

MTX



Centrifugal pumps

Field of application

- Water treatment
- Water supply
- Cooling units
- Engineering

Design

Monoblock pump with surface-cooled motor, extended motor shaft to accommodate the impellers, shaft seal in the form of a mechanical seal, configured for constant operation.

Motor

Protection class .....IP 55  
Class of insulation.....F  
Voltage.....1~ 230 V ± 10 %  
built in overload protection  
Voltage.....3~ 400/230 V ± 10 %  
Motor speed .....2850 rpm  
Frequency .....50 Hz

Technical data

Flow rate.....Q up to max. 27 m³/h  
Total dynamic head .....H up to max. 105 m  
Fluid temperature .....t from -15 to max 85 °C  
Operating pressure.....p up to max. 10 bar

Pumped fluid

Clear, moderately aggressive fluids, which don't chemically and mechanically attack the pump materials.

Materials used

Pump housing.....stainless steel AISI 304  
Impellers.....stainless steel AISI 304  
Shaft .....stainless steel AISI 304  
Seal mount.....stainless steel AISI 304  
Engine mount.....die cast aluminium  
Elastomers .....EPDM  
Mechanical seal.....carbon/ceramic

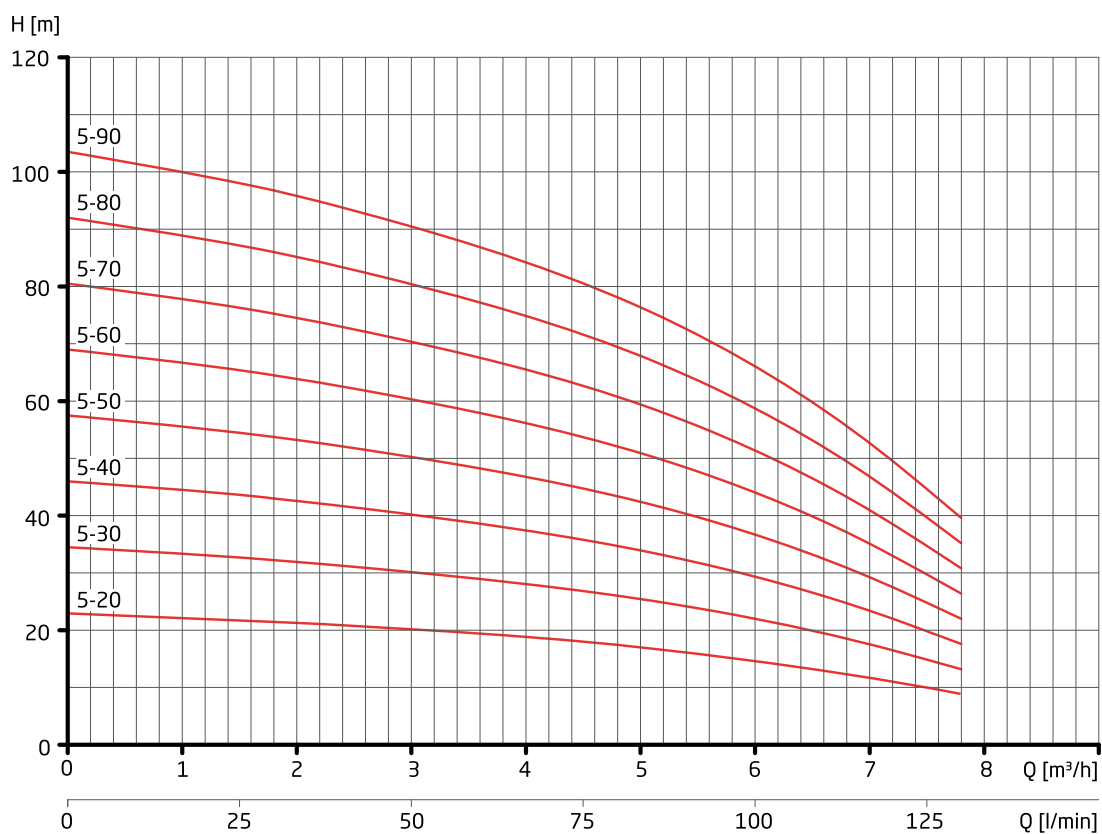
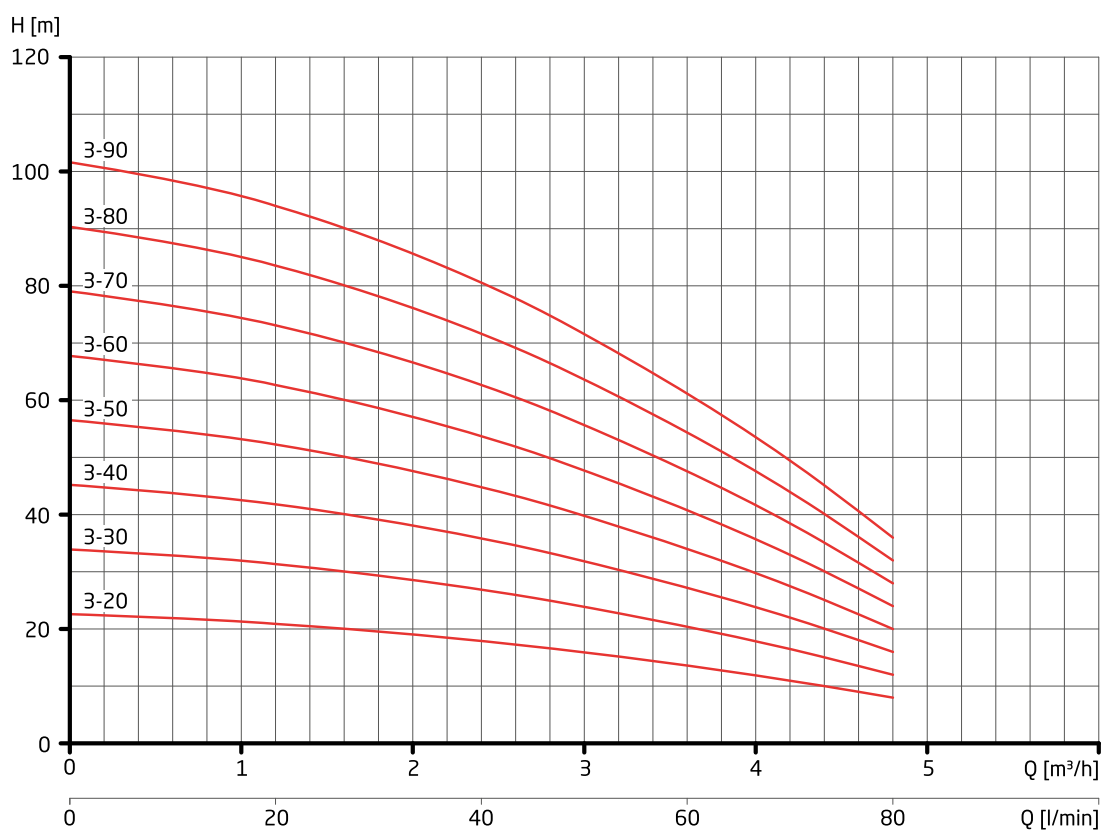
Type key

MTX 5-60  
MTX ..... pump type  
5 ..... pump size  
60 ..... number of stages x 10

Special editions

- Special voltage
- Special elastomers
- Special mechanical seals
- Higher fluid temperatures

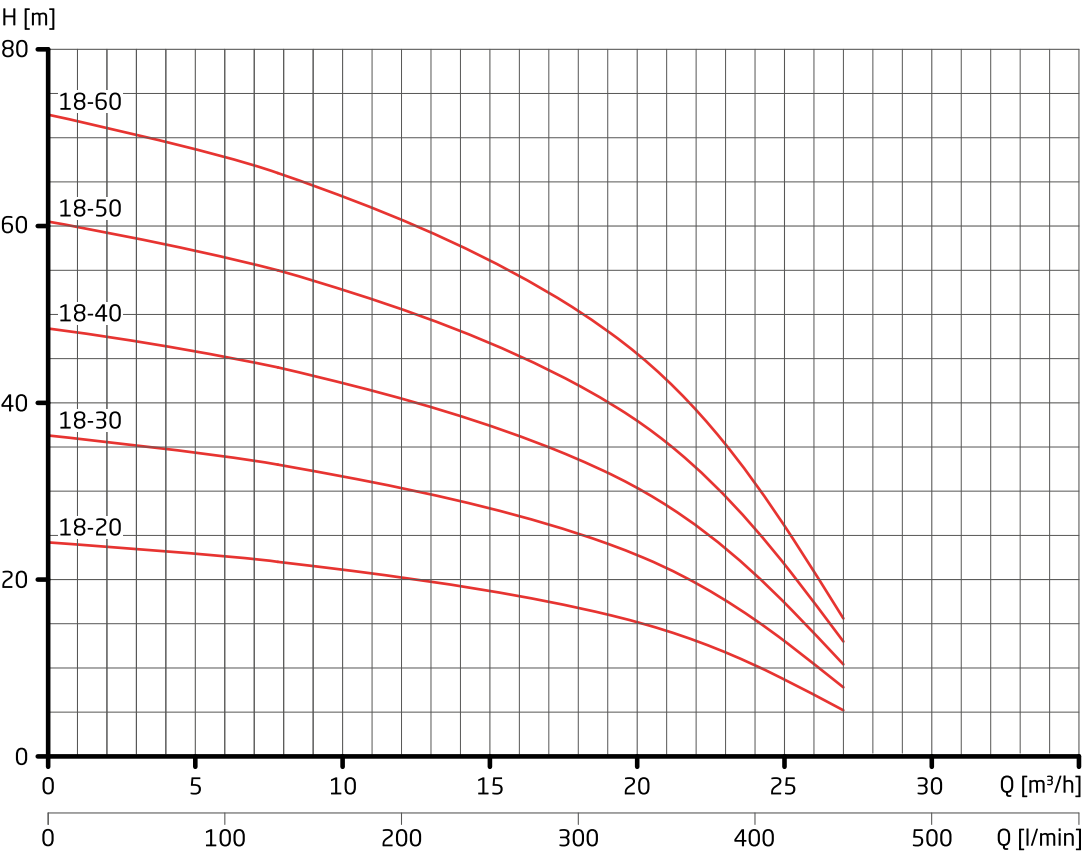
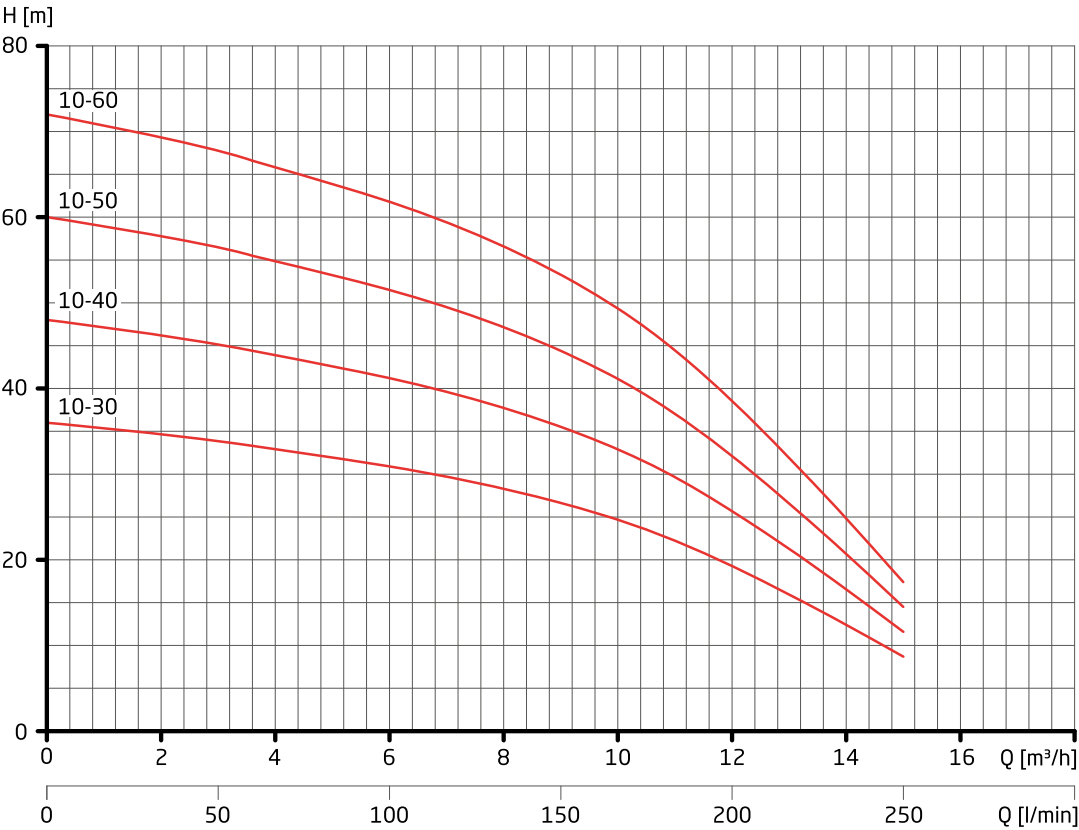
## Characteristics



MTX



Characteristics





## Technical data

| Type      | Inlet connection<br>(Rp) | Outlet connection<br>(Rp) | Power output<br>P <sub>2</sub> (kW) | Rated current (A)<br>3~ Y/Δ 400/230 V | Rated current (A)<br>1~ 230 V | Weight (kg)<br>3~/1~ |
|-----------|--------------------------|---------------------------|-------------------------------------|---------------------------------------|-------------------------------|----------------------|
| MTX 3-20  | 1                        | 1                         | 0.45                                | 1.30/2.30                             | 3.20                          | 8.50/8.50            |
| MTX 3-30  | 1                        | 1                         | 0.65                                | 1.60/2.80                             | 4.50                          | 9.90/9.90            |
| MTX 3-40  | 1                        | 1                         | 0.65                                | 1.60/2.80                             | 4.50                          | 10.90/10.90          |
| MTX 3-50  | 1                        | 1                         | 0.75                                | 1.70/3.00                             | 5.40                          | 12.40/12.50          |
| MTX 3-60  | 1                        | 1                         | 0.90                                | 2.50/4.30                             | 5.70                          | 13.60/13.70          |
| MTX 3-70  | 1                        | 1                         | 1.30                                | 3.30/5.80                             | 7.80                          | 17.90/17.00          |
| MTX 3-80  | 1                        | 1                         | 1.30                                | 3.30/5.80                             | 7.80                          | 18.70/17.80          |
| MTX 3-90  | 1                        | 1                         | 1.50                                | 3.80/6.60                             | 8.70                          | 20.90/20.00          |
| MTX 5-20  | 1 ¼                      | 1                         | 0.45                                | 1.30/2.30                             | 3.20                          | 8.50/8.50            |
| MTX 5-30  | 1 ¼                      | 1                         | 0.65                                | 1.60/2.80                             | 4.50                          | 9.90/9.90            |
| MTX 5-40  | 1 ¼                      | 1                         | 0.90                                | 2.50/4.30                             | 5.70                          | 12.40/12.40          |
| MTX 5-50  | 1 ¼                      | 1                         | 1.30                                | 3.30/5.80                             | 7.80                          | 16.70/15.80          |
| MTX 5-60  | 1 ¼                      | 1                         | 1.30                                | 3.30/5.80                             | 7.80                          | 17.10/16.20          |
| MTX 5-70  | 1 ¼                      | 1                         | 1.50                                | 3.80/6.60                             | 8.70                          | 19.60/18.70          |
| MTX 5-80  | 1 ¼                      | 1                         | 2.20                                | 4.70/8.20                             | 13.00                         | 19.60/18.70          |
| MTX 5-90  | 1 ¼                      | 1                         | 2.20                                | 4.70/8.20                             | 13.00                         | 19.70/18.80          |
| MTX 10-30 | 1 ½                      | 1 ¼                       | 1.30                                | 3.30/5.80                             | 7.80                          | 14.50/13.60          |
| MTX 10-40 | 1 ½                      | 1 ¼                       | 1.50                                | 3.80/6.60                             | 8.70                          | 18.20/17.30          |
| MTX 10-50 | 1 ½                      | 1 ¼                       | 2.20                                | 4.70/8.20                             | 13.00                         | 18.80/17.90          |
| MTX 10-60 | 1 ½                      | 1 ¼                       | 2.20                                | 4.70/8.20                             | 13.00                         | 19.20/18.30          |
| MTX 18-20 | 2                        | 1 ½                       | 1.50                                | 3.80/6.60                             | 8.70                          | 17.10/16.20          |
| MTX 18-30 | 2                        | 1 ½                       | 2.20                                | 4.70/8.20                             | 13.00                         | 18.10/17.20          |
| MTX 18-40 | 2                        | 1 ½                       | 3.00                                | 6.40/11.10                            | -                             | 23.80/-              |
| MTX 18-50 | 2                        | 1 ½                       | 4.00                                | 8.70/15.10                            | -                             | 33.20/-              |
| MTX 18-60 | 2                        | 1 ½                       | 4.00                                | 8.70/15.10                            | -                             | 34.20/-              |

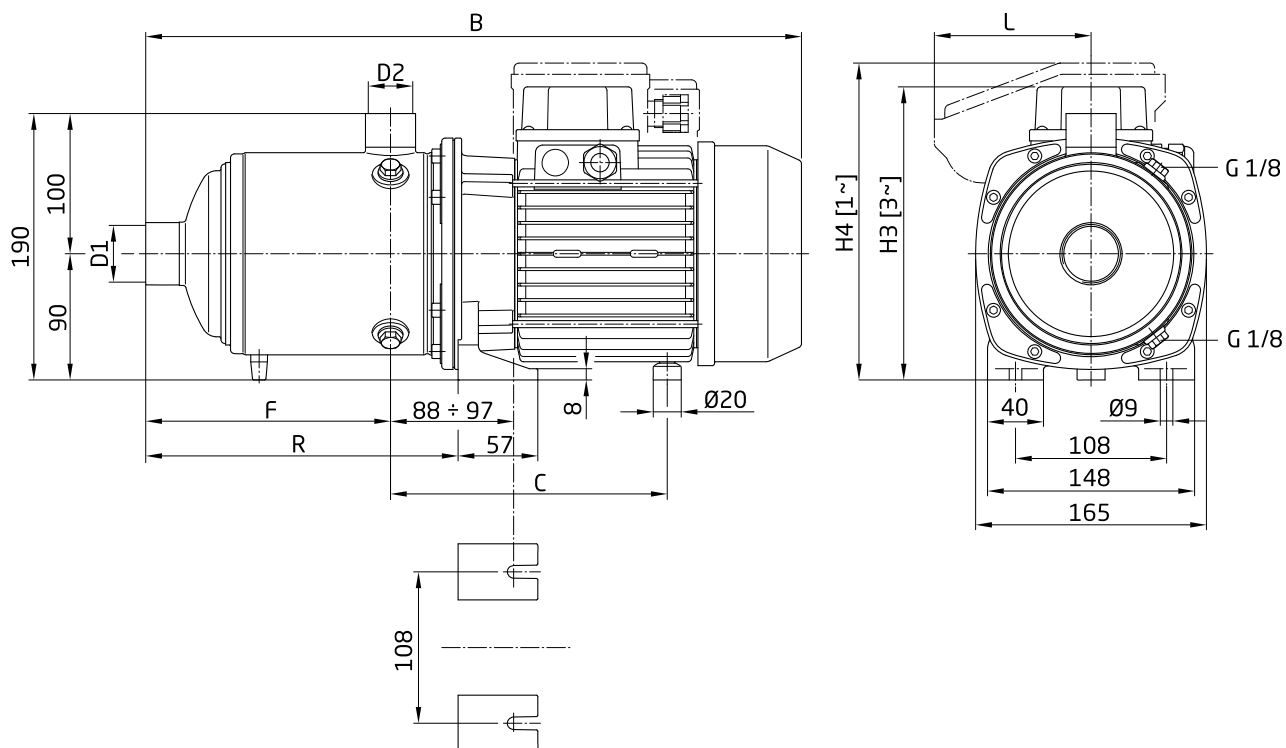
## Order information

| Type      | Three-phase<br>3~ 400/230 V<br>article no. | Single phase<br>1~ 230 V<br>article no. |
|-----------|--------------------------------------------|-----------------------------------------|
| MTX 3-20  | 644.0302.067A                              | 644.0302.068A                           |
| MTX 3-30  | 644.0303.067A                              | 644.0303.068A                           |
| MTX 3-40  | 644.0304.067A                              | 644.0304.068A                           |
| MTX 3-50  | 644.0305.067A                              | 644.0305.068A                           |
| MTX 3-60  | 644.0306.067A                              | 644.0306.068A                           |
| MTX 3-70  | 644.0307.067A                              | 644.0307.068A                           |
| MTX 3-80  | 644.0308.067A                              | 644.0308.068A                           |
| MTX 3-90  | 644.0309.067A                              | 644.0309.068A                           |
| MTX 5-20  | 644.0502.067A                              | 644.0502.068A                           |
| MTX 5-30  | 644.0503.067A                              | 644.0503.068A                           |
| MTX 5-40  | 644.0504.067A                              | 644.0504.068A                           |
| MTX 5-50  | 644.0505.067A                              | 644.0505.068A                           |
| MTX 5-60  | 644.0506.067A                              | 644.0506.068A                           |
| MTX 5-70  | 644.0507.067A                              | 644.0507.068A                           |
| MTX 5-80  | 644.0508.067A                              | 644.0508.068A                           |
| MTX 5-90  | 644.0509.067A                              | 644.0509.068A                           |
| MTX 10-30 | 644.1003.067A                              | 644.1003.068A                           |
| MTX 10-40 | 644.1004.067A                              | 644.1004.068A                           |
| MTX 10-50 | 644.1005.067A                              | 644.1005.068A                           |
| MTX 10-60 | 644.1006.067A                              | 644.1006.068A                           |
| MTX 18-20 | 644.1802.067A                              | 644.1802.068A                           |
| MTX 18-30 | 644.1803.067A                              | 644.1803.068A                           |
| MTX 18-40 | 644.1804.067A                              |                                         |
| MTX 18-50 | 644.1805.067A                              |                                         |
| MTX 18-60 | 644.1806.067A                              |                                         |

MTX

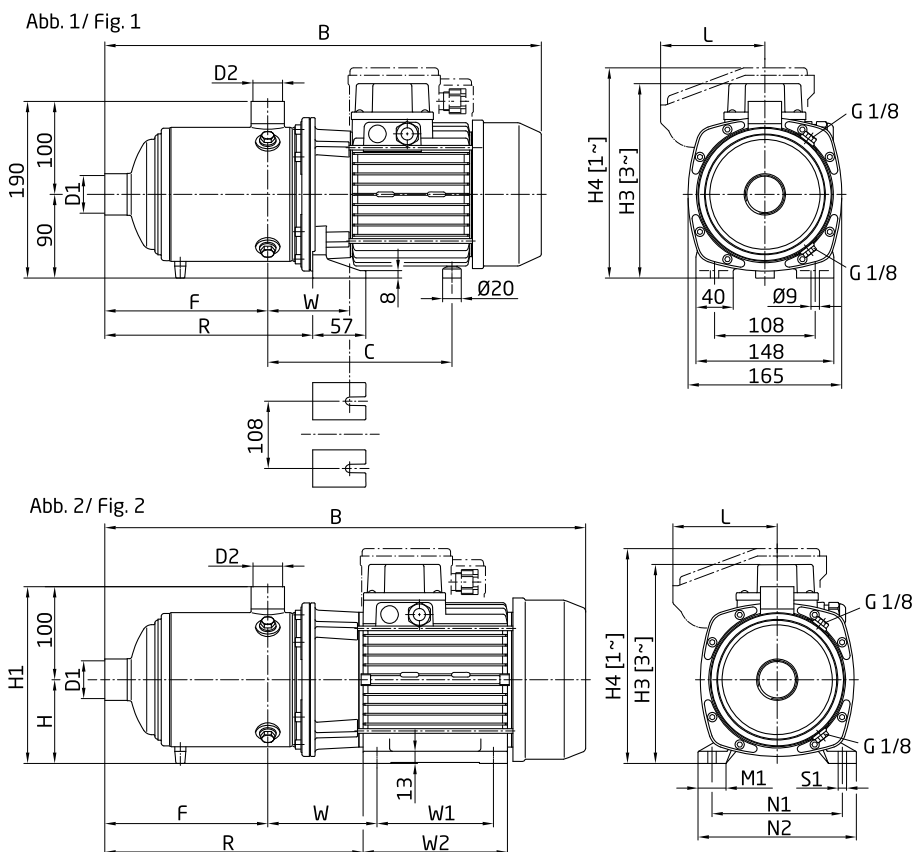


## Dimensions



| Type        | D1   | D2   | B   | C   | F   | H3  | H4  | L    | R     |
|-------------|------|------|-----|-----|-----|-----|-----|------|-------|
| MTX 3-20 1~ | Rp 1 | Rp 1 | 360 | 171 | 103 | -   | 200 | 86.5 | 151.5 |
| MTX 3-20 3~ | Rp 1 | Rp 1 | 360 | 171 | 103 | 192 | -   | -    | 151.5 |
| MTX 3-30 1~ | Rp 1 | Rp 1 | 360 | 171 | 103 | -   | 200 | 86.5 | 151.5 |
| MTX 3-30 3~ | Rp 1 | Rp 1 | 360 | 171 | 103 | 192 | -   | -    | 151.5 |
| MTX 3-40 1~ | Rp 1 | Rp 1 | 384 | 171 | 127 | -   | 200 | 86.5 | 175.5 |
| MTX 3-40 3~ | Rp 1 | Rp 1 | 384 | 171 | 127 | 192 | -   | -    | 175.5 |
| MTX 3-50 1~ | Rp 1 | Rp 1 | 408 | 171 | 151 | -   | 200 | 86.5 | 199.5 |
| MTX 3-50 3~ | Rp 1 | Rp 1 | 408 | 171 | 151 | 192 | -   | -    | 199.5 |
| MTX 3-60 1~ | Rp 1 | Rp 1 | 432 | 171 | 175 | -   | 219 | 106  | 223.5 |
| MTX 3-60 3~ | Rp 1 | Rp 1 | 444 | 171 | 175 | 192 | -   | -    | 223.5 |
| MTX 3-70 1~ | Rp 1 | Rp 1 | 493 | 198 | 199 | -   | 226 | 112  | 247.5 |
| MTX 3-70 3~ | Rp 1 | Rp 1 | 518 | 198 | 199 | 209 | -   | -    | 247.5 |
| MTX 3-80 1~ | Rp 1 | Rp 1 | 517 | 198 | 223 | -   | 226 | 112  | 271.5 |
| MTX 3-80 3~ | Rp 1 | Rp 1 | 542 | 198 | 223 | 209 | -   | -    | 271.5 |
| MTX 3-90 1~ | Rp 1 | Rp 1 | 541 | 198 | 247 | -   | 226 | 112  | 295.5 |
| MTX 3-90 3~ | Rp 1 | Rp 1 | 567 | 198 | 247 | 209 | -   | -    | 295.5 |

## Dimensions



**Figure 1**

| Type        | D1       | D2   | B     | C   | F   | H3  | H4  | L    | R     | W     |
|-------------|----------|------|-------|-----|-----|-----|-----|------|-------|-------|
| MTX 5-20 1~ | Rp 1 1/4 | Rp 1 | 360   | 171 | 103 | -   | 200 | 86.5 | 151.5 | 88-97 |
| MTX 5-20 3~ | Rp 1 1/4 | Rp 1 | 360   | 171 | 103 | 192 | -   | -    | 151.5 | 88-97 |
| MTX 5-30 1~ | Rp 1 1/4 | Rp 1 | 360   | 171 | 103 | -   | 200 | 86.5 | 151.5 | 88-97 |
| MTX 5-30 3~ | Rp 1 1/4 | Rp 1 | 360   | 171 | 103 | 192 | -   | -    | 151.5 | 88-97 |
| MTX 5-40 1~ | Rp 1 1/4 | Rp 1 | 384   | 171 | 127 | -   | 219 | 106  | 175.5 | 88-97 |
| MTX 5-40 3~ | Rp 1 1/4 | Rp 1 | 396   | 171 | 127 | 192 | -   | -    | 175.5 | 88-97 |
| MTX 5-50 1~ | Rp 1 1/4 | Rp 1 | 445   | 198 | 151 | -   | 226 | 112  | 199.5 | 88-97 |
| MTX 5-50 3~ | Rp 1 1/4 | Rp 1 | 470   | 198 | 151 | 209 | -   | -    | 199.5 | 88-97 |
| MTX 5-60 1~ | Rp 1 1/4 | Rp 1 | 469   | 198 | 175 | -   | 226 | 112  | 223.5 | 88-97 |
| MTX 5-60 3~ | Rp 1 1/4 | Rp 1 | 494   | 198 | 175 | 209 | -   | -    | 223.5 | 88-97 |
| MTX 5-70 1~ | Rp 1 1/4 | Rp 1 | 493   | 198 | 199 | -   | 226 | 112  | 247.5 | 88-97 |
| MTX 5-70 3~ | Rp 1 1/4 | Rp 1 | 518.5 | 198 | 199 | 209 | -   | -    | 247.5 | 88-97 |
| MTX 5-80 1~ | Rp 1 1/4 | Rp 1 | 565   | -   | 223 | -   | 231 | 112  | 325.5 | 117.5 |
| MTX 5-80 3~ | Rp 1 1/4 | Rp 1 | 542.5 | 198 | 223 | 209 | -   | -    | 271.5 | 88-97 |
| MTX 5-90 1~ | Rp 1 1/4 | Rp 1 | 589   | -   | 247 | -   | 231 | 112  | 349.5 | 117.5 |
| MTX 5-90 3~ | Rp 1 1/4 | Rp 1 | 566.5 | 198 | 247 | 209 | -   | -    | 295.5 | 88-97 |

**Figure 2**

| Type        | H  | H1  | W1  | W2  | M1 | N1  | N2  | S1 |
|-------------|----|-----|-----|-----|----|-----|-----|----|
| MTX 5-80 1~ | 90 | 190 | 125 | 155 | 30 | 140 | 170 | 9  |
| MTX 5-90 1~ | 90 | 190 | 125 | 155 | 30 | 140 | 170 | 9  |

Missing dimensions can be taken from the table "Figure 1".

MTX



Dimensions

Abb. 1/ Fig. 1

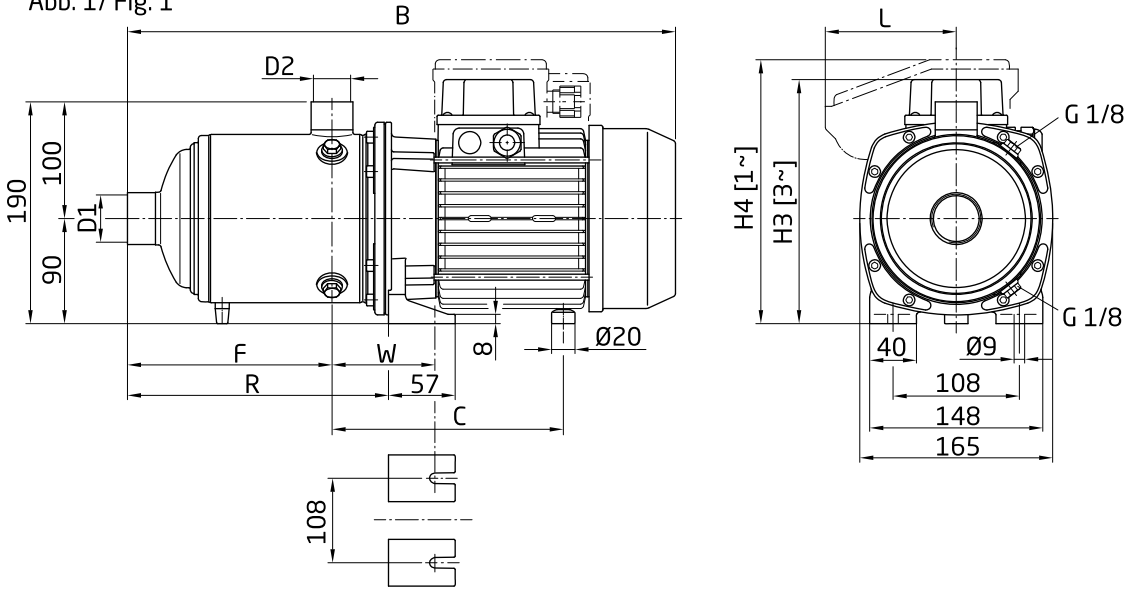


Abb. 2/ Fig. 2

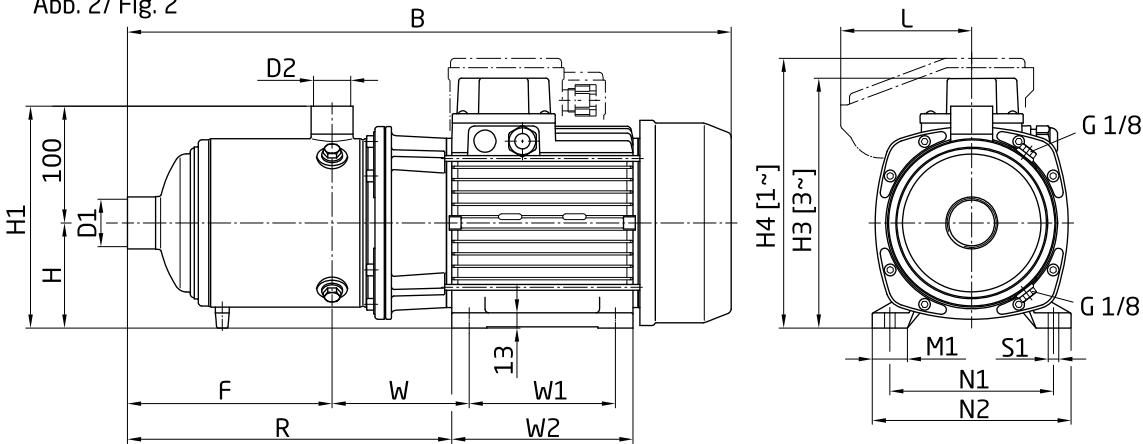


Figure 1

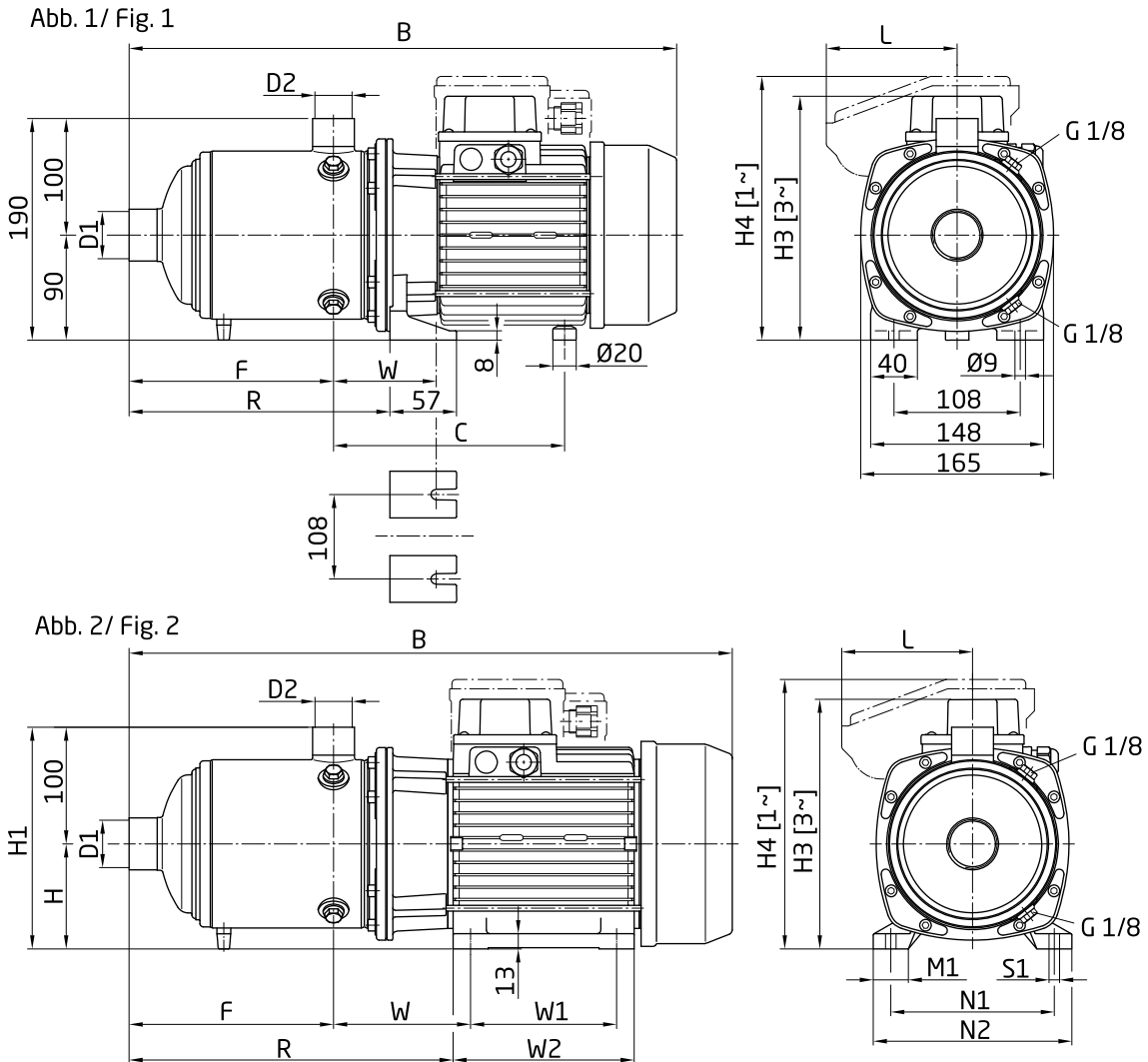
| Type         | D1       | D2       | B     | C   | F   | H3  | H4  | L    | R     | W      |
|--------------|----------|----------|-------|-----|-----|-----|-----|------|-------|--------|
| MTX 10-20 1~ | Rp 1 1/2 | Rp 1 1/4 | 379   | 175 | 118 | -   | 200 | 86.5 | 170.5 | 92-101 |
| MTX 10-20 3~ | Rp 1 1/2 | Rp 1 1/4 | 379   | 175 | 118 | 192 | -   | -    | 170.5 | 92-101 |
| MTX 10-30 1~ | Rp 1 1/2 | Rp 1 1/4 | 416   | 202 | 118 | -   | 226 | 112  | 170.5 | 92-101 |
| MTX 10-30 3~ | Rp 1 1/2 | Rp 1 1/4 | 441   | 202 | 118 | 209 | -   | -    | 170.5 | 92-101 |
| MTX 10-40 1~ | Rp 1 1/2 | Rp 1 1/4 | 446   | 202 | 148 | -   | 226 | 112  | 200.5 | 92-101 |
| MTX 10-40 3~ | Rp 1 1/2 | Rp 1 1/4 | 471.5 | 202 | 148 | 209 | -   | -    | 200.5 | 92-101 |
| MTX 10-50 1~ | Rp 1 1/2 | Rp 1 1/4 | 524   | -   | 178 | -   | 231 | 112  | 284.5 | 121.5  |
| MTX 10-50 3~ | Rp 1 1/2 | Rp 1 1/4 | 501.5 | 202 | 178 | 209 | -   | -    | 230.5 | 92-101 |
| MTX 10-60 1~ | Rp 1 1/2 | Rp 1 1/4 | 554   | -   | 208 | -   | 231 | 112  | 314.5 | 121.5  |
| MTX 10-60 3~ | Rp 1 1/2 | Rp 1 1/4 | 531.5 | 202 | 208 | 209 | -   | -    | 260.5 | 92-101 |

Figure 2

| Type         | H  | H1  | W1  | W2  | M1 | N1  | N2  | S1 |
|--------------|----|-----|-----|-----|----|-----|-----|----|
| MTX 10-50 1~ | 90 | 190 | 125 | 155 | 30 | 140 | 170 | 9  |
| MTX 10-60 1~ | 90 | 190 | 125 | 155 | 30 | 140 | 170 | 9  |

Missing dimensions can be taken from the table "Figure 1".

## Dimensions



**Figure 1**

| Type         | D1   | D2     | B     | C   | F     | H3  | H4  | L   | R     | W      |
|--------------|------|--------|-------|-----|-------|-----|-----|-----|-------|--------|
| MTX 18-20 1~ | Rp 2 | Rp 1 ½ | 442   | 205 | 141   | -   | 226 | 112 | 196.5 | 95-104 |
| MTX 18-20 3~ | Rp 2 | Rp 1 ½ | 467.5 | 205 | 141   | 209 | -   | -   | 196.5 | 95-104 |
| MTX 18-30 1~ | Rp 2 | Rp 1 ½ | 490   | -   | 141   | -   | 231 | 112 | 250.5 | 124.5  |
| MTX 18-30 3~ | Rp 2 | Rp 1 ½ | 467.5 | 205 | 141   | 209 | -   | -   | 196.5 | 95-104 |
| MTX 18-40 3~ | Rp 2 | Rp 1 ½ | 565   | -   | 178.5 | 214 | -   | -   | 288   | 124.5  |
| MTX 18-50 3~ | Rp 2 | Rp 1 ½ | 615   | -   | 216   | 241 | -   | -   | 315   | 114    |
| MTX 18-60 3~ | Rp 2 | Rp 1 ½ | 652   | -   | 253.5 | 241 | -   | -   | 352.5 | 114    |

**Figure 2**

| Type         | H   | H1  | W1  | W2  | M1 | N1  | N2  | S1 |
|--------------|-----|-----|-----|-----|----|-----|-----|----|
| MTX 18-30 1~ | 90  | 190 | 125 | 155 | 30 | 140 | 170 | 9  |
| MTX 18-40 3~ | 90  | 190 | 125 | 155 | 30 | 140 | 170 | 9  |
| MTX 18-50 3~ | 100 | 200 | 140 | 170 | 35 | 160 | 192 | 11 |
| MTX 18-60 3~ | 100 | 200 | 140 | 170 | 35 | 160 | 192 | 11 |

Missing dimensions can be taken from the table "Figure 1".