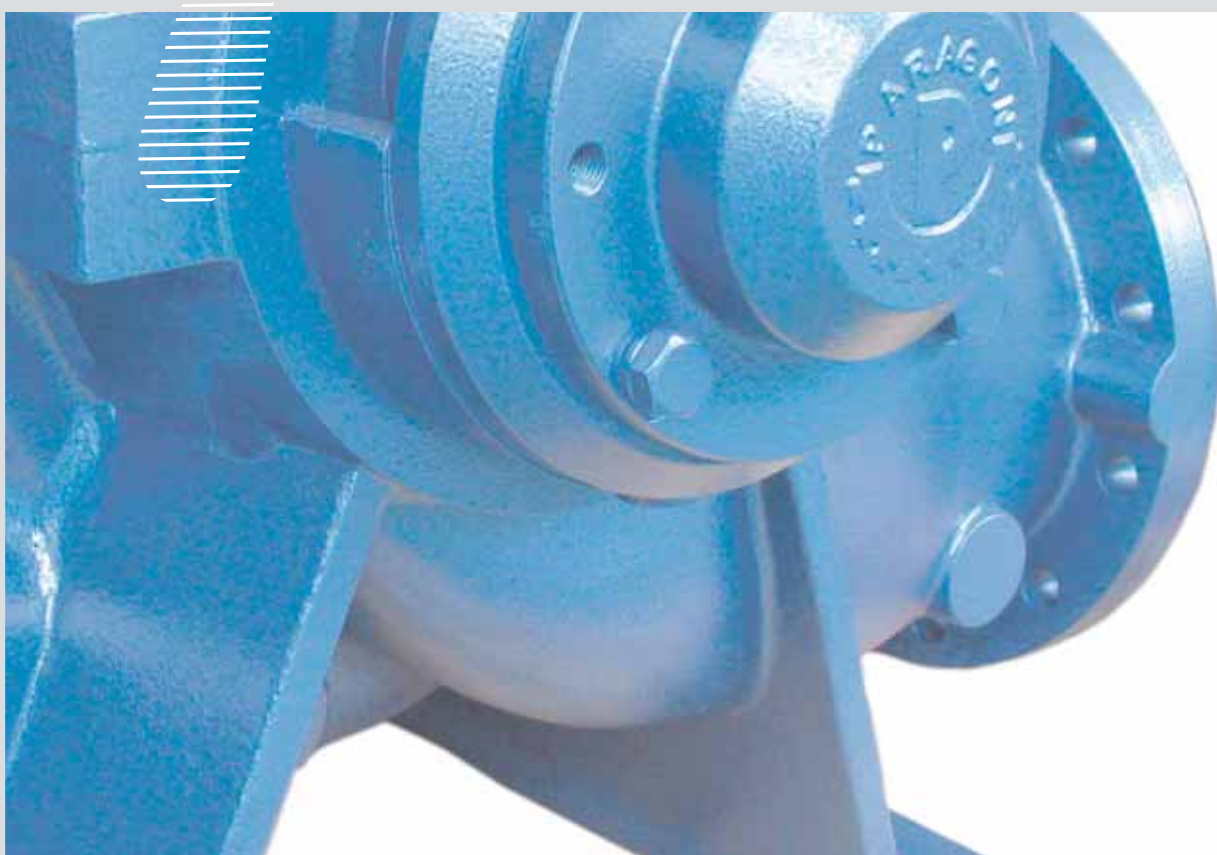




PS SERIES

SINGLE STAGE DOUBLE SUCTION
SPLIT CASING CENTRIFUGAL PUMP



APPLICATIONS

Waterworks, Irrigation, Air-Conditioning Systems, Drainage pumping stations, Power stations, Industrial water supply systems & Fire fighting applications in refineries.

OPERATING DATA

| | |
|--------------------|------------------------------------|
| Discharge Diameter | 80 ~ 600mm |
| Max Capacity | 2000l/s |
| Max Head | 170m |
| Max Pressure | 16 Bar Standard, 25 Bar on Request |
| Max Temperature | 105°C |

MODEL CODE

| | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|
| | PS | V | 200 | -125 | -290 |
| Series | _____ | _____ | _____ | _____ | _____ |
| Vertical type | _____ | _____ | _____ | _____ | _____ |
| Suction(mm) | _____ | _____ | _____ | _____ | _____ |
| Discharge(mm) | _____ | _____ | _____ | _____ | _____ |
| Nominal Impeller diameter (mm) | _____ | _____ | _____ | _____ | _____ |

PUMP CASING

The casing is axially split, which permits removal of the complete rotor without disturbing either piping or the motor.

Pumps generating high heads have double volutes to reduce radial forces, ensuring minimal shaft deflection and low bearing loads.

Replaceable wear rings protect the casing at the impeller running clearances. High head pumps are also fitted with replaceable impeller wear rings.

Flanges drilled to DIN PN10 with options for flanges drilled to ISO, BS or ANSI standards.

IMPELLER

The closed impellers have double curved vanes. The double suction design gives practically zero axial forces. Each impeller is statically and dynamically balanced according to ISO 1940.

BEARINGS

Both sides are grease lubricated deep groove ball bearings, sealed for life. Oil lubrication are also available as optional.

SHAFT SEAL

Uncooled soft-packed stuffing box or uncooled single acting. Unbalanced mechanical seal. According to DIN 24960, independent of direction of rotation.

Optional : Balanced mechanical seal available for operating pressure higher than 16 bar.

MATERIALS

| | Standard Bronze Fitted | Standard Cast Iron Fitted | Stainless Steel Construction |
|------------|---------------------------|------------------------------|---------------------------------|
| Casing | Cast Iron | Cast Iron | 304/316 SS |
| Impeller | Bronze | Cast Iron | 304/316 SS |
| Shaft | 420 SS | 420 SS | 304/316 SS |
| Shaft Seal | Single Unloaded Mech Seal | | |

PUMP CASING, CASING COVER

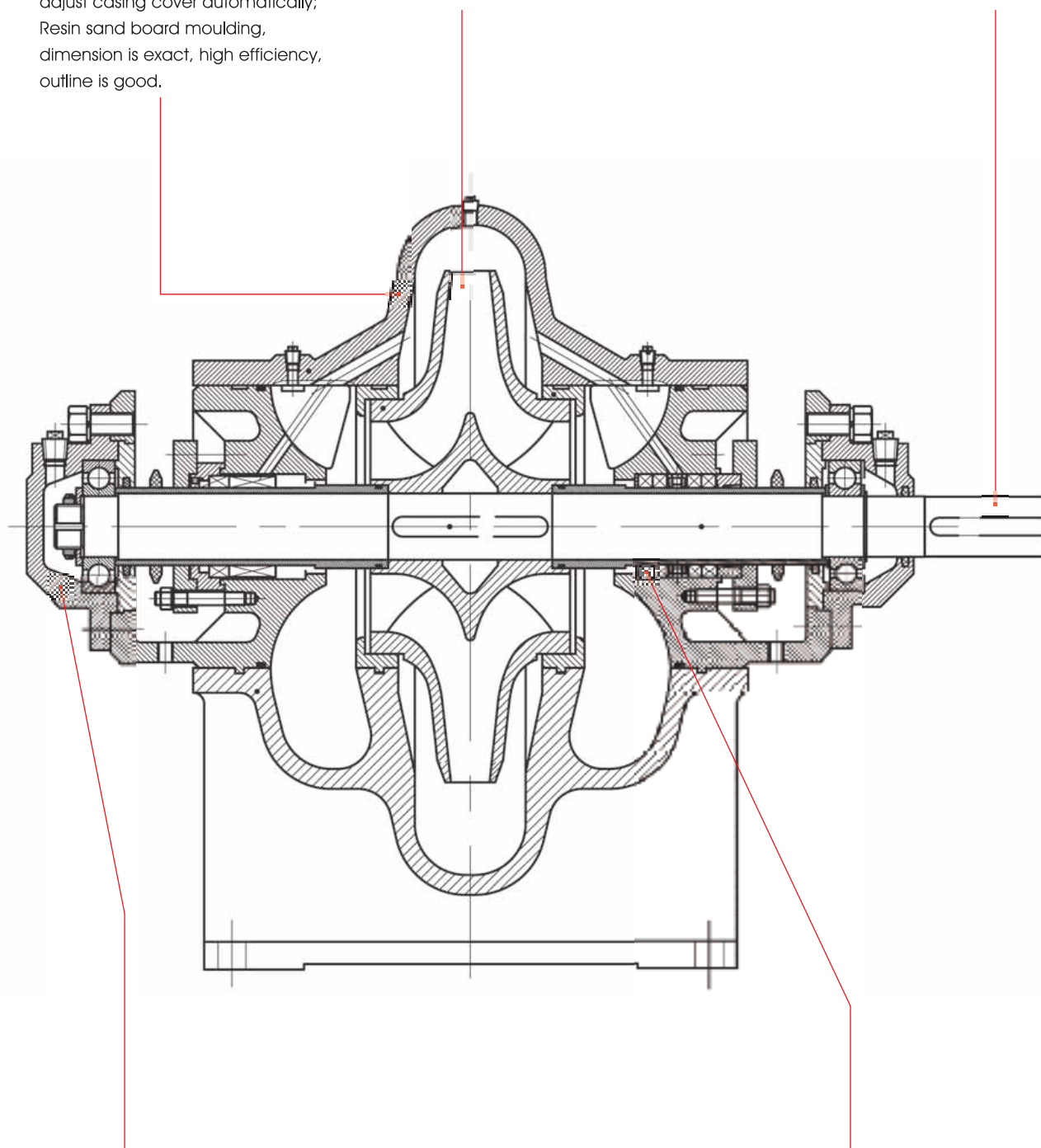
Linearity designed and attached with strengthening rib, appearance is fine; Supporting distance between two ends is short, and its shaft is also short; Most part of casing adopts double-passage design, high efficiency; Can adjust casing cover automatically; Resin sand board moulding, dimension is exact, high efficiency, outline is good.

IMPELLER

Resin sand board moulding, dimension is accurate, high efficiency; Serial efficiency is 3-5% higher than common double-suction pump; It is dynamically balanced, operation is even, low noise.

SHAFT

Shorten the shaft distance between bearings to lengthen the life of bearing and mechanical seals; Fully sealed, don't contact to medium, no erosion; Needn't adjust when assemble; Serial design, high interchangeability.



BEARING HOUSING AND BEARING

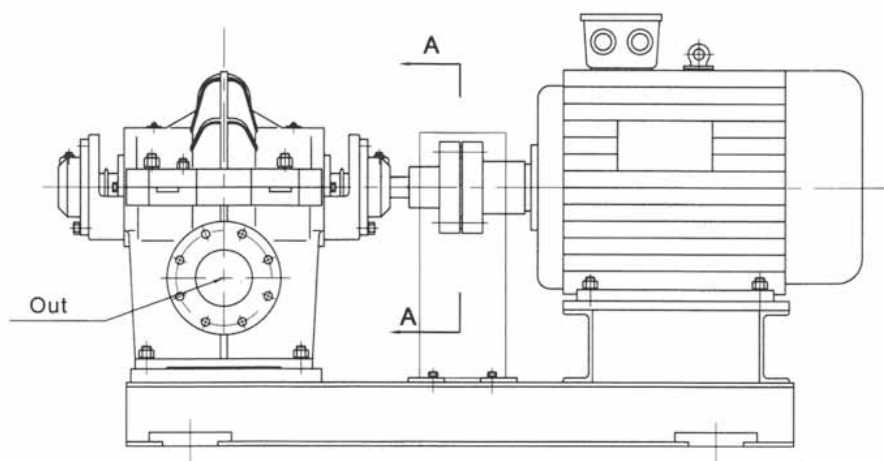
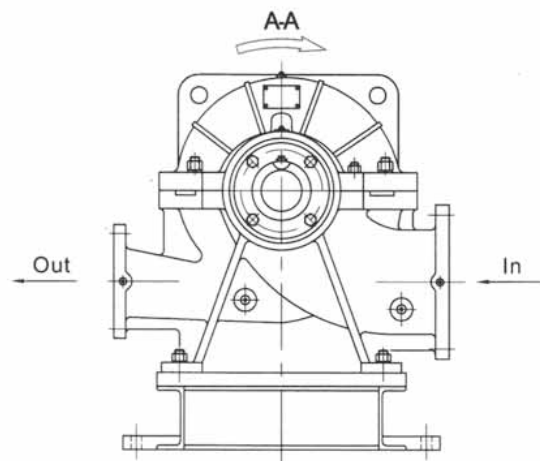
Dismantling is convenient, has enough space to maintain and repair; Casing, casing cover, seal chamber and bearing body are of integrated mass, good appearance.

SEALING SYSTEM

Inside seal, the lubrication and flushing of seal system by closed circulating water are more direct, efficient; Inside seal and lubrication structure makes the whole frame of pump to be an integrated mass.

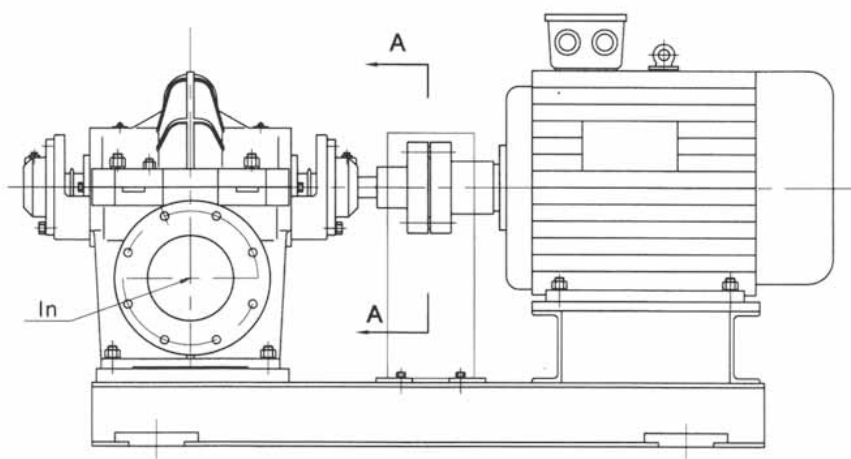
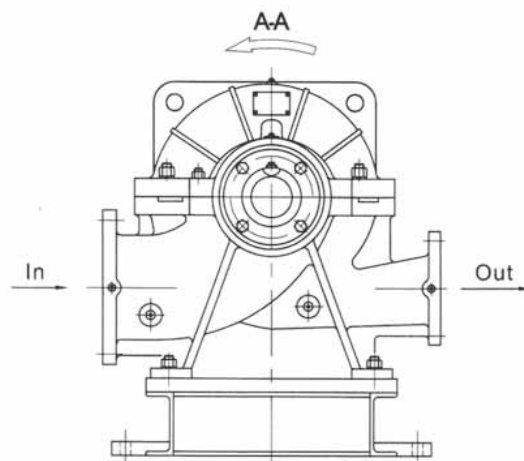
ROTATION STANDARD TYPE

Clockwise viewing from the drive side

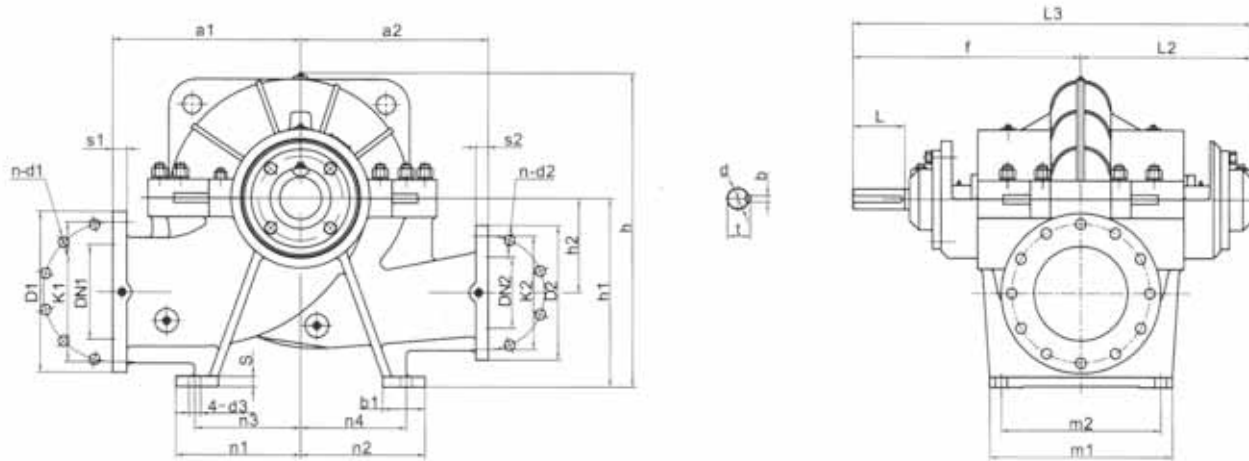


SPECIAL TYPE

Counter-clockwise viewing from the drive side

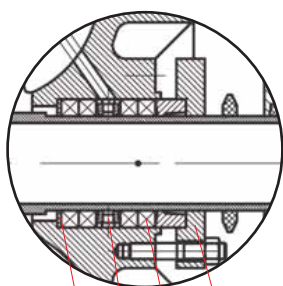
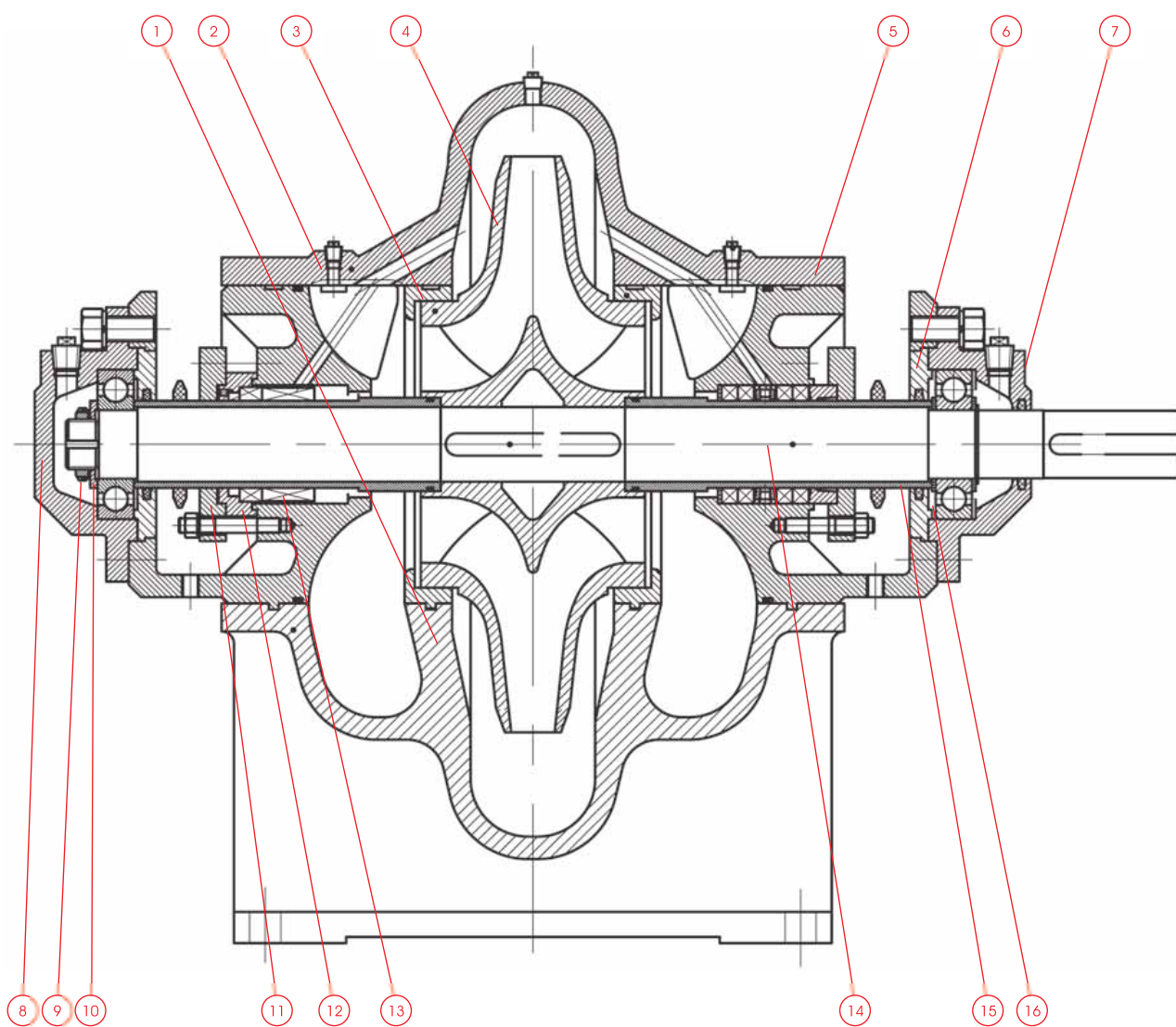


ES OUTLINE DRAWING & INSTALLING DIMENSIONS



PUMP DIMENSION

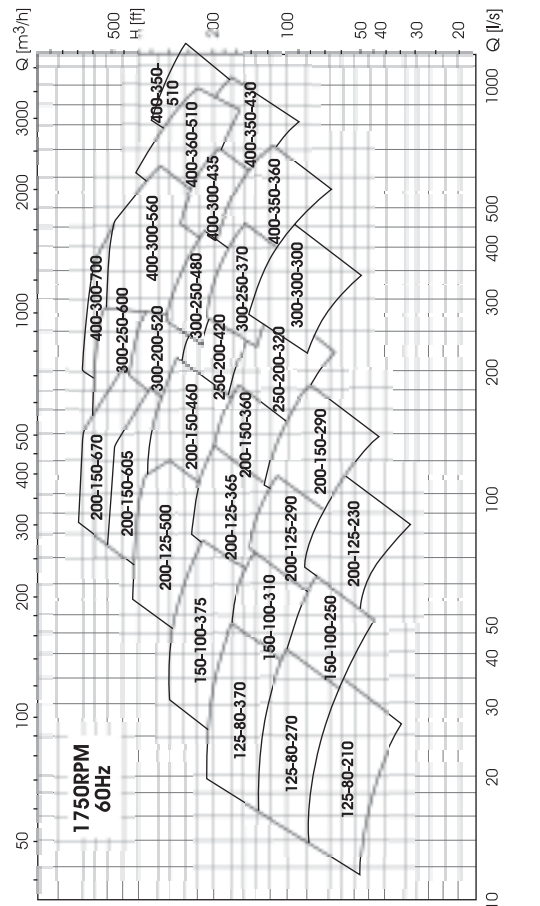
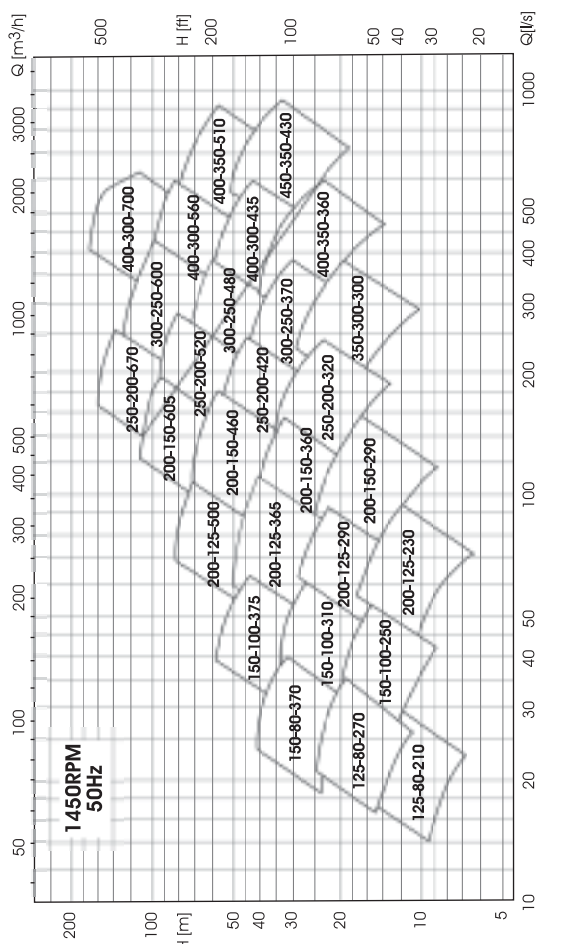
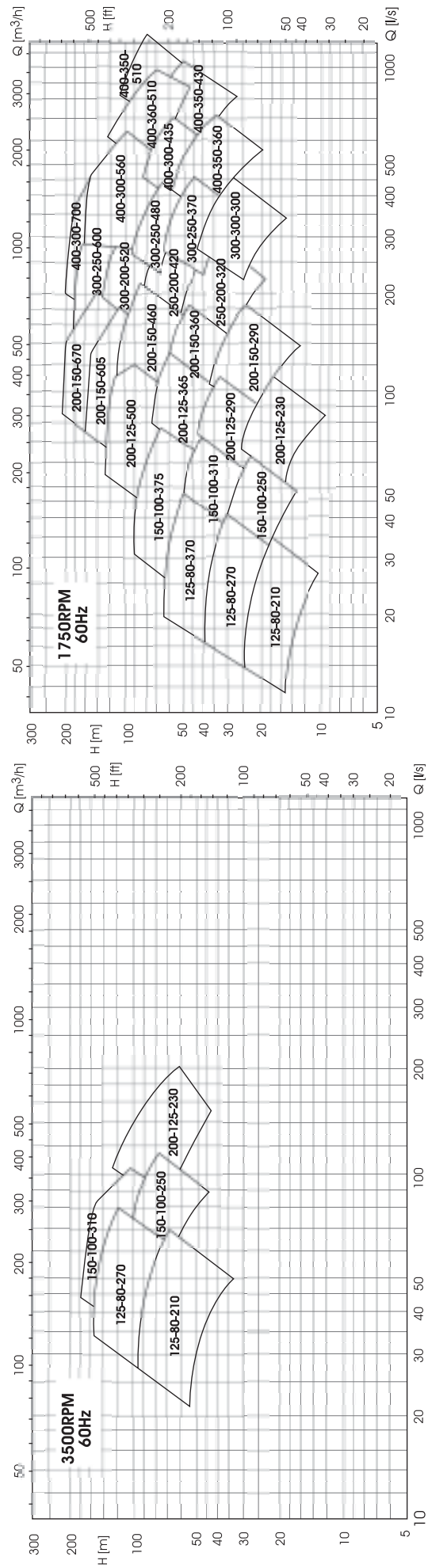
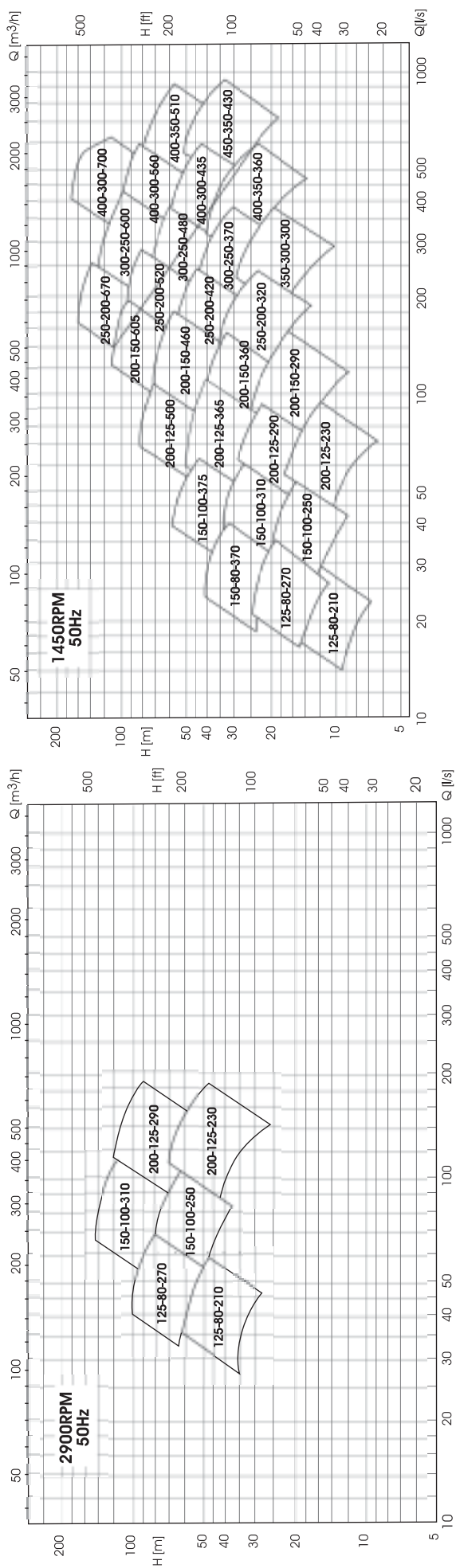
| PUMP MODEL | Flange | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|-----|------|------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|
| | DN1 | DN2 | a1 | a2 | f | L2 | L3 | h | h1 | h2 | m1 | m2 | n1 | n2 | n3 | n4 | b1 | d3 | s | d | b | l |
| PS 125 x 80 - 210 | 125 | 80 | 300 | 300 | 385 | 300 | 685 | 480 | 315 | 140 | 320 | 270 | 205 | 205 | 170 | 170 | 80 | | | ø34 | 10 | 80 |
| PS 125 x 80 - 270 | | | 505 | | | | | | | | | | | | | | | | | | | |
| PS 125 x 80 - 370 | | | 540 | | | | | | | | | | | | | | | | | | | |
| PS 150 x 100 - 290 | 150 | 100 | 330 | 330 | 385 | 300 | 685 | 545 | 355 | 170 | 320 | 270 | 235 | 235 | 200 | 200 | 75 | ø25 | 22 | | ø44 | 12 |
| PS 150 x 100 - 310 | | | 585 | | | | | | | | | | | | | | | | | | | |
| PS 150 x 100 - 375 | | | 610 | | | | | | | | | | | | | | | | | | | |
| PS 200 x 125 - 230 | 200 | 125 | 370 | 370 | 485 | 365 | 850 | 620 | 400 | 200 | 390 | 340 | 265 | 265 | 225 | 225 | 90 | | | | | |
| PS 200 x 125 - 290 | | | 635 | | | | | | | | | | | | | | | | | | | |
| PS 200 x 125 - 345 | | | 660 | | | | | | | | | | | | | | | | | | | |
| PS 200 x 125 - 500 | 200 | 125 | 450 | 450 | 485 | 365 | 850 | 715 | 400 | 200 | 390 | 340 | 320 | 320 | 280 | 280 | 85 | | | | | |
| PS 200 x 150 - 290 | | | 655 | | | | | | | | | | | | | | | | | | | |
| PS 200 x 150 - 360 | | | 670 | | | | | | | | | | | | | | | | | | | |
| PS 200 x 150 - 460 | 200 | 150 | 400 | 400 | 520 | 400 | 820 | 710 | 500 | 240 | 480 | 430 | 315 | 315 | 280 | 280 | 75 | ø30 | 35 | | | |
| PS 200 x 150 - 605 | | | 450 | | | | | | | | | | | | | | | | | | | |
| PS 200 x 150 - 605 | | | 500 | | | | | | | | | | | | | | | | | | | |
| PS 250 x 200 - 250 | 250 | 200 | 450 | 450 | 614 | 464 | 1078 | 780 | 560 | 300 | 490 | 440 | 315 | 315 | 280 | 280 | 85 | ø25 | 25 | | ø54 | 16 |
| PS 250 x 200 - 320 | | | 800 | | | | | | | | | | | | | | | | | | | |
| PS 250 x 200 - 430 | | | 820 | | | | | | | | | | | | | | | | | | | |
| PS 250 x 200 - 520 | 250 | 200 | 600 | 600 | 614 | 464 | 1078 | 920 | 560 | 300 | 490 | 440 | 315 | 315 | 280 | 280 | 85 | ø25 | 25 | | ø54 | 16 |
| PS 250 x 200 - 670 | | | 650 | | | | | | | | | | | | | | | | | | | |
| PS 300 x 250 - 280 | | | 940 | | | | | | | | | | | | | | | | | | | |
| PS 300 x 250 - 370 | 300 | 250 | 500 | 500 | 695 | 515 | 1210 | 945 | 600 | 300 | 480 | 400 | 400 | 400 | 350 | 350 | 100 | ø30 | 28 | | ø64 | 18 |
| PS 300 x 250 - 480 | | | 550 | | | | | | | | | | | | | | | | | | | |
| PS 300 x 250 - 600 | | | 650 | | | | | | | | | | | | | | | | | | | |
| PS 350 x 300 - 300 | 350 | 300 | 550 | 550 | 614 | 464 | 1078 | 1050 | 630 | 300 | 500 | 400 | 400 | 400 | 350 | 350 | 100 | ø30 | 28 | | ø64 | 18 |
| PS 400 x 300 - 435 | | | 650 | | | | | | | | | | | | | | | | | | | |
| PS 400 x 300 - 560 | | | 700 | | | | | | | | | | | | | | | | | | | |
| PS 400 x 300 - 700 | 400 | 300 | 750 | 750 | 695 | 515 | 1210 | 1235 | 750 | 400 | 620 | 520 | 525 | 525 | 475 | 475 | 110 | ø30 | 32 | | ø74 | 20 |
| PS 400 x 350 - 305 | | | 650 | | | | | | | | | | | | | | | | | | | |
| PS 400 x 350 - 360 | | | 700 | | | | | | | | | | | | | | | | | | | |
| PS 450 x 350 - 430 | 450 | 350 | 750 | 750 | 695 | 515 | 1210 | 1165 | 750 | 400 | 620 | 520 | 530 | 530 | 475 | 475 | 110 | ø30 | 32 | | ø74 | 20 |
| PS 400 x 350 - 510 | | | 700 | | | | | | | | | | | | | | | | | | | |
| PS 450 x 350 - 660 | | | 750 | | | | | | | | | | | | | | | | | | | |
| PS 500 x 400 - 410 | 500 | 400 | 700 | 700 | 695 | 515 | 1210 | 1205 | 800 | 450 | 700 | 600 | 420 | 420 | 370 | 370 | 120 | ø33 | 40 | | ø75 | 20 |
| PS 500 x 400 - 460 | | | 650 | | | | | | | | | | | | | | | | | | | |
| PS 500 x 400 - 520 | | | 750 | | | | | | | | | | | | | | | | | | | |
| PS 500 x 400 - 680 | 500 | 400 | 650 | 650 | 695 | 515 | 1210 | 1225 | 800 | 450 | 700 | 600 | 520 | 520 | 470 | 470 | 120 | ø33 | 40 | | ø75 | 20 |
| PS 600 x 500 - 510 | | | 700 | | | | | | | | | | | | | | | | | | | |
| PS 600 x 500 - 640 | | | 750 | | | | | | | | | | | | | | | | | | | |
| PS 600 x 500 - 790 | 600 | 500 | 850 | 850 | 695 | 515 | 1210 | 1255 | 780 | 400 | 620 | 520 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 600 x 500 - 890 | | | 900 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 840 | | | 950 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 840 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1285 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1315 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1345 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1375 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1405 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1435 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1465 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1495 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1525 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1555 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1585 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1615 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1645 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1675 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1705 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1735 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1765 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1795 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1825 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1855 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1885 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1915 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1945 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 1975 | 800 | 450 | 700 | 600 | 530 | 530 | 475 | 475 | 110 | ø33 | 40 | | ø75 | 20 |
| PS 700 x 600 - 920 | | | 1050 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | | | 1100 | | | | | | | | | | | | | | | | | | | |
| PS 700 x 600 - 920 | 700 | 600 | 1000 | 1000 | 695 | 515 | 1210 | 2005 | 800 | 450 | 70 | | | | | | | | | | | |



17 18 19 20

NO. SPARE PART

1. Casing
2. Casing Cover
3. Wear Ring
4. Impeller
5. Seal Housing
6. Bearing Cover
7. Drive End Bearing Housing
8. Non-drive End Bearing Housing
9. Lock Nut
10. Bearing Baffle
11. Seal Plate
12. Seal Cover
13. Mechanical Seal
14. Shaft
15. Shaft Sleeve
16. Bearing Pressing Ring
17. Packing Pressing Ring
18. Seal Cage
19. Gland Packing
20. Gland Cover





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