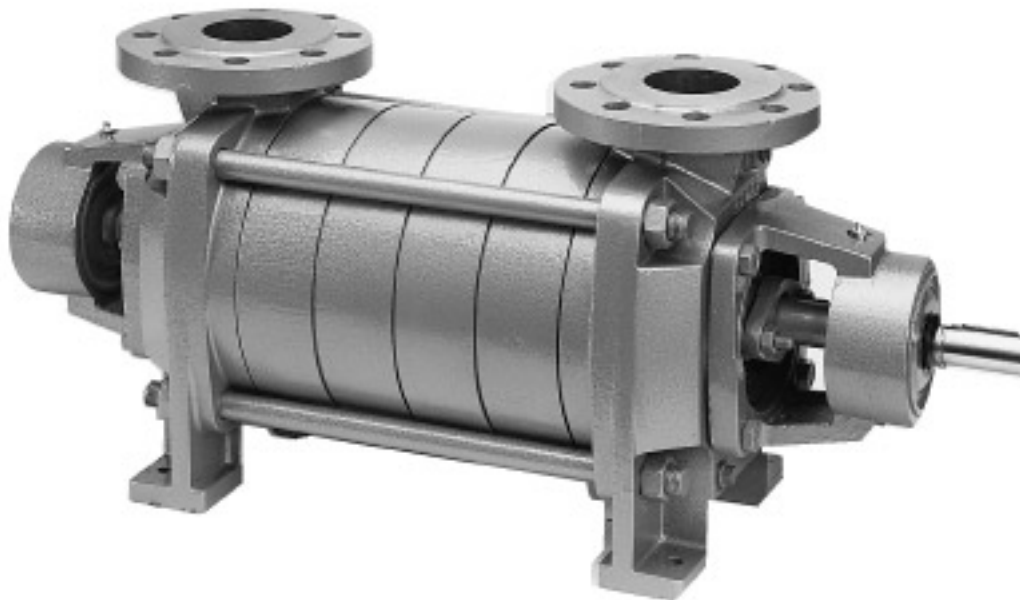


MCH, MCHW, MCHS

Horizontal multistage pump



System characteristics

The MCH family, a range of horizontal high pressure multistage pumps, has a high interchangeability in parts to other Johnson pumps, like MCV and MCHZ.

There are seven different sizes, each built up with one or more stages.

Applications

The MCH pump family is suitable for handling clean or slightly contaminated liquids for instance well water, hot water, various coolants, condensed water, brine lye, sea water, petrol, kerosene, and petroleum.

For e.g. booster installations, hot water circulating systems, airconditioning systems, cooling for stationary and marine installations, industry, waterworks, agriculture and horticulture, spraying installations and ship-building. As a general service and transport pump for feed installations in the industry, industries in general, road building and hydraulic engineering.

Pump specifics

- Suitable for a wide span of duties
- Large hydraulic field of application
- Suitable for various liquids
- All types of the MCH family are fitted with closed impellers
- High interchangeability in spare parts between different sizes, thus limiting spare parts stock levels
- Also available in vertical position (MCV)
- Also available in self-priming execution (MCHZ)

Technical data

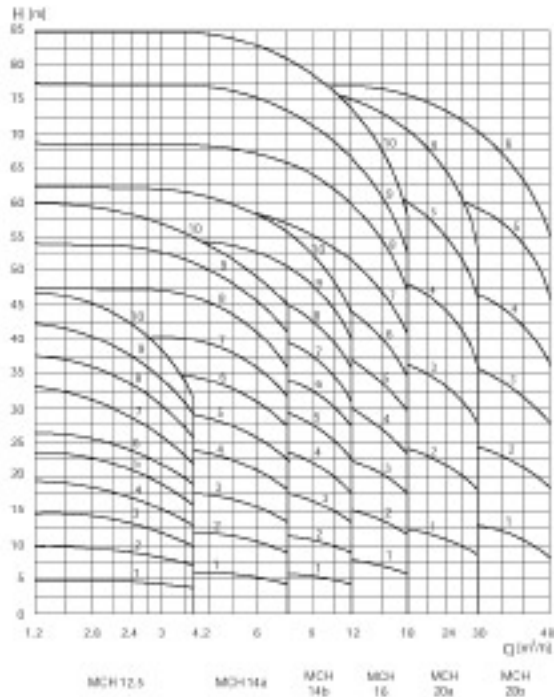
| | |
|-----------------------------------|---|
| Type MCH: | Stuffing box packing Temperature -15°C – +105°C |
| Type MCHS: | Mechanical seal Temperature -20°C – +120°C |
| Type MCHW: | Water cooled stuffing box Temperature -15°C – +150°C |
| Maximum capacity: | 100 m ³ /h |
| Maximum delivery head: | 340 m |
| Maximum operating pressure: | 40 - 3 x inlet pressure bar (4000 - 3 x inlet pressure kPa) <i>depending on pump size/materials</i> |
| Maximum allowable inlet pressure: | 10 bar (1000 kPa) |

Materials

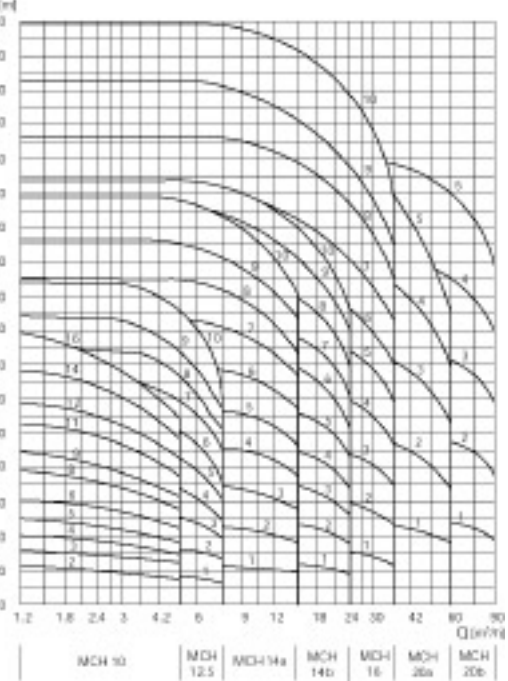
| | | |
|---------------------|-------------|--------|
| Casing parts | Cast iron | Bronze |
| Impeller | Cast iron | Bronze |
| Pump shaft | Steel alloy | |

Performance data

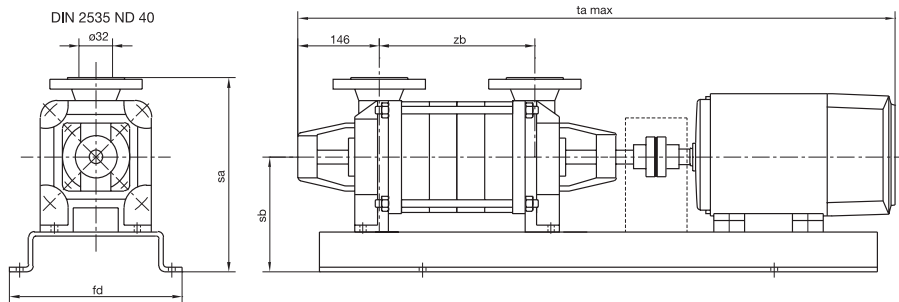
$N_{nom} = 1500 \text{ rpm}$



$N_{nom} = 3000 \text{ rpm}$



Dimensions



| MCH, MCHW, MCHS | IEC-motor | fd | sa | sb | zb | ta max. |
|-----------------|-----------|----|-----|-----|-----|---------|
| 12,5 x 1 | 71 | 15 | 267 | 142 | 169 | 755 |
| | 80 | 15 | 267 | 142 | 169 | 787 |
| | 63 | 15 | 267 | 142 | 169 | 724 |
| 12,5 x 2 | 71 | 15 | 267 | 152 | 169 | 752 |
| | 90S | 15 | 277 | 152 | 169 | 812 |
| | 90L | 15 | 277 | 152 | 169 | 837 |
| | 71 | 15 | 277 | 152 | 214 | 797 |
| 12,5 x 3 | 90S | 15 | 277 | 152 | 214 | 857 |
| | 90L | 15 | 277 | 152 | 214 | 882 |
| | 100L | 19 | 277 | 152 | 214 | 927 |
| | 71 | 15 | 277 | 152 | 259 | 842 |
| | 80 | 15 | 277 | 152 | 259 | 877 |
| 12,5 x 4 | 90L | 19 | 277 | 152 | 259 | 927 |
| | 100L | 19 | 277 | 152 | 259 | 972 |
| | 112M | 19 | 277 | 152 | 259 | 992 |
| | 71 | 19 | 277 | 152 | 304 | 887 |
| | 80 | 19 | 277 | 152 | 304 | 922 |
| 12,5 x 5 | 100L | 19 | 287 | 163 | 304 | 1017 |
| | 112M | 19 | 287 | 163 | 304 | 1037 |
| | 132S | 19 | 307 | 182 | 304 | 1108 |
| | 71 | 19 | 277 | 152 | 349 | 932 |

| MCH, MCHW, MCHS | IEC-motor | fd | sa | sb | zb | ta max. |
|-----------------|-----------|----|-----|-----|-----|---------|
| 12,5 x 6 | 80 | 19 | 277 | 152 | 349 | 967 |
| | 112M | 19 | 287 | 162 | 349 | 1082 |
| | 132S | 19 | 320 | 195 | 349 | 1153 |
| | 80 | 19 | 287 | 162 | 394 | 1012 |
| 12,5 x 7 | 90S | 19 | 287 | 162 | 394 | 1037 |
| | 112M | 19 | 300 | 175 | 394 | 1127 |
| | 132S | 19 | 320 | 195 | 394 | 1198 |
| | 80 | 19 | 287 | 162 | 439 | 1022 |
| 12,5 x 8 | 90S | 19 | 300 | 175 | 439 | 1082 |
| | 132S | 19 | 327 | 202 | 439 | 1243 |
| | 80 | 19 | 300 | 175 | 484 | 1102 |
| 12,5 x 9 | 90S | 19 | 300 | 175 | 484 | 1127 |
| | 132S | 19 | 327 | 202 | 484 | 1288 |
| | 80 | 19 | 300 | 175 | 529 | 1147 |
| 12,5 x 10 | 90S | 19 | 307 | 182 | 529 | 1172 |
| | 132S | 19 | 327 | 202 | 529 | 1333 |



Johnson Pump B.V.

