IN APPROXIMATE POSITION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.
6 STUFFING BOX.
A. W C STUFFING BOX IS SHOWN. DIMENSIONS APPLY TO W C AND STANDARD BOX. REFER TO TABLE FOR DETAILS.
B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7 SEAL GLAND.
A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

# AURORA MODEL 154 PUMPS
## ON CAST IRON - DRIP RIM BASE
## OPTIONAL CENTERLINE MOUNTED CASING




| MOTOR FRAME | C | HA | HB | HD | HE | HF | HG | HH | HO | AVS BASE PLATE DESIGNATION |
|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 12 | 12 | 45 | 12 | 4-1/2 | 42-1/2 | 3-3/4 | 3/4 | 21-1/2 | 1 |
| 145T | 13 | | | | | | | | | |
| 182T | 13 | | | | | | | | | |
| 184T | 14 | | | | | | | | | |
| 213T | 16 | | | | | | | | | |
| 215T | 18 | | | | | | | | | |
| 254T | 21 | 15 | 52 | 12-3/8 | 6 | 49-1/2 | 4-1/8 | 3/4 | 21-7/8 | 2 |
| 256T | 23 | | | | | | | | | |
| 284T | 24 | | | | | | | | | |
| 284TS | 22 | | | | | | | | | |
| 286T | 25 | | | | | | | | | |
| 286TS | 24 | | | | | | | | | |
| 324TS | 25 | 18 | 58 | 13 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 22-1/2 | 3 |
| 326TS | 26 | | | | | | | | | |
| 364TS | 27 | 18 | 58 | 14 | 7-1/2 | 55-1/2 | 4-3/4 | 1 | 23-1/2 | |

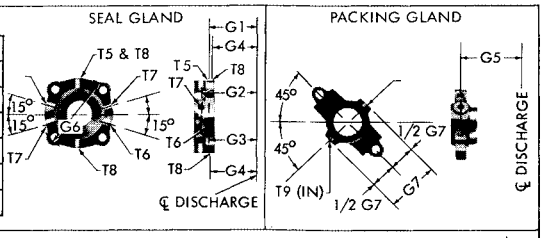
### TAPPED PIPE CONNECTIONS

| TAP NO. | DESCRIPTION | TAP QTY. | TAP SIZE | FURNISHED AS: |
|---|---|---|---|---|
| T1 | IN CONNECTION IN STUFFING BOX COVER FOR LANTERN RING OR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T2 | OUT CONNECTION IN STUFFING BOX COVER FOR MECHANICAL SEAL FLUSHING | 1 | 1/4 NPSF | STANDARD |
| T3 | IN & OUT CONNECTIONS FOR COOLING - W.C. ST. BOX COVER ONLY | 2 | 3/8 NPSF | OPTIONAL |
| T4 | DRAIN CONNECTION FOR COOLING - W.C. ST. BOX COVER ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T5 | IN CONNECTION FOR MECHANICAL SEAL GLAND. DOUBLE SEAL ONLY | 1 | 1/4 NPSF | OPTIONAL |
| T6 | IN & OUT LUBRICATION CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T7 | VENT & DRAIN CONNECTION FOR MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T8 | COOLING CONNECTION FOR SINGLE MECHANICAL SEAL QUENCH GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T9 | QUENCH CONNECTION - PACKED STUFFING BOX GLAND | 2 | 1/4 NPSF | OPTIONAL |
| T10 | FRAME COOLING | 4** | 3/8 NPSF | OPTIONAL |
| T11 | FRAME DRIP BASIN DRAIN | 1 | 1/2 NPSF | STANDARD |
| T12 | FRAME DRIP PAN DRAIN | 1 | 3/8 NPSF | OPTIONAL |
| T13 | FRAME OILER CONNECTION | 2* | 1/4 NPSF | STANDARD |
| T14 | FRAME OIL DRAIN | 2* | 1/4 NPSF | STANDARD |
| T15 | CASING DRAIN | 2 | 1/4 NPSF | OPTIONAL |
| T16 | CASING DISCHARGE NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |
| T17 | CASING SUCTION NOZZLE GAUGE CONNECTION | 1 | 1/4 NPSF | OPTIONAL |

* DIRECTLY OPPOSITE
** ONE (1) IN, ONE (1) OUT (EACH SIDE)

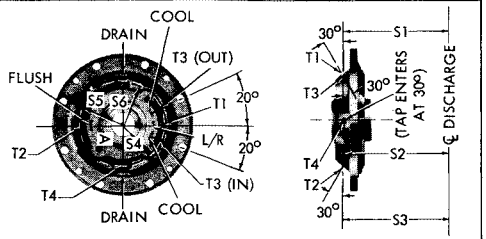
GLANDS:

| | |
|---|---|
| G1 | 4-5/8 |
| G2 | 5-1/16 |
| G3 | 4-9/16 |
| G4 | 4-9/16 |
| G5 | 4-3/4 |
| G6 | 5-1/8 |
| G7 | 3-1/4 |

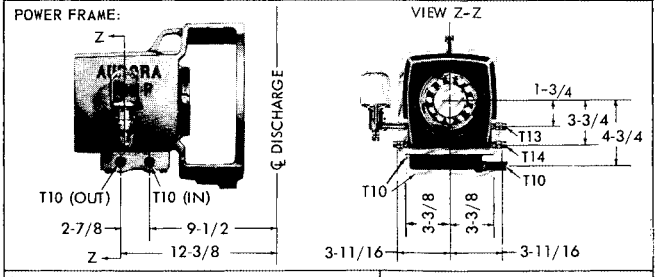



STUFFING BOX:

| | | |
|---|---|---|
| S1 | | 3-7/16 |
| S2 | | 2-15/16 |
| S3 | STD. | 3-1/2 |
| | W/C | 3-1/2 |
| S4 | | 2-13/16 |
| S5 | STD. | 2-5/8 |
| | W/C | 3 |
| S6 | | 2-7/8 |

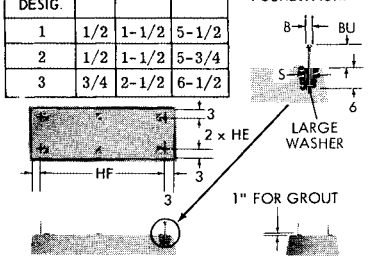



POWER FRAME:




| BASE PLATE DESIG. | B | S | BU |
|---|---|---|---|
| 1 | 1/2 | 1-1/2 | 5-1/2 |
| 2 | 1/2 | 1-1/2 | 5-3/4 |
| 3 | 3/4 | 2-1/2 | 6-1/2 |

RECOMMENDED FOUNDATION:

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   B. COVER SIDE VIEW IS ROTATED 90° TO ILLUSTRATE TAP DETAIL.
7. SEAL GLAND.
   A. ILLUSTRATION COMBINES ALL COMBINATIONS FOR TAP DETAIL.

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