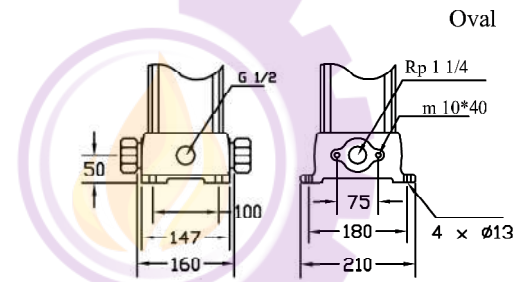
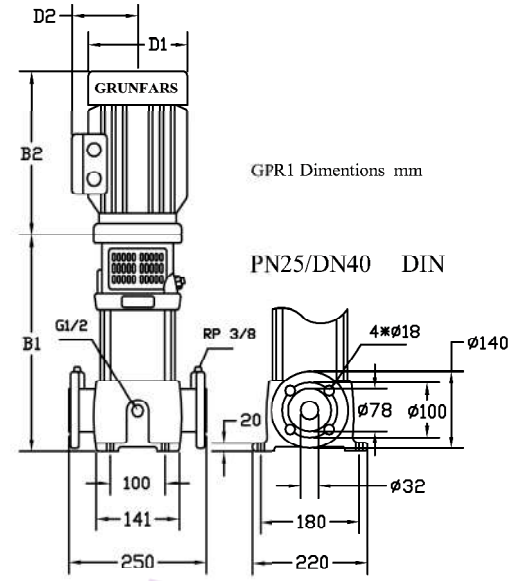
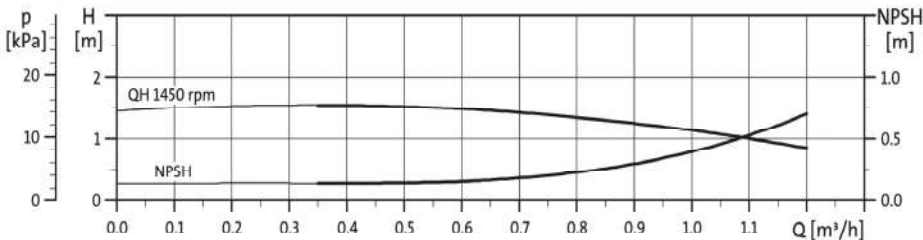
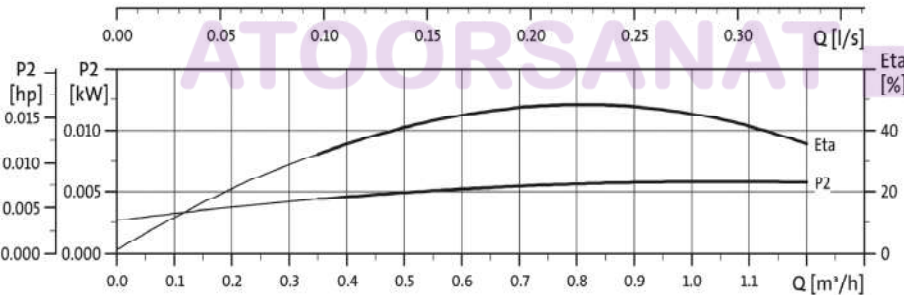
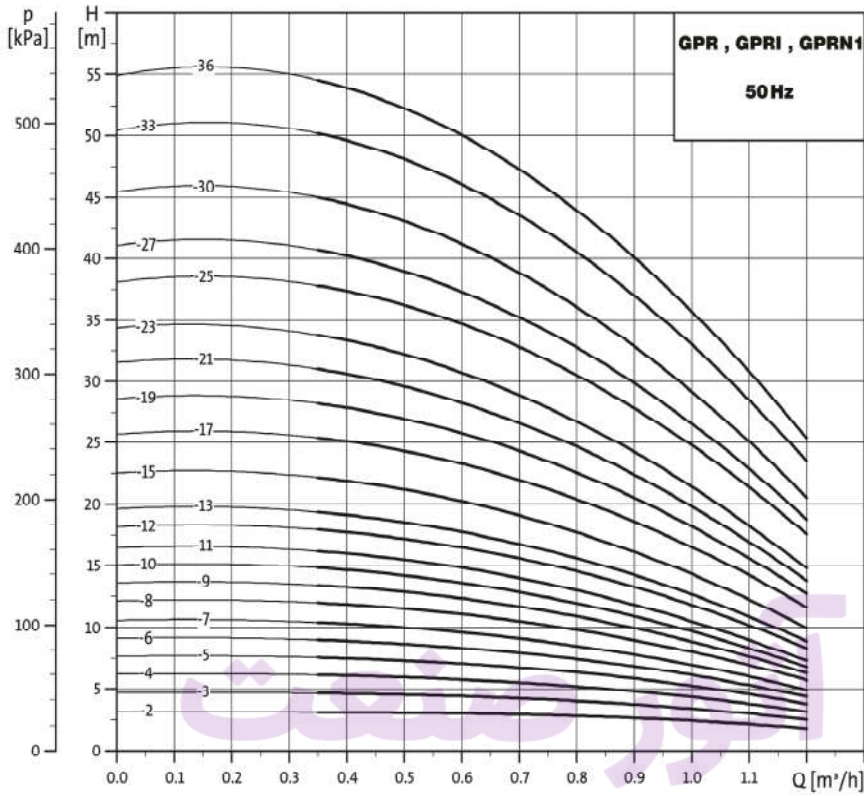




## GPR1/GPRN1



Dimensions and weights

| pump type | Dimensions [mm] |     |       |       |          |     |     | Net Weight [kg] |      |
|-----------|-----------------|-----|-------|-------|----------|-----|-----|-----------------|------|
|           | B1              | B2  | B1+B2 | ** B1 | ** B1+B2 | D1  | D2  | *               | **   |
| GPR1-2    | 256             | 191 | 447   | 281   | 472      | 141 | 109 | 18.4            | 22.5 |
| GPR1-3    | 256             | 191 | 447   | 281   | 472      | 141 | 109 | 18.7            | 22.5 |
| GPR1-4    | 274             | 191 | 465   | 299   | 490      | 141 | 109 | 19.0            | 22.8 |
| GPR1-5    | 292             | 191 | 483   | 317   | 508      | 141 | 109 | 19.2            | 23.1 |
| GPR1-6    | 310             | 191 | 501   | 335   | 526      | 141 | 109 | 19.8            | 23.3 |
| GPR1-7    | 328             | 191 | 519   | 353   | 544      | 141 | 109 | 21.1            | 23.9 |
| GPR1-8    | 346             | 191 | 537   | 371   | 562      | 141 | 109 | 21.1            | 25.2 |
| GPR1-9    | 364             | 191 | 551   | 389   | 580      | 141 | 109 | 21.5            | 25.6 |
| GPR1-10   | 382             | 191 | 573   | 407   | 598      | 141 | 109 | 22.0            | 26.1 |
| GPR1-11   | 400             | 191 | 591   | 425   | 616      | 141 | 109 | 22.5            | 26.6 |
| GPR1-12   | 422             | 231 | 653   | 447   | 678      | 141 | 109 | 24.7            | 28.8 |
| GPR1-13   | 440             | 231 | 671   | 465   | 696      | 141 | 109 | 24.9            | 29.0 |
| GPR1-15   | 476             | 231 | 707   | 501   | 732      | 141 | 109 | 25.5            | 29.6 |
| GPR1-17   | 512             | 231 | 743   | 537   | 768      | 141 | 109 | 27.4            | 31.5 |
| GPR1-19   | 548             | 231 | 779   | 573   | 804      | 141 | 109 | 28.1            | 32.2 |
| GPR1-21   | 548             | 231 | -     | 609   | 840      | 141 | 109 | 28.9            | 33.0 |
| GPR1-23   | 548             | 231 | -     | 645   | 876      | 141 | 109 | 29.7            | 33.8 |
| GPR1-25   | -               | 281 | -     | 697   | 978      | 178 | 110 | -               | 40.9 |
| GPR1-27   | -               | 281 | -     | 733   | 1014     | 178 | 110 | -               | 41.4 |
| GPR1-30   | -               | 281 | -     | 787   | 1068     | 178 | 110 | -               | 42.7 |
| GPR1-33   | -               | 281 | -     | 841   | 1122     | 178 | 110 | -               | 45.7 |
| GPR1-36   | -               | 281 | -     | 895   | 1176     | 178 | 110 | -               | 47.8 |

\* GPR1 With Oval flanges

\*\* GPR1 With DIN flanges

Pipework connection

DIN 2566 with threaded socket

DIN/2634/2635 with socket for welding

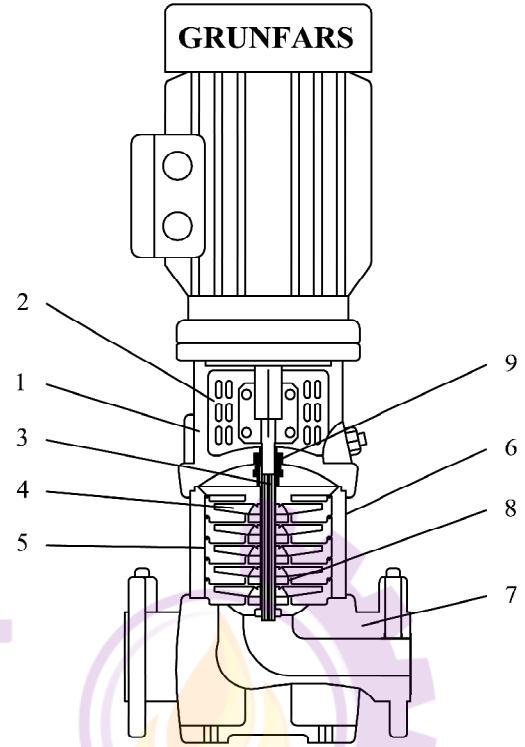
\* Oval flange base for pump models GPR1-2 to GPR1-23

\*\* DIN flange base for pump models GPR1-2 to GPR3-36



## Materials GPR1/GPRN1

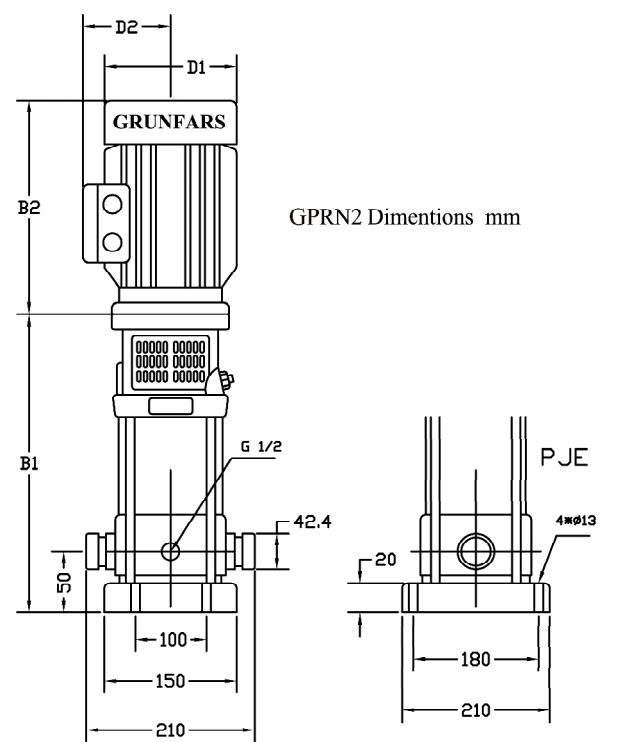
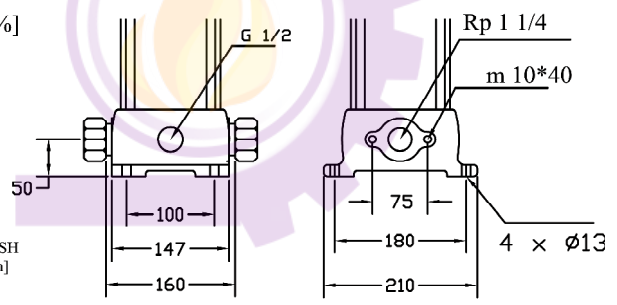
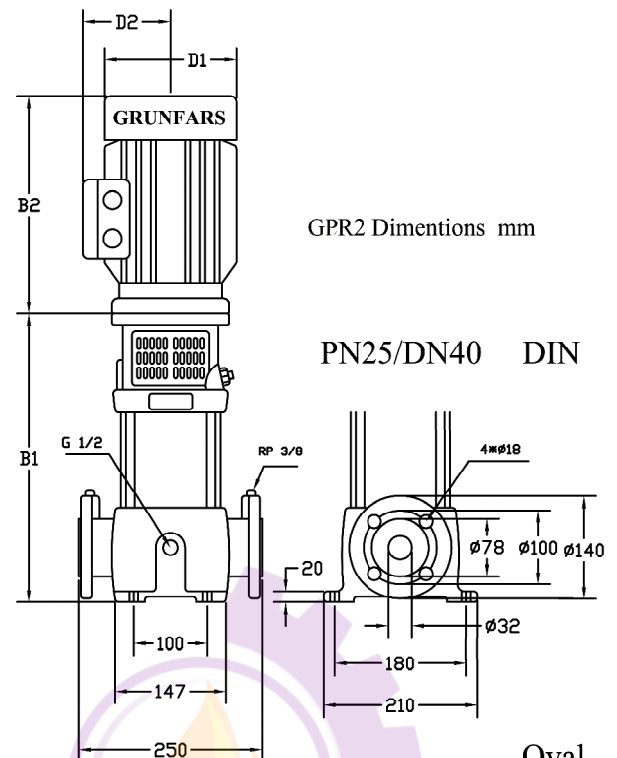
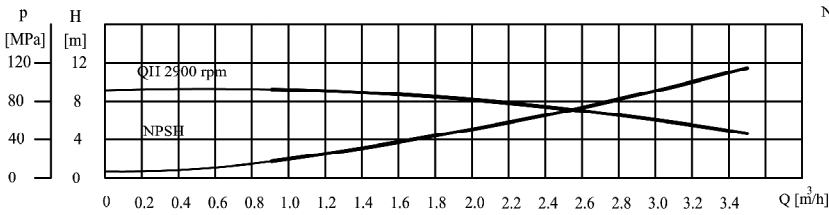
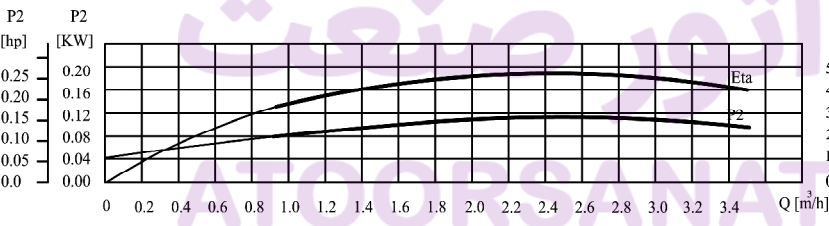
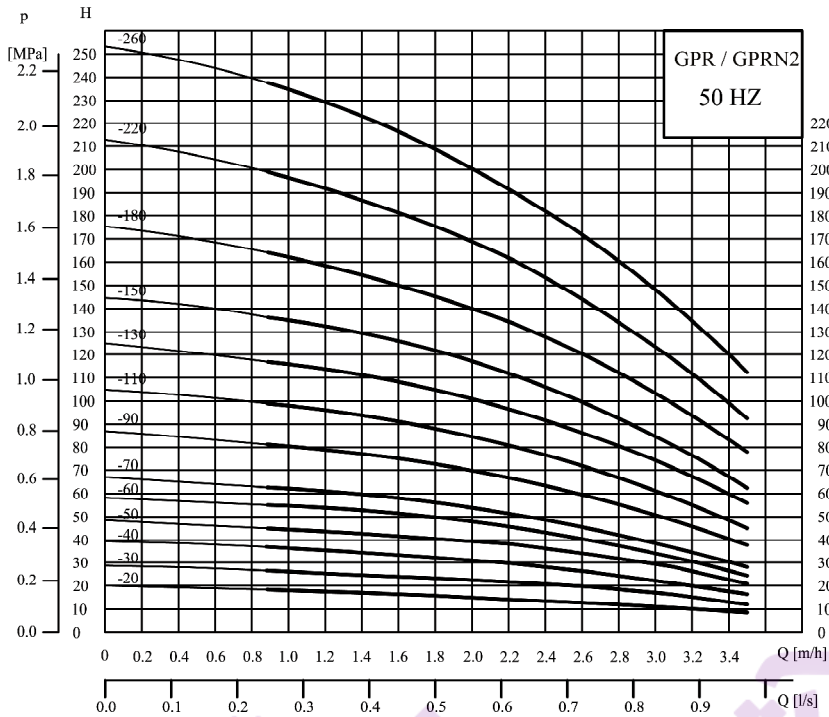
| POS. NO. | Description          | Materials                           | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|-------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                     | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                     | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                     | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                     | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                     | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50         | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                              |                  |                      |
| 9        | shaft seal           | Tungsten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                 |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

| pump type | Motor  |        | Full load current<br>I 1/1 [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>n [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|----------------------------------|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |                                  |                          |                             |                             |
| GPR1-2    | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 77.5-77.5                   | 4.8-5.2                     |
| GPR1-3    | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 77.5-77.5                   | 4.8-5.2                     |
| GPR1-4    | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 77.5-77.5                   | 4.8-5.2                     |
| GPR1-5    | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 77.5-77.5                   | 4.8-5.2                     |
| GPR1-6    | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 77.5-77.5                   | 4.8-5.2                     |
| GPR1-7    | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 77.5-77.5                   | 4.8-5.2                     |
| GPR1-8    | 0.55   | 0.75   | 1.44                             | 0.84-0.76                | 79.0-79.0                   | 4.8-5.2                     |
| GPR1-9    | 0.55   | 0.75   | 1.44                             | 0.84-0.76                | 79.0-79.0                   | 4.8-5.2                     |
| GPR1-10   | 0.55   | 0.75   | 1.44                             | 0.84-0.76                | 79.0-79.0                   | 4.8-5.2                     |
| GPR1-11   | 0.55   | 0.75   | 1.44                             | 0.84-0.76                | 79.0-79.0                   | 4.8-5.2                     |
| GPR1-12   | 0.75   | 1.0    | 1.86                             | 0.86-0.78                | 80.0-80.0                   | 5.0-5.5                     |
| GPR1-13   | 0.75   | 1.0    | 1.86                             | 0.86-0.78                | 80.0-80.0                   | 5.0-5.5                     |
| GPR1-15   | 0.75   | 1.0    | 1.86                             | 0.86-0.78                | 80.0-80.0                   | 5.0-5.5                     |
| GPR1-17   | 1.1    | 1.5    | 2.65                             | 0.87-0.79                | 81.0-81.0                   | 5.2-5.7                     |
| GPR1-19   | 1.1    | 1.5    | 2.65                             | 0.87-0.79                | 81.0-81.0                   | 5.2-5.7                     |
| GPR1-21   | 1.1    | 1.5    | 2.65                             | 0.87-0.79                | 81.0-81.0                   | 5.2-5.7                     |
| GPR1-23   | 1.1    | 1.5    | 2.65                             | 0.87-0.79                | 81.0-81.0                   | 5.2-5.7                     |
| GPR1-25   | 1.5    | 2.0    | 3.40                             | 0.85-0.79                | 82.0-82.0                   | 6.3-6.9                     |
| GPR1-27   | 1.5    | 2.0    | 3.40                             | 0.85-0.79                | 82.0-82.0                   | 6.3-6.9                     |
| GPR1-30   | 1.5    | 2.0    | 3.40                             | 0.85-0.79                | 82.0-82.0                   | 6.3-6.9                     |
| GPR1-33   | 2.2    | 3.0    | 4.75                             | 0.87-0.82                | 84.0-84.0                   | 7.0-7.6                     |
| GPR1-36   | 2.2    | 3.0    | 4.75                             | 0.87-0.82                | 84.0-84.0                   | 7.0-7.6                     |



Dimensions and weights

| pump type | DIMENSIONS [mm] |     |         |     |          |     | Net Weight [kg] |    |    |    |
|-----------|-----------------|-----|---------|-----|----------|-----|-----------------|----|----|----|
|           | * B1 B2         |     | * B1+B2 |     | ** B1+B2 |     | D1              | D2 | *  | ** |
|           | B1              | B2  | B1      | B2  | B1       | B2  |                 |    |    |    |
| GPR2-20   | 220             | 190 | 410     | 245 | 435      | 140 | 110             | 20 | 25 |    |
| GPR2-30   | 240             | 190 | 430     | 265 | 455      | 140 | 110             | 20 | 25 |    |
| GPR2-40   | 260             | 190 | 450     | 285 | 475      | 140 | 110             | 20 | 25 |    |
| GPR2-50   | 275             | 190 | 465     | 300 | 490      | 140 | 110             | 20 | 25 |    |
| GPR2-60   | 300             | 230 | 530     | 325 | 555      | 140 | 110             | 20 | 25 |    |
| GPR2-70   | 315             | 230 | 545     | 340 | 570      | 140 | 110             | 25 | 30 |    |
| GPR2-90   | 350             | 230 | 580     | 375 | 605      | 140 | 110             | 30 | 35 |    |
| GPR2-110  | 385             | 230 | 615     | 410 | 640      | 140 | 110             | 30 | 35 |    |
| GPR2-130  | 440             | 280 | 720     | 465 | 745      | 180 | 110             | 30 | 35 |    |
| GPR2-150  | 475             | 280 | 755     | 500 | 780      | 180 | 110             | 30 | 35 |    |
| GPR2-180  |                 | 280 |         | 555 | 835      | 180 | 110             |    | 50 |    |
| GPR2-220  |                 | 280 |         | 625 | 905      | 180 | 110             |    | 55 |    |
| GPR2-260  |                 | 335 |         | 705 | 1040     | 180 | 110             |    | 60 |    |

\* GPR2 With Oval flanges

\*\* GPR2 With DIN flanges

Pipework connection

DIN 2566 with threaded socket

DIN/2634/2635 with socket for welding

\* Oval flange base for pump models GPR2-20 to GPR2-150

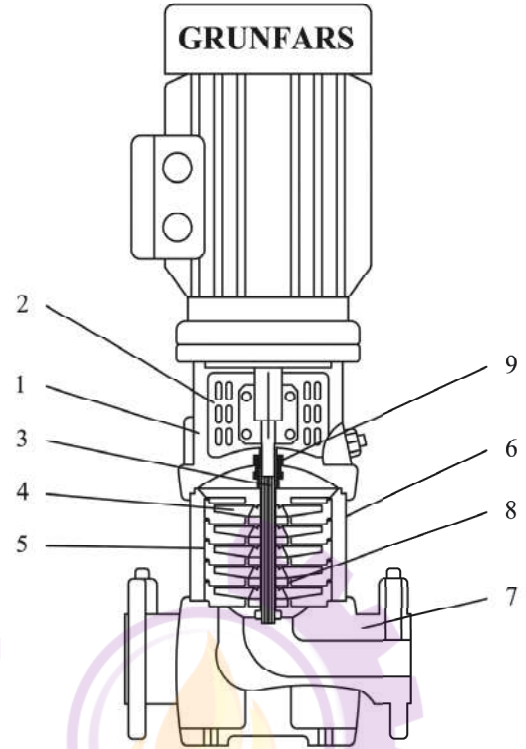
\*\* DIN flange base for pump models GPR2-20 to GPR2-260





## Materials GPR2 /GPR12/GPRN2

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

| pump type | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>η [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR2-20   | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR2-30   | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR2-40   | 0.55   | 0.75   | 1.44  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR2-50   | 0.55   | 0.75   | 1.44  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR2-60   | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR2-70   | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPK2-90   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR2-110  | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR2-130  | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR2-150  | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR2-180  | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR2-220  | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR2-260  | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |

## Single phase motors 1×240 v, 50HZ

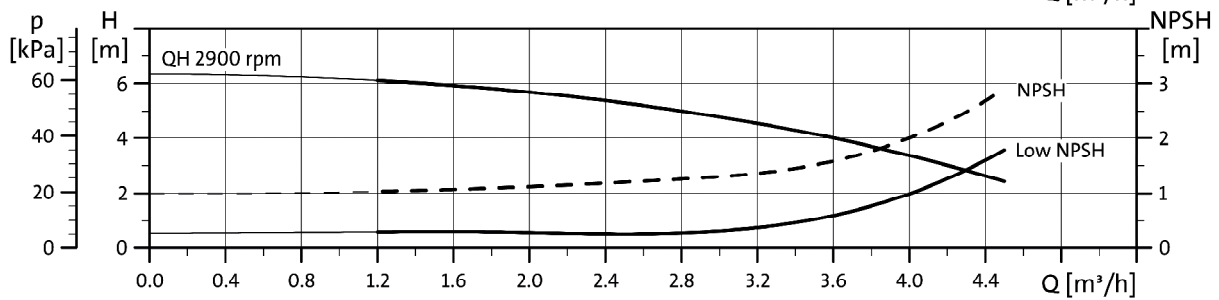
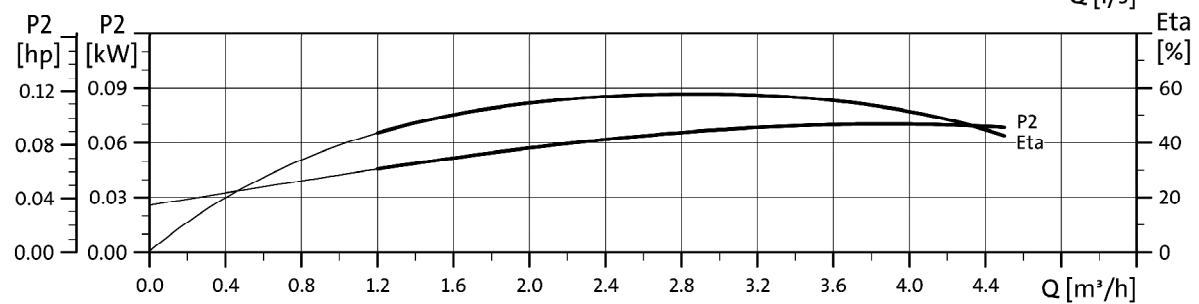
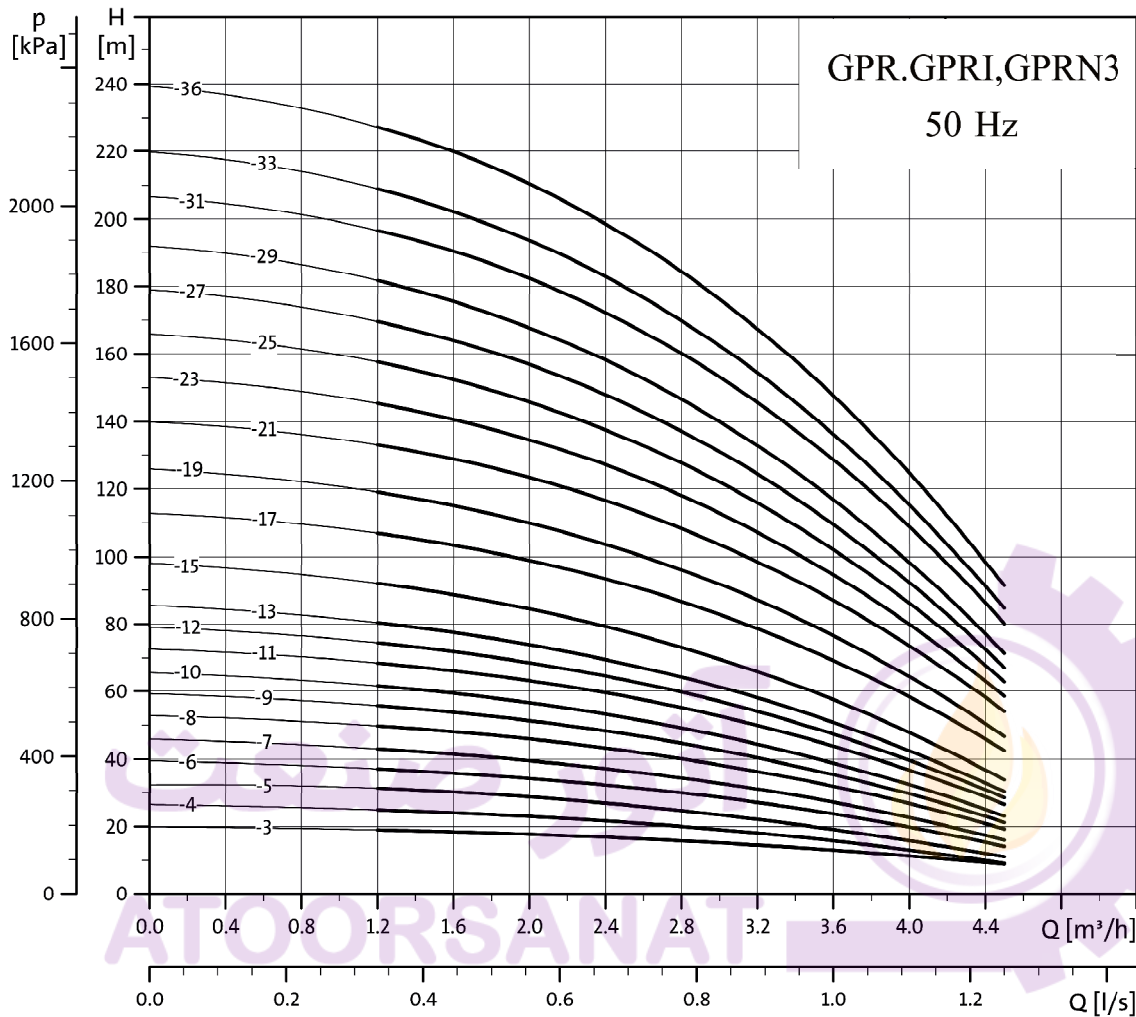
| Motor rating | Full load current amps | Locked Rotor Current Ratio |
|--------------|------------------------|----------------------------|
| 0.37 kw      | 3.8                    | 4.0                        |
| 0.55 kw      | 5.2                    | 4.2                        |
| 0.75 kw      | 6.2                    | 4.0                        |
| 1.1 kw       | 7.5                    | 5.2                        |
| 1.5 kw       | 9.5                    | 6.0                        |
| 2.2 kw       | 14.5                   | 5.0                        |

Motors : Enclosure clas IP55  
Standard 50HZ voltages available:  
3x220-240/380-415 V-motors up to 3kw  
3x380-415V-motors from 4kw and upwards  
1x240V-motors up to 2.2kw  
Motors for other voltages available on request  
All motors must be connected to a motor starter-  
in accordance with local regulations



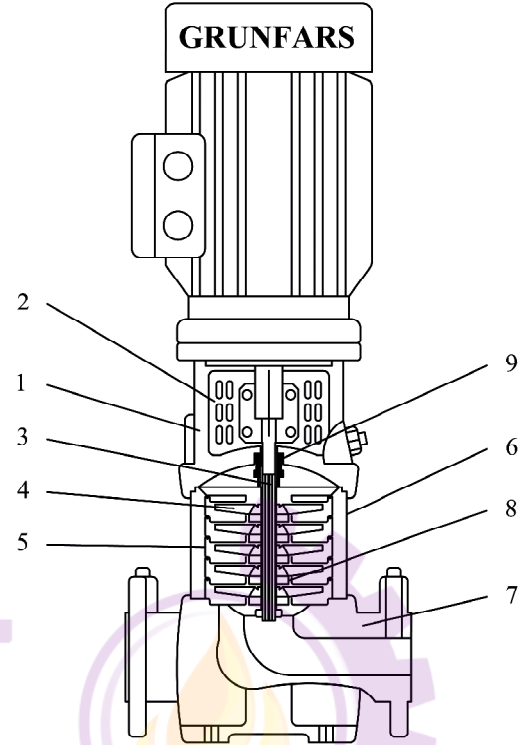


**Performance curves**



## Materials GPR /GPRI /GPRN3

| POS. NO. | Description          | Materials                           | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|-------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                     | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                     | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                     | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                     | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                     | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50         | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                              |                  |                      |
| 9        | shaft seal           | Tungsten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                 |                  |                      |



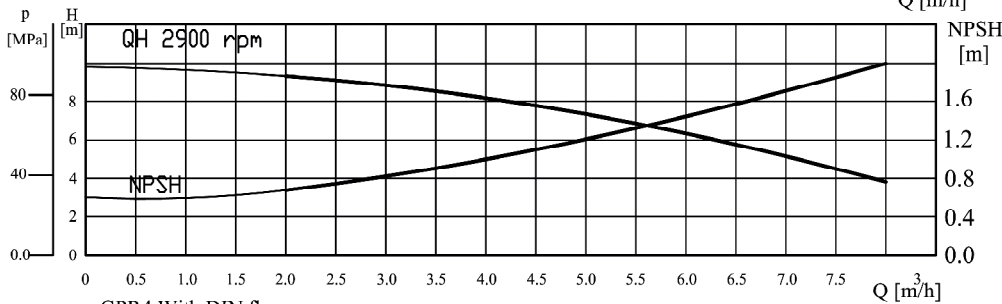
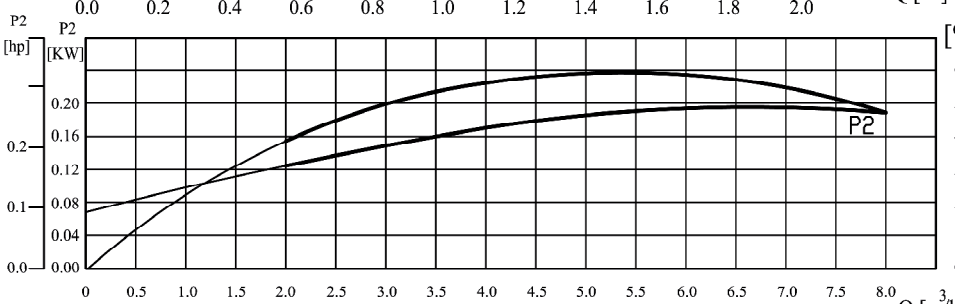
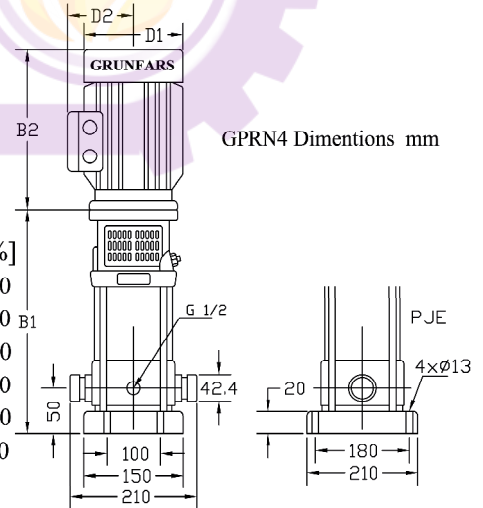
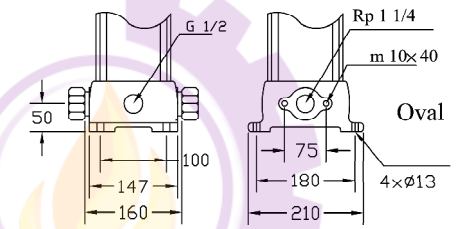
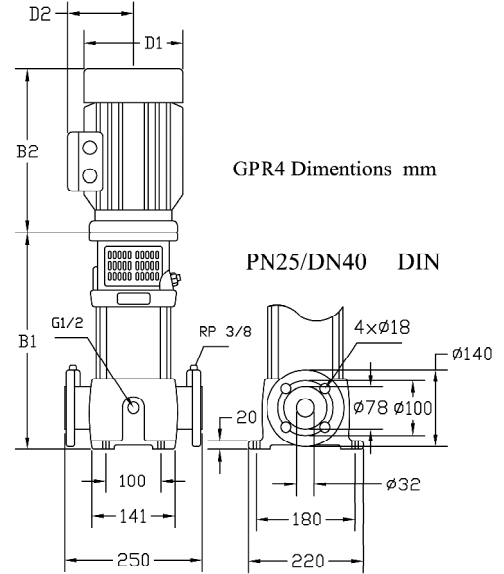
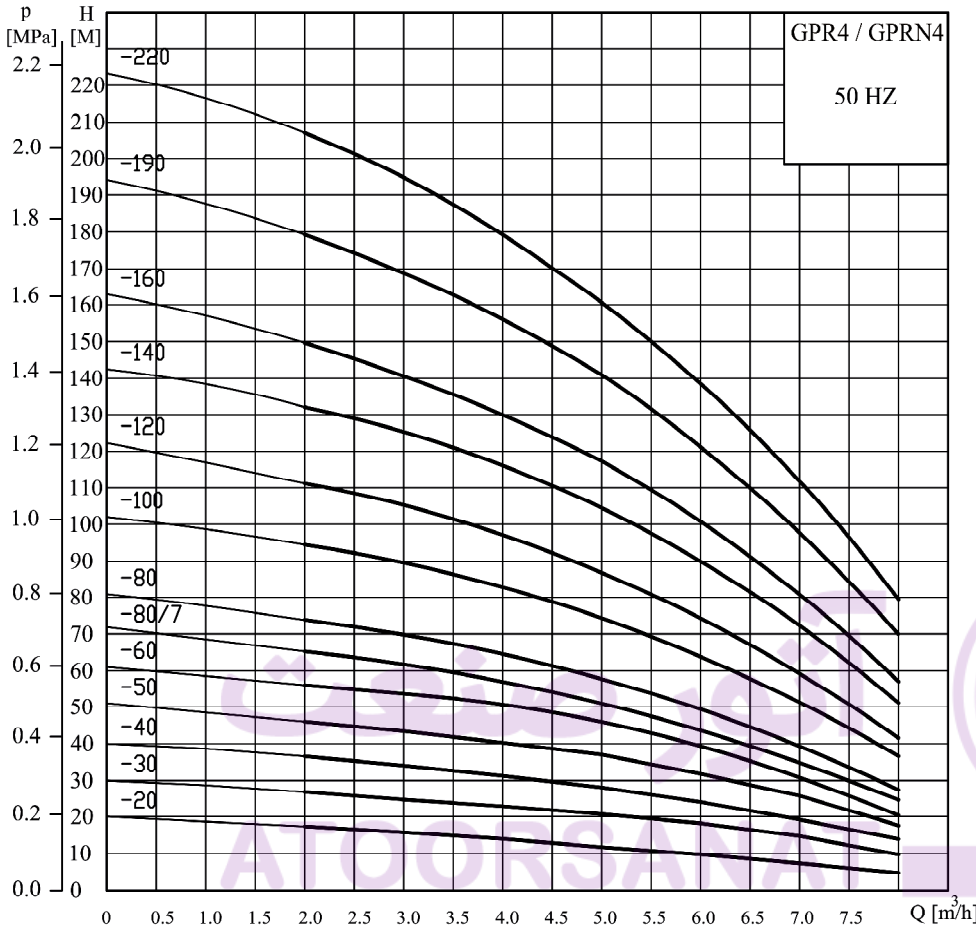
Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

| pump type | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>n [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR3-3    | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR3-4    | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR3-5    | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR3-6    | 0.55   | 0.75   | 1.44  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR3-7    | 0.55   | 0.75   | 1.44  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR3-8    | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR3-9    | 0.75   | 1.0    | 1.86  | 0.84-0.76                | 74                          | 5.0-5.5                     |
| GPR3-10   | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR3-11   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR3-12   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR3-13   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR3-15   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR3-17   | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR3-19   | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR3-21   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR3-23   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR3-25   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR3-27   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR3-29   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR3-31   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR3-33   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR3-36   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |



**GPR4 / GPRN4**



**Dimensions and weights**

| pump type | Dimensions [mm] |     |       |         |          |     |     |    | Net Weight [kg] |  |
|-----------|-----------------|-----|-------|---------|----------|-----|-----|----|-----------------|--|
|           | B1              | D2  | B1+B2 | * B1+B2 | ** B1+B2 | D1  | D2  | *  | **              |  |
| GPR4-20   | 235             | 190 | 425   | 260     | 450      | 140 | 110 | 20 | 25              |  |
| GPR4-30   | 265             | 190 | 455   | 290     | 480      | 140 | 110 | 20 | 25              |  |
| GPR4-40   | 295             | 230 | 525   | 320     | 550      | 140 | 110 | 20 | 25              |  |
| GPR4-50   | 325             | 230 | 555   | 350     | 580      | 140 | 110 | 20 | 25              |  |
| GPR4-60   | 350             | 230 | 580   | 375     | 605      | 140 | 110 | 20 | 25              |  |
| GPR4-80/7 | 420             | 280 | 700   | 445     | 720      | 180 | 125 | 25 | 30              |  |
| GPR4-80   | 420             | 280 | 700   | 445     | 725      | 180 | 110 | 25 | 30              |  |
| GPR4-100  | 475             | 280 | 755   | 500     | 780      | 180 | 110 | 30 | 35              |  |
| GPR4-120  | 530             | 280 | 810   | 555     | 835      | 180 | 110 | 30 | 35              |  |
| GPR4-140  | 645             | 335 | 980   | 670     | 1005     | 180 | 110 | 40 | 45              |  |
| GPR4-160  | 645             | 335 | 980   | 670     | 1005     | 180 | 110 | 40 | 45              |  |
| GPR4-190  |                 | 370 |       | 750     | 1080     | 180 | 135 |    | 60              |  |
| GPR4-220  |                 | 370 |       | 830     | 1200     | 180 | 135 |    | 65              |  |

\* GPR4 With DIN flanges  
\*\* GPR4 With Oval flanges

Pipework connection  
DIN 2566 with threaded socket  
DIN/2634/2635 with socket for welding

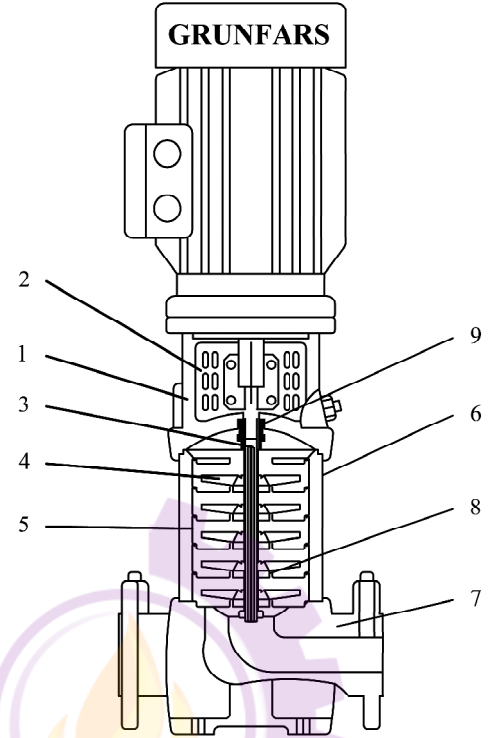
\* Oval flange base for pump models GPR4-20/1 to GPR4-160  
\*\* DIN flange base for pump models GPR4-20/1 to GPR4-220





## Materials GPR4 /GPRN4

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

| pump type   | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>n [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-------------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|             | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR4-20     | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-30     | 0.55   | 0.75   | 1.44  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-40     | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR4-50     | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-60     | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-80/7   | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-80     | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-100    | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-120    | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-160/14 | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR4-160    | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR4-190    | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR4-220    | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |

## Single phase motors 1× 240 v, 50HZ

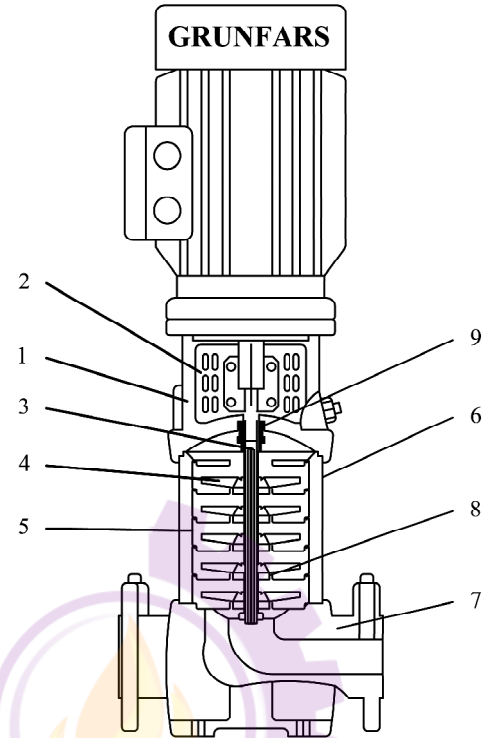
| Motor rating | Full load current amps | Locked Rotor Current Ratio |
|--------------|------------------------|----------------------------|
| 0.37 kw      | 3.8                    | 4.0                        |
| 0.55 kw      | 5.2                    | 4.2                        |
| 0.75 kw      | 6.2                    | 4.0                        |
| 1.1 kw       | 7.5                    | 5.2                        |
| 1.5 kw       | 9.5                    | 6.0                        |
| 2.2 kw       | 14.5                   | 5.0                        |

Motors : Enclosure clas IP55  
Standard 50HZ voltages available:  
3x220-240/380-415 V-motors up to 3kw  
3x380-415V-motors from 4kw and upwards  
1x240V-motors up to 2.2kw  
Motors for other voltages available on request  
All motors must be connected to a motor starter-  
in accordance with local regulations



## Materials GPR4 /GPRN4

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

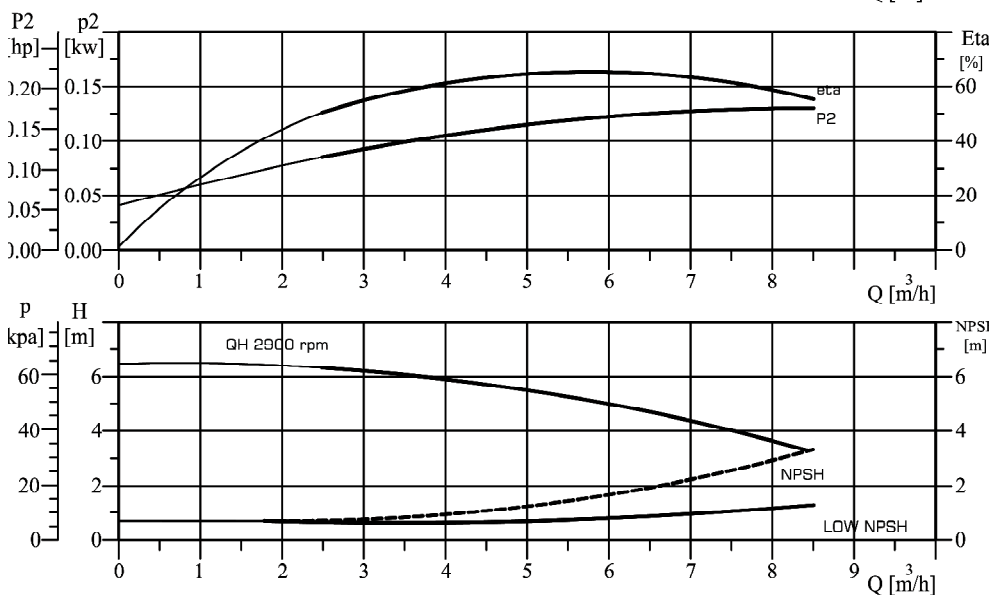
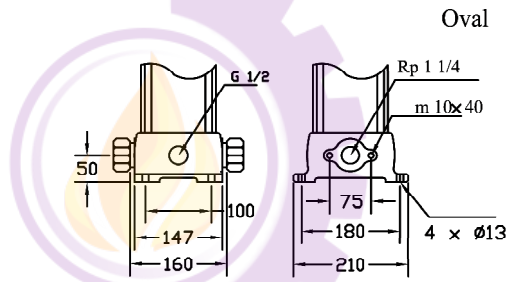
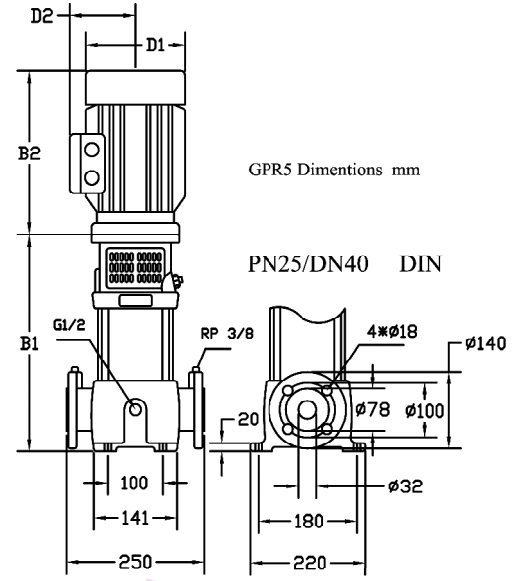
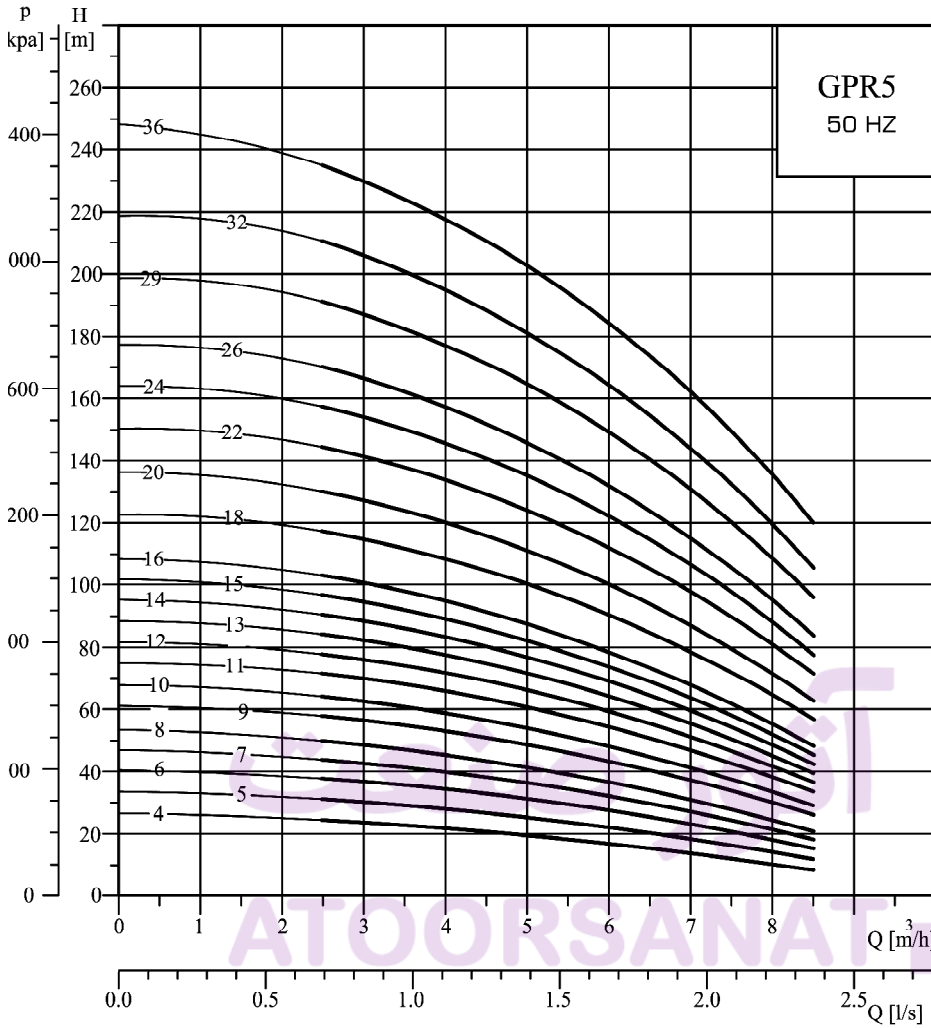
| pump type | Motor  |        | Full load current<br>I <sub>l</sub> /1 [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>η [ % ] | $\frac{I_{start}}{I_{l/1}}$ |
|-----------|--------|--------|--|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |  |                          |                             |                             |
| GPR4-20   | 0.37   | 0.5    | 0.96   | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-30   | 0.55   | 0.75   | 1.44   | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-40   | 0.75   | 1.0    | 1.86   | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR4-50   | 1.1    | 1.5    | 2.65   | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-60   | 1.1    | 1.5    | 2.65   | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-80/7 | 1.5    | 2.0    | 3.4  | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-80   | 1.5    | 2.0    | 3.4  | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-100  | 2.2    | 3.0    | 4.75   | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-120  | 2.2    | 3.0    | 4.75   | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-140  | 2.2    | 3.0    | 4.75   | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-160  | 3.0    | 4.0    | 6.25   | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR4-190  | 4.0    | 5.5    | 8.00   | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR4-220  | 4.0    | 5.5    | 8.00   | 0.90-0.87                | 87                          | 8.7-9.5                     |

## Single phase motors 1× 240 v, 50HZ

| Motor rating | Full load current amps | Locked Rotor Current Ratio |
|--------------|------------------------|----------------------------|
| 0.37 kw      | 3.8                    | 4.0                        |
| 0.55 kw      | 5.2                    | 4.2                        |
| 0.75 kw      | 6.2                    | 4.0                        |
| 1.1 kw       | 7.5                    | 5.2                        |
| 1.5 kw       | 9.5                    | 6.0                        |
| 2.2 kw       | 14.5                   | 5.0                        |

Motors : Enclosure clas IP55  
Standard 50HZ voltages available:  
3x220-240/380-415 V-motors up to 3kw  
3x380-415V-motors from 4kw and upwards  
1x240V-motors up to 2.2kw  
Motors for other voltages available on request  
All motors must be connected to a motor starter-  
in accordance with local regulations

**GPR5/GPRN5**



Dimensions and weights

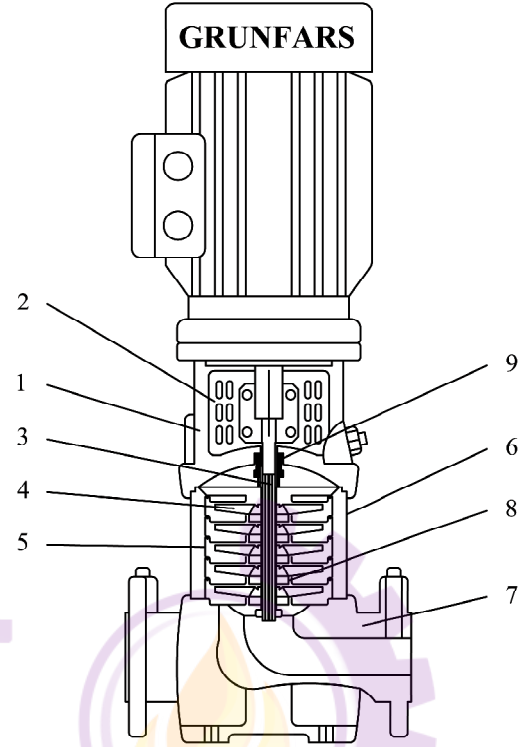
| pump type | Dimensions [mm] |     |       |      |       |     | Net Weight [kg] |      |      |
|-----------|-----------------|-----|-------|------|-------|-----|-----------------|------|------|
|           | B1              | B2  | B1+B2 | B1   | B1+B2 | D1  | D2              | *    | **   |
| GPR5-4    | 310             | 191 | 501   | 335  | 526   | 141 | 109             | 19.7 | 23.8 |
| GPR5-5    | 341             | 231 | 572   | 366  | 597   | 141 | 109             | 22.6 | 26.7 |
| GPR5-6    | 368             | 231 | 599   | 393  | 624   | 141 | 109             | 24.6 | 28.7 |
| GPR5-7    | 395             | 231 | 626   | 420  | 651   | 141 | 109             | 25.3 | 29.4 |
| GPR5-8    | 422             | 231 | 653   | 447  | 678   | 141 | 109             | 26.1 | 30.2 |
| GPR5-9    | 465             | 281 | 746   | 490  | 771   | 178 | 110             | 32.4 | 36.5 |
| GPR5-10   | 492             | 281 | 773   | 517  | 798   | 178 | 110             | 32.8 | 36.9 |
| GPR5-11   | 519             | 281 | 800   | 544  | 825   | 178 | 110             | 35.1 | 39.2 |
| GPR5-12   | 546             | 281 | 827   | 571  | 852   | 178 | 110             | 35.5 | 39.6 |
| GPR5-13   | 573             | 281 | 854   | 598  | 879   | 178 | 110             | 36.1 | 40.2 |
| GPR5-14   | 600             | 281 | 881   | 625  | 906   | 178 | 110             | 36.8 | 40.9 |
| GPR5-15   | 627             | 281 | 908   | 652  | 933   | 178 | 110             | 37.4 | 41.5 |
| GPR5-16   | 654             | 281 | 935   | 679  | 960   | 178 | 110             | 38.0 | 42.1 |
| GPR5-18   | 712             | 335 | 1047  | 737  | 1072  | 178 | 110             | 44.8 | 48.9 |
| GPR5-20   | 766             | 335 | 1101  | 791  | 1126  | 178 | 110             | 46.1 | 50.2 |
| GPR5-22   | 820             | 372 | 1192  | 845  | 1217  | 220 | 134             | 55.8 | 59.9 |
| GPR5-24   | -               | 372 | -     | 899  | 1271  | 220 | 134             | -    | 62.0 |
| GPR5-26   | -               | 372 | -     | 953  | 1325  | 220 | 134             | -    | 63.3 |
| GPR5-29   | -               | 372 | -     | 1034 | 1406  | 220 | 134             | -    | 65.2 |
| GPR5-32   | -               | 391 | -     | 1145 | 1536  | 220 | 134             | -    | 80.0 |
| GPR5-36   | -               | 391 | -     | 1253 | 1644  | 220 | 134             | -    | 82.6 |

\* GPR5 With Oval flanges  
 \*\* GPRG With DIN flanges  
 Pipework connection  
 DIN 2566 with threaded socket  
 DIN/2634/2635 with socket for welding  
 \* Oval flange base for pump modes GPR5-4to GPR5-22  
 \*\* DIN flange base for pump modes GPR5-4 to GPR5-36



## Materials GPR5/GPRN5

| POS. NO. | Description          | Materials                           | DIN W.-NO        | AISI/ASTM            |
|----------|----------------------|-------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                     | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                     | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                     | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                     | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                     | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50         | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                              |                  |                      |
| 9        | shaft seal           | Tungsten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                 |                  |                      |

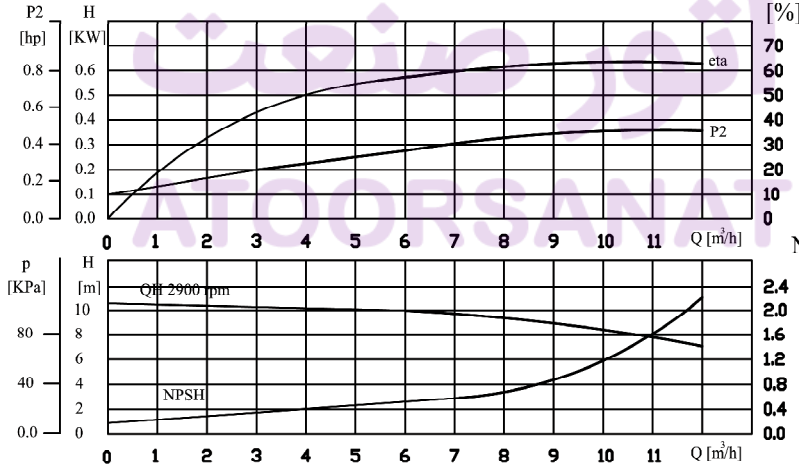
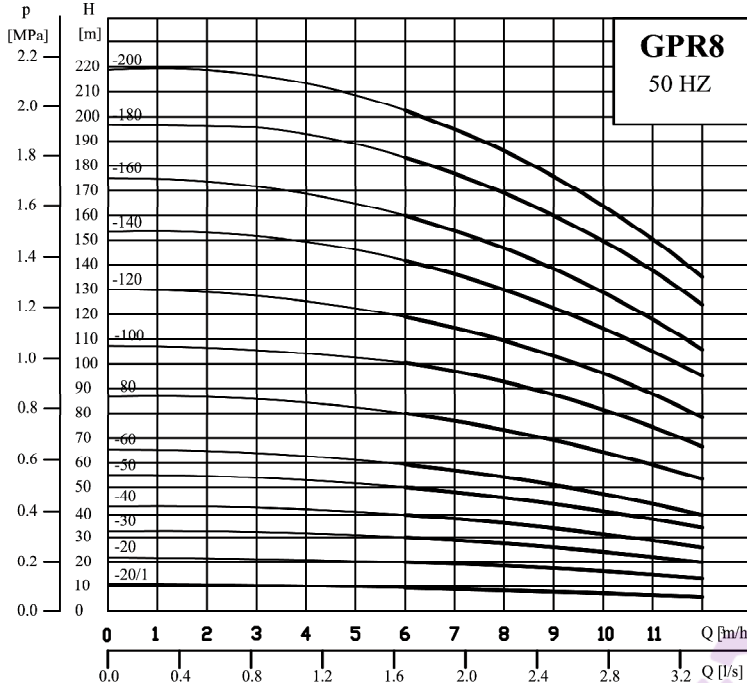


Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

| pump type | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>η [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR5-4    | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR5-5    | 0.75   | 1.0    | 1.86  | 0.84-0.76                | 74                          | 5.0-5.5                     |
| GPR5-6    | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR5-7    | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR5-8    | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR5-9    | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR5-10   | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR5-11   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR5-12   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR5-13   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR5-14   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR5-15   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR5-16   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR5-18   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR5-20   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR5-22   | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR5-24   | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR5-26   | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR5-29   | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR5-32   | 5.5    | 7.5    | 11.0  | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR5-36   | 5.5    | 7.5    | 11.0  | 0.89-0.86                | 88.5                        | 8.9-9.7                     |

## GPR8/GPRN8



Dimensions and weights

| pump type | DIMENSIONS [mm] |     |       |     |     |     | Net Weight [kg] |    |
|-----------|-----------------|-----|-------|-----|-----|-----|-----------------|----|
|           | B1              | B2  | B1+B2 | D1  | D2  | D3  | *               | ** |
| GPR8-20/1 | 355             | 190 | 525   | 140 | 110 |     | 30              | 35 |
| GPR8-20   | 340             | 230 | 570   | 140 | 110 |     | 30              | 35 |
| GPR8-30   | 370             | 230 | 600   | 140 | 110 |     | 30              | 35 |
| GPR8-40   | 415             | 280 | 695   | 180 | 110 |     | 40              | 45 |
| GPR8-50   | 445             | 280 | 725   | 180 | 110 |     | 45              | 50 |
| GPR8-60   | 475             | 280 | 755   | 180 | 110 |     | 45              | 50 |
| GPR8-80   | 540             | 335 | 875   | 180 | 110 |     | 50              | 55 |
| GPR8-100  | 600             | 370 | 970   | 180 | 135 |     | 50              | 55 |
| GPR8-120  | 660             | 370 | 1030  | 180 | 135 |     | 55              | 60 |
| GPR8-140  | 740             | 390 | 1130  | 220 | 135 | 300 |                 | 85 |
| GPR8-160  | 800             | 390 | 1190  | 220 | 135 | 300 |                 | 85 |
| GPR8-180  | 860             | 390 | 1250  | 220 | 135 | 300 |                 | 90 |
| GPR8-200  | 920             | 390 | 1310  | 220 | 135 | 300 |                 | 90 |

\* GPR8 With Oval flanges

\*\* GPR8 With DIN flanges

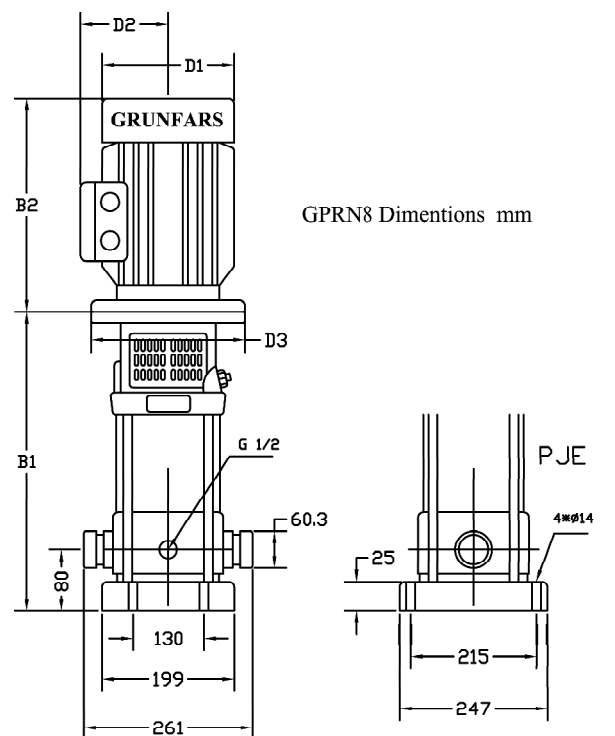
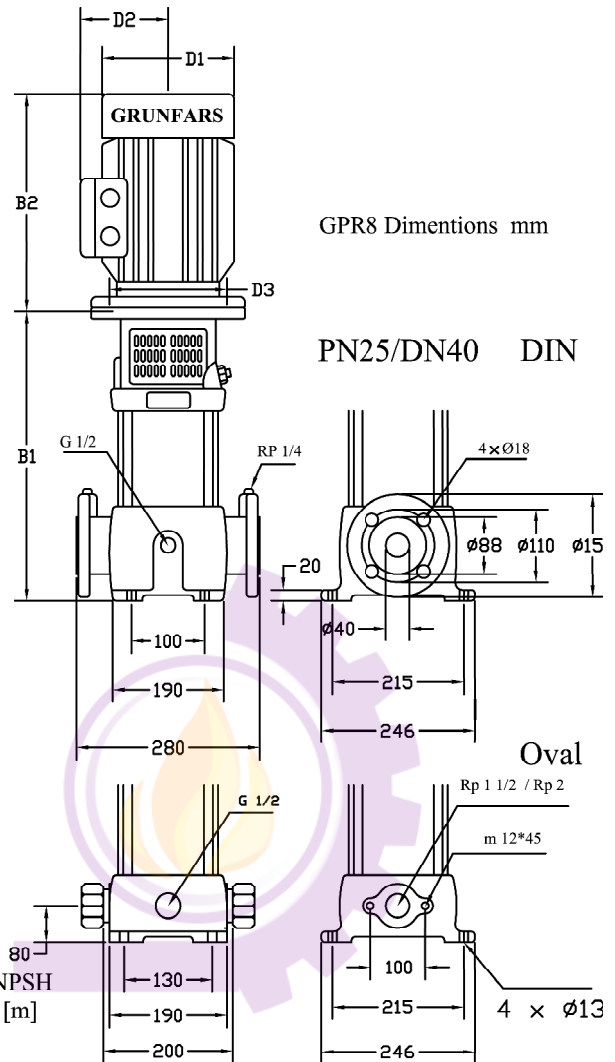
Pipework connection

DIN 2566 with threaded socket

DIN/2634/2635 with socket for welding

\* Oval flange base for pump models GPR8-20/1 to GPR8-80

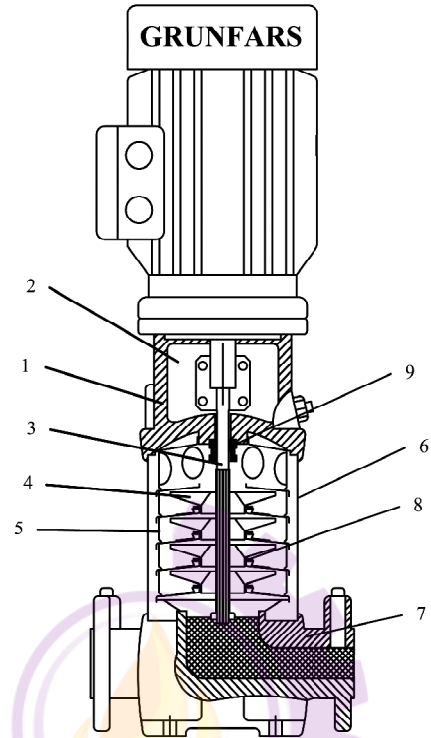
\*\* DIN flange base for pump models GPR8-80 to GPR8-200





## Materials GPR8/GPRN8

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

3 X 380-415 V , 50 HZ

| pump type | Motor  |        | Full load current<br>I 1/1 [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>n [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|----------------------------------|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |                                  |                          |                             |                             |
| GPR8-20/1 | 0.37   | 0.5    | 0.96                             | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR8-20   | 0.75   | 1.0    | 1.86                             | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR8-30   | 1.1    | 1.5    | 2.65                             | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR8-40   | 1.5    | 2.0    | 3.4                              | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR8-50   | 2.2    | 3.0    | 4.75                             | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR8-60   | 2.2    | 3.0    | 4.75                             | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR8-80   | 3.0    | 4.0    | 6.25                             | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR8-100  | 4.0    | 5.5    | 8.00                             | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR8-120  | 4.0    | 5.5    | 8.00                             | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR8-140  | 5.5    | 7.5    | 11.0                             | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR8-160  | 5.5    | 7.5    | 11.0                             | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR8-180  | 7.5    | 10     | 15.2                             | 0.87-0.81                | 89                          | 9.1-9.9                     |
| GPR8-200  | 7.5    | 10     | 15.2                             | 0.87-0.81                | 89                          | 9.1-9.9                     |

## Single phase motors 1x 240 v, 50HZ

| Motor rating | Full load current amps | Locked Rotor Current Ratio |
|--------------|------------------------|----------------------------|
| 0.37 kw      | 3.8                    | 4.0                        |
| 0.55 kw      | 5.2                    | 4.2                        |
| 0.75 kw      | 6.2                    | 4.0                        |
| 1.1 kw       | 7.5                    | 5.2                        |
| 1.5 kw       | 9.5                    | 6.0                        |
| 2.2 kw       | 14.5                   | 5.0                        |

Motors : Enclosure clas IP55

Standard 50HZ voltages available:

3x220-240/380-415 V-motors up to 3kw

3x380-415V-motors from 4kw and upwards

1x240V-motors up to 2.2kw

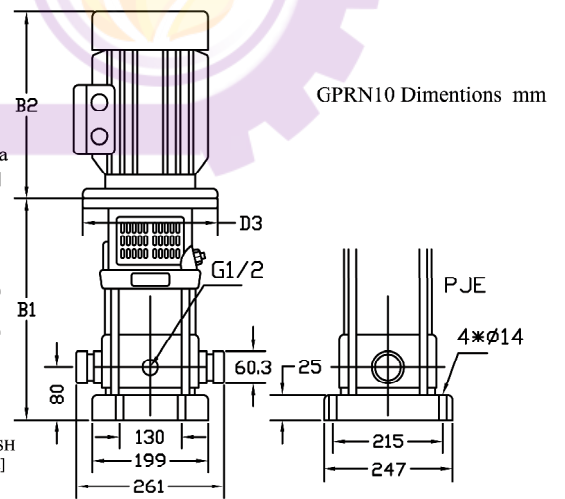
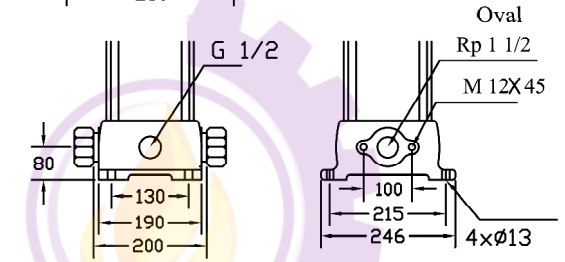
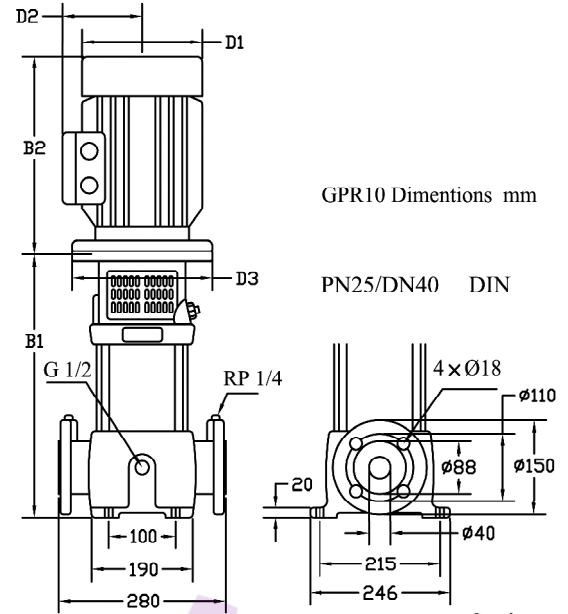
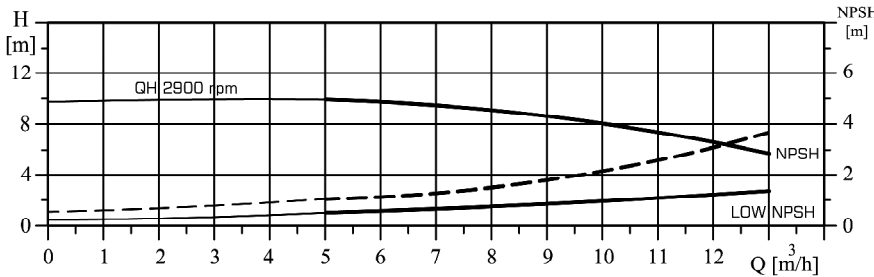
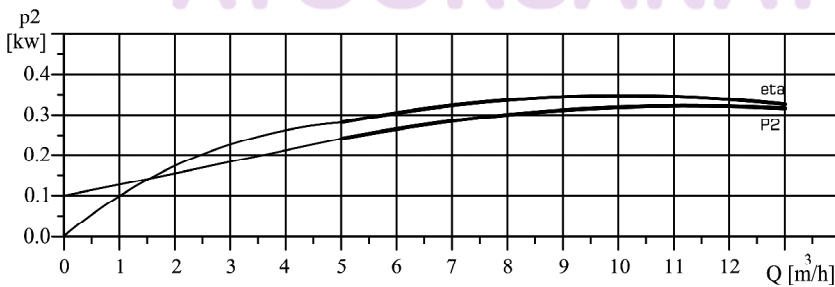
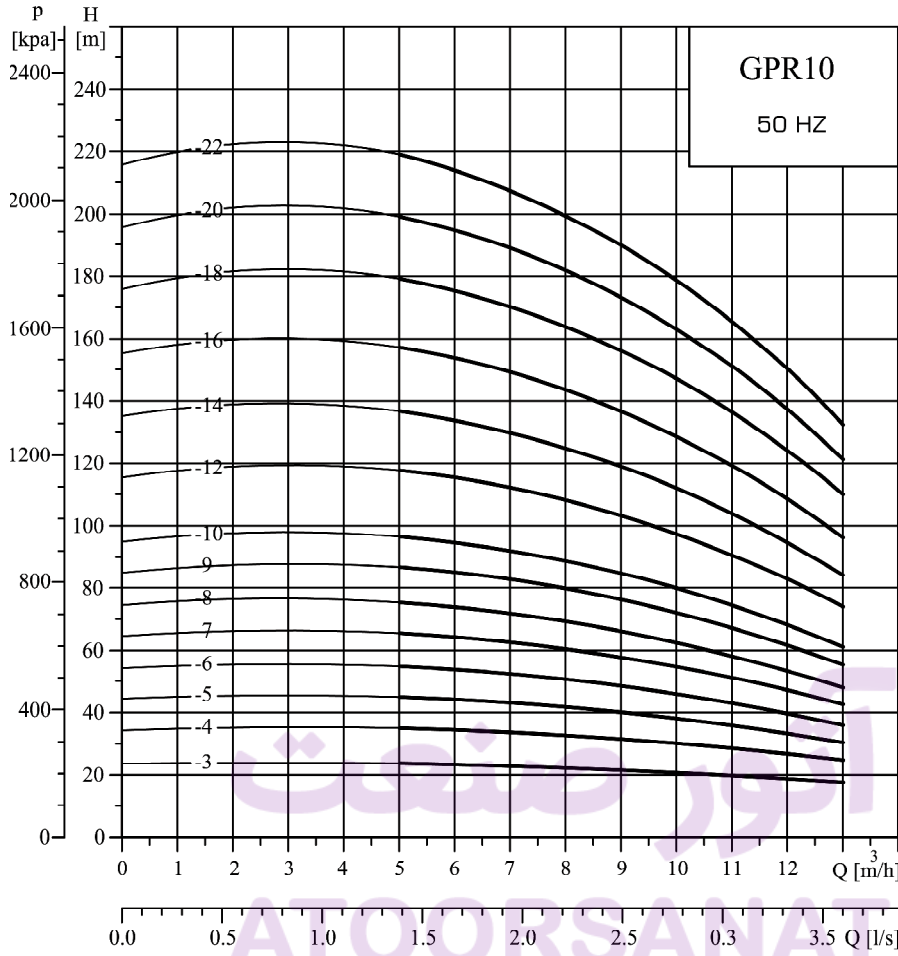
Motors for other voltages available on request

All motors must be connected to a motor starter-  
in accordance with local regulations





**GPR10/GPRN10**



Dimentions and weights

| pump type | Dimentions [mm] |     |         |       |          |     |     |     | Net Weight [kg] |     |
|-----------|-----------------|-----|---------|-------|----------|-----|-----|-----|-----------------|-----|
|           | * B1            | B2  | * B1+B2 | ** B1 | ** B1+B2 | D1  | D2  | D3  | *               | **  |
| GPR10-3   | 423             | 231 | 654     | 423   | 654      | 141 | 110 | -   | 37              | 40  |
| GPR10-4   | 423             | 231 | 704     | 423   | 704      | 178 | 110 | -   | 43              | 46  |
| GPR10-5   | 453             | 281 | 734     | 453   | 734      | 178 | 110 | -   | 46              | 49  |
| GPR10-6   | 483             | 281 | 764     | 483   | 764      | 178 | 110 | -   | 47              | 50  |
| GPR10-7   | 518             | 335 | 853     | 518   | 853      | 178 | 110 | -   | 52              | 55  |
| GPR10-8   | 548             | 335 | 883     | 548   | 883      | 178 | 110 | -   | 53              | 56  |
| GPR10-9   | 578             | 372 | 950     | 578   | 950      | 220 | 134 | -   | 65              | 68  |
| GPR10-10  | 608             | 372 | 980     | 608   | 980      | 220 | 134 | -   | 65              | 68  |
| GPR10-12  | 668             | 372 | 1040    | 668   | 1040     | 220 | 134 | -   | 67              | 70  |
| GPR10-14  | 760             | 391 | 1151    | 760   | 1151     | 220 | 134 | 300 | 90              | 93  |
| GPR10-16  | 820             | 391 | 1211    | 820   | 1211     | 220 | 134 | 300 | 92              | 95  |
| GPR10-18  | -               | -   | -       | 880   | 1271     | 220 | 134 | 300 | -               | 100 |
| GPR10-20  | -               | -   | -       | 940   | 1331     | 220 | 134 | 300 | -               | 103 |
| GPR10-22  | -               | -   | -       | 1000  | 1391     | 220 | 134 | 300 | -               | 105 |

\* GPR10 With Oval flanges

\*\* GPR10 With DIN flanges

Pipework connection

DIN 2566 with threaded socket

DIN/2634/2635 with socket for welding

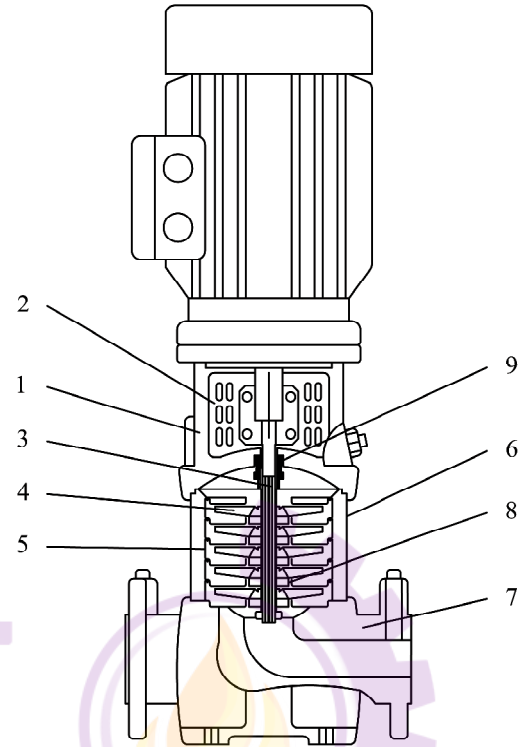
\* Oval flange base for pump modes GPR10-3 to GPR10-16

\*\* DIN flange base for pump modes GPR10-3 to GPR10-22



## Materials GPR10/GPRN10

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |

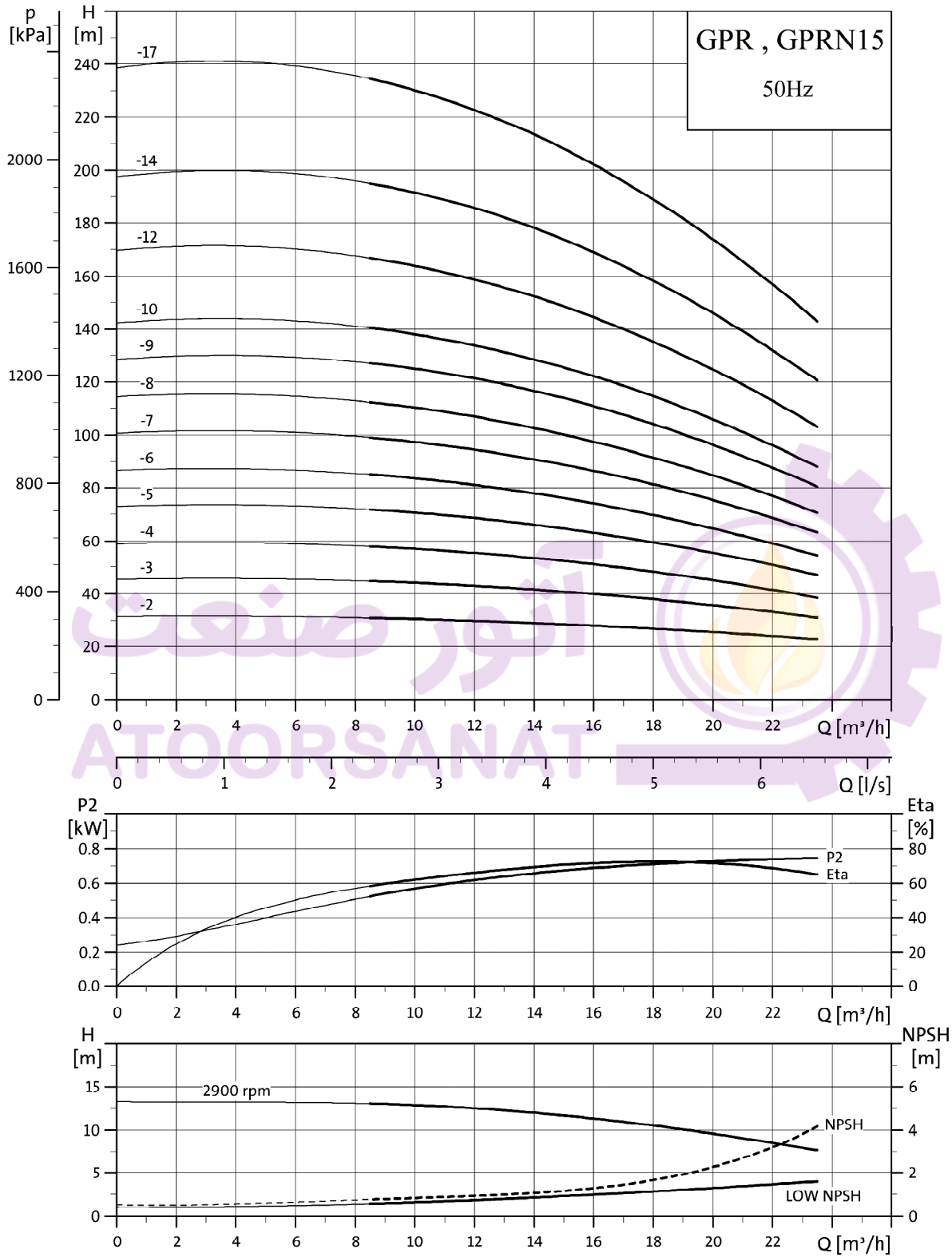


Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

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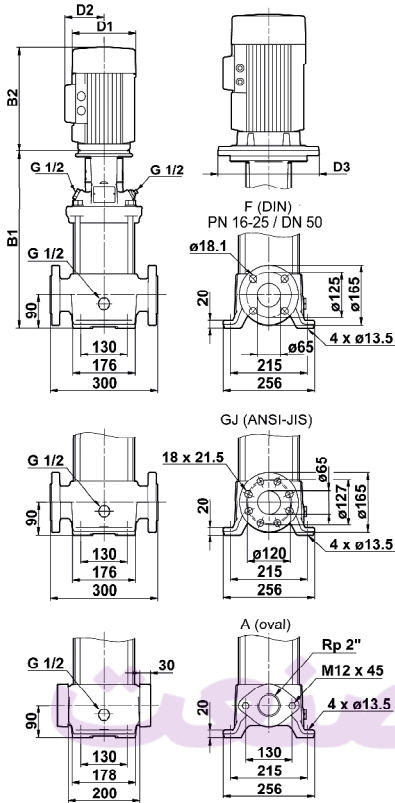
## Electrical Data

| pump type | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>n [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR10-3   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR10-4   | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR10-5   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR10-6   | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR10-7   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR10-8   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR10-9   | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR10-10  | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR10-12  | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR10-14  | 5.5    | 7.5    | 11.0  | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR10-16  | 5.5    | 7.5    | 11.0  | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR10-18  | 7.5    | 10     | 15.2  | 0.87-0.81                | 89                          | 9.1-9.9                     |
| GPR10-20  | 7.5    | 10     | 15.2  | 0.87-0.81                | 89                          | 9.1-9.9                     |
| GPR10-22  | 7.5    | 10     | 15.2  | 0.87-0.81                | 89                          | 9.1-9.9                     |





## Dimensional sketches



## Dimensions and weights

| Pump type | Dimensions [mm] |       |            |       |     |     | Net weight [kg] |             |            |
|-----------|-----------------|-------|------------|-------|-----|-----|-----------------|-------------|------------|
|           | Oval flange     |       | DIN flange |       | D1  | D2  | D3              | Oval flange | DIN flange |
|           | B1              | B1+B2 | B1         | B1+B2 |     |     |                 | Oval        | DIN        |
| GPR15-2   | 415             | 750   | 415        | 750   | 178 | 110 | -               | 53.0        | 54.0       |
| GPR15-3   | 465             | 837   | 465        | 837   | 220 | 134 | -               | 65.0        | 66.0       |
| GPR15-4   | 510             | 882   | 510        | 882   | 220 | 134 | -               | 66.0        | 66.0       |
| GPR15-5   | 555             | 946   | 555        | 946   | 220 | 134 | 300             | 76.1        | 77.1       |
| GPR15-6   | 632             | 1023  | 632        | 1023  | 220 | 134 | 300             | 89.0        | 90.0       |
| GPR15-7   | 677             | 1068  | 677        | 1068  | 220 | 134 | 300             | 93.9        | 94.9       |
| GPR15-8   | -               | -     | 722        | 1113  | 220 | 134 | 300             | -           | 95.0       |
| GPR15-9   | -               | -     | 767        | 1231  | 260 | 172 | 352             | -           | 122.0      |
| GPR15-10  | -               | -     | 889        | 1353  | 260 | 172 | 352             | -           | 129.0      |
| GPR15-12  | -               | -     | 979        | 1443  | 260 | 172 | 352             | -           | 13.0       |
| GPR15-14  | -               | -     | 1069       | 1547  | 306 | 197 | 352             | -           | 150.0      |
| GPR15-17  | -               | -     | 1204       | 1682  | 306 | 197 | 352             | -           | 155.0      |

## Electrical data

3 x 380-415 V, 50 Hz

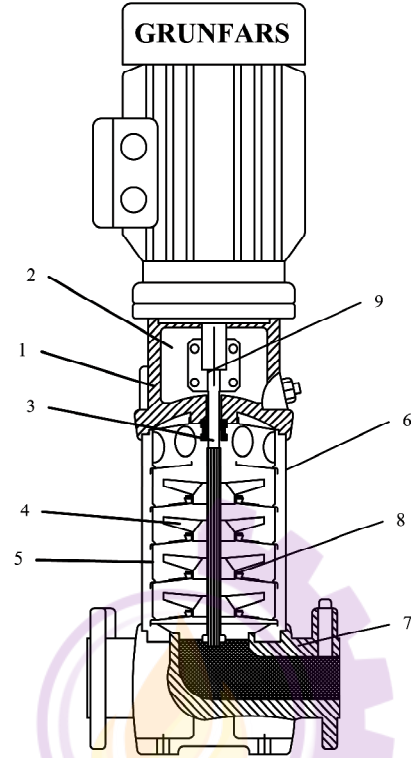
| Pump type | Motor P <sub>2</sub> [kW] | Full load current I <sub>1/1</sub> [A] | Power factor Cos $\phi$ 1/1 | Motor efficiency $\eta$ [%] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|---------------------------|--|-----------------------------|-----------------------------|-----------------------------|
| GPR15-2   | 3.0                       | 6.25                                   | 0.88-0.82                   | 86.0-86.0                   | 7.8-8.5                     |
| GPR15-3   | 4.0                       | 8.00                                   | 0.90-0.87                   | 87.0-87.0                   | 8.7-9.5                     |
| GPR15-4   | 4.0                       | 8.00                                   | 0.90-0.87                   | 87.0-87.0                   | 8.7-9.5                     |
| GPR15-5   | 5.5                       | 11.0                                   | 0.89-0.86                   | 87.5-87.5                   | 8.9-9.7                     |
| GPR15-6   | 5.5                       | 11.0                                   | 0.89-0.86                   | 87.5-87.5                   | 8.9-9.7                     |
| GPR15-7   | 7.5                       | 15.2                                   | 0.87-0.81                   | 88.0-88.0                   | 9.1-9.9                     |
| GPR15-8   | 7.5                       | 15.2                                   | 0.87-0.81                   | 88.0-88.0                   | 9.1-9.9                     |
| GPR15-9   | 11.0                      | 21.5                                   | 0.91-0.87                   | 90.0-90.0                   | 7.3-8.0                     |
| GPR15-10  | 11.0                      | 21.5                                   | 0.91-0.87                   | 90.0-90.0                   | 7.3-8.0                     |
| GPR15-12  | 11.0                      | 21.5                                   | 0.91-0.87                   | 90.0-90.0                   | 7.3-8.0                     |
| GPR15-14  | 15.0                      | 28.7                                   | 0.87                        | 90.0                        | 6.0                         |
| GPR15-17  | 15.0                      | 28.7                                   | 0.87                        | 90.0                        | 6.0                         |





## Materials GPR16/GPRN16

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data 3 X 380-415 V , 50 HZ

| pump type  | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>η [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|------------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|            | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR16-30/2 | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.6                     |
| GPR16-30   | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR16-40   | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR16-50   | 5.5    | 7.5    | 11.0  | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR16-60   | 5.5    | 7.5    | 11.0  | 0.89-0.86                | 88.5                        | 8.9-9.7                     |
| GPR16-70   | 7.5    | 10     | 15.2  | 0.87-0.81                | 89                          | 9.1-9.9                     |
| GPR16-80   | 7.5    | 10     | 15.2  | 0.87-0.81                | 89                          | 9.1-9.9                     |
| GPR16-100  | 11     | 15     | 21.5  | 0.91-0.87                | 85                          | 7.3-8.0                     |
| GPR16-120  | 11     | 15     | 21.5  | 0.91-0.87                | 85                          | 7.3-8.0                     |
| GPR16-140  | 15     | 20     | 29.4-27.1                                   | 0.88                     | 88.2-87.9                   | 7.0-7.8                     |
| GPR16-160  | 15     | 20     | 29.4-27.1                                   | 0.88                     | 88.2-87.9                   | 7.0-7.8                     |

Motors : Enclosure clas IP55

Standard 50HZ voltages available:

3x220-240/380-415 V-motors up to 3kw

3x380-415V-motors from 4kw and upwards

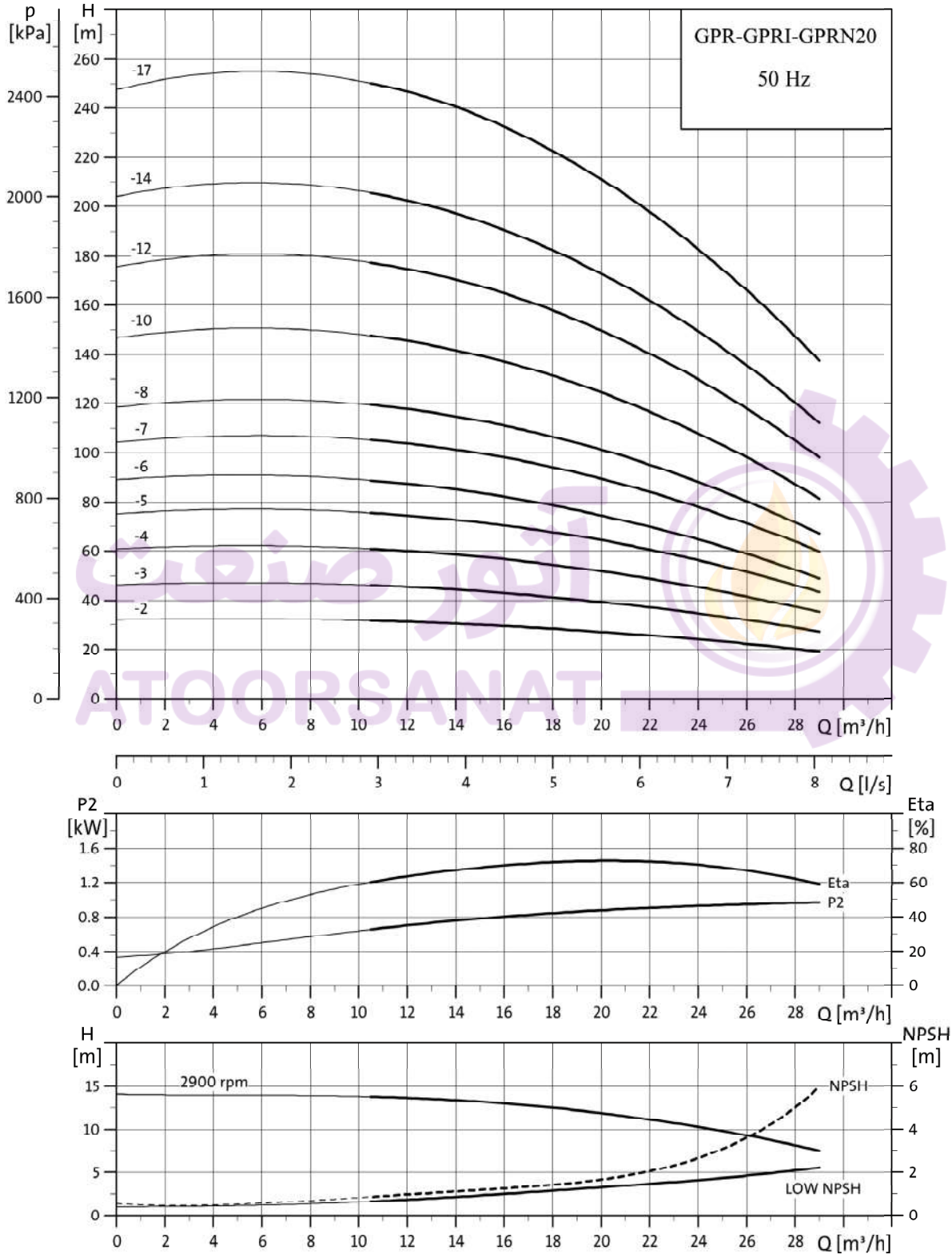
1x240V-motors up to 2.2kw

Motors for other voltages available on request

All motors must be connected to a motor starter-  
in accordance with local regulations

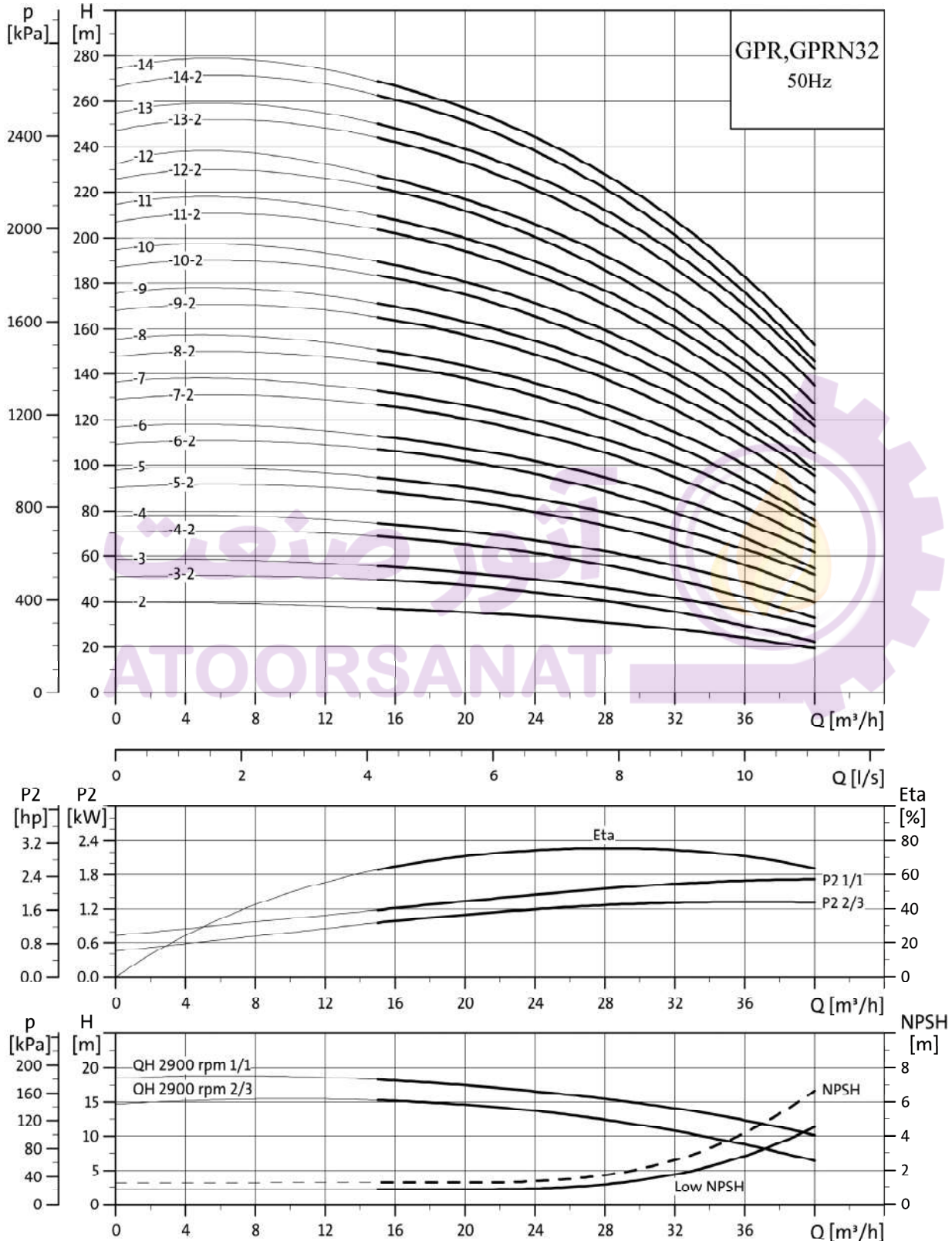


## Performance curves



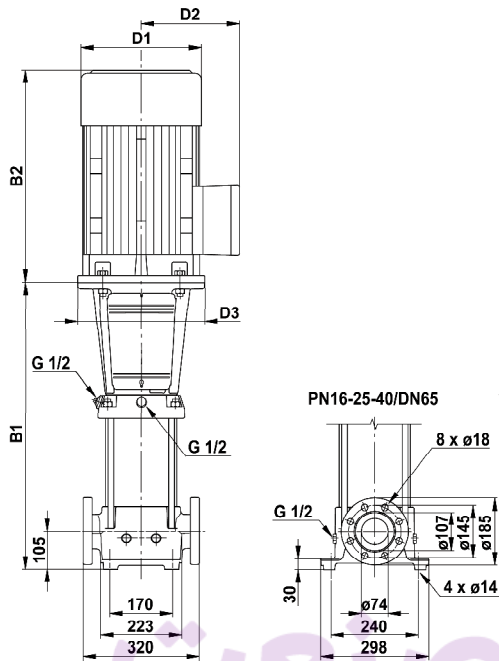


## Performance curves





## Dimensional sketches



## Dimensions and weights

| Pump type   | Dimensions [mm] |     |         |     |     |     | Net weight [kg] |
|-------------|-----------------|-----|---------|-----|-----|-----|-----------------|
|             | B1              | B2  | B1 + B2 | D1  | D2  | D3  |                 |
| GPR 32-2    | 575             | 372 | 947     | 220 | 134 | 158 | 98              |
| GPR 32-3-2  | 645             | 391 | 1036    | 220 | 134 | 298 | 107             |
| GPR 32-3    | 645             | 391 | 1036    | 220 | 134 | 298 | 107             |
| GPR 32-4-2  | 715             | 391 | 1106    | 220 | 134 | 298 | 115             |
| GPR 32-4    | 715             | 391 | 1106    | 220 | 134 | 298 | 115             |
| GPR 32-5-2  | 895             | 464 | 1359    | 260 | 172 | 350 | 156             |
| GPR 32-5    | 895             | 464 | 1359    | 260 | 172 | 350 | 156             |
| GPR 32-6-2  | 965             | 464 | 1429    | 260 | 172 | 350 | 160             |
| GPR 32-6    | 965             | 464 | 1429    | 260 | 172 | 350 | 160             |
| GPR 32-7-2  | 1035            | 478 | 1513    | 306 | 197 | 350 | 197             |
| GPR 32-7    | 1035            | 478 | 1513    | 306 | 197 | 350 | 197             |
| GPR 32-8-2  | 1105            | 478 | 1583    | 306 | 197 | 350 | 201             |
| GPR 32-8    | 1105            | 478 | 1583    | 306 | 197 | 350 | 201             |
| GPR 32-9-2  | 1175            | 478 | 1653    | 306 | 197 | 350 | 215             |
| GPR 32-9    | 1175            | 478 | 1653    | 306 | 197 | 350 | 215             |
| GPR 32-10-2 | 1245            | 478 | 1723    | 306 | 197 | 350 | 219             |
| GPR 32-10   | 1245            | 478 | 1723    | 306 | 197 | 350 | 219             |
| GPR 32-11-2 | 1315            | 600 | 1915    | 364 | 269 | 350 | 276             |
| GPR 32-11   | 1315            | 600 | 1915    | 364 | 269 | 350 | 276             |
| GPR 32-12-2 | 1385            | 600 | 1985    | 364 | 269 | 350 | 280             |
| GPR 32-12   | 1385            | 600 | 1985    | 364 | 269 | 350 | 280             |
| GPR 32-13-2 | 1455            | 667 | 2122    | 404 | 306 | 400 | 362             |
| GPR 32-13   | 1455            | 667 | 2122    | 404 | 306 | 400 | 362             |
| GPR 32-14-2 | 1525            | 667 | 2192    | 404 | 306 | 400 | 366             |
| GPR 32-14   | 1525            | 667 | 2192    | 404 | 306 | 400 | 366             |

## Electrical data

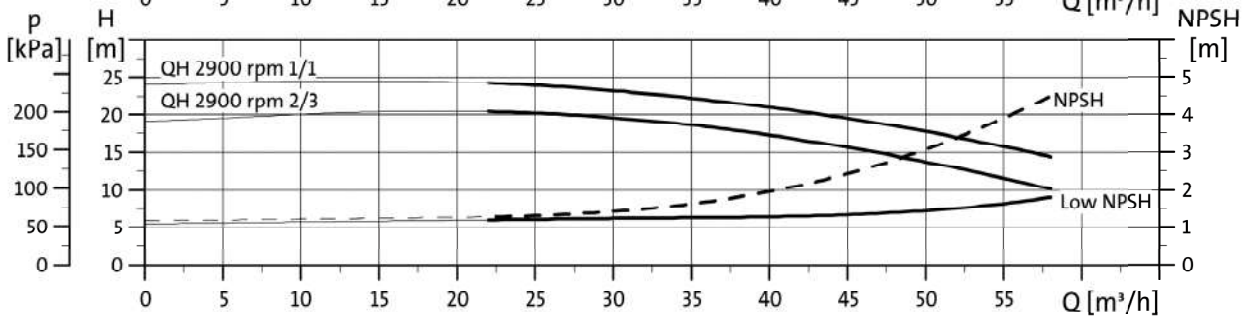
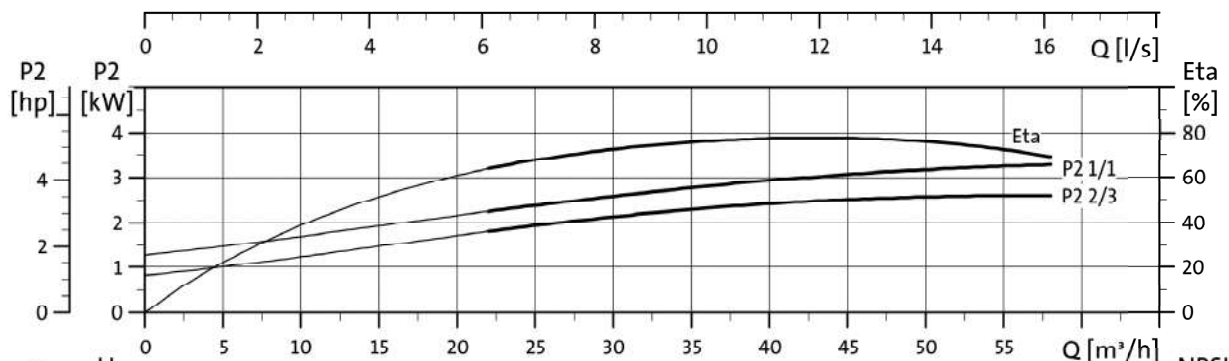
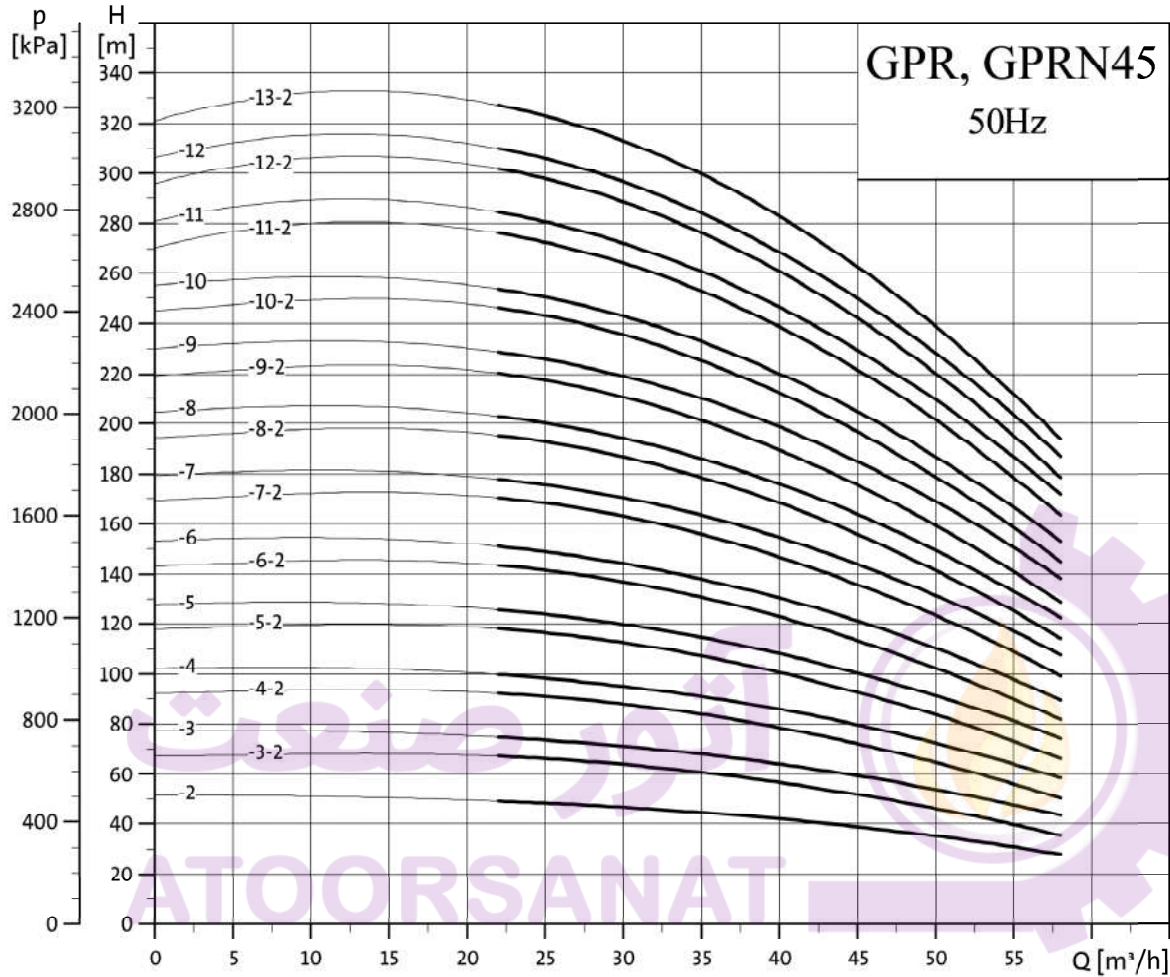
3 x 380-415 V, 50 Hz

| Pump type   | Motor P <sub>2</sub> [kW] | Full load current I <sub>1/1</sub> [A] | Power factor Cos φ 1/1 | Motor efficiency η [%] | I <sub>start</sub> I <sub>1/1</sub> |
|-------------|---------------------------|--|------------------------|------------------------|-------------------------------------|
| GPR 32-2    | 4.0                       | 8.00                                   | 0.90-0.87              | 87.0                   | 8.7-9.5                             |
| GPR 32-3-2  | 5.5                       | 11.0                                   | 0.89-0.86              | 88.5                   | 8.9-9.7                             |
| GPR 32-3    | 5.5                       | 11.0                                   | 0.89-0.86              | 88.5                   | 8.9-9.7                             |
| GPR 32-4-2  | 7.5                       | 15.2                                   | 0.87-0.81              | 89.0                   | 9.1-9.9                             |
| GPR 32-4    | 7.5                       | 15.2                                   | 0.87-0.81              | 89.0                   | 9.1-9.9                             |
| GPR 32-5-2  | 11.0                      | 21.5                                   | 0.91-0.87              | 85.0                   | 7.3-8.0                             |
| GPR 32-5    | 11.0                      | 21.5                                   | 0.91-0.87              | 85.0                   | 7.3-8.0                             |
| GPR 32-6-2  | 11.0                      | 21.5                                   | 0.91-0.87              | 85.0                   | 7.3-8.0                             |
| GPR 32-6    | 11.0                      | 21.5                                   | 0.91-0.87              | 85.0                   | 7.3-8.0                             |
| GPR 32-7-2  | 15.0                      | 28.7                                   | 0.87                   | 86.0                   | 6.0                                 |
| GPR 32-7    | 15.0                      | 28.7                                   | 0.87                   | 86.0                   | 6.0                                 |
| GPR 32-8-2  | 15.0                      | 28.7                                   | 0.87                   | 86.0                   | 6.0                                 |
| GPR 32-8    | 15.0                      | 28.7                                   | 0.87                   | 86.0                   | 6.0                                 |
| GPR 32-9-2  | 18.5                      | 35.9-34.1                              | 0.86                   | 87.0                   | 7.2                                 |
| GPR 32-9    | 18.5                      | 35.9-34.1                              | 0.86                   | 87.0                   | 7.2                                 |
| GPR 32-10-2 | 18.5                      | 35.9-34.1                              | 0.86                   | 87.0                   | 7.2                                 |
| GPR 32-10   | 18.5                      | 35.9-34.1                              | 0.86                   | 87.0                   | 7.2                                 |
| GPR 32-11-2 | 22.0                      | 42.0-40.0                              | 0.86                   | 89.2                   | 7.3                                 |
| GPR 32-11   | 22.0                      | 42.0-40.0                              | 0.86                   | 89.2                   | 7.3                                 |
| GPR 32-12-2 | 22.0                      | 42.0-40.0                              | 0.86                   | 89.2                   | 7.3                                 |
| GPR 32-12   | 22.0                      | 42.0-40.0                              | 0.86                   | 89.2                   | 7.3                                 |
| GPR 32-13-2 | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 32-13   | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 32-14-2 | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 32-14   | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |





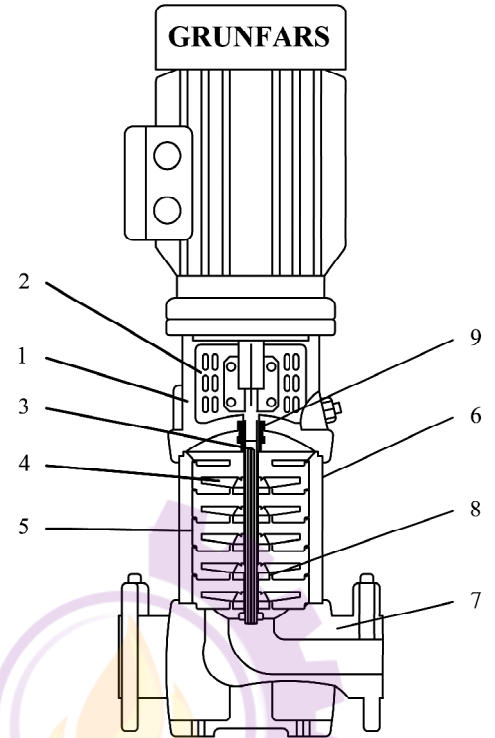
Performance curves





## Materials GPR4 /GPRN4

| POS. NO. | Description          | Materials                           | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|-------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                     | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                     | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                     | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                     | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                     | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50         | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                      | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                              |                  |                      |
| 9        | shaft seal           | Tungsten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                 |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

| pump type   | Motor  |        | Full load current<br>I <sub>l</sub> /1 [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>η [ % ] | $\frac{I_{start}}{I_{l/1}}$ |
|-------------|--------|--------|--|--------------------------|-----------------------------|-----------------------------|
|             | [ KW ] | [ hp ] |  |                          |                             |                             |
| GPR4-20     | 0.37   | 0.5    | 0.96   | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-30     | 0.55   | 0.75   | 1.44   | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-40     | 0.75   | 1.0    | 1.86   | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR4-50     | 1.1    | 1.5    | 2.65   | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-60     | 1.1    | 1.5    | 2.65   | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-80/7   | 1.5    | 2.0    | 3.4  | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-80     | 1.5    | 2.0    | 3.4  | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-100    | 2.2    | 3.0    | 4.75   | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-120    | 2.2    | 3.0    | 4.75   | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-160/14 | 3.0    | 4.0    | 6.25   | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR4-160    | 3.0    | 4.0    | 6.25   | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR4-190    | 4.0    | 5.5    | 8.00   | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR4-220    | 4.0    | 5.5    | 8.00   | 0.90-0.87                | 87                          | 8.7-9.5                     |

## Single phase motors 1× 240 v, 50HZ

| Motor rating | Full load current amps | Locked Rotor Current Ratio |
|--------------|------------------------|----------------------------|
| 0.37 kw      | 3.8                    | 4.0                        |
| 0.55 kw      | 5.2                    | 4.2                        |
| 0.75 kw      | 6.2                    | 4.0                        |
| 1.1 kw       | 7.5                    | 5.2                        |
| 1.5 kw       | 9.5                    | 6.0                        |
| 2.2 kw       | 14.5                   | 5.0                        |

Motors : Enclosure clas IP55

Standard 50HZ voltages available:

3x220-240/380-415 V-motors up to 3kw

3x380-415V-motors from 4kw and upwards

1x240V-motors up to 2.2kw

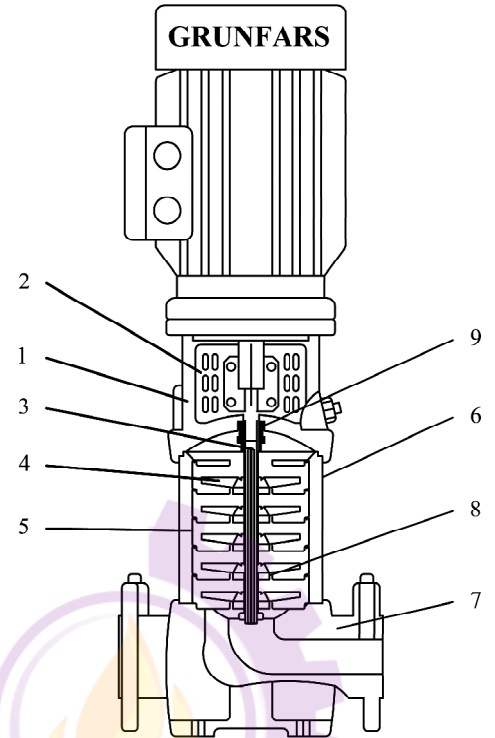
Motors for other voltages available on request

All motors must be connected to a motor starter-  
in accordance with local regulations



## Materials GPR4 /GPRN4

| POS. NO. | Description          | Materials                            | DIN W.-NO        | AISI / ASTM          |
|----------|----------------------|--------------------------------------|------------------|----------------------|
| 1        | Pump head            | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| * 2      | Cupling guard        | stainless steel                      | 1.4301           | AISI 304             |
| 3        | shaft                | stainless steel                      | 1.4401<br>1.4057 | AISI 316<br>AISI 431 |
| * 4      | impeller             | stainless steel                      | 1.4301           | AISI 304             |
| * 5      | intermediate chamber | stainless steel                      | 1.4301           | AISI 304             |
| * 6      | Outer sleeve         | stainless steel                      | 1.4301           | AISI 304             |
|          | Stay bolts           | stainless steel or steel 50          | 1.4057<br>1.0531 | AISI 431             |
| * 7      | Base                 | Cast iron GG20                       | 0.6020           | ASTM 25B             |
| 8        | Neck ring            | Teflon                               |                  |                      |
| 9        | shaft seal           | Tungesten carbide<br>Silicon carbide |                  |                      |
|          | Rubber parts in pump | EPDM or FPM (viton)                  |                  |                      |



Material for Position No. Marked \* in GPRN Type is -  
Stainless Steel (1.4401 AISI 316)

## Electrical Data

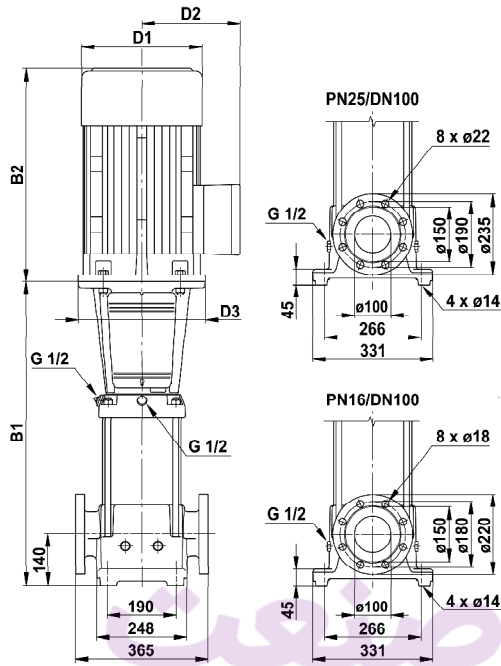
| pump type | Motor  |        | Full load current<br>I <sub>1/1</sub> [ A ] | Power Factor<br>Cosφ 1/1 | Motor Efficiency<br>η [ % ] | $\frac{I_{start}}{I_{1/1}}$ |
|-----------|--------|--------|---|--------------------------|-----------------------------|-----------------------------|
|           | [ KW ] | [ hp ] |   |                          |                             |                             |
| GPR4-20   | 0.37   | 0.5    | 0.96  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-30   | 0.55   | 0.75   | 1.44  | 0.84-0.76                | 72                          | 4.8-5.2                     |
| GPR4-40   | 0.75   | 1.0    | 1.86  | 0.86-0.78                | 74                          | 5.0-5.5                     |
| GPR4-50   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-60   | 1.1    | 1.5    | 2.65  | 0.87-0.79                | 76                          | 5.2-5.7                     |
| GPR4-80/7 | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-80   | 1.5    | 2.0    | 3.4   | 0.85-0.79                | 82                          | 6.3-6.9                     |
| GPR4-100  | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-120  | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-140  | 2.2    | 3.0    | 4.75  | 0.87-0.82                | 84                          | 7.0-7.5                     |
| GPR4-160  | 3.0    | 4.0    | 6.25  | 0.88-0.82                | 86                          | 7.8-8.5                     |
| GPR4-190  | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |
| GPR4-220  | 4.0    | 5.5    | 8.00  | 0.90-0.87                | 87                          | 8.7-9.5                     |

## Single phase motors 1× 240 v, 50HZ

| Motor rating | Full load current amps | Locked Rotor Current Ratio |
|--------------|------------------------|----------------------------|
| 0.37 kw      | 3.8                    | 4.0                        |
| 0.55 kw      | 5.2                    | 4.2                        |
| 0.75 kw      | 6.2                    | 4.0                        |
| 1.1 kw       | 7.5                    | 5.2                        |
| 1.5 kw       | 9.5                    | 6.0                        |
| 2.2 kw       | 14.5                   | 5.0                        |

Motors : Enclosure clas IP55  
Standard 50HZ voltages available:  
3x220-240/380-415 V-motors up to 3kw  
3x380-415V-motors from 4kw and upwards  
1x240V-motors up to 2.2kw  
Motors for other voltages available on request  
All motors must be connected to a motor starter-  
in accordance with local regulations

## Dimensional sketches



## Dimensions and weights

| Pump type  | Dimensions [mm] |     |         |     |     |     | Net weight [kg] |
|------------|-----------------|-----|---------|-----|-----|-----|-----------------|
|            | B1              | B2  | B1 + B2 | D1  | D2  | D3  |                 |
| GPR 64-2-1 | 754             | 464 | 1218    | 260 | 172 | 350 | 158             |
| GPR 64-2   | 754             | 464 | 1218    | 260 | 172 | 350 | 158             |
| GPR 64-3-2 | 836             | 478 | 1314    | 306 | 197 | 350 | 196             |
| GPR 64-3-1 | 836             | 478 | 1314    | 306 | 197 | 350 | 196             |
| GPR 64-3   | 836             | 478 | 1314    | 306 | 197 | 350 | 205             |
| GPR 64-4-2 | 919             | 478 | 1397    | 306 | 197 | 350 | 209             |
| GPR 64-4-1 | 919             | 600 | 1519    | 364 | 269 | 350 | 262             |
| GPR 64-4   | 919             | 600 | 1519    | 364 | 269 | 350 | 262             |
| GPR 64-5-2 | 1001            | 667 | 1668    | 404 | 306 | 400 | 345             |
| GPR 64-5-1 | 1001            | 667 | 1668    | 404 | 306 | 400 | 345             |
| GPR 64-5   | 1001            | 667 | 1668    | 404 | 306 | 400 | 345             |
| GPR 64-6-2 | 1084            | 667 | 1751    | 404 | 306 | 400 | 350             |
| GPR 64-6-1 | 1084            | 667 | 1751    | 404 | 306 | 400 | 370             |
| GPR 64-6   | 1084            | 667 | 1751    | 404 | 306 | 400 | 370             |
| GPR 64-7-2 | 1166            | 667 | 1833    | 404 | 306 | 400 | 374             |
| GPR 64-7-1 | 1166            | 667 | 1833    | 404 | 306 | 400 | 374             |

## Electrical data

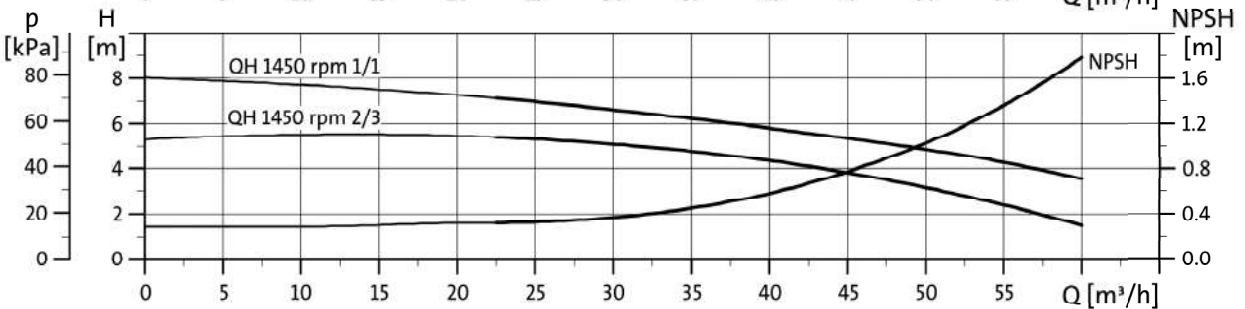
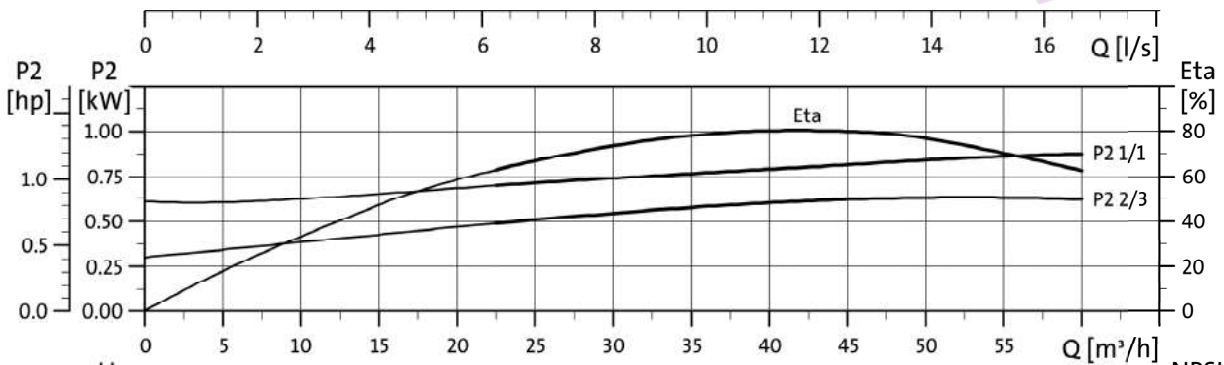
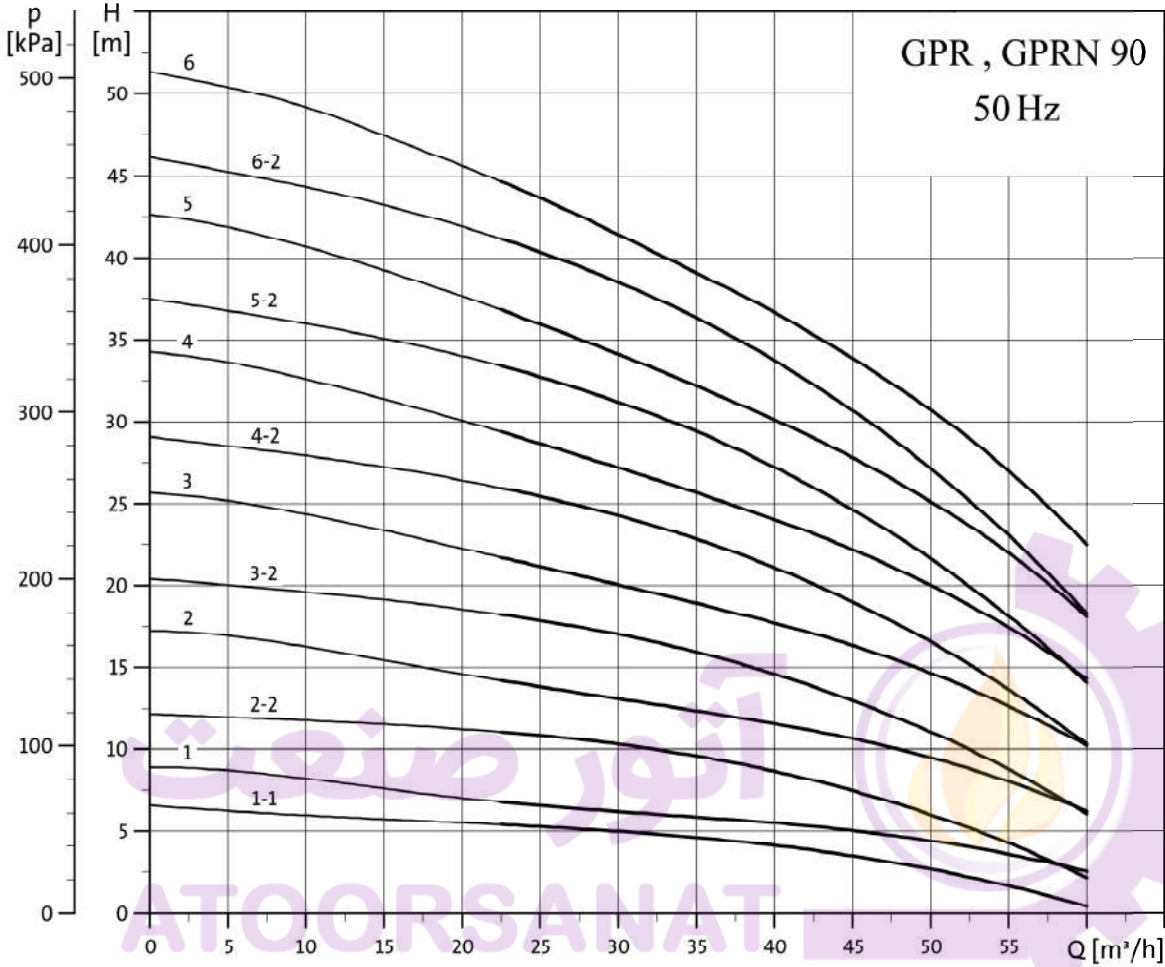
3 x 380-415 V, 50 Hz

| Pump type  | Motor P <sub>2</sub> [kW] | Full load current I <sub>1/1</sub> [A] | Power factor Cos φ 1/1 | Motor efficiency η [%] | I <sub>start</sub> I <sub>1/1</sub> |
|------------|---------------------------|--|------------------------|------------------------|-------------------------------------|
| GPR 64-2-1 | 11.0                      | 21.5                                   | 0.91-0.87              | 85.0                   | 7.3-8.0                             |
| GPR 64-2   | 11.0                      | 21.5                                   | 0.91-0.87              | 85.0                   | 7.3-8.0                             |
| GPR 64-3-2 | 15.0                      | 28.7                                   | 0.87                   | 86.0                   | 6.0                                 |
| GPR 64-3-1 | 15.0                      | 28.7                                   | 0.87                   | 86.0                   | 6.0                                 |
| GPR 64-3   | 18.5                      | 35.9-34.1                              | 0.86                   | 87.0                   | 7.2                                 |
| GPR 64-4-2 | 18.5                      | 35.9-34.1                              | 0.86                   | 87.0                   | 7.2                                 |
| GPR 64-4-1 | 22.0                      | 42.0-40.0                              | 0.86                   | 89.2                   | 7.3                                 |
| GPR 64-4   | 22.0                      | 42.0-40.0                              | 0.86                   | 89.2                   | 7.3                                 |
| GPR 64-5-2 | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 64-5-1 | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 64-5   | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 64-6-2 | 30.0                      | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                 |
| GPR 64-6-1 | 37.0                      | 68.0-63.0                              | 0.89                   | 92.4                   | 7.8                                 |
| GPR 64-6   | 37.0                      | 68.0-63.0                              | 0.89                   | 92.4                   | 7.8                                 |
| GPR 64-7-2 | 37.0                      | 68.0-63.0                              | 0.89                   | 92.4                   | 7.8                                 |
| GPR 64-7-1 | 37.0                      | 68.0-63.0                              | 0.89                   | 92.4                   | 7.8                                 |

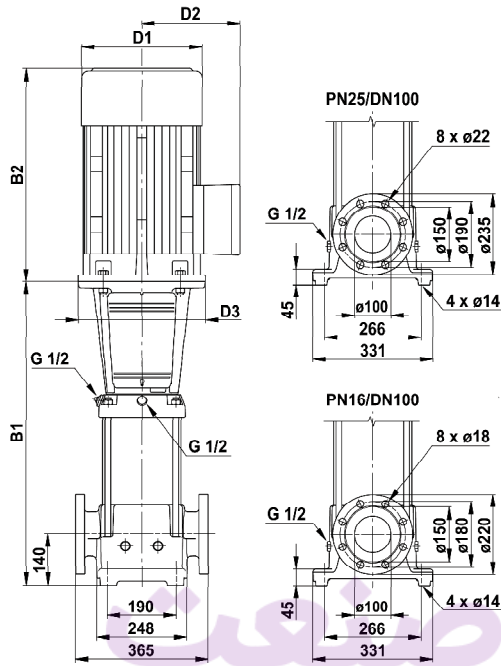




Performance curves



## Dimensional sketches



## Dimensions and weights

| Pump type  | Dimensions [mm] |     |         |     |     |     | Net weight [kg] |
|------------|-----------------|-----|---------|-----|-----|-----|-----------------|
|            | B1              | B2  | B1 + B2 | D1  | D2  | D3  |                 |
| GPR 90-1-1 | 571             | 391 | 962     | 220 | 134 | 350 | 118             |
| GPR 90-1   | 571             | 391 | 962     | 220 | 134 | 350 | 122             |
| GPR 90-2-2 | 773             | 464 | 1237    | 260 | 172 | 350 | 164             |
| GPR 90-2   | 773             | 478 | 1251    | 306 | 197 | 350 | 197             |
| GPR 90-3-2 | 865             | 478 | 1343    | 306 | 197 | 350 | 211             |
| GPR 90-3   | 865             | 600 | 1465    | 364 | 269 | 350 | 264             |
| GPR 90-4-2 | 957             | 667 | 1624    | 404 | 306 | 400 | 347             |
| GPR 90-4   | 957             | 667 | 1624    | 404 | 306 | 400 | 347             |
| GPR 90-5-2 | 1049            | 667 | 1716    | 404 | 306 | 400 | 372             |
| GPR 90-5   | 1049            | 667 | 1716    | 404 | 306 | 400 | 372             |
| GPR 90-6-2 | 1141            | 715 | 1856    | 459 | 342 | 450 | 437             |
| GPR 90-6   | 1141            | 715 | 1856    | 459 | 342 | 450 | 437             |

## Electrical data

3 x 380-415 V, 50 Hz

| Pump type  | Motor P <sub>2</sub> [kW] | Full load current I <sub>1/1</sub> [A] | Power factor Cos φ 1/1 | Motor efficiency η [%] | I <sub>start</sub> / I <sub>1/1</sub> |
|------------|---------------------------|--|------------------------|------------------------|---------------------------------------|
| GPR 90-1-1 | 5.5                       | 11.0                                   | 0.89-0.86              | 87.5-87.5              | 8.9-9.7                               |
| GPR 90-1   | 7.5                       | 15.2                                   | 0.87-0.81              | 88.5-88.0              | 9.1-9.9                               |
| GPR 90-2-2 | 11                        | 21.5                                   | 0.91-0.87              | 90.0-90.0              | 7.3-8.0                               |
| GPR 90-2   | 15                        | 28.7                                   | 0.87                   | 90.0                   | 6.0                                   |
| GPR 90-3-2 | 18.5                      | 35.9-34.1                              | 0.86                   | 91.0                   | 7.2                                   |
| GPR 90-3   | 22                        | 42.0-40.0                              | 0.86                   | 91.4                   | 7.3                                   |
| GPR 90-4-2 | 30                        | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                   |
| GPR 90-4   | 30                        | 56.0-52.0                              | 0.88                   | 91.7                   | 7.5                                   |
| GPR 90-5-2 | 37                        | 68.0-63.0                              | 0.89                   | 92.4                   | 7.8                                   |
| GPR 90-5   | 37                        | 68.0-63.0                              | 0.89                   | 92.4                   | 7.8                                   |
| GPR 90-6-2 | 45                        | 83.0-78.0                              | 0.87                   | 93.4                   | 7.8                                   |
| GPR 90-6   | 45                        | 83.0-78.0                              | 0.87                   | 93.4                   | 7.8                                   |