



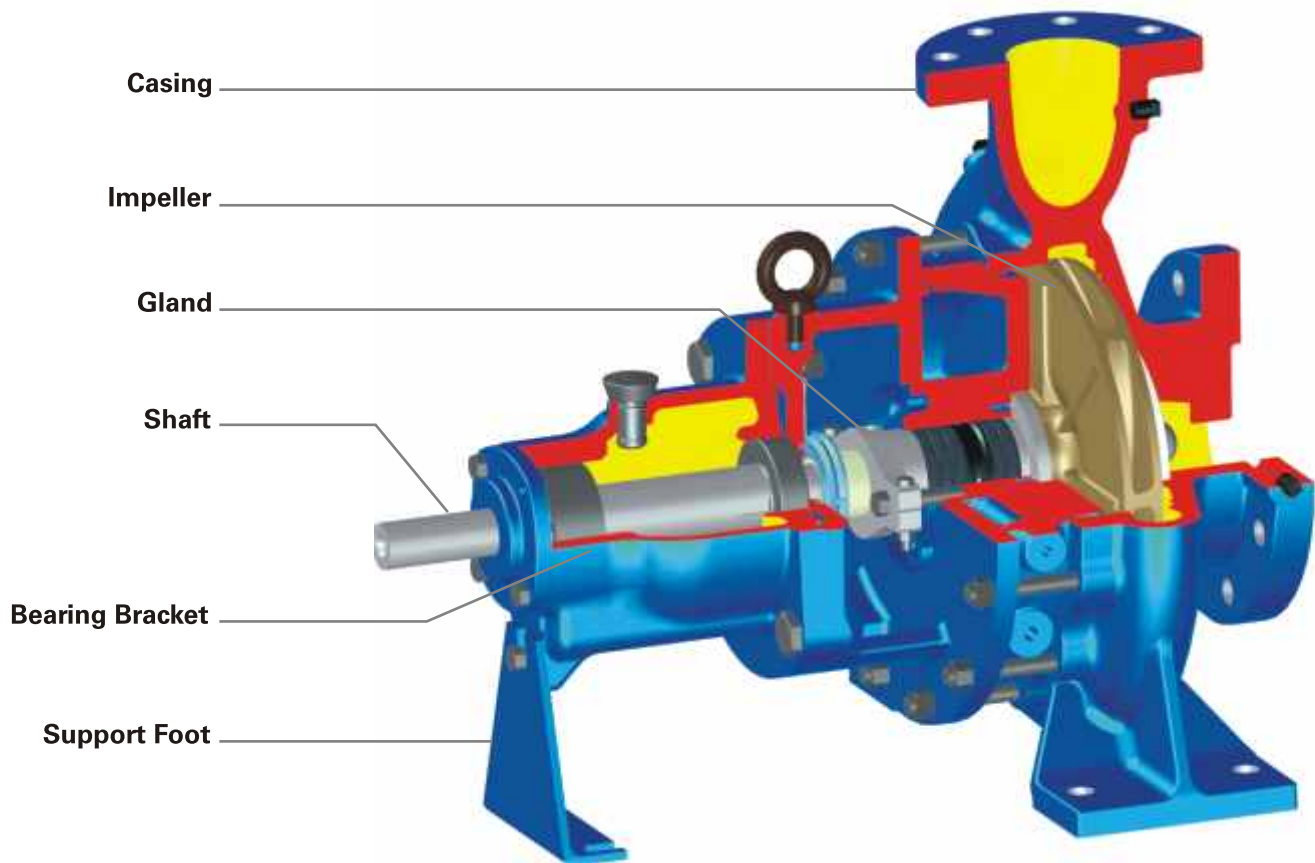
Enriching Lives

PROCESS PUMPS

TYPE - KPD / KPD-QF



KIRLOSKAR BROTHERS LIMITED



RANGE

Delivery size : up to 200 mm
 Capacity : up to 900 m³/hr
 Head : up to 225 metres
 Working Pressures : 16-30 kg/cm²
 Temperature : (-)50°C to +350°C

APPLICATIONS

Chemical Process Industries, Petro Chemical, Nuclear, Refinery, Paper and Power Plants etc.
 Pumps suitable for handling Corrosive Acids, Alkalies, Salt Solutions, Caustics, Hydro Carbons, Oils, Thermic Fluids, Liquefied Gases, Condensates, Viscous Liquids etc.

FEATURES

Pumps are as per EN 22858 (DIN 24256) and ISO 2858. The design is of back pull out type. Large variety of models are available to operate at 1450 rpm and 2900 rpm at 50Hz.

Casing :

The casing has axial suction and top centre line delivery. Smooth hydraulic passages ensure high efficiency. Normal design is for foot mounted pumps. Centre line mounting for special applications are also available.

Impeller :

The impellers are of enclosed type and semi-open impellers can also be supplied. Hydraulic balancing of impellers is achieved either by back vanes or by balancing holes. The impellers are statically and dynamically balanced. Reliable fixing of the impeller on shaft is achieved by using helicoil insert under impeller nut. To improve NPSH performance, inducer can be supplied.

Shaft :

The shaft is supported by two antifriction bearings to take residual axial thrust and prevent axial float or radial run out. It is fully protected from the liquid handled by means of a shaft sleeve and gaskets between impeller nut, impeller hub and shaft sleeve.

Stuffing Box :

The stuffing box is sealed by gland packing or by cartridge type mechanical seal. Conversion from gland packing to mechanical seal is achieved by changing some standardised parts. Re-machining of stuffing box is not necessary. Stuffing box cooling is provided for operating temperature 105°C for gland packed and 140°C for mechanical seal fitted pumps.

Bearing :

The bearings are oil lubricated. For high temperature (above 180°C) application, bearing oil cooling arrangement is provided. All pumps are provided with reinforced bearing arrangement as standard supply.

Direction of Rotation :

Clockwise viewed from driving end.

Drive :

Pumps can be driven by electric motor or engine.

Flanges :

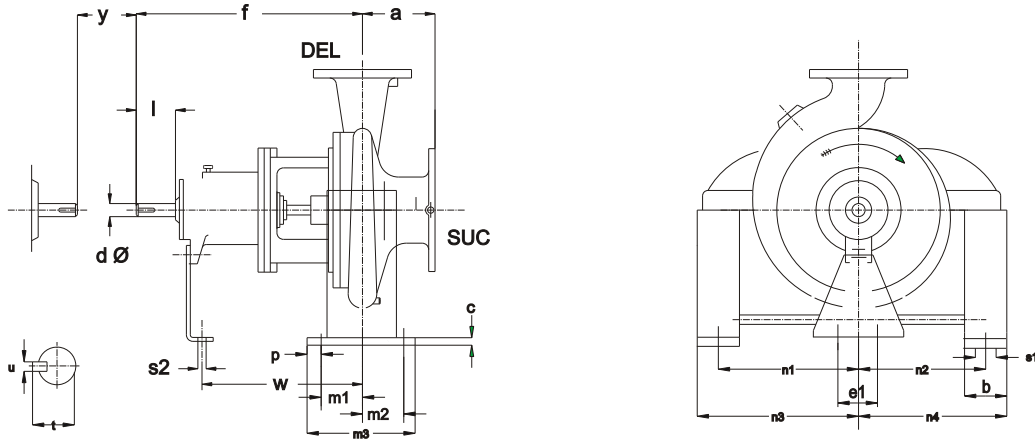
ANSI B 16.1, CL 125 Flat Face : for CI/BR

ANSI B 16.5, CL 150 Raised Face - for sp.metals viz. st.steel, cast steel etc.

Drilling as per DIN, ASA, BS etc. (Optional)

GENERAL DIMENSIONS / MOUNTING DETAILS

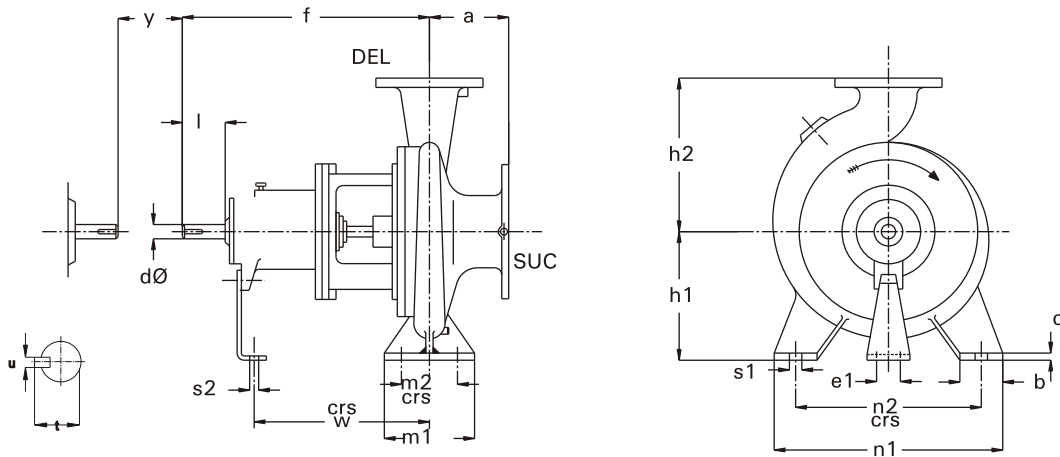
Centreline Mounted (CLM) Pump



| Pump Type | Drv. Unit | Pump Dimensions | | | | | | Foot Dimensions | | | | | | | | | | | | | | Shaft End | | | | | | | | | |
|-----------|-----------|-----------------|-----|-----|-----|-----|-----|-----------------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-----|----|-----|----|-----------|-----|------|-----|-----|-----|-----|-----|-----|-----|
| | | SUC | DEL | a | f | h1 | h2 | b | c | m1 | m2 | m3 | n1 | n2 | n3 | n4 | w | s1 | s2 | e1 | p | d | l | t | u | y | | | | | |
| 0/ 13CF | 4 | 25 | 20 | 80 | 385 | 200 | 64 | 15 | 72 | 88 | 190 | 170 | 165 | 155 | 145 | 187 | 177 | 285 | 14 | 15 | 23 | 18 | 40 | 20.5 | 6 | 100 | | | | | |
| 20/16QF | | | | | | | | | | | | | | | | | | | | | | | | | | | 140 | 125 | 125 | 157 | 157 |
| 20/20QF | | | | | | | | | | | | | | | | | | | | | | | | | | | 150 | 130 | 130 | 162 | 162 |
| 25/16QF | | | | | | | | | | | | | | | | | | | | | | | | | | | 170 | 155 | 155 | 187 | 187 |
| 32/13 | 5 | 50 | 32 | 80 | 385 | 200 | 64 | 15 | 72 | 88 | 190 | 170 | 165 | 155 | 145 | 187 | 177 | 285 | 14 | 15 | 23 | 18 | 40 | 20.5 | 6 | 100 | | | | | |
| 32/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | 140 | 125 | 125 | 157 | 157 |
| 32/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | 160 | 155 | 145 | 187 | 177 |
| 40/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | 180 | 170 | 165 | 202 | 197 |
| 40/16 | 5 | 65 | 40 | 80 | 385 | 200 | 64 | 15 | 72 | 88 | 190 | 170 | 165 | 155 | 145 | 187 | 177 | 285 | 14 | 15 | 23 | 18 | 40 | 20.5 | 6 | 100 | | | | | |
| 40/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | 140 | 125 | 125 | 157 | 157 |
| 50/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | 160 | 155 | 145 | 187 | 177 |
| 50/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | 180 | 170 | 165 | 202 | 197 |
| 50/20 | 5 | 80 | 50 | 100 | 385 | 200 | 64 | 15 | 72 | 88 | 190 | 170 | 165 | 155 | 145 | 187 | 177 | 285 | 14 | 15 | 23 | 18 | 40 | 20.5 | 6 | 100 | | | | | |
| 65/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | 140 | 125 | 125 | 157 | 157 |
| 25/26A | | | | | | | | | | | | | | | | | | | | | | | | | | | 160 | 155 | 145 | 187 | 177 |
| 32/26 | | | | | | | | | | | | | | | | | | | | | | | | | | | 180 | 170 | 165 | 202 | 197 |
| 40/26 | 7 | 65 | 40 | 100 | 500 | 250 | 90 | 89.5 | 110.5 | 230 | 260 | 240 | 305 | 285 | 370 | 15 | 110 | 32 | 80 | 35 | 10 | 140 | 27 | 8 | 100 | | | | | | |
| 40/32 | | | | | | | | | | | | | | | | | | | | | | | | | | 250 | 225 | 225 | 252 | 252 | |
| 50/26 | | | | | | | | | | | | | | | | | | | | | | | | | | 225 | 220 | 220 | 252 | 252 | |
| 50/32 | | | | | | | | | | | | | | | | | | | | | | | | | | 280 | 280 | 280 | 285 | 285 | |
| 65/16 | 7 | 100 | 65 | 100 | 500 | 250 | 64 | 72 | 88 | 190 | 210 | 175 | 242 | 207 | 370 | 15 | 110 | 32 | 80 | 35 | 10 | 140 | 27 | 8 | 100 | | | | | | |
| 65/20 | | | | | | | | | | | | | | | | | | | | | | | | | | 200 | 225 | 225 | 252 | 252 | |
| 65/26 | | | | | | | | | | | | | | | | | | | | | | | | | | 250 | 280 | 280 | 285 | 285 | |
| 80/16 | | | | | | | | | | | | | | | | | | | | | | | | | | 225 | 220 | 220 | 252 | 252 | |
| 80/20 | 7 | 125 | 80 | 100 | 500 | 250 | 64 | 72 | 88 | 190 | 210 | 175 | 242 | 207 | 370 | 15 | 110 | 32 | 80 | 35 | 10 | 140 | 27 | 8 | 100 | | | | | | |
| 80/26 | | | | | | | | | | | | | | | | | | | | | | | | | | 250 | 280 | 280 | 285 | 285 | |
| 100/20 | | | | | | | | | | | | | | | | | | | | | | | | | | 280 | 280 | 280 | 285 | 285 | |
| 65/32 | | | | | | | | | | | | | | | | | | | | | | | | | | 280 | 280 | 280 | 285 | 285 | |
| 80/32 | 9 | 100 | 65 | 100 | 530 | 315 | 315 | 18 | 100 | 150 | 300 | 310 | 295 | 355 | 340 | 23 | 25 | 25 | 42 | 110 | 45 | 12 | 27 | 8 | 100 | | | | | | |
| 80/40 | | | | | | | | | | | | | | | | | | | | | | | | | | 315 | 315 | 315 | 340 | 340 | |
| 100/26 | | | | | | | | | | | | | | | | | | | | | | | | | | 365 | 365 | 365 | 390 | 390 | |
| 100/32 | | | | | | | | | | | | | | | | | | | | | | | | | | 280 | 280 | 280 | 285 | 285 | |
| 100/40 | 9 | 125 | 80 | 140 | 530 | 315 | 315 | 15 | 92.5 | 107.5 | 230 | 260 | 230 | 305 | 275 | 18 | 25 | 25 | 42 | 110 | 45 | 12 | 27 | 8 | 100 | | | | | | |
| 125/26 | | | | | | | | | | | | | | | | | | | | | | | | | | 315 | 315 | 315 | 340 | 340 | |
| 125/32 | | | | | | | | | | | | | | | | | | | | | | | | | | 365 | 365 | 365 | 390 | 390 | |
| 125/40 | | | | | | | | | | | | | | | | | | | | | | | | | | 280 | 280 | 280 | 285 | 285 | |
| 150/32 | 9 | 200 | 150 | 160 | 530 | 315 | 315 | 18 | 100 | 150 | 300 | 310 | 295 | 355 | 340 | 23 | 25 | 25 | 42 | 110 | 45 | 12 | 27 | 8 | 100 | | | | | | |
| 150/40 | | | | | | | | | | | | | | | | | | | | | | | | | | 315 | 315 | 315 | 340 | 340 | |
| 125/26 | | | | | | | | | | | | | | | | | | | | | | | | | | 365 | 365 | 365 | 390 | 390 | |
| 200/38M | | | | | | | | | | | | | | | | | | | | | | | | | | 280 | 280 | 280 | 285 | 285 | |
| 125/26 | 11 | 150 | 125 | 140 | 670 | 315 | 365 | 100 | 22 | 120 | 160 | 340 | 410 | 360 | 465 | 415 | 483.5 | 27 | 19 | 140 | 30 | 60 | 110 | 64.4 | 18 | 180 | | | | | |
| 200/46 | 13 | 250 | 200 | 200 | 670 | 400 | 500 | 100 | 22 | 120 | 160 | 340 | 410 | 360 | 465 | 415 | 483.5 | 27 | 19 | 140 | 30 | 60 | 110 | 64.4 | 18 | 180 | | | | | |
| 150/52 | 13 | 200 | 150 | 200 | 670 | 425 | 550 | 100 | 22 | 120 | 160 | 340 | 450 | 410 | 505 | 465 | 483.5 | 27 | 19 | 140 | 30 | 60 | 110 | 64.4 | 18 | 180 | | | | | |

GENERAL DIMENSIONS / MOUNTING DETAILS

Foot Mounted (FM) Pump

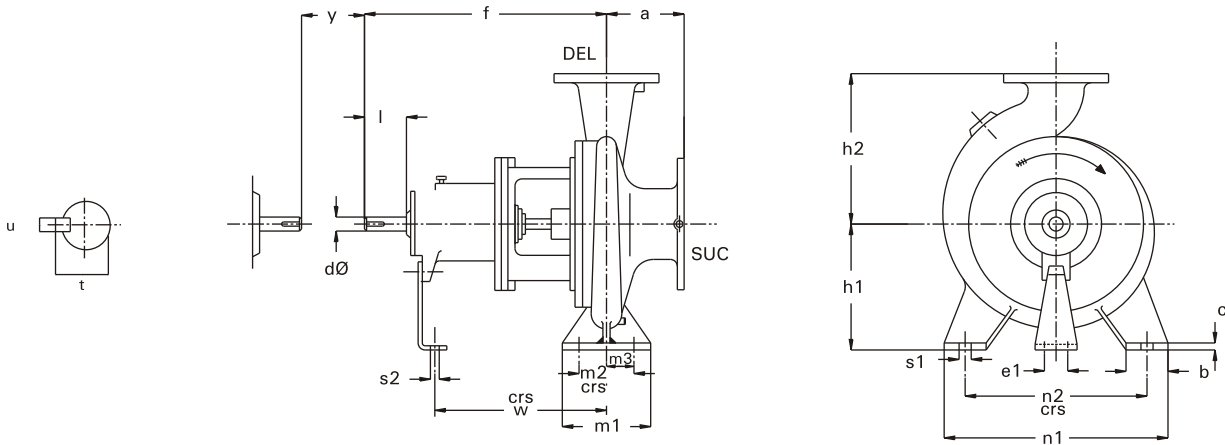


| Pump Type | Drg. Unit | Pump Dimensions | | | | | Foot Dimensions | | | | | | | | | | Shaft End | | | | | Wt. Kg. | | |
|-----------|-----------|-----------------|-----|-----|-----|-----|-----------------|-----|----|-----|-----|-----|-----|-----|------|----|-----------|-----|----|------|----|---------|-----|-----|
| | | SUC | DEL | a | f | | h1 | h2 | b | c | m1 | m2 | n1 | n2 | w | s1 | s2 | e1 | dØ | l | t | | u | y |
| 0/ BCF # | | | | | | 100 | 140 | | | 80 | 50 | 190 | 140 | | | | | | | | | | 1 | |
| 20/16QF # | 4 | 25 | 20 | 80 | 385 | 132 | 150 | 50 | 10 | | | 210 | 160 | 285 | 14 | 14 | 110 | 18 | 40 | 20.5 | 6 | 100 | 38 | |
| 20/20QF # | | | | | | 160 | 170 | | | 100 | 70 | 240 | 190 | | | | | | | | | | 43 | |
| 25/16QF # | | 40 | 25 | 100 | | 132 | 165 | | 14 | | | 210 | 160 | | | | | | | | | | 36 | |
| 25/20QF # | | | | | | | 180 | | 10 | 80 | 50 | 265 | 212 | | 11.5 | | | | | | | | 44 | |
| 32/13 | | 50 | 32 | | | 112 | 140 | | | | | 190 | 140 | | | | | | | | | | 38 | |
| 32/16 | | | | 80 | | 132 | 160 | | | | | 240 | 190 | | | | | | | | | | 40 | |
| 32/20 | | | | | | 160 | 180 | | | | | | | | | | | | | | | | 47 | |
| 40/13 | | | | | | 112 | 140 | | | | | 210 | 160 | | | | | | | | | | 39 | |
| 40/16 | 5 | 65 | 40 | | 385 | 132 | 160 | 50 | 14 | 100 | 70 | 240 | 190 | 285 | 14 | 15 | 110 | 24 | 50 | 27 | 8 | 100 | 42 | |
| 40/20 | | | | | | 160 | 180 | | | | | 265 | 212 | | | | | | | | | | 48 | |
| 50/13 | | | | | | 132 | 160 | | | | | 240 | 190 | | | | | | | | | | 42 | |
| 50/16 | | 80 | 50 | 100 | | 160 | 180 | | | | | 265 | 212 | | | | | | | | | | 46 | |
| 50/20 | | | | | | | 200 | | | | | | | | | | | | | | | | 53 | |
| 65/13 | | 100 | 65 | | | 160 | 180 | 65 | | 125 | 95 | 280 | 212 | | | | | | | | | | 69 | |
| 25/26 | | 50 | 25 | | | 180 | 225 | 65 | | 125 | 95 | 320 | 250 | | | | | | | | | | 90 | |
| 32/26 | | 50 | 32 | 100 | | 180 | 225 | | | | | 320 | 250 | | | | | | | | | | 90 | |
| 40/26 | | 65 | 40 | 125 | | | | | | | | | | | | | | | | | | | 90 | |
| 40/32 | | | | | | 200 | 250 | | | | | 345 | 280 | | | | | | | | | | 103 | |
| 50/26 | | 80 | 50 | 125 | 500 | 180 | 225 | 65 | 14 | 125 | 95 | 320 | 250 | | 14 | | | | | | | | 90 | |
| 50/32 | | | | | | 225 | 280 | | | | | 345 | 280 | | | | | | | | | | 120 | |
| 65/16 | | | | 100 | | 160 | 200 | | | | | 280 | 212 | | | | | | | | | | 77 | |
| 65/20 | 7 | 100 | 65 | | | 180 | 225 | | | | | 320 | 250 | 370 | | 15 | 110 | 32 | 80 | 35 | 10 | 140 | 79 | |
| 65/26 | | | | | | 200 | 250 | 80 | 16 | 160 | 120 | 360 | 280 | | 18 | | | | | | | | 96 | |
| 80/16 | | | | | | 180 | 225 | 65 | 14 | 125 | 95 | 320 | 250 | | 14 | | | | | | | | 85 | |
| 80/20 | | 125 | 80 | 125 | | | 250 | | | | | 345 | 280 | | | | | | | | | | 86 | |
| 80/26 | | | | | | 225 | 280 | | | | | 400 | 315 | | 18 | | | | | | | | 116 | |
| 100/20 | | 125 | 100 | | | 200 | 280 | 80 | 16 | 160 | 120 | 360 | 280 | | | | | | | | | | 106 | |
| 65/32 | | 100 | 65 | | | 225 | 280 | | | | | 400 | 315 | | | | | | | | | | 140 | |
| 80/32 | | | | | | 250 | 315 | | | | | | | | | | | | | | | | 146 | |
| 80/40 | | 125 | 80 | 125 | 530 | 280 | 355 | 80 | 16 | 160 | 120 | 435 | 355 | 370 | 18 | | | | | | | | 181 | |
| 100/26 | | | | | | 225 | 280 | | | | | 400 | 315 | | | | | | | | | | 134 | |
| 100/32 | | 125 | 100 | | | 250 | 315 | | | | | | | | | | 15 | 110 | 42 | 110 | 45 | 12 | 140 | 157 |
| 100/40 | 9 | | | 140 | | 280 | 355 | 100 | 18 | 200 | 150 | 500 | 400 | | 23 | | | | | | | | 164 | |
| 125/26 | | | | | | 250 | 355 | 80 | 16 | 160 | 120 | 400 | 315 | | 18 | | | | | | | | 158 | |
| 125/32 | | 150 | 125 | | | 280 | 355 | | 18 | | | | | 370 | | | | | | | | | 179 | |
| 125/40 | | | | | | 315 | 400 | 100 | | 200 | 150 | 500 | 400 | | 23 | | | | | | | | 212 | |
| 150/32 | | 200 | 150 | 160 | | 315 | 400 | | 22 | | | | | | | | | | | | | | 260 | |
| 150/40 \$ | | 200 | 150 | 160 | | 315 | 450 | 100 | 18 | 200 | 150 | 550 | 450 | | 23 | | | | | | | | 285 | |

All dimensions are in mm

GENERAL OUTLINE DIMENSIONS

KPD / KPD-QF (FM) Pump



| Pump Size | Driving Unit | Pump Dimensions | | | | | | Foot Dimensions | | | | | | | | | | Shaft End | | | | | Wt. Kg. | |
|-----------|--------------|-----------------|-----|-----|-----|-----|-----|-----------------|----|-----|-----|----|-----|-----|-----|----|----|-----------|----|-----|------|----|---------|-----|
| | | SUC | Del | a | f | h1 | h2 | b | c | m1 | m2 | m3 | n1 | n2 | w | s1 | s2 | e1 | d* | l | t | u | | y |
| 125/45 \$ | 11A | 150 | 125 | 160 | 670 | 350 | 450 | 100 | 20 | 180 | 120 | 70 | 550 | 450 | 500 | 23 | 19 | 140 | 48 | 110 | 51.4 | 14 | 180 | 290 |
| 150/43 \$ | 11B | 200 | 150 | 160 | 685 | 350 | 475 | 100 | 20 | 180 | 120 | 90 | 550 | 450 | 514 | 23 | 19 | 140 | 48 | 110 | 51.4 | 14 | 180 | 300 |
| 65/43 \$ | 9 | 100 | 65 | 160 | 530 | 280 | 365 | 80 | 18 | 160 | 120 | 60 | 435 | 355 | 370 | 18 | 15 | 110 | 42 | 110 | 45 | 12 | 140 | 195 |

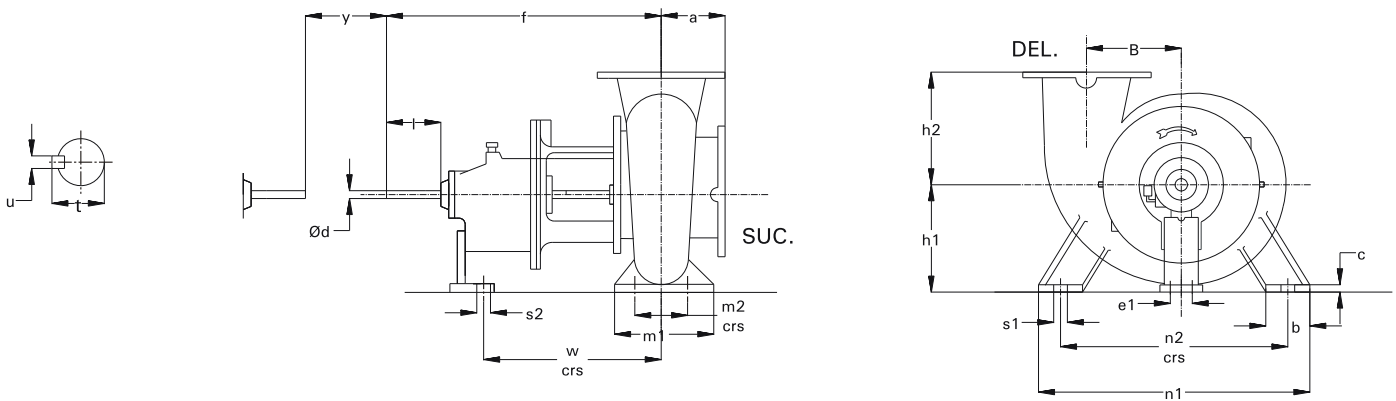
| Pump Size | Driving Unit | Pump Dimensions | | | | | | Foot Dimensions | | | | | | | | | | Shaft End | | | | | Wt. Kg. |
|------------|--------------|-----------------|-----|-----|-----|-----|-----|-----------------|----|-----|-----|-----|-----|-------|----|----|-----|-----------|-----|------|----|-----|---------|
| | | DEL | SUC | a | f | h1 | h2 | b | c | m1 | m2 | n1 | n2 | w | s1 | s2 | e1 | dØ | l | t | u | y | |
| 100/16 | 7 | 100 | 125 | 150 | 500 | 225 | 280 | 65 | 14 | 125 | 95 | 320 | 250 | 370 | 14 | 15 | 110 | 32 | 80 | 35 | 10 | 140 | 97 |
| 125/20 | 9 | 125 | 125 | 140 | 530 | 250 | 315 | 80 | 16 | 160 | 120 | 400 | 315 | 370 | 18 | 15 | 110 | 42 | 110 | 45 | 12 | 140 | 138 |
| 125/26 | 11 | 125 | 150 | 140 | 670 | 280 | 355 | 80 | 16 | 160 | 120 | 400 | 315 | 500 | 18 | 19 | 140 | 48 | 110 | 51.5 | 14 | 140 | 190 |
| 150/26 | 9 | 150 | 200 | 160 | 530 | 280 | 375 | 100 | 20 | 200 | 150 | 500 | 400 | 370 | 23 | 15 | 110 | 42 | 110 | 45 | 12 | 140 | 175 |
| 150/52 \$ | | 150 | 200 | 200 | 670 | 400 | 550 | 150 | 30 | 240 | 180 | 650 | 530 | 483 | 27 | 19 | 140 | 60 | 110 | 64.4 | 18 | 180 | 435 |
| 200/38M \$ | 13 | 200 | 250 | 200 | 670 | 400 | 500 | 120 | 30 | 240 | 180 | 550 | 430 | 483.5 | 27 | 19 | 140 | 60 | 110 | 64.4 | 18 | 180 | 550 |
| 200/46 \$ | | 200 | 250 | 200 | 670 | 425 | 550 | 120 | 30 | 240 | 180 | 640 | 540 | 483.5 | 27 | 19 | 140 | 60 | 110 | 64.4 | 18 | 180 | 560 |
| 80/40DV | 11 | 80 | 125 | 125 | 670 | 280 | 355 | 80 | 16 | 160 | 120 | 435 | 355 | 500 | 18 | 19 | 140 | 48 | 110 | 51.5 | 14 | 180 | 177 |
| 100/40DV | 11 | 100 | 150 | 140 | 670 | 280 | 355 | 100 | 18 | 200 | 150 | 500 | 400 | 500 | 23 | 19 | 140 | 48 | 110 | 51.5 | 14 | 180 | 200 |

Note :

These pumps provided with semi open impeller only.

\$ These pumps cannot be supplied with semi open impeller.

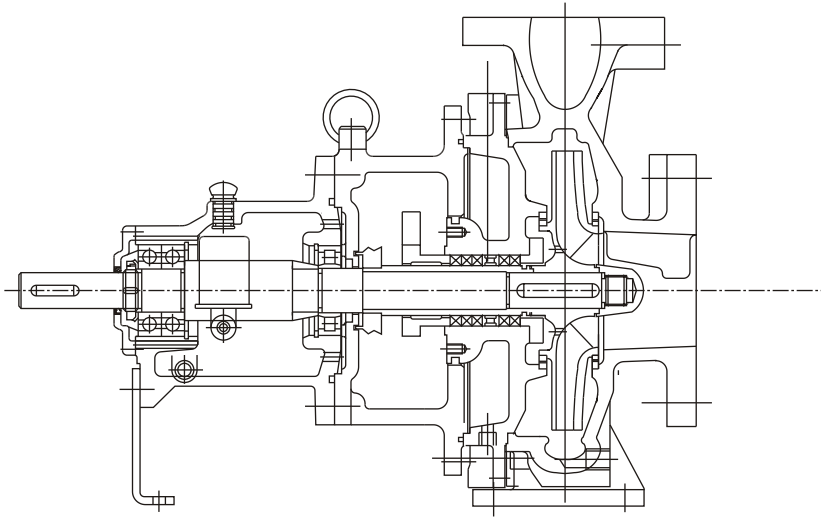
All dimensions are in mm



| Pump Size | Driving Unit | Pump Dimensions | | | | | | Foot Dimensions | | | | | | | | | | Shaft End | | | | | Wt. Kg. | |
|-----------|--------------|-----------------|-----|-----|-----|-----|-----|-----------------|-----|----|-----|-----|-----|-----|-----|----|----|-----------|-----|-----|------|----|---------|-----|
| | | SUC | Del | a | F | H1 | h2 | B | b | c | m1 | m2 | n1 | n2 | w | s1 | s2 | e1 | Ød4 | l | t | u | | y |
| 200 / 33 | 11C | 200 | 200 | 200 | 720 | 370 | 315 | 265 | 100 | 25 | 335 | 265 | 630 | 560 | 650 | 27 | 19 | 140 | 48 | 110 | 51.4 | 14 | 180 | 280 |

CROSS-SECTIONAL VIEW

KPD Pump

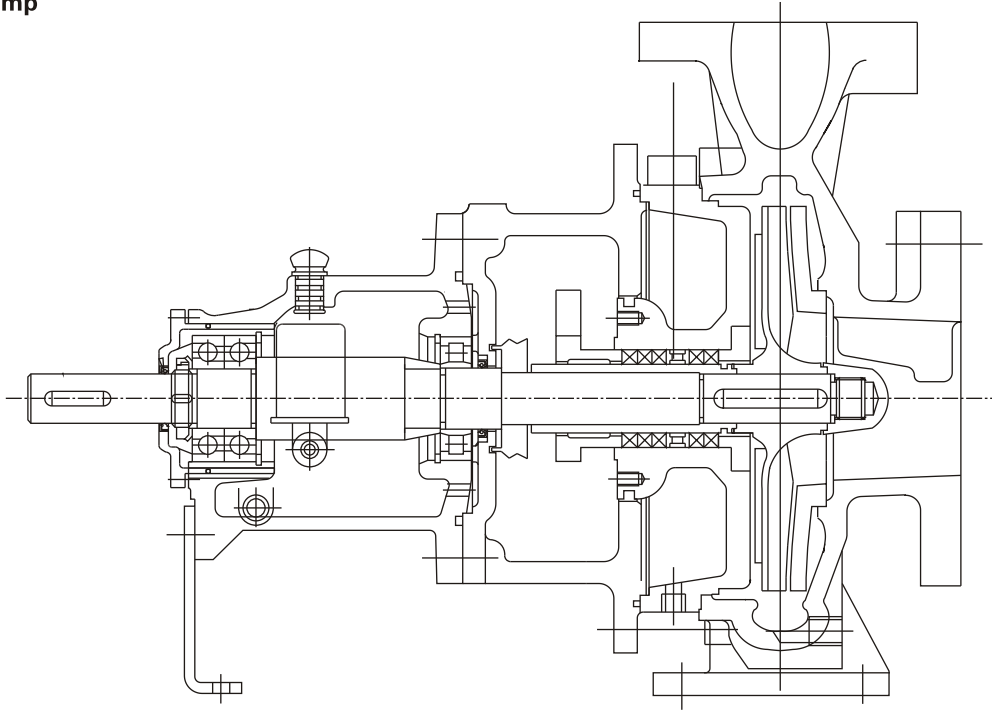


INTERCHANGEABILITY OF COMPONENTS

| Pump Unit | Size | Casing | Impeller | Casing Cover | Bearing Housing & Shaft | | |
|------------------|-------------------|--------|----------|--------------|-------------------------|----|---|
| 5 | 32/13 | 1 | 1 | 1 | 1 | | |
| | 40/13 | 2 | 2 | | | | |
| | 50/13 | 3 | 3 | | | | |
| | 65/13 | 4 | 4 | | | | |
| | 32/16 | 5 | 5 | 2 | | | |
| | 32/16A | 6 | 6 | 3 | | | |
| | 40/16 | 7 | 7 | 2 | | | |
| | 50/16 | 8 | 8 | 2 | | | |
| | 50/16A | 9 | 9 | 3 | | | |
| | 32/20 | 10 | 10 | 4 | | | |
| | 32/20A | | 11 | 5 | | | |
| | 40/20 | 11 | 12 | 4 | | | |
| | 40/20A | 12 | 13 | 5 | | | |
| | 50/20 | 13 | 14 | 4 | | | |
| 7 | 65/16 | 14 | 15 | 6 | 2 | | |
| | 80/16 | 15 | 16 | 7 | | | |
| | 65/20 | 16 | 17 | | | | |
| | 80/20 | 17 | 18 | | | | |
| | 100/20 | 18 | 19 | 8 | | | |
| | 25/26 | 19 | 20 | 9 | | | |
| | 32/26 | 20 | 21 | | | | |
| | 40/26 | 21 | 22 | | | | |
| | 50/26 | 22 | 23 | | | | |
| | 65/26 | 23 | 24 | | | | |
| | 65/26N | 23 | 25 | | | | |
| | 80/26 | 24 | 26 | | | | |
| | 40/32 | 25 | 27 | 10 | | | |
| | 50/32 | 26 | 28 | 11 | | | |
| | 100/16 | 27 | 29 | 12 | | | |
| | 9 | 100/26 | 28 | 30 | | 13 | 3 |
| | | 125/26 | 29 | 31 | | 14 | |
| 65/32 (1450 rpm) | | 30 | 32 | | | | |
| 65/32 (2900 rpm) | | | 33 | | | | |
| 80/32 | | 31 | 34 | 15 | | | |
| 100/32 | | 32 | 35 | | | | |
| 125/32 | | 33 | 36 | | | | |
| 150/32 | | 34 | 37 | | 16 | | |
| 150/32N | | | 38 | | | | |
| 80/40 | | 35 | 39 | 17 | | | |
| 80/40N | | 36 | 40 | | | | |
| 100/40 | | | 41 | | | | |
| 125/40 | | | 42 | | | | |
| 125/40N | | 37 | 43 | | | | |
| 125/20 | | 40 | 46 | 20 | | | |
| 150/26 | | 41 | 47 | 21 | | | |
| 150/40 | | 38 | 44 | 18 | | | |
| 65/43 | | 39 | 45 | 19 | | | |
| 80/40DV | | 42 | 48 | 17 | | | |
| 11 | 125/26 (2900 rpm) | 29 | 31 | 20 | 4 | | |
| 11 | | 43 | 41 | 17 | | | |
| 11 | | 44 | 50 | 21 | | | |
| 11/A | 125/45 | 44 | 50 | 21 | 5 | | |
| 11/B | 150/43 | 45 | 51 | 22 | 6 | | |
| 11/C | 200/33 | 46 | 49 | 23 | 7 | | |
| 13 | 150/52 | 47 | 52 | 24 | 8 | | |
| | 200/38M | 48 | 53 | 25 | | | |
| | 200/46 | 49 | 54 | 26 | | | |

GENERAL OUTLINE DIMENSIONS

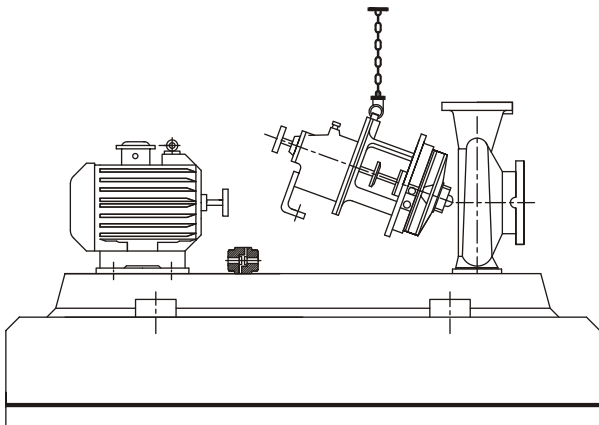
KPD-QF Pump



INTERCHANGEABILITY OF COMPONENTS

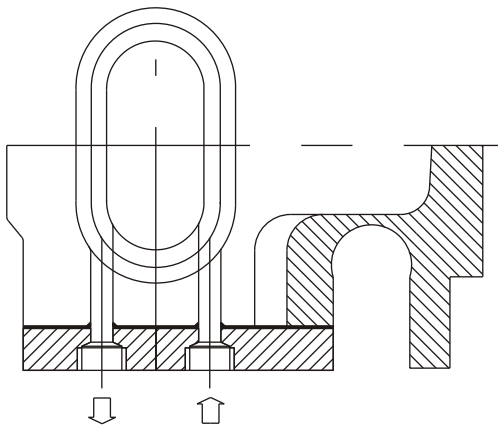
| Pump Unit | Size | Casing | Impeller | Casing Cover | Bearing Housing & Shaft |
|-----------|--------|--------|----------|--------------|-------------------------|
| 4 | 20/13 | 1 | 1 | 1 | 1 |
| | 20/16 | 2 | 2 | 2 | |
| | 20/20 | 3 | 3 | 3 | |
| 5 | 32/13 | 4 | 4 | 4 | 2 |
| | 40/13 | 5 | 5 | | |
| | 50/13 | 6 | 6 | | |
| | 65/13 | 7 | 7 | | |
| | 25/16 | 8 | 8 | 5 | |
| | 32/16 | 9 | 9 | 6 | |
| | 40/16 | 10 | 10 | 7 | |
| | 50/16 | 11 | 11 | 8 | |
| | 32/20 | 12 | 12 | | |
| | 40/20 | 13 | 13 | | |
| 50/20 | 14 | 14 | 9 | | |
| 7 | 65/16 | 15 | 15 | 10 | 3 |
| | 80/16 | 16 | 16 | | |
| | 65/20 | 17 | 17 | 11 | |
| | 80/20 | 18 | 18 | | |
| | 100/20 | 19 | 19 | 12 | |
| | 32/26 | 20 | 20 | 13 | |
| | 40/26 | 21 | 21 | | |
| | 50/26 | 22 | 22 | 14 | |
| | 65/26 | 23 | 23 | | |
| | 80/26 | 24 | 24 | 15 | |
| | 40/32 | 25 | 25 | 16 | |
| 50/32 | 26 | 26 | | | |
| 9 | 100/26 | 27 | 27 | 17 | 4 |
| | 125/26 | 28 | 28 | | |
| | 65/32 | 29 | 29 | 18 | |
| | 80/32 | 30 | 30 | | |
| | 100/32 | 31 | 31 | | |
| | 125/32 | 32 | 32 | | |
| | 150/32 | 33 | 33 | 19 | |
| | 80/40 | 34 | 34 | 20 | |
| | 100/40 | 35 | 35 | 21 | |
| | 125/40 | 36 | 36 | 22 | |

BACK PULL OUT ARRANGEMENT



Using spacer type coupling, back-pullout design enables the pump rotating unit to be removed without disturbing the pipe connections. The prime mover is also undisturbed. This reduces servicing time, resulting in lower maintenance costs and reduction in production losses.

ALTERNATIVES AVAILABLE



Bearing Oil Cooling Arrangement

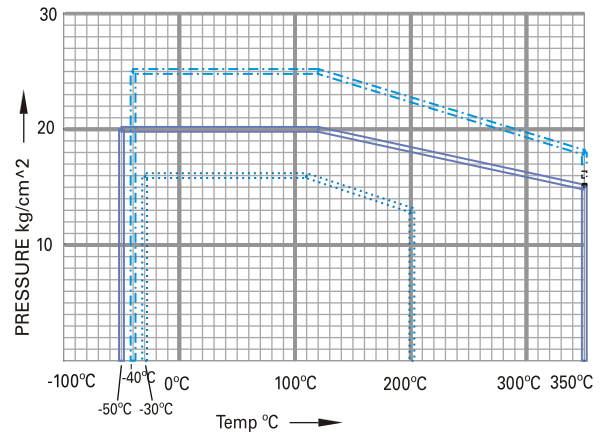
For high temperature applications above 180°C bearing oil cooling arrangement is provided.

Steam Jacket Arrangement

This special design can be offered for handling liquids that cannot be pumped when cold. Except for pump casing, casing cover and gland, all parts are of standard design.

Steam Jacket Arrangement

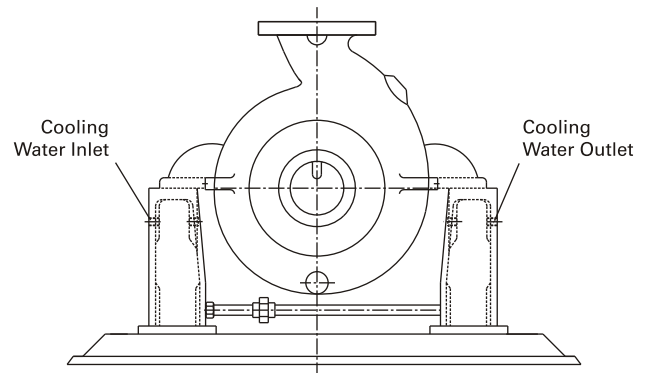
WORKING TEMPERATURE AND PRESSURE



Note :

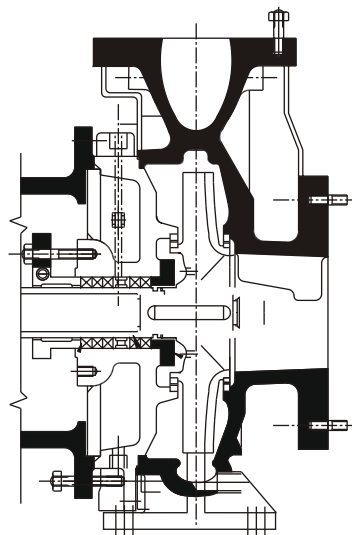
The pressure and temperature data holds good only if flanges are suitable to a particular operating pressure and temperature.

| | |
|--|---------------------|
| | CAST ST & ST. STEEL |
| | S.G. IRON |
| | C.I. & BRONZE |



Centre line Mounting

For high temperature applications between 180°C and 350°C, pumps are offered with centreline mounting.



MATERIALS

MATERIAL OF CONSTRUCTION

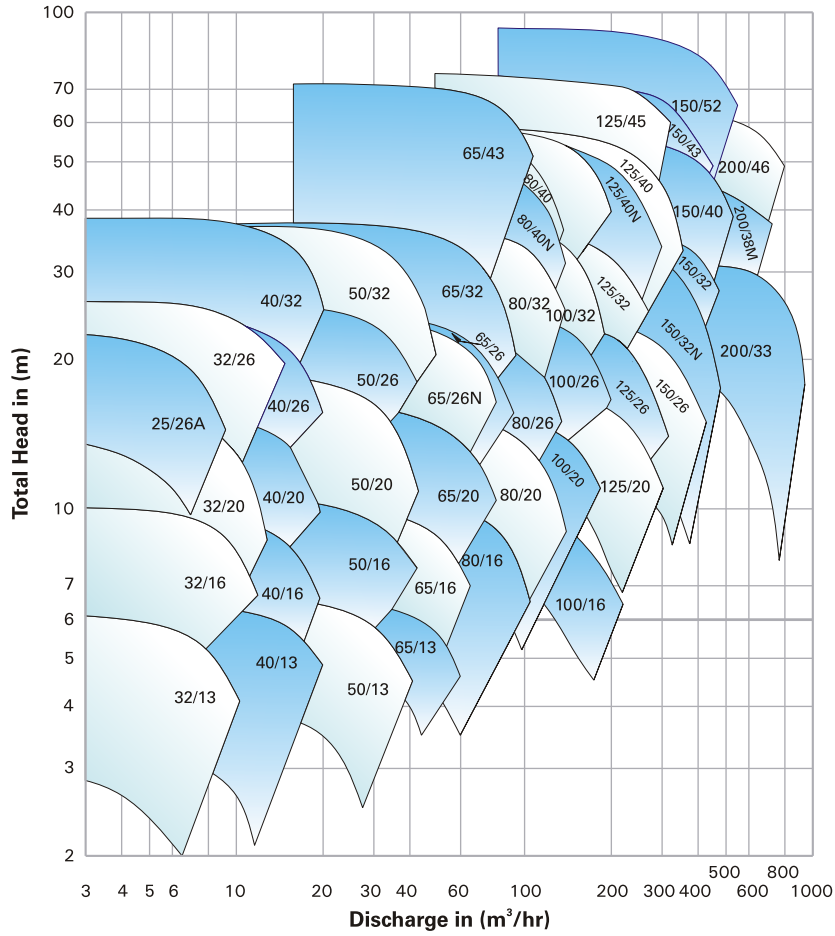
| | |
|------------------------|---|
| Casing / Casing Cover | Cast Iron / Cast Steel / Stainless Steel / Duplex Steel |
| Impeller | Cast Iron / Bronze / Cast Steel / Stainless Steel / Chrome Steel / Duplex Steel |
| Wear Ring / Wear Plate | Cast Iron / Bronze / Steel |
| Shaft | Carbon Steel / Stainless Steel / Duplex Steel |
| Shaft Sleeve | Stainless Steel / Bronze |

MATERIAL STANDARDS - GENERAL INFORMATION

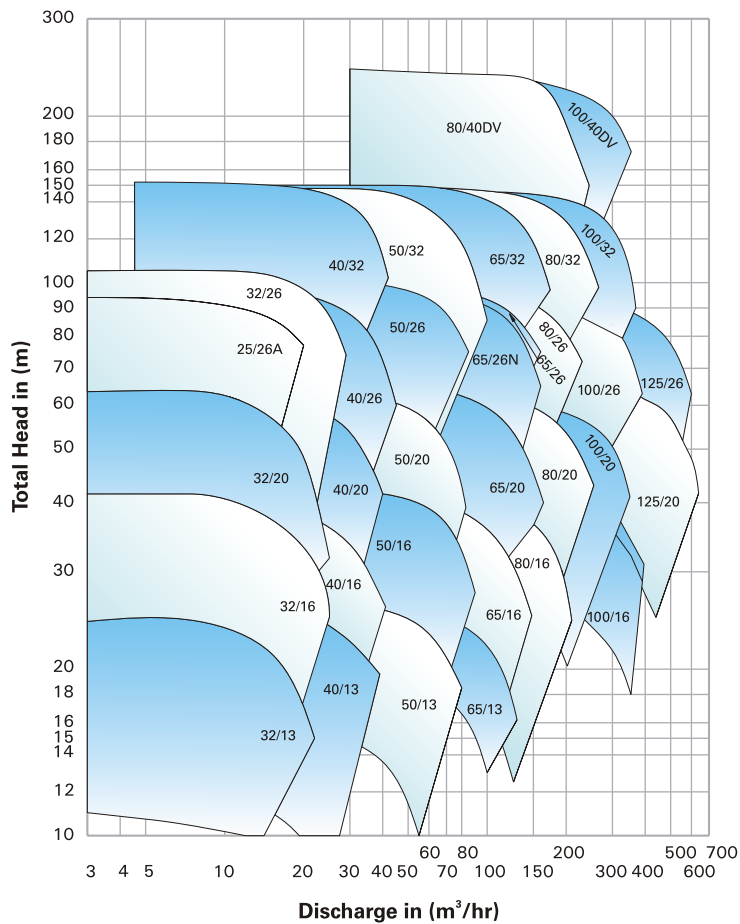
| Material Type | Indian Standard (IS) | American Standard (ASTM) | DIN |
|--|-------------------------------------|--------------------------------------|---------------------------------|
| Cast Iron | | | |
| Cast Iron | IS 210 Gr. FG 260 | ASTM A48 Class 40 | (0.6025)DIN 1691 GG25 |
| Spheroidal Graphite Cast Iron | | | |
| SG Iron (Ductile Iron) | IS 1865 Gr 400/15 | A536, 60-40-18 | (0.7040)DIN1693 GGG40 |
| SG Iron (Ductile Iron) | IS 1865 Gr 500/7 | A536, 65-45-12 | (0.7050)DIN1693 GGG50 |
| Carbon Steel | | | |
| Carbon steel (Wrought) | IS 1570 (part II) Gr. 40C8 | ASTM A107 Gr. 1040 | (1.1186)C40E/CK40 |
| Carbon steel (Wrought) | IS 1570 (part II) Gr. 20C8 | ASTM A107 Gr. 1020 | (1.0402)C22 |
| MS Steel | MS IS 2062 - Fe 410 W A | ASTM-A283 GR.D FABRICATED STEEL44 | DIN 1700 GR ST4-2 |
| Cast Steel Grades | | | |
| Cast Steel | | ASTMA 216 Gr. WCB | 1.0619(GS-C25) |
| Cast Stainless Steel | | | |
| Stainless Steel CF8M | IS 3444 Gr. 4 | ASTMA 351 Gr. CF8M | 1.4408(GX5CrNiMo19-11-2) |
| Stainless Steel CF8M | IS 3444 Gr. 4 | ASTMA 743 Gr. CF8M | 1.4408(GX5CrNiMo19-11-2) |
| Stainless Steel CF3M | IS 3444 Gr. 16 | ASTMA 351 Gr. CF3M | 1.4409(GX2CrNiMo19-11-2) |
| Stainless Steel CF3M | IS 3444 Gr. 16 | ASTMA 743 Gr. CF3M | 1.4409(GX2CrNiMo19-11-2) |
| Stainless Steel CF8 | IS 3444 Gr. 1 | ASTMA 351 Gr. CF8 | 1.4301(X5CrNi18-10) |
| Stainless Steel CF3 | IS 3444 Gr. 15 | ASTMA 351 Gr. CF3 | 1.4306(X2CrNi19 11) |
| Cast Chromium Stainless Steel | | | |
| Stainless Steel CA15 | IS 3444 Gr. 10 | ASTMA 217 Gr. CA15 | 1.4106&1.448(DIN17445 GX12Cr14) |
| Stainless Steel CA15 | IS 3444 Gr. 10 | ASTMA 743 Gr. CA15 | 1.4106&1.448(DIN17445 GX12Cr14) |
| Stainless Steel CA6NM | IS 3444 Gr. 24 | ASTMA 487 Gr. CA6NM | 1.4313&1.4317(GX5CrNiMo13-4) |
| Stainless Steel CA6NM | IS 3444 Gr. 24 | ASTMA 743 Gr. CA6NM | 1.4313&1.4317(GX5CrNiMo13-4) |
| Chromium Stainless Steel Round Bar Material | | | |
| Stainless Steel 410 | IS 1570 (part V) Gr. X12Cr12 | ASTMA 276 type 410 | 1.4006(X10Cr13) |
| Stainless Steel 420 | IS 1570 (part V) Gr. X20Cr13 | ASTMA 276 type 420 | 1.4021(X20Cr13) |
| Stainless Steel 431 | IS 1570 (part V) Gr. X15Cr16Ni2 | ASTMA 276 type 431 | 1.4057(X20CrNi17) |
| Stainless Steel 316 | IS 1570 (part V) Gr. X04Cr17Ni12Mo2 | ASTMA 276 type 316 | 1.4401(X5CrNiMo17122) |
| Stainless Steel 316L | IS 1570 (part V) Gr. X02Cr17Ni12Mo2 | ASTMA 276 type316L | 1.4404(X2CrNiMo1810) |
| Cast Duplex Steel | | | |
| Duplex Steel 1A | | ASTMA 890 Gr. CD4MCu | 25Cr-5Ni-Mo-Cu |
| Duplex Steel 2A | | ASTMA 890 Gr. CE8MN | 24Cr-10Ni-Mo-N |
| Duplex Steel 3A | | ASTMA 890 Gr. CD6MN | 25Cr-5Ni-Mo-N |
| Super Duplex steel 4A | | ASTMA 890 Gr. CD3MN | 25Cr-7Ni-Mo-N |
| Super Duplex steel 5A | | ASTMA 890 Gr. CE3MN | 24Cr-10Ni-Mo-N |
| Non Ferrous Materials | | | |
| Bronze | IS 318 Gr. LTB2 (CuSn5Zn5Pb5C) | ASTMB 584 - C90500 | DIN 1705 Rg 5 |
| Phosphor Bronze | IS 28 Gr. 1 (CuSn11PC) | | |
| Zinc Free Bornze | IS 28 Gr. 1 (CuSn10C) | | |

FAMILY CURVES

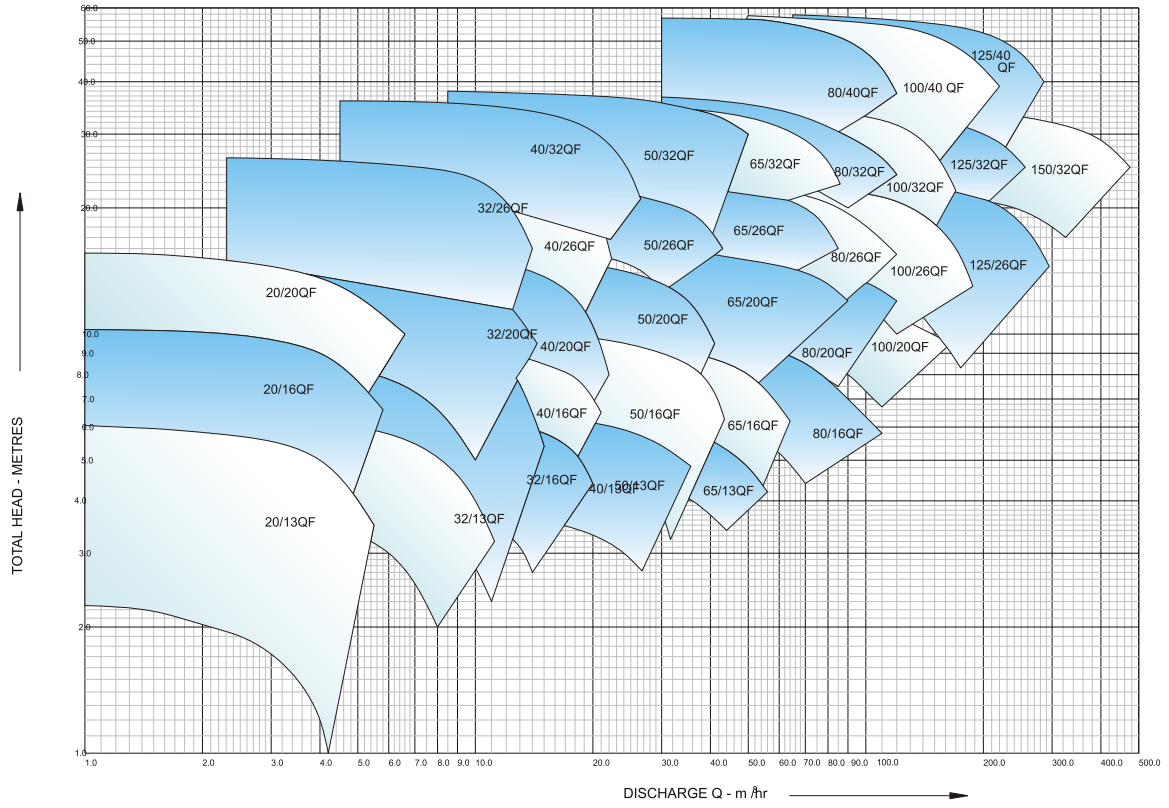
Family Curve of KPD Process Pump at 1450 rpm- 50Hz



Family Curve of KPD Process Pump at 2900 rpm- 50Hz



Family Curve of KPD-QF Process Pump at 1450 rpm 50 Hz



Family Curve of KPD-QF Process Pump at 2900 rpm 50 Hz

