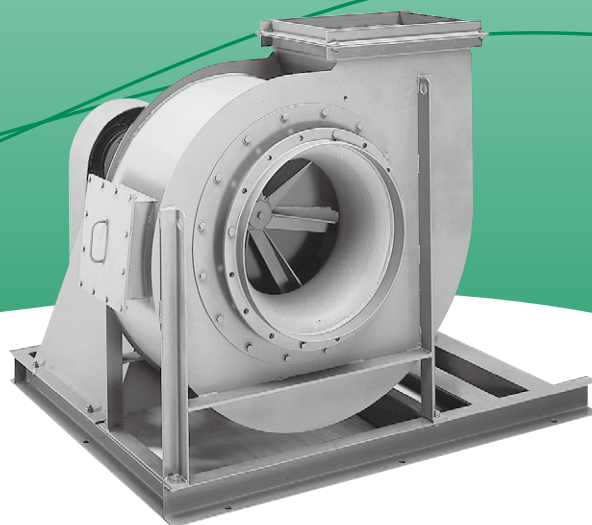


Plate fans

CPFII

TERAL

50Hz



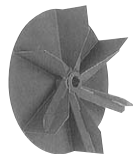
TERAL INC.

■ Uses

Sucking-out of waste gas of cement kilns, pulverized coal transfer, pneumatic conveyance of chips and other solids, flour milling, spinning, induced draft of boiler combustion furnaces, pneumatic conveyors, corrosive gases, dust collection of batcher plants

■ Features

- Best suited for powder transfer and pneumatic conveyance; Since these fans are intended for powder transfer and pneumatic conveyance, the blades are shaped to smoothly discharge foreign substances and solids, and also the blade strength is high enough to meet tough conditions.
- Impellers suitable for uses; Impellers are available according to the shapes of entering foreign substances for optimum use.



LF type impeller

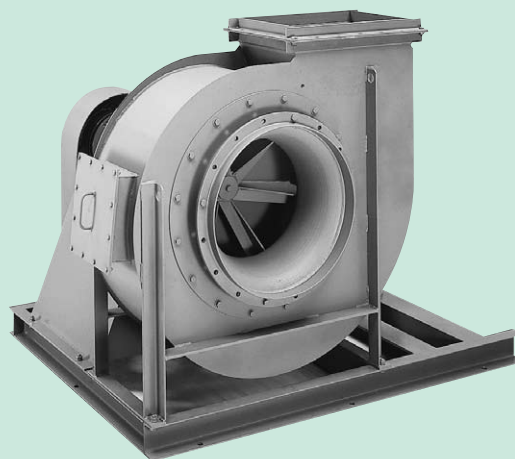
■ Type designation

CPFII - No.5 - TV - R - OB - B

① ② ③ ④ ⑤ ⑥

- | | |
|-----------------------------|---|
| ① Model | Plate fans |
| ② Fan number | No. 5 |
| ③ Discharge direction | Top vertical |
| ④ Rotation direction | Clockwise |
| ⑤ Power transmission method | Single inlet, overhang mounted impeller, belt driven type |
| ⑥ Installation method | Floor type |

CPFII-OB type



* Keep in mind that the above show typical examples, part of which may differ from actual devices.

■ Standard/special specifications

Can also be used for gases containing minor amounts of solids. For details, contact us separately.

● standard specification, ◎ special specification

| Power transmission method | | OB type | UOB type ^{※2} | MOB type |
|----------------------------|--|-----------------|------------------------|-----------------|
| Temperature of gas handled | 0 – 90°C | ● | ● | ● |
| | 91 – 350°C | ◎ ^{※1} | ◎ ^{※1} | ◎ ^{※1} |
| Structure | Impeller ... LF type semi-open blade | ● | ● | ● |
| | Bearing ... Radial ball bearing or radial roller bearing | ● | ● | ● |
| | Casing ... Special discharge direction | ◎ | ◎ | ◎ |
| | Shaft seal ... Sheet packing type | ● | ● | ● |
| Material | Casing and impeller ... SS400, SPHC | ● | ● | ● |
| | Shaft ... S45C | ● | ● | ● |
| | Casing and impeller ... SUS304 | ◎ | ◎ | ◎ |
| | Shaft ... SUS304 | ◎ | ◎ | ◎ |
| Installation method | Floor type (B-type) | ● | ● | ● |
| | Anti-vibration type (D-type) | ◎ | ◎ | ◎ |
| Coating ^{※3} | Priming and inner surface ... Rust-preventive coating | ● | ● | ● |
| | Outer surface overcoating ... Acrylated alkyd resin coating 7.5BG5/1.5 | ● | ● | ● |
| | Inner/outer surface ... Heat-resistant silver coating, PVC coating, epoxy resin coating, coating color designation | ◎ | ◎ | ◎ |

※1 According to temperature classification, internal clearance C3 bearing (anti-pulley side), and radiator plate, radiation blade, cooling blade, etc., are included as bearing cooling parts.

※2 Supported as a power transmission method of special specification for No. 6 or lower; single inlet, overhang mounted impeller, belt driven type with the motor installed on top of the bearing stand.

Since there are restrictions on installation depending on motor output, contact us separately for details.

※3 Parts of stainless steel material are uncoated in principle.

■ Standard accessories

| | OB-B | MOB-B |
|--------------------------------------|--------|--------|
| Common base | 1 | 1 |
| Companion flange (suction/discharge) | 1 each | 1 each |
| V-belt guard | 1 | |
| V-pulley | 1 | |
| V-belt | 1 set | |
| Coupling | | 1 set |
| Coupling guard | | 1 |
| Inspection opening | 1 | 1 |
| Drain | 1 | 1 |
| Bearing guard | 1 | 1 |
| Shaft seal | 1 | 1 |

■ Special accessories

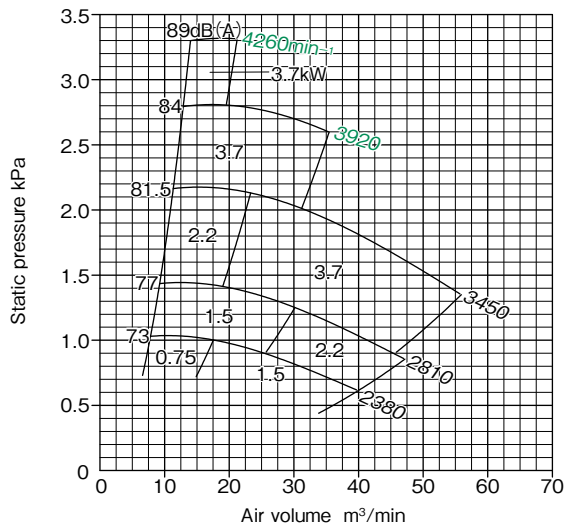
- Anti-vibration base
- Suction wire mesh
- Discharge damper, suction damper
- Connecting pipe, expansion joint

* For accessories other than the above, consult us.

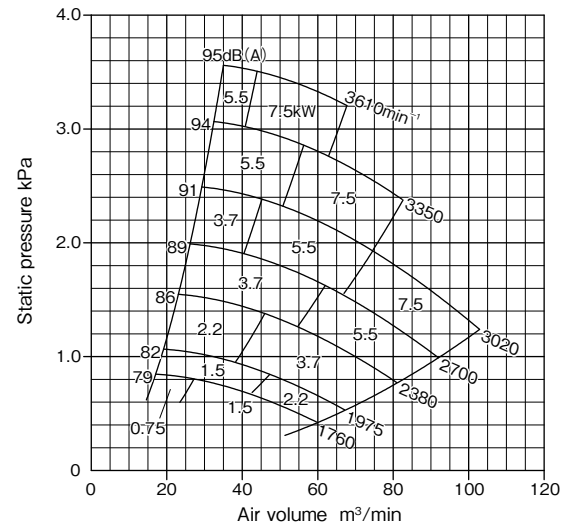
Performance drawing

* In performance drawings, rotation speeds in green correspond to 2P for the number of poles.

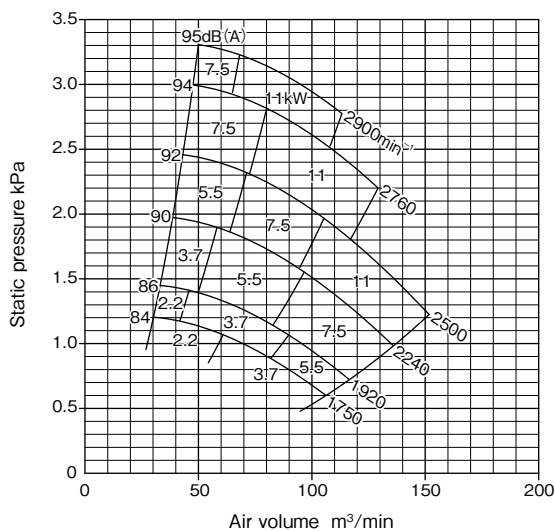
No.2



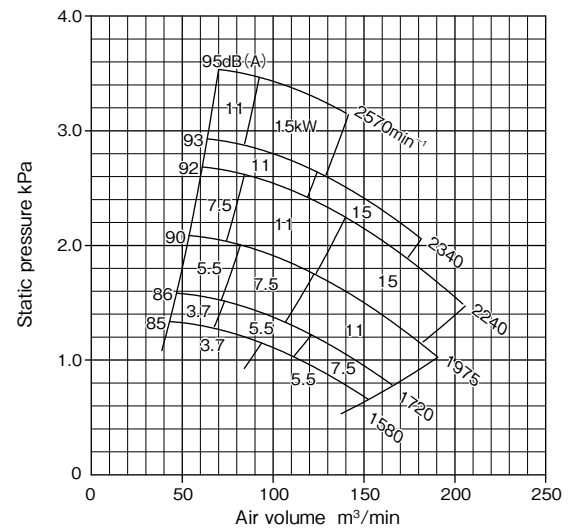
No.2½



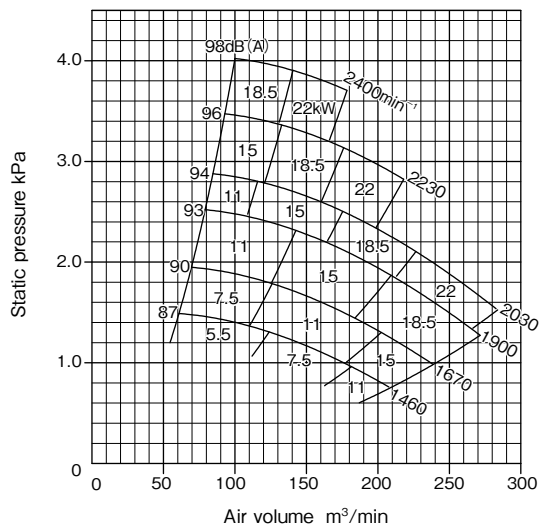
No.3



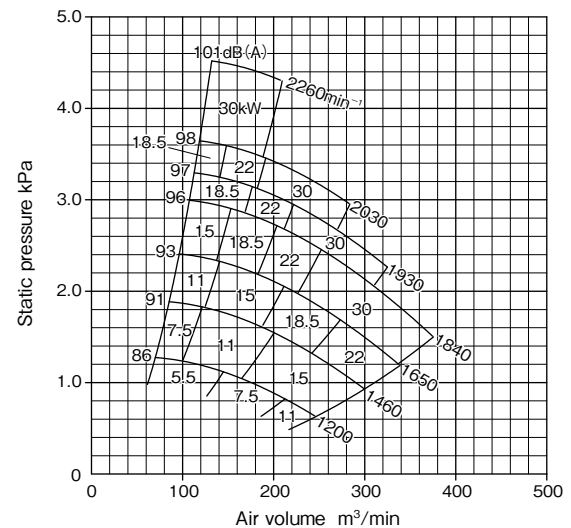
No.3½



No.4

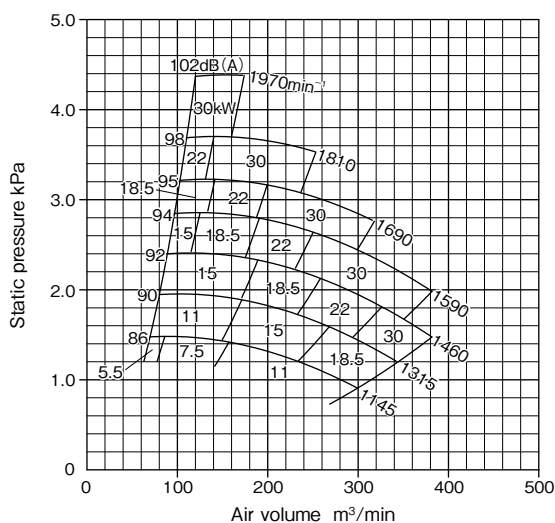


No.4½

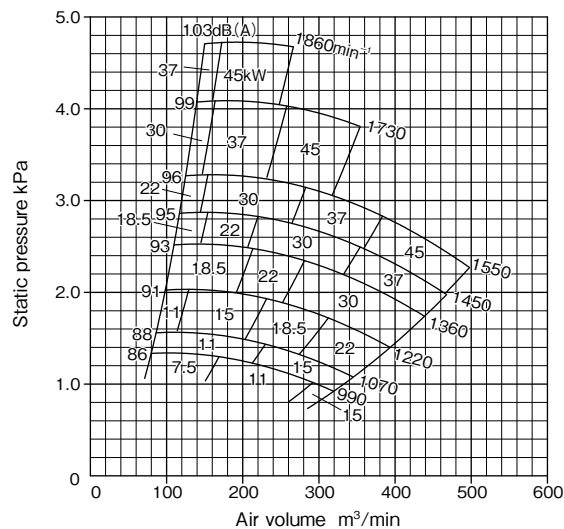


Performance drawing

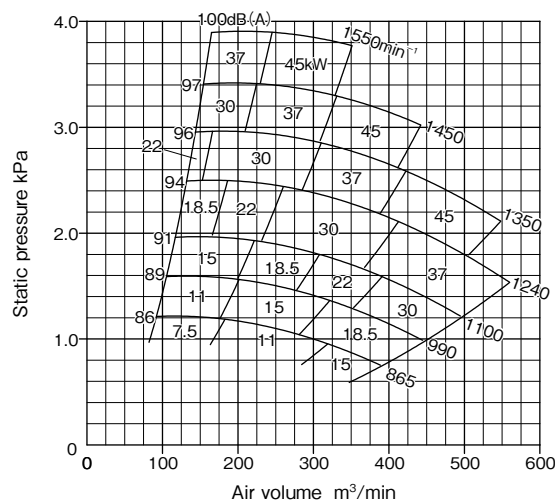
No.5



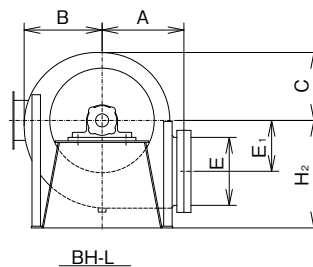
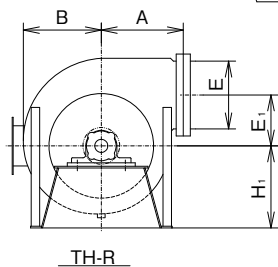
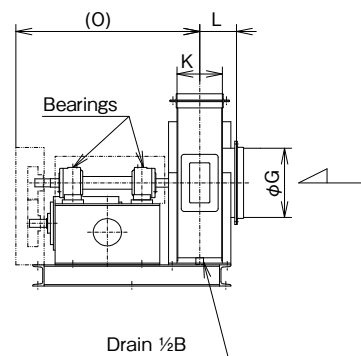
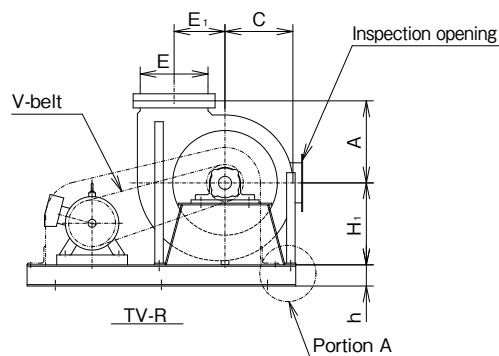
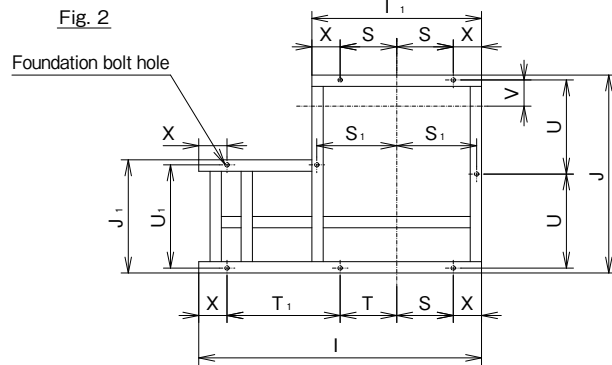
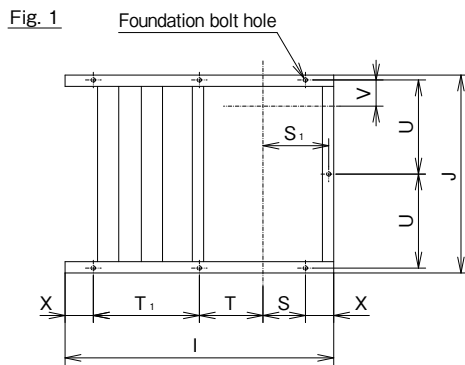
No.5½



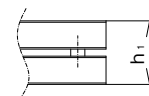
No.6



■ Assembly drawing (No. 2 – 6)



Dimension of portion A of floor, anti-vibration type



■ Size table

(Unit: mm)

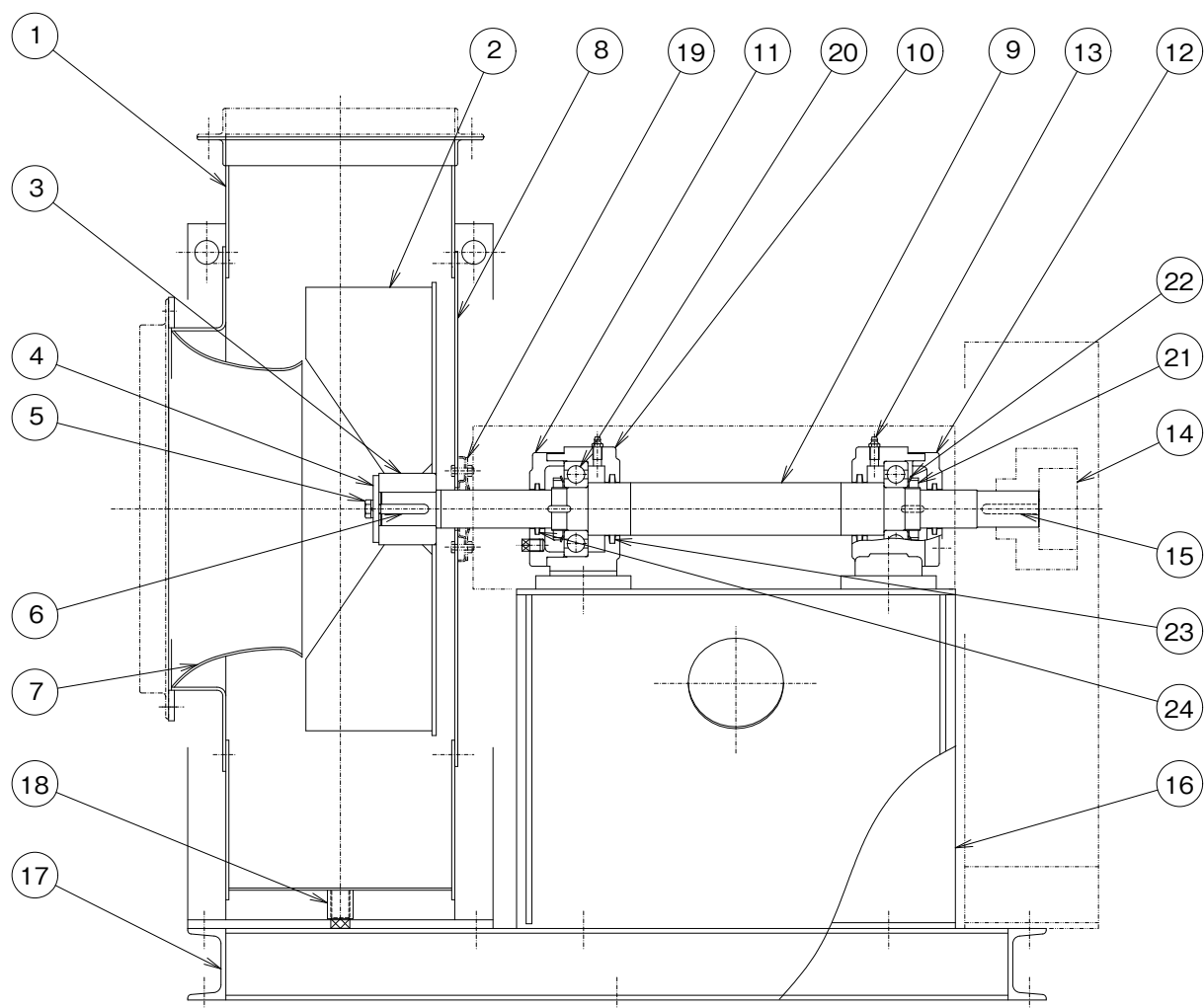
| No. | Main body | | | | | | | | Suction | Discharge | | Inspection opening | Bearings | Maximum rotation speed (min ⁻¹) | Maximum motor (kW) |
|-----|-----------|-----|-----|----------------|----------------|----------------|-----|------|---------|-----------|-----|--------------------|----------|--|-----------------------|
| | A | B | C | E ₁ | H ₁ | H ₂ | L | O | φG | E | K | | | | |
| 2 | 290 | 280 | 245 | 180 | 290 | 380 | 130 | 650 | 245 | 240 | 160 | 150× 80 | 6307 | 4300 | 3.7 |
| 2½ | 330 | 345 | 300 | 225 | 365 | 460 | 150 | 740 | 310 | 300 | 200 | 150× 80 | 6308 | 3650 | 7.5 |
| 3 | 390 | 410 | 360 | 270 | 440 | 550 | 180 | 820 | 380 | 360 | 240 | 150× 80 | 6309 | 3000 | 11 |
| 3½ | 440 | 475 | 415 | 315 | 510 | 645 | 200 | 895 | 450 | 420 | 280 | 150× 80 | 6310 | 2650 | 15 |
| 4 | 510 | 545 | 475 | 360 | 580 | 730 | 220 | 985 | 520 | 480 | 320 | 200×250 | 6311 | 2400 | 18.5 |
| 4½ | 550 | 610 | 530 | 405 | 650 | 820 | 240 | 1065 | 550 | 540 | 360 | 200×250 | 6312 | 2300 | 22 |
| 5 | 590 | 675 | 590 | 450 | 720 | 900 | 260 | 1125 | 600 | 600 | 400 | 200×250 | 6313 | 2000 | 30 |
| 5½ | 650 | 745 | 645 | 495 | 790 | 980 | 280 | 1195 | 670 | 660 | 440 | 200×250 | 6314 | 1850 | 37 |
| 6 | 700 | 810 | 705 | 540 | 860 | 1060 | 320 | 1305 | 750 | 720 | 480 | 200×250 | 6316 | 1600 | 45 |

| No. | Base | | | | | | | | | | | | | | | Foundation bolt hole | Approx. mass (kg) (not including motor) | |
|-----|------|------|----------------|------|----------------|-------|----------------|-----|----------------|-------|----------------|-------|-----|-----|----------------|-------------------------|--|--------|
| | Fig. | I | I ₁ | J | J ₁ | S | S ₁ | T | T ₁ | U | U ₁ | V | X | h | h ₁ | | B type | D type |
| 2 | 1 | 950 | – | 700 | – | 150 | 232.5 | – | – | 332.5 | – | 92.5 | 100 | 75 | 170 | 5– ϕ 15 | 125 | 145 |
| 2½ | | 1100 | – | 800 | – | 192.5 | 275 | – | – | 382.5 | – | 112.5 | 100 | 75 | 170 | 5– ϕ 15 | 165 | 190 |
| 3 | | 1250 | – | 900 | – | 190 | 322.5 | – | – | 432.5 | – | 142.5 | 150 | 75 | 175 | 5– ϕ 15 | 240 | 270 |
| 3½ | | 1350 | – | 1000 | – | 240 | 370 | 285 | 525 | 480 | – | 160 | 150 | 100 | 225 | 7– ϕ 19 | 330 | 375 |
| 4 | | 1500 | – | 1100 | – | 275 | 430 | 300 | 575 | 530 | – | 190 | 175 | 100 | 225 | 7– ϕ 19 | 435 | 480 |
| 4½ | 2 | 1600 | 990 | 1200 | 750 | 320 | 475 | 305 | 625 | 580 | 710 | 210 | 175 | 100 | 225 | 8– ϕ 19 | 515 | 575 |
| 5 | | 1750 | 1070 | 1280 | 750 | 360 | 515 | 340 | 700 | 620 | 710 | 230 | 175 | 100 | 225 | 8– ϕ 19 | 615 | 680 |
| 5½ | | 1900 | 1180 | 1370 | 800 | 390 | 570 | 360 | 750 | 665 | 760 | 250 | 200 | 100 | 235 | 8– ϕ 19 | 860 | 930 |
| 6 | | 2000 | 1280 | 1500 | 800 | 440 | 620 | 360 | 800 | 730 | 760 | 270 | 200 | 100 | 235 | 8– ϕ 19 | 1010 | 1085 |

· For companion flange dimensions, see the companion flange dimensional drawings.

• Discharge direction TV-L, TH-L, BH-L types are also manufactured as a standard.

Internal structure drawing (No. 2 - 6)



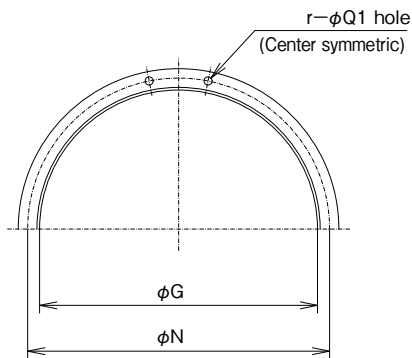
| No. | Part name | Qty | Material |
|-----|---------------------------|-----|------------|
| 1 | Casing | 1 | SPHC-SS400 |
| 2 | Impeller | 1 | SS400 |
| 3 | Impeller hub | 1 | SS400 |
| 4 | Impeller retaining washer | 1 | SS400 |
| 5 | Impeller retaining bolt | 1 | SWCH |
| 6 | Impeller key | 1 | S45C |
| 7 | Inlet | 1 | SPHE-SS400 |
| 8 | Casing cover | 1 | SPHC |
| 9 | Shaft | 1 | S45C |
| 10 | Bearing case | 2 | FC200 |

| No. | Part name | Qty | Material |
|-----|---------------|-----|------------|
| 11 | Bearing cap A | 1 | FC200 |
| 12 | Bearing cap C | 1 | FC200 |
| 13 | Grease nipple | 2 | C3604B |
| 14 | V-pulley | 1 | FC200 |
| 15 | V-pulley key | 1 | S45C |
| 16 | Bearing stand | 1 | SS400-SPHC |
| 17 | Common base | 1 | SS400 |
| 18 | Drain | 1 | SS400 |
| 19 | Shaft seal | 1 | |

| No. | Part name | Qty | Material | No.2 | No.2½ | No.3 | No.3½ | No.4 | No.4½ | No.5 | No.5½ | No.6 |
|-----|----------------|-----|----------|------|-------|------|-------|------|-------|------|-------|------|
| 20 | Ball bearing | 2 | SUJ | 6307 | 6308 | 6309 | 6310 | 6311 | 6312 | 6313 | 6314 | 6316 |
| 21 | Bearing nut | 2 | SS400 | AN07 | AN08 | AN09 | AN10 | AN11 | AN12 | AN13 | AN14 | AN16 |
| 22 | Bearing washer | 2 | SS400 | AW07 | AW08 | AW09 | AW10 | AW11 | AW12 | AW13 | AW14 | AW16 |
| 23 | Felt ring | 2 | FELT | Fi10 | Fi11 | Fi12 | Fi13 | Fi15 | Fi16 | Fi17 | Fi18 | Fi20 |
| 24 | Felt ring | 2 | FELT | Fi 7 | Fi 8 | Fi 9 | Fi10 | Fi11 | Fi12 | Fi13 | Fi15 | Fi16 |

Companion flange dimensional drawings

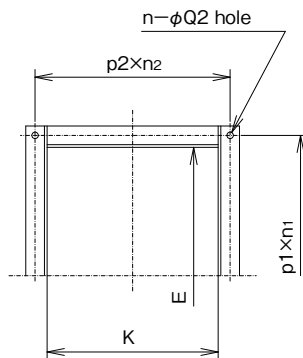
▼ Suction companion flange



(Unit: mm)

| No. | φG | φN | r-φQ ₁ | Steel size |
|-----|-----|-----|-------------------|------------|
| 2 | 245 | 275 | 12-10 | L25×25×3 |
| 2½ | 310 | 340 | 12-10 | L25×25×3 |
| 3 | 380 | 415 | 12-12 | L30×30×3 |
| 3½ | 450 | 485 | 12-12 | L30×30×3 |
| 4 | 520 | 565 | 16-15 | L40×40×5 |
| 4½ | 550 | 595 | 16-15 | L40×40×5 |
| 5 | 600 | 645 | 16-15 | L40×40×5 |
| 5½ | 670 | 715 | 16-15 | L40×40×5 |
| 6 | 750 | 795 | 16-15 | L40×40×5 |

▼ Discharge companion flange



(Unit: mm)

| No. | E | K | P ₁ ×n ₁ | P ₂ ×n ₂ | n-φQ ₂ | Steel size |
|-----|-----|-----|--------------------------------|--------------------------------|-------------------|------------|
| 2 | 240 | 160 | 90 × 3 | 63 × 3 | 12-10 | L25×25×3 |
| 2½ | 300 | 200 | 82 × 4 | 76 × 3 | 14-10 | L25×25×3 |
| 3 | 360 | 240 | 79 × 5 | 69 × 4 | 18-12 | L30×30×3 |
| 3½ | 420 | 280 | 76 × 6 | 79 × 4 | 20-12 | L30×30×3 |
| 4 | 480 | 320 | 87.5 × 6 | 73 × 5 | 22-12 | L40×40×5 |
| 4½ | 540 | 360 | 84 × 7 | 81 × 5 | 24-12 | L40×40×5 |
| 5 | 600 | 400 | 92 × 7 | 89 × 5 | 24-12 | L40×40×5 |
| 5½ | 660 | 440 | 88 × 8 | 97 × 5 | 26-12 | L40×40×5 |
| 6 | 720 | 480 | 85 × 9 | 87.5 × 6 | 30-15 | L40×40×5 |

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