

HORIZONTAL MULTI-STAGE S. STEEL PUMP



MATERIALS

- * Casing, back-cover, impeller, pump shaft, guide vane: SUS304 or SUS316L stainless steel.
 - * Bracket: Aluminium-alloy.
 - * Standard mechanical seal : DW2-DW4 (Graphite/Sic/NBR); DW8 (Sic/Sic/Viton).
- (Other mechanical seal materials are available upon request.)

APPLICATIONS

- The pumps are suitable for transferring clean mediums which are non-aggressive to stainless steel SUS304 or SUS316L and non-flameble or non-explosive.
- * Water supplying systems
 - * Pressure boiler feeding
 - * Pure water treating systems
 - * Pharmaceutical & food industries
 - * Refining chemical industries
 - * Washing and sprinkling

WORKING CONDITIONS

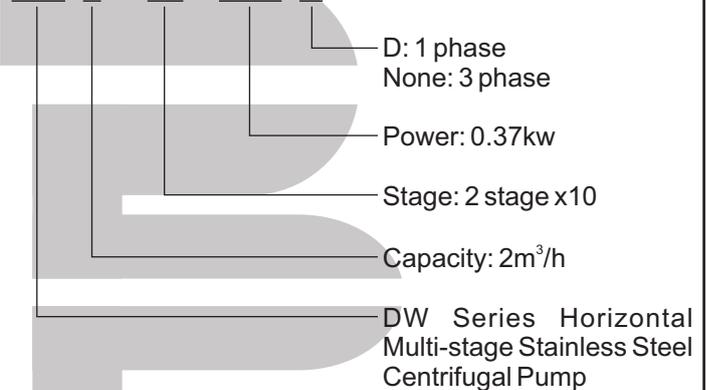
1. Max. Working Pressure : 1MPa
2. Medium Temperature: -15°C~+80°C
3. Max. Ambient Temperature: +40°C
3. Inlet Diameter: 1"~1-1/2"
4. Outlet Diameter: 1"~1-1/2"
5. Motor:
 - (1) T.E.F.V., Continuous duty
 - (2) Insulation: Class F
 - (3) Protection Class: IP55
 - (4) Single Phase: 240V/50Hz / 2900r.p.m. (Single phase motor with thermal protector)
 - (5) Three Phase: 415V/50Hz / 2900r.p.m.



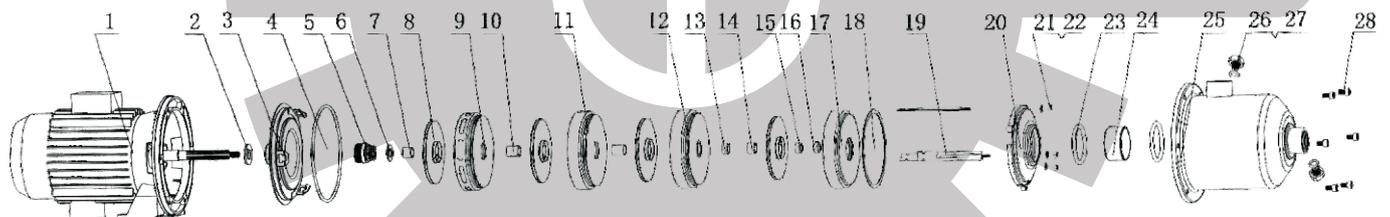
DW SERIES

PUMP KEY

DW 2 - 20 / 0.37 D



DW SPARE PARTS DIAGRAM



| No. | Parts | No. | Parts | No. | Parts |
|-----|------------------------|-----|-----------------------------|-----|---------------------------|
| 1 | Motor | 11 | Diffuser III | 21 | Plain Washer |
| 2 | Water Seal Ring | 12 | Diffuser II | 22 | Nut |
| 3 | Back Cover | 13 | Shaft Sleeve II | 23 | Inner Tube O-Ring |
| 4 | O-Ring | 14 | Roller Bearing Inner Sleeve | 24 | Inner Tube |
| 5 | Mechanical Seal | 15 | Shaft Sleeve I | 25 | Casing |
| 6 | Mechanical Seal Gasket | 16 | Impeller Nut | 26 | Priming/Drain Plug |
| 7 | Shaft Sleeve IV | 17 | Diffuser I | 27 | Priming/Drain Plug O-Ring |
| 8 | Impeller | 18 | Seal Ring | 28 | Bolt |
| 9 | Diffuser IV | 19 | Diffuser Tension Bar | | |
| 10 | Shaft Sleeve III | 20 | Diffuser Front Cover | | |



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HORIZONTAL MULTI-STAGE S. STEEL PUMP



SPECIFICATION DATA

| Model | | Power | | Suction Head | Capacity (Q) | | | | | | | |
|---------------------------|--------------------------|-------|------|--------------|-------------------|-----|-----|-----|------|-----|------|------|
| | | | | | m ³ /h | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| Single phase 240V/50Hz | Three phase 415V/50Hz | (KW) | (HP) | (m) | l/min | 8.3 | 17 | 25 | 33.3 | 42 | 50 | 58.3 |
| | | | | | Speed: 2900r.p.m. | | | | | | | |
| DW2-20/0.37D | DW2-20/0.37 | 0.37 | 0.5 | 8.5 | Head H (m) | 18 | 17 | 16 | 15 | 14 | 13 | 11 |
| DW2-30/0.55D | DW2-30/0.55 | 0.55 | 0.75 | 8.5 | | 26 | 25 | 24 | 22.5 | 21 | 19 | 16 |
| DW2-40/0.55D | DW2-40/0.55 | 0.55 | 0.75 | 8.5 | | 35 | 33 | 31 | 29.5 | 28 | 25.5 | 21 |
| DW2-50/0.55D | DW2-50/0.55 | 0.55 | 0.75 | 8.5 | | 44 | 41 | 39 | 36.5 | 34 | 31 | 26 |
| DW2-60/0.75D | DW2-60/0.75 | 0.75 | 1.0 | 8.5 | | 53 | 50 | 47 | 44 | 40 | 36 | 30 |

| Model | | Power | | Suction Head | Capacity (Q) | | | | | | | |
|---------------------------|--------------------------|-------|------|--------------|-------------------|------|----|------|------|----|------|-------|
| | | | | | m ³ /h | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Single phase 240V/50Hz | Three phase 415V/50Hz | (KW) | (HP) | (m) | l/min | 16.7 | 33 | 50 | 66.7 | 83 | 100 | 116.7 |
| | | | | | Speed: 2900r.p.m. | | | | | | | |
| DW4-20/0.55D | DW4-20/0.55 | 0.55 | 0.75 | 8 | Head H (m) | 18 | 17 | 16.5 | 15.5 | 15 | 13 | 11 |
| DW4-30/0.75D | DW4-30/0.75 | 0.75 | 1.0 | 8 | | 27 | 26 | 25 | 24 | 23 | 20 | 17.5 |
| DW4-40/0.75D | DW4-40/0.75 | 0.75 | 1.0 | 8 | | 36 | 35 | 33.5 | 32 | 30 | 26.5 | 23 |

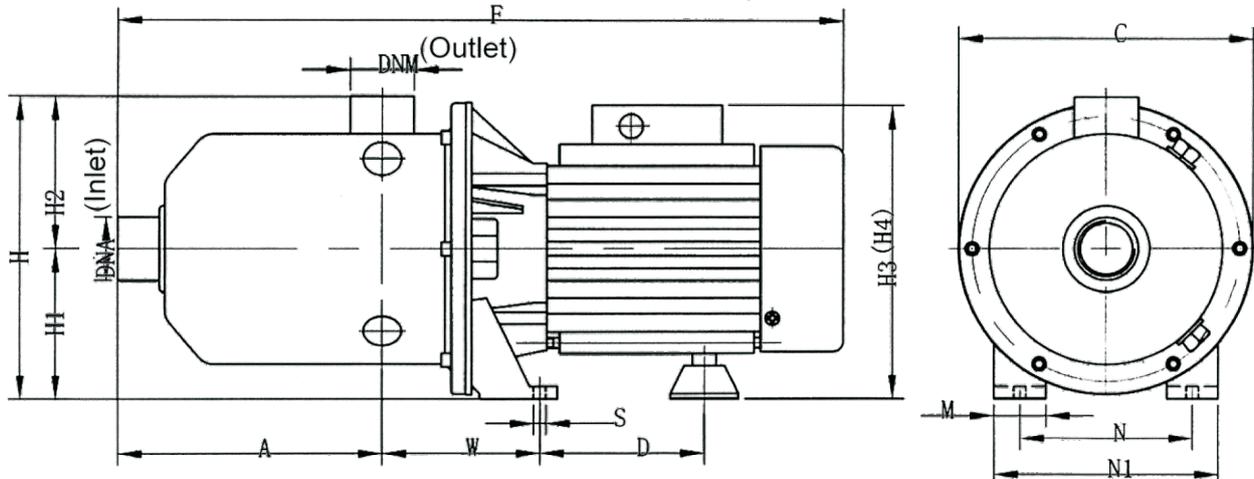
| Model | | Power | | Suction Head | Capacity (Q) | | | | | | | | |
|---------------------------|--------------------------|-------|------|--------------|-------------------|------|-----|-------|-------|-----|-------|-------|-----|
| | | | | | m ³ /h | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Single phase 240V/50Hz | Three phase 415V/50Hz | (KW) | (HP) | (m) | l/min | 83.3 | 100 | 116.7 | 133.3 | 150 | 166.7 | 183.3 | 200 |
| | | | | | Speed: 2900r.p.m. | | | | | | | | |
| DW8-20/0.75D | DW8-20/0.75 | 0.75 | 1 | 7.5 | Head H (m) | 19 | 18 | 17 | 16.5 | 15 | 14 | 12 | 11 |
| DW8-30/1.10D | DW8-30/1.10 | 1.1 | 1.5 | 7.5 | | 28 | 27 | 26 | 25 | 23 | 21 | 18 | 16 |
| DW8-40/1.50D | DW8-40/1.50 | 1.5 | 2 | 7.5 | | 37 | 36 | 35 | 33 | 31 | 28 | 24 | 21 |
| DW8-50/2.20D | DW8-50/2.20 | 2.2 | 3 | 7.5 | | 47 | 45 | 43 | 42 | 38 | 35 | 30 | 27 |

Water test temperature : 20°C. Performance test accordings to ISO2548 Class C Standard.

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INSTALLATION DIMENSION



| Model | Dimensions (mm) | | | | | | | | | | | | | | | Weight (Kg) | |
|-------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|-----|----|--------|-------------|------|
| | A | C | F | H | H1 | H2 | H3* | H4* | N | N1 | M | S | W | D | DNA | | DNM |
| DW2-20/0.37 | 76 | 170 | 353 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1" | 1" | 7.7 |
| DW2-30/0.55 | 76 | 170 | 353 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1" | 1" | 8.8 |
| DW2-40/0.55 | 130 | 170 | 407 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1" | 1" | 9.4 |
| DW2-50/0.55 | 130 | 170 | 407 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1" | 1" | 9.6 |
| DW2-60/0.75 | 130 | 170 | 407 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1" | 1" | 10.8 |
| DW4-20/0.55 | 76 | 170 | 353 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1 1/4" | 1" | 8.6 |
| DW4-30/0.75 | 130 | 170 | 407 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1 1/4" | 1" | 9.4 |
| DW4-40/0.75 | 130 | 170 | 407 | 176 | 88 | 88 | 221 | 192 | 100 | 130 | 30 | 7 | 91 | 93 | 1 1/4" | 1" | 9.6 |
| DW8-20/0.75 | 137 | 235 | 470 | 250 | 120 | 130 | 250 | 192 | 140 | 180 | 39 | 9 | 104 | 82 | 1 1/2" | 1 1/2" | 15.8 |
| DW8-30/1.10 | 137 | 235 | 470 | 250 | 120 | 130 | 250 | 192 | 140 | 180 | 39 | 9 | 104 | 82 | 1 1/2" | 1 1/2" | 17.6 |
| DW8-40/1.50 | 197 | 235 | 536 | 250 | 120 | 130 | 250 | 213 | 140 | 180 | 39 | 9 | 104 | 82 | 1 1/2" | 1 1/2" | 18.8 |
| DW8-50/2.20 | 197 | 235 | 536 | 250 | 120 | 130 | 250 | 213 | 140 | 180 | 39 | 9 | 104 | 82 | 1 1/2" | 1 1/2" | 24.6 |

*Note: H3: for 1-phase motor; H4: for 3-phase motor.