# 4SR 4" submersible pumps

Clean water

Domestic use

Civil use

Agricultural use




**※ The new 4SR-S series floating impeller pumps, with their advanced hydraulic design and patented innovations, deliver outstanding performance and efficiency. They are exceptionally resistant to sand-related wear, offering a durability 10 times higher than other global market pumps!**

**※ The new 4SR-S pumps feature a patented inductor that improves priming capabilities in wells with air/water mix or water containing gasses.**

## PERFORMANCE RANGE

- Flow rate up to **550 l/min** (33 m³/h)
- Head up to **447 m**

## INSTALLATION AND USE

They are recommended for pumping clean water. Due to their high efficiency and reliability, they are suitable for **domestic, civil and industrial** applications, for water distribution coupled with autoclaves, for irrigation, for washing systems, for pressure boosting, etc.

**※ KEY FEATURES**

Low energy consumption and remarkable durability, even in the presence of sand (up to **200 g/m³**), thanks to an innovative patented hydraulics system..

## APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Maximum sand content:
  - **200 g/m³** for 4SR-S
  - **150 g/m³** for 4SR-N
- Maximum operating depth below water level **200 m**
- Operation:
  - in vertical position
  - horizontally with the following limits:
    **4SR 7G, 10G, 13G, 25G** up to **21 stages**
    **4SR 33G, 45G, 13G, 25G** up to **12 stages**
    **4SR 60G, 75G, 90G** up to **9 stages**
    **4SR 105G** up to **6 stages**
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**
- Continuous running duty **S1**

## INCLUDES

**ELECTRIC MOTOR**

※ Three-phase 380 V - 60 Hz
※ Single-phase 220 V - 60 Hz
※ **Capacitor included in packaging**
※ Power cable:
  – **2 m** for power ratings from 0.75 to 2.2 kW
  – **3.6 m** for power ratings from 3 to 7.5 kW.

※ **4SR105G-N** without check valve

## AVAILABLE UPON REQUEST

※ Different voltage or frequency
※ Cooling jacket kit
※ 4SR105G-N with check valve

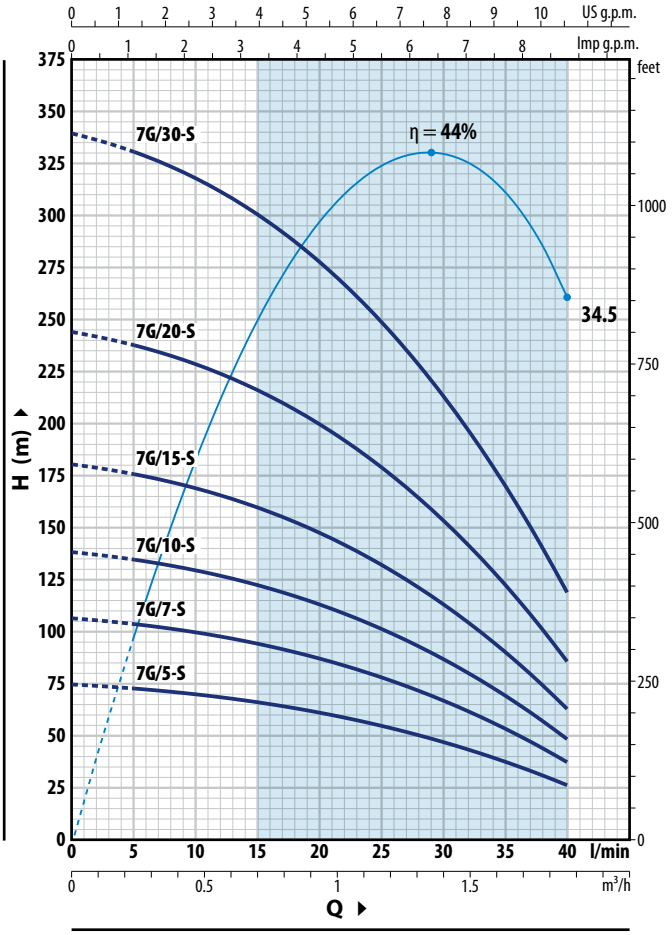
## PATENTS:

- European Patent No. EP3123031
- European Patent No. EP2419642 for 4SR-S
- Patent No. 102021000030575 for 4SR-S
- **4SR-S®** is a registered trademark No. 018702382
- **SABBIA®** is registered trademark no. 5456231

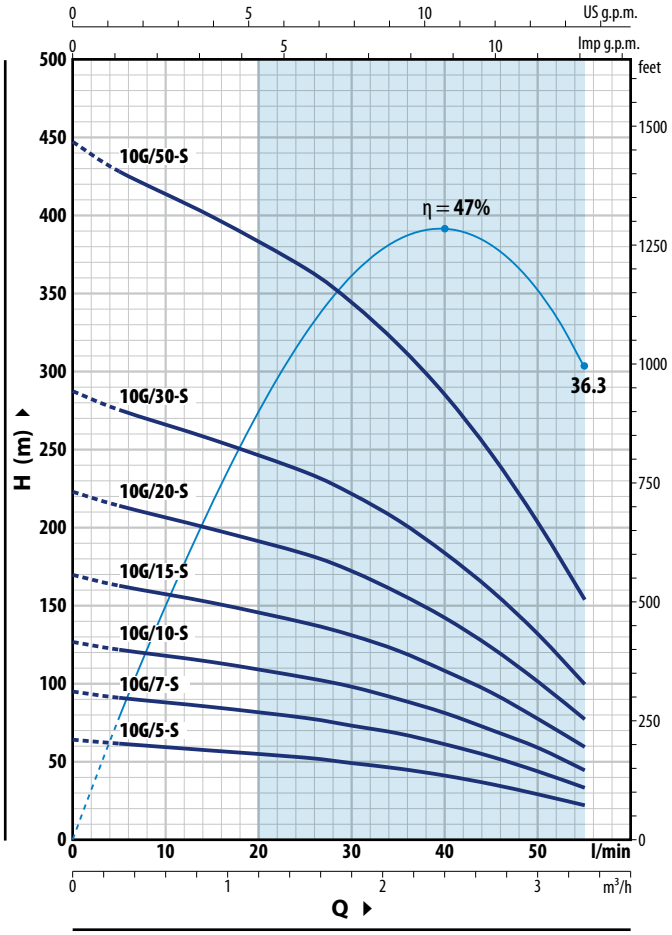
## CURVES AND PERFORMANCE DATA

**60 Hz**

## 4SR7G-S




## 4SR10G-S




## 4SR7G-S

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 0.3 | 0.6 | 0.9 | 1.2 | 1.8 | 2.4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | l/min | **0** | **5** | **10** | **15** | **20** | **30** | **40** |
| 4SRm 7G/5 - S | 4SR 7G/5 - S | 7 | 0.37 | 0.5 | H m | 74 | 72 | 69.5 | 66 | 61 | 46.5 | 26 |
| 4SRm 7G/7 - S | 4SR 7G/7 - S | 10 | 0.55 | 0.75 | | 106 | 104 | 100 | 94 | 87 | 66.5 | 37 |
| 4SRm 7G/10 - S | 4SR 7G/10 - S | 13 | 0.75 | 1 | | 138 | 135 | 129 | 122 | 113 | 87 | 48.5 |
| 4SRm 7G/15 - S | 4SR 7G/15 - S | 17 | 1.1 | 1.5 | | 181 | 176 | 169 | 160 | 148 | 113 | 63 |
| 4SRm 7G/20 - S | 4SR 7G/20 - S | 23 | 1.5 | 2 | | 245 | 238 | 229 | 216 | 200 | 153 | 85 |
| 4SRm 7G/30 - S | 4SR 7G/30 - S | 32 | 2.2 | 3 | | 340 | 331 | 319 | 301 | 278 | 214 | 119 |

## 4SR10G-S

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 0.3 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | l/min | **0** | **5** | **10** | **20** | **30** | **40** | **50** | **55** |
| 4SRm 10G/5 - S | 4SR 10G/5 - S | 6 | 0.37 | 0.50 | H m | 64 | 61.5 | 59 | 55 | 49 | 41 | 29 | 22 |
| 4SRm 10G/7 - S | 4SR 10G/7 - S | 9 | 0.55 | 0.75 | | 96 | 92 | 89 | 82 | 74 | 61 | 43.5 | 33 |
| 4SRm 10G/10 - S | 4SR 10G/10 - S | 12 | 0.75 | 1 | | 128 | 123 | 118 | 110 | 98 | 82 | 58.5 | 44 |
| 4SRm 10G/15 - S | 4SR 10G/15 - S | 16 | 1.1 | 1.5 | | 170 | 163 | 158 | 146 | 131 | 109 | 78 | 59 |
| 4SRm 10G/20 - S | 4SR 10G/20 - S | 21 | 1.5 | 2 | | 224 | 214 | 207 | 192 | 172 | 143 | 102 | 77 |
| 4SRm 10G/30 - S | 4SR 10G/30 - S | 27 | 2.2 | 3 | | 288 | 276 | 266 | 247 | 221 | 184 | 131 | 99 |
| 4SRm 10G/50 - S | 4SR 10G/50 - S | 42 | 3.7 | 5 | | 447 | 429 | 414 | 384 | 344 | 286 | 204 | 155 |

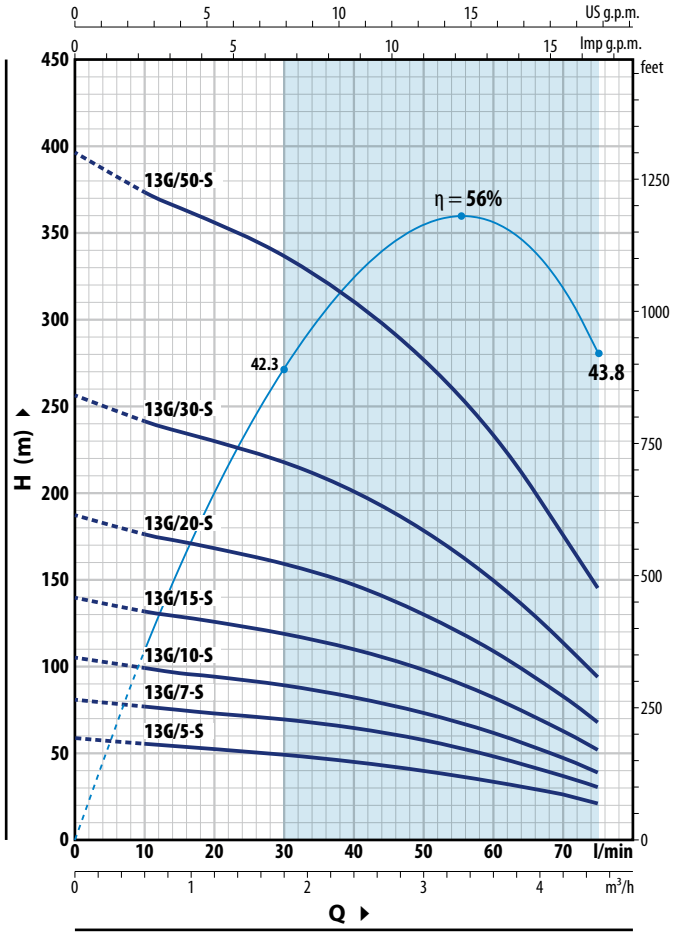
**Q** = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

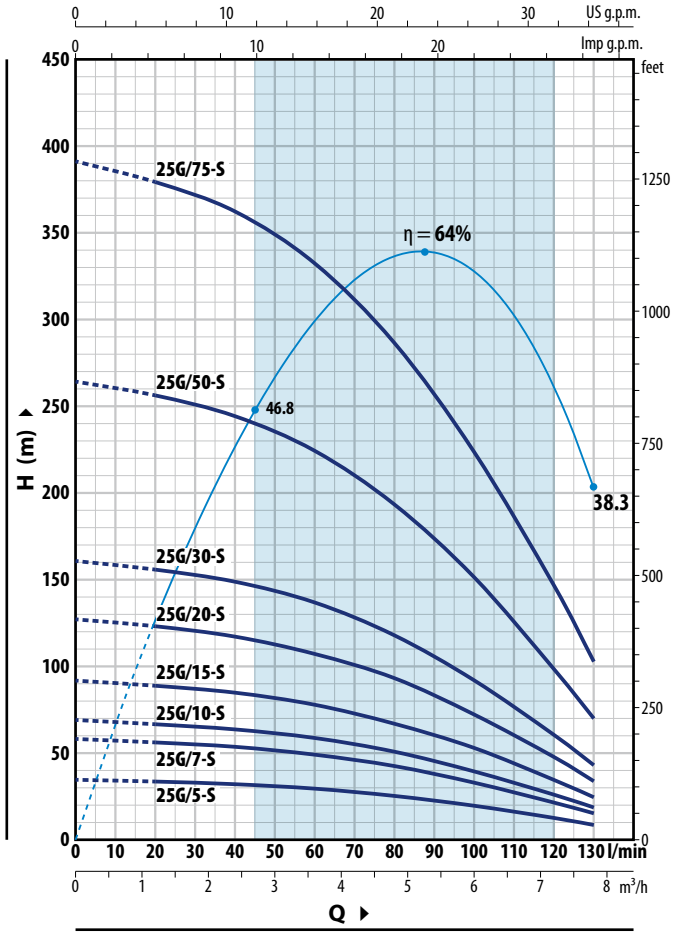
## CURVES AND PERFORMANCE DATA

60 Hz

### 4SR13G-S




### 4SR25G-S




### 4SR13G-S

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | Q l/min | **0** | **10** | **20** | **30** | **40** | **50** | **60** | **70** | **75** |
| **4SRm 13G/5 - S** | **4SR 13G/5 - S** | **5** | 0.37 | 0.50 | | 58.5 | 55 | 52,5 | 49.5 | 46 | 41 | 34 | 26 | 21.5 |
| **4SRm 13G/7 - S** | **4SR 13G/7 - S** | **7** | 0.55 | 0.75 | | 82 | 77 | 74 | 69.5 | 64.5 | 57.5 | 48 | 36.5 | 30 |
| **4SRm 13G/10 - S** | **4SR 13G/10 - S** | **9** | 0.75 | 1 | | 105 | 99 | 95 | 89 | 83 | 74 | 61.5 | 47 | 38.5 |
| **4SRm 13G/15 - S** | **4SR 13G/15 - S** | **12** | 1.1 | 1.5 | **H** m | 140 | 132 | 126 | 119 | 110 | 98 | 82 | 62.5 | 51.5 |
| **4SRm 13G/20 - S** | **4SR 13G/20 - S** | **16** | 1.5 | 2 | | 187 | 176 | 168 | 159 | 147 | 131 | 110 | 83 | 68.5 |
| **4SRm 13G/30 - S** | **4SR 13G/30 - S** | **22** | 2.2 | 3 | | 257 | 242 | 231 | 219 | 202 | 180 | 151 | 114 | 94 |
| **4SRm 13G/50 - S** | **4SR 13G/50 - S** | **34** | 3.7 | 5 | | 398 | 375 | 357 | 338 | 313 | 278 | 233 | 177 | 145 |

### 4SR25G-S

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 1.2 | 2.4 | 3.6 | 4.8 | 6.0 | 7.2 | 7.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | Q l/min | **0** | **20** | **40** | **60** | **80** | **100** | **120** | **130** |
| **4SRm 25G/5 - S** | **4SR 25G/5 - S** | **3** | 0.37 | 0.50 | | 34.5 | 33.5 | 32 | 29.5 | 25.4 | 19.8 | 13 | 9 |
| **4SRm 25G/7 - S** | **4SR 25G/7 - S** | **5** | 0.55 | 0.75 | | 58 | 56 | 53.5 | 49 | 42.5 | 33 | 21.6 | 15.5 |
| **4SRm 25G/10 - S** | **4SR 25G/10 - S** | **6** | 0.75 | 1 | | 69.5 | 67 | 64 | 59 | 51 | 39.5 | 26 | 18.5 |
| **4SRm 25G/15 - S** | **4SR 25G/15 - S** | **8** | 1.1 | 1.5 | | 92 | 90 | 85 | 78 | 67.5 | 53 | 34.5 | 24.5 |
| **4SRm 25G/20 - S** | **4SR 25G/20 - S** | **11** | 1.5 | 2 | **H** m | 127 | 123 | 118 | 108 | 93 | 73 | 47.5 | 33.5 |
| **4SRm 25G/30 - S** | **4SR 25G/30 - S** | **14** | 2.2 | 3 | | 162 | 157 | 150 | 137 | 118 | 93 | 60.5 | 43 |
| **4SRm 25G/50 - S** | **4SR 25G/50 - S** | **23** | 3.7 | 5 | | 266 | 258 | 246 | 226 | 195 | 152 | 100 | 70.5 |
| – | **4SR 25G/75 - S** | **34** | 5.5 | 7.5 | | 393 | 381 | 363 | 333 | 288 | 225 | 147 | 104 |

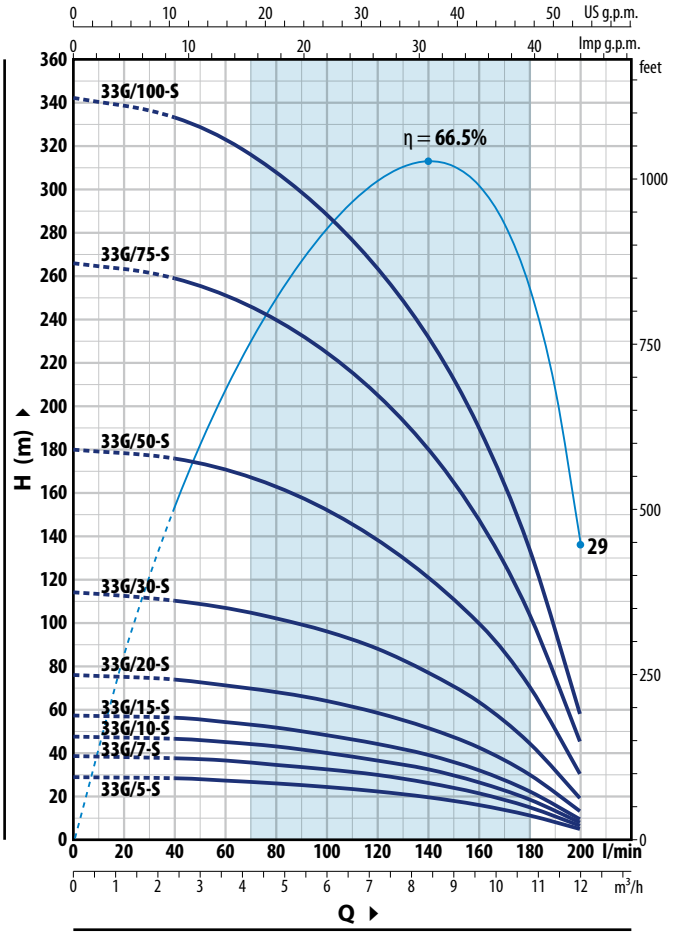
**Q** = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

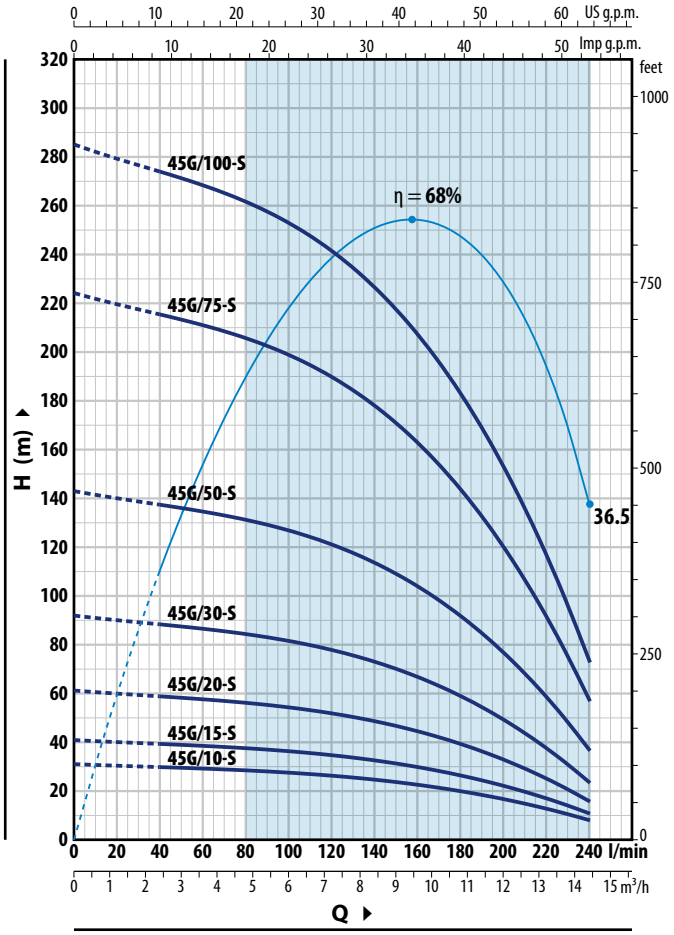
## CURVES AND PERFORMANCE DATA

**60 Hz**

## 4SR33G-S




## 4SR45G-S




## 4SR33G-S

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 2.4 | 3.6 | 4.8 | 6.0 | 7.2 | 8.4 | 9.6 | 10.8 | 12.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | Q l/min | **0** | **40** | **60** | **80** | **100** | **120** | **140** | **160** | **180** | **200** |
| 4SRm 33G/5 - S | 4SR 33G/5 - S | 3 | 0.37 | 0.50 | | 28.5 | 28 | 26.8 | 25.7 | 24.1 | 22.1 | 19.4 | 15.9 | 11.1 | 5 |
| 4SRm 33G/7 - S | 4SR 33G/7 - S | 4 | 0.55 | 0.75 | | 38 | 37 | 36 | 34 | 32 | 29.5 | 25.9 | 21.2 | 14.9 | 6.5 |
| 4SRm 33G/10 - S | 4SR 33G/10 - S | 5 | 0.75 | 1 | | 47.5 | 46.5 | 44.5 | 43 | 40 | 37 | 32.5 | 26.5 | 18.6 | 8 |
| 4SRm 33G/15 - S | 4SR 33G/15 - S | 6 | 1.1 | 1.5 | | 57 | 55.5 | 53.5 | 51.5 | 48 | 44 | 39 | 32 | 22.3 | 9.5 |
| 4SRm 33G/20 - S | 4SR 33G/20 - S | 8 | 1.5 | 2 | H m | 76 | 74 | 72 | 68.5 | 64.5 | 59 | 52 | 42.5 | 29.5 | 13 |
| 4SRm 33G/30 - S | 4SR 33G/30 - S | 12 | 2.2 | 3 | | 114 | 111 | 107 | 103 | 96 | 88 | 78 | 63.5 | 44.5 | 19 |
| 4SRm 33G/50 - S | 4SR 33G/50 - S | 19 | 3.7 | 5 | | 181 | 176 | 170 | 162 | 153 | 140 | 123 | 101 | 70.5 | 30.5 |
| – | 4SR 33G/75 - S | 28 | 5.5 | 7.5 | | 267 | 259 | 251 | 239 | 225 | 206 | 182 | 148 | 104 | 45 |
| – | 4SR 33G/100 - S | 36 | 7.5 | 10 | | 343 | 333 | 322 | 308 | 289 | 265 | 233 | 191 | 134 | 57.5 |

## 4SR45G-S

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 2.4 | 4.8 | 7.2 | 9.6 | 12.0 | 14.4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | Q l/min | **0** | **40** | **80** | **120** | **160** | **200** | **240** |
| 4SRm 45G/10 - S | 4SR 45G/10 - S | 3 | 0.75 | 1 | | 30.5 | 29.5 | 28 | 25.9 | 22.2 | 16.4 | 7.5 |
| 4SRm 45G/15 - S | 4SR 45G/15 - S | 4 | 1.1 | 1.5 | | 41 | 39 | 37.5 | 34.5 | 29.5 | 21.8 | 10.5 |
| 4SRm 45G/20 - S | 4SR 45G/20 - S | 6 | 1.5 | 2 | | 61 | 59 | 56 | 52 | 44.5 | 32.5 | 15.5 |
| 4SRm 45G/30 - S | 4SR 45G/30 - S | 9 | 2.2 | 3 | H m | 92 | 88 | 84 | 78 | 66.5 | 49 | 23 |
| 4SRm 45G/50 - S | 4SR 45G/50 - S | 14 | 3.7 | 5 | | 143 | 137 | 131 | 121 | 104 | 76 | 36 |
| – | 4SR 45G/75 - S | 22 | 5.5 | 7.5 | | 224 | 216 | 206 | 190 | 163 | 120 | 57 |
| – | 4SR 45G/100 - S | 28 | 7.5 | 10 | | 286 | 274 | 262 | 242 | 207 | 153 | 72.5 |

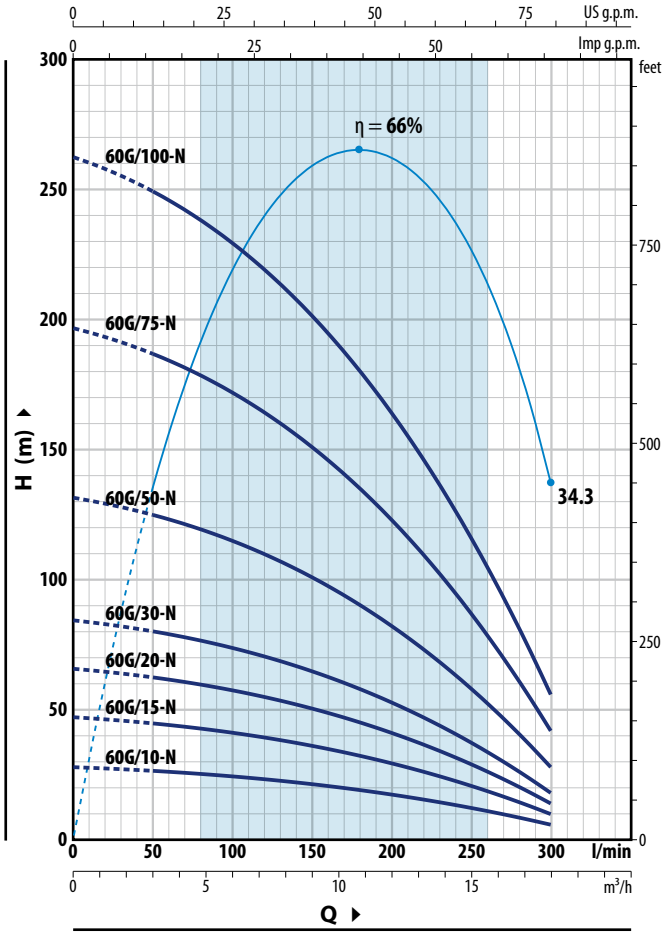
**Q** = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

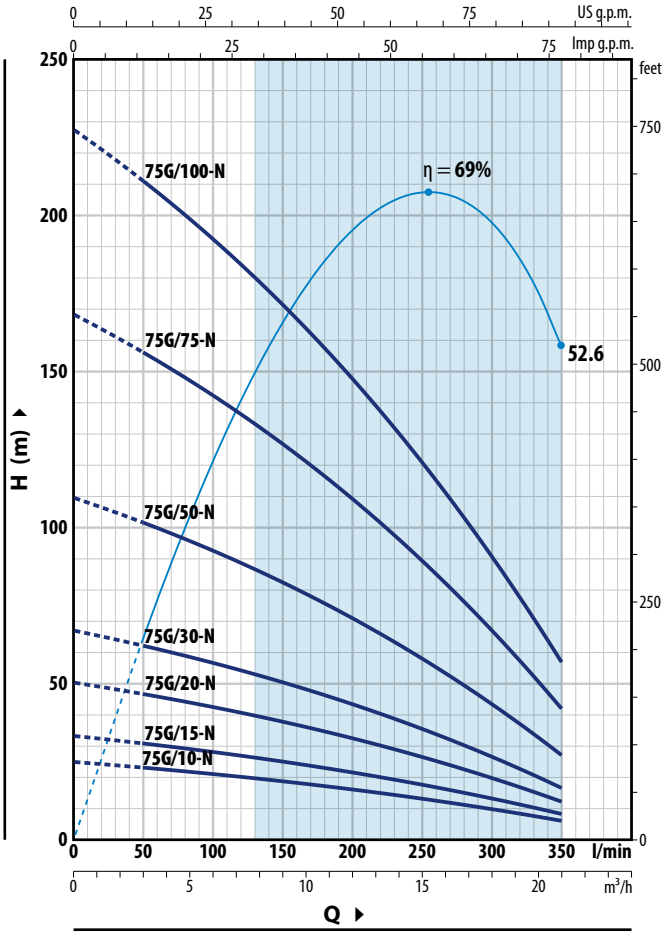
## CURVES AND PERFORMANCE DATA

60 Hz

### 4SR60G-N




### 4SR75G-N




### 4SR60G-N

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 3 | 6 | 9 | 12 | 15 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | l/min | 0 | 50 | 100 | 150 | 200 | 250 | 300 |
| 4SRm 60G/10 -N | 4SR 60G/10 -N | 3 | 0.75 | 1 | | 28 | 26.5 | 24.6 | 21.6 | 17.6 | 12.4 | 6 |
| 4SRm 60G/15 -N | 4SR 60G/15 -N | 5 | 1.1 | 1.5 | | 47 | 44.5 | 41 | 36 | 29.5 | 20.7 | 10 |
| 4SRm 60G/20 -N | 4SR 60G/20 -N | 7 | 1.5 | 2 | | 65.5 | 62.5 | 57.5 | 50.5 | 41 | 29 | 14 |
| 4SRm 60G/30 -N | 4SR 60G/30 -N | 9 | 2.2 | 3 | H m | 84 | 80 | 74 | 65 | 53 | 37.5 | 18 |
| – | 4SR 60G/50 -N | 14 | 3.7 | 5 | | 131 | 125 | 115 | 101 | 82 | 58 | 28 |
| – | 4SR 60G/75 -N | 21 | 5.5 | 7.5 | | 197 | 187 | 172 | 151 | 123 | 87 | 42 |
| – | 4SR 60G/100-N | 28 | 7.5 | 10 | | 263 | 249 | 229 | 201 | 164 | 116 | 56 |

### 4SR75G-N

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | l/min | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 |
| 4SRm 75G/10 -N | 4SR 75G/10 -N | 3 | 0.75 | 1 | | 25.5 | 23.5 | 21.4 | 19.1 | 16.4 | 13.5 | 10.1 | 6.5 |
| 4SRm 75G/15 -N | 4SR 75G/15 -N | 4 | 1.1 | 1.5 | | 33.5 | 31.5 | 28.5 | 25.4 | 21.9 | 17.9 | 13.5 | 8.5 |
| 4SRm 75G/20 -N | 4SR 75G/20 -N | 6 | 1.5 | 2 | | 50.5 | 47 | 43 | 38 | 33 | 26.9 | 20.2 | 12.5 |
| 4SRm 75G/30 -N | 4SR 75G/30 -N | 8 | 2.2 | 3 | H m | 67.5 | 62.5 | 57 | 51 | 44 | 36 | 27 | 17 |
| – | 4SR 75G/50 -N | 13 | 3.7 | 5 | | 110 | 102 | 93 | 83 | 71 | 58.5 | 44 | 27.5 |
| – | 4SR 75G/75 -N | 20 | 5.5 | 7.5 | | 169 | 156 | 143 | 127 | 109 | 90 | 67.5 | 42.5 |
| – | 4SR 75G/100-N | 27 | 7.5 | 10 | | 228 | 211 | 192 | 171 | 148 | 121 | 91 | 57 |

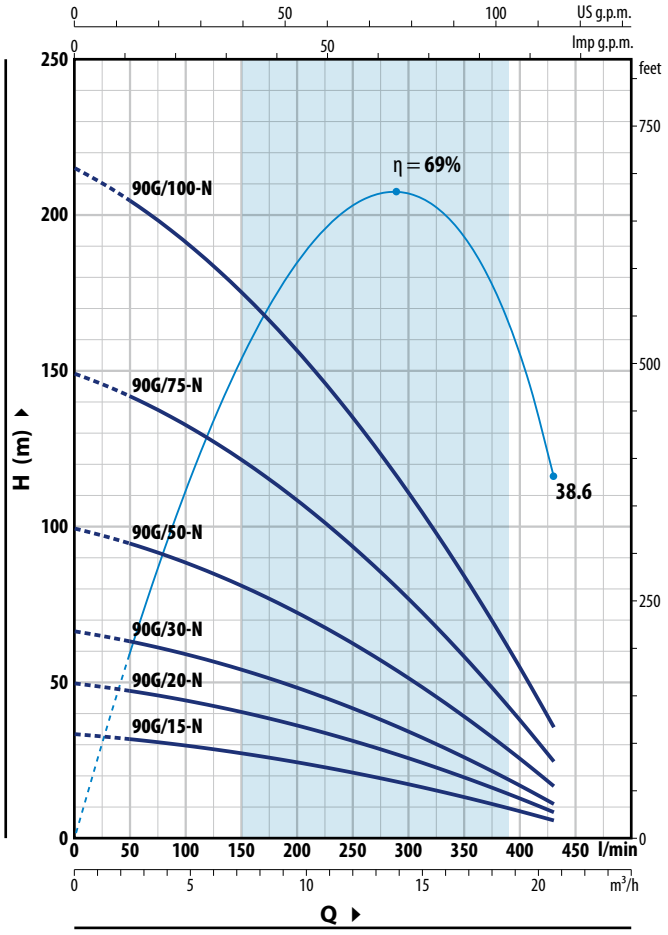
**Q** = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

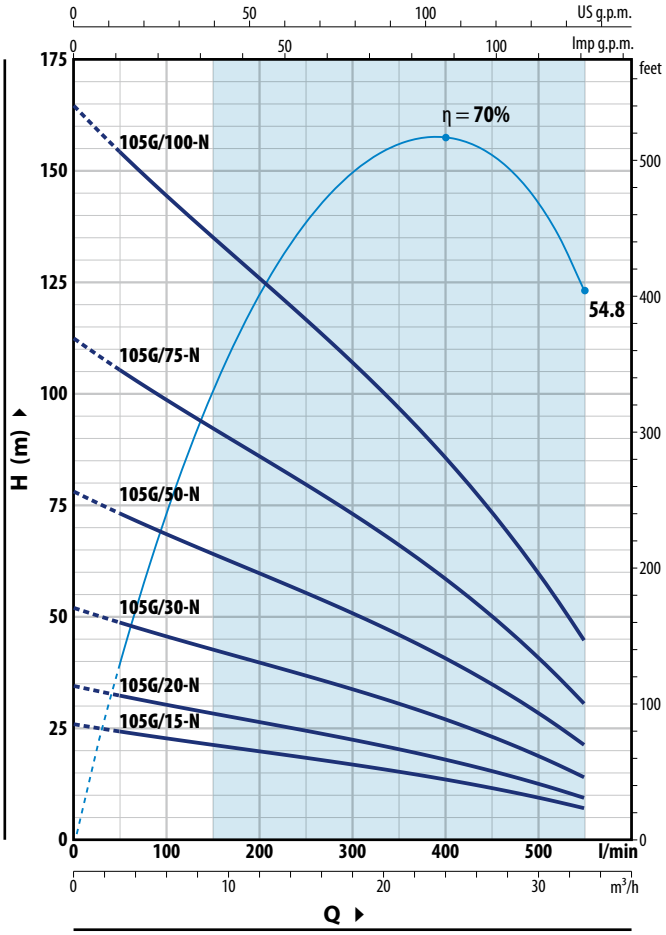
## CURVES AND PERFORMANCE DATA

**60 Hz**

## 4SR90G-N




## 4SR105G-N




## 4SR90G-N

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 25.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | l/min | **0** | **50** | **100** | **150** | **200** | **250** | **300** | **350** | **400** | **430** |
| 4SRm 90G/15 -N | 4SR 90G/15 -N | 4 | 1.1 | 1.5 | H m | 33 | 31.5 | 29.5 | 26.9 | 24 | 20.7 | 17 | 12.9 | 8.5 | 5.5 |
| 4SRm 90G/20 -N | 4SR 90G/20 -N | 6 | 1.5 | 2 | | 49.5 | 47 | 44 | 40.5 | 36 | 31 | 25.5 | 19.3 | 12.5 | 8 |
| 4SRm 90G/30 -N | 4SR 90G/30 -N | 8 | 2.2 | 3 | | 66 | 63 | 59 | 54 | 48 | 41.5 | 34 | 25.7 | 16.5 | 11 |
| – | 4SR 90G/50 -N | 12 | 3.7 | 5 | | 99 | 94 | 88 | 81 | 72 | 62 | 51 | 38.5 | 25 | 16.5 |
| – | 4SR 90G/75 -N | 18 | 5.5 | 7.5 | | 149 | 142 | 132 | 121 | 108 | 93 | 76 | 58 | 37.5 | 24.5 |
| – | 4SR 90G/100 -N | 26 | 7.5 | 10 | | 215 | 204 | 191 | 175 | 156 | 135 | 110 | 84 | 54 | 35.5 |

## 4SR105G-N (*)

| MODEL | | N. | POWER (P2) | | Q m³/h | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | l/min | **0** | **50** | **100** | **150** | **200** | **250** | **300** | **350** | **400** | **450** | **500** | **550** |
| 4SRm 105G/15-N | 4SR 105G/15 -N | 3 | 1,1 | 1,5 | H m | 26 | 24.5 | 22.8 | 21.3 | 19.9 | 18.4 | 16.9 | 15.3 | 13.5 | 11.5 | 9.5 | 7 |
| 4SRm 105G/20-N | 4SR 105G/20 -N | 4 | 1,5 | 2 | | 34.5 | 32.5 | 30.5 | 28.5 | 26.5 | 24.6 | 22.5 | 20.4 | 18 | 15.5 | 12.5 | 9.5 |
| 4SRm 105G/30-N | 4SR 105G/30 -N | 6 | 2,2 | 3 | | 52 | 48.5 | 45.5 | 42.5 | 39.5 | 37 | 34 | 30.5 | 27 | 23 | 19 | 14 |
| – | 4SR 105G/50 -N | 9 | 3,7 | 5 | | 78 | 73 | 68.5 | 64 | 59.5 | 55 | 50.5 | 46 | 40.5 | 35 | 28.5 | 21 |
| – | 4SR 105G/75 -N | 13 | 5,5 | 7,5 | | 113 | 105 | 99 | 92 | 86 | 80 | 73 | 66.5 | 58.5 | 50.5 | 41 | 30.5 |
| – | 4SR 105G/100 -N | 19 | 7,5 | 10 | | 164 | 154 | 144 | 135 | 126 | 117 | 107 | 97 | 86 | 74 | 60 | 45 |

**Q** = Flow rate **H** = Total manometric head

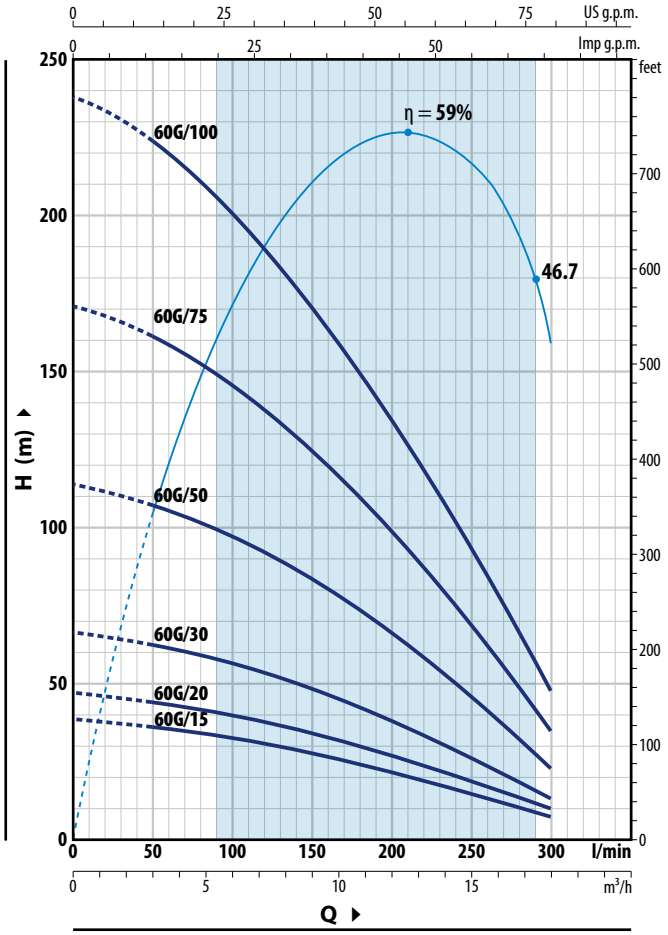
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

**(*) Performance curves without check valve**

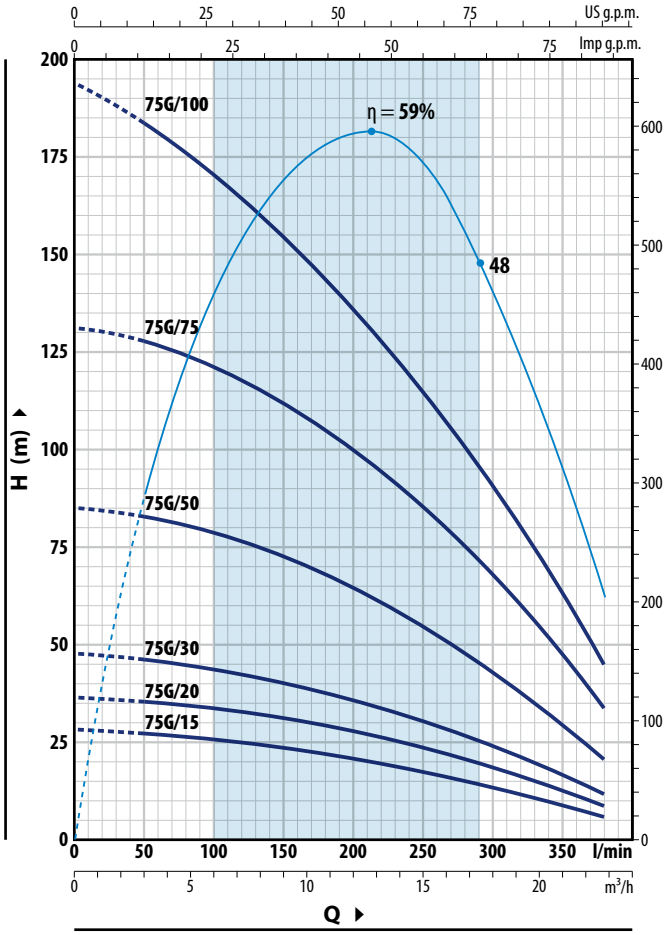
## CURVES AND PERFORMANCE DATA

60 Hz

### 4SR60G




### 4SR75G




## 4SR60G

| MODEL | | N. | POWER (P2) | | Q | m³/h | 0 | 3.0 | 6.0 | 9.0 | 12.0 | 15.0 | 18.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | | l/min | **0** | **50** | **100** | **150** | **200** | **250** | **300** |
| **4SRm 60G/15** | **4SR 60G/15** | **4** | 1.1 | 1.5 | **H** | m | 38 | 36 | 32 | 28 | 22 | 15 | 8 |
| **4SRm 60G/20** | **4SR 60G/20** | **5** | 1.5 | 2 | | | 47 | 44 | 39.5 | 34 | 27.5 | 19 | 10 |
| **4SRm 60G/30** | **4SR 60G/30** | **7** | 2.2 | 3 | | | 66 | 63 | 56 | 47.5 | 38 | 27 | 14 |
| – | **4SR 60G/50** | **12** | 3.7 | 5 | | | 114 | 108 | 97 | 83 | 66 | 46 | 23 |
| – | **4SR 60G/75** | **18** | 5.5 | 7.5 | | | 171 | 161 | 146 | 124 | 98 | 68 | 35 |
| – | **4SR 60G/100** | **25** | 7.5 | 10 | | | 238 | 224 | 201 | 172 | 134 | 93 | 48 |

## 4SR75G

| MODEL | | N. | POWER (P2) | | Q | m³/h | 0 | 3.0 | 6.0 | 9.0 | 12.0 | 15.0 | 18.0 | 21.0 | 22.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | | l/min | **0** | **50** | **100** | **150** | **200** | **250** | **300** | **350** | **380** |
| **4SRm 75G/15** | **4SR 75G/15** | **3** | 1.1 | 1.5 | **H** | m | 28 | 27 | 25.5 | 23.5 | 21 | 18 | 14 | 9 | 6 |
| **4SRm 75G/20** | **4SR 75G/20** | **4** | 1.5 | 2 | | | 36 | 36 | 34 | 32 | 28 | 23 | 18 | 12.5 | 9 |
| **4SRm 75G/30** | **4SR 75G/30** | **5** | 2.2 | 3 | | | 47 | 46 | 44 | 40 | 35 | 30 | 22.5 | 17 | 12 |
| – | **4SR 75G/50** | **9** | 3.7 | 5 | | | 85 | 83 | 79 | 72 | 64.5 | 54 | 42 | 28.5 | 21 |
| – | **4SR 75G/75** | **14** | 5.5 | 7.5 | | | 130 | 127 | 122 | 113 | 102 | 85 | 66 | 46 | 34 |
| – | **4SR 75G/100** | **19** | 7.5 | 10 | | | 192 | 185 | 173 | 156 | 135 | 112 | 87 | 61 | 46 |

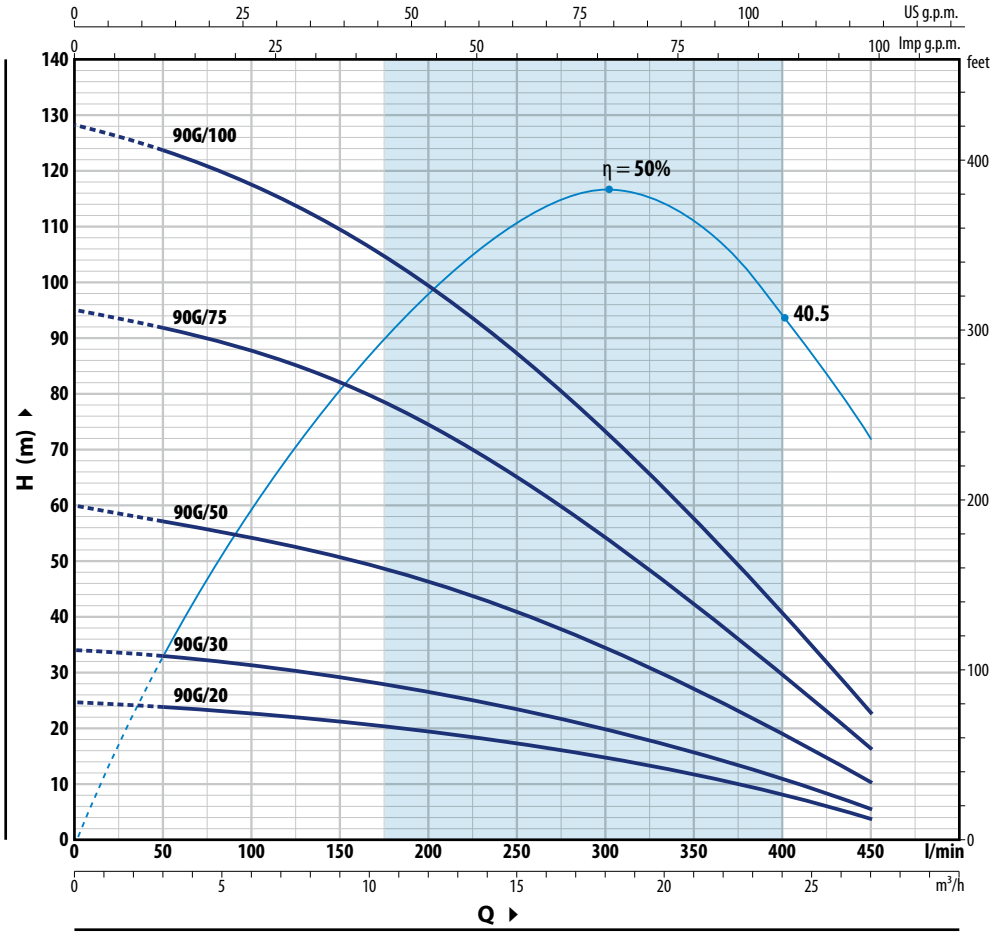
**Q** = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## CURVES AND PERFORMANCE DATA

**60 Hz**

# 4SR90G




# 4SR90G

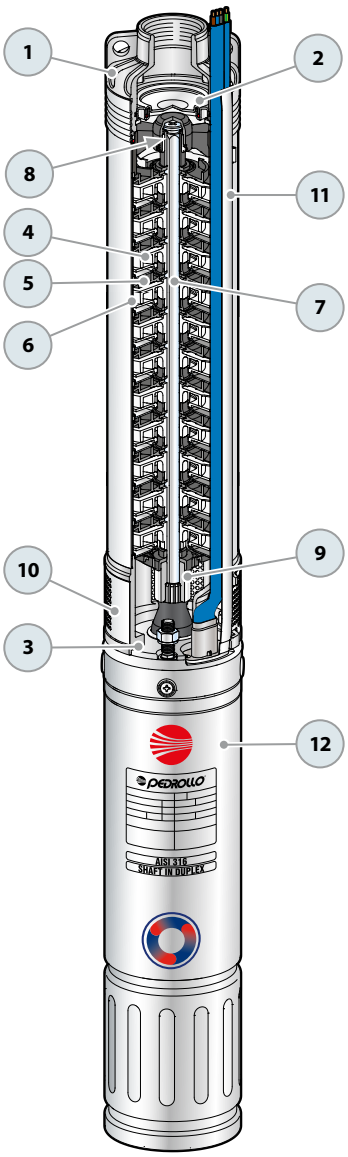
| MODEL | | N. | POWER (P2) | | Q | m³/h | 0 | 3.0 | 6.0 | 9.0 | 12.0 | 15.0 | 18.0 | 21.0 | 24.0 | 27.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | STAGES | kW | HP | | l/min | **0** | **50** | **100** | **150** | **200** | **250** | **300** | **350** | **400** | **450** |
| **4SRm 90G/20** | **4SR 90G/20** | **3** | 1.5 | 2 | | | 25 | 24 | 23 | 22 | 20 | 18 | 15 | 12 | 8 | 4 |
| **4SRm 90G/30** | **4SR 90G/30** | **4** | 2.2 | 3 | | | 34 | 33 | 32 | 30 | 27 | 24 | 20 | 16 | 11 | 6 |
| – | **4SR 90G/50** | **7** | 3.7 | 5 | **H** | m | 60 | 58 | 54 | 50 | 47 | 42 | 34 | 26 | 18 | 11 |
| – | **4SR 90G/75** | **11** | 5.5 | 7.5 | | | 95 | 92 | 88 | 83 | 75 | 66 | 56 | 42 | 29 | 17 |
| – | **4SR 90G/100** | **15** | 7.5 | 10 | | | 128 | 124 | 117 | 110 | 100 | 88 | 74 | 57 | 40 | 23 |

**Q** = Flow rate **H** = Total manometric head

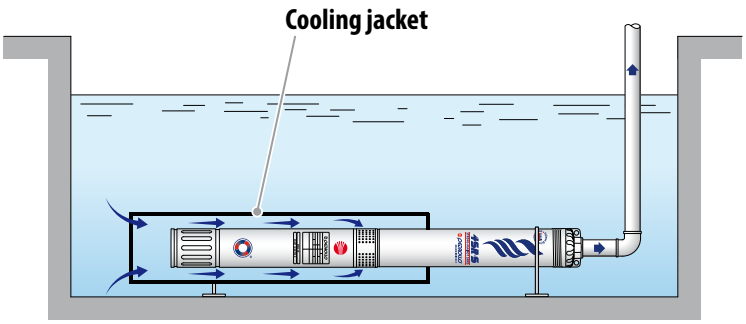
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## MATERIALS AND COMPONENTS

| | | |
|---|---|---|
| 1 | **Delivery port** | Micro-cast **AISI 304** stainless steel with thread according to ANSI/ASME B1.20.1 |
| 2 | **Check valve** | Stainless steel **AISI 304** |
| 3 | **Motor bracket** | Stainless steel **AISI 304**, sized to NEMA standards |
| 4 | **Impeller** | Delrin® for 4SR-S, Noryl™ for 4SR-N / 4SR |
| 5 | **Diffuser** | Noryl™ |
| 6 | **Stadium box** | Stainless steel **AISI 304** |
| 7 | **Pump shaft** | Stainless steel **AISI 304** |
| 8 | **Pump bearings** | Made of **AISI 316L** stainless steel coated with chromium oxide to resist sand |
| 9 | **Tow coupling** | Stainless steel |
| 10 | **Filter** | Stainless steel **AISI 304** |
| 11 | **Cable sheath** | Stainless steel **AISI 304** |
| 12 | **Motor 4"** | **4PD = rewindable oil filled motor** |



## EXAMPLES OF INSTALLATION

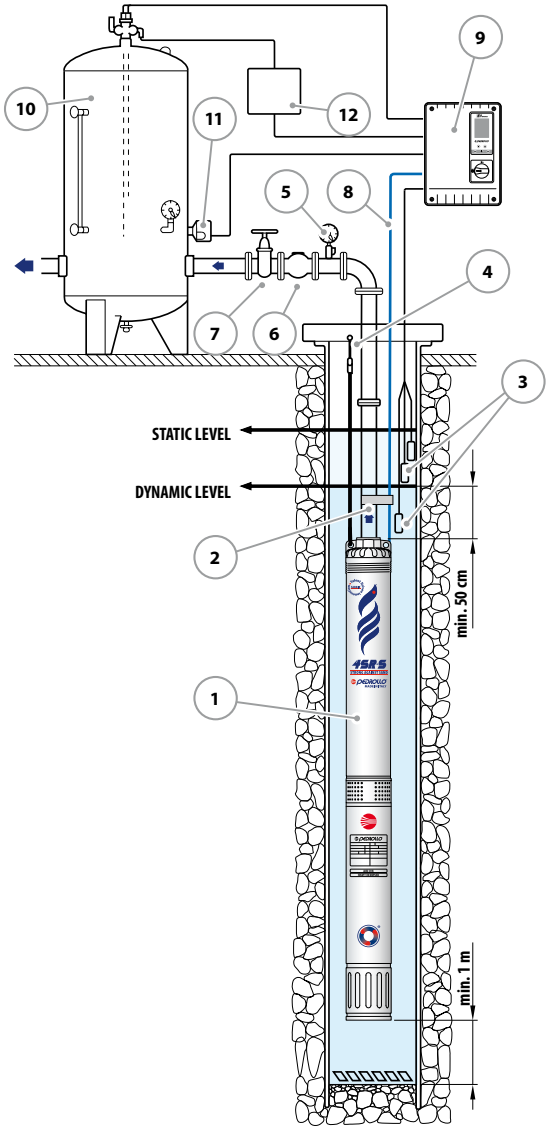



## COOLING JACKET

※ When the pump is installed in reservoirs, rivers, or lakes, it requires an external cooling jacket (flow generator) to ensure sufficient water flow across the motor surface, preventing overheating.

※ Recommended for power ratings from 3 kW to 7.5 kW






※ The **4SR** pumps are suitable for wells with a minimum diameter of **4"** (**100 mm**).

※ The submersible pump must be lowered into the well through the delivery pipe to a depth that ensures it remains fully submerged, maintaining at least 50 cm or one metre from the bottom of the well, even if liquid levels decrease during operation.

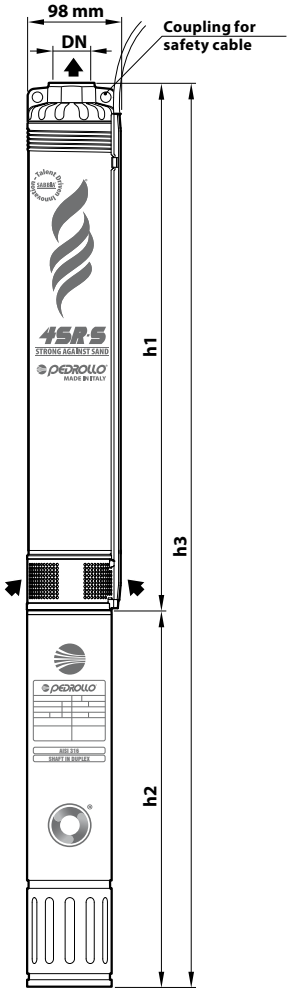
※ It is advisable to secure the submersible pump using a stainless-steel cable connected to appropriate attachments on the delivery port.

## COMPONENTS

1) Submersible pump
2) Fixing Ties
3) Level control probes
4) Bracket and anchor cable
5) Pressure Gauge
6) Check valve
7) Flow control gate valve
8) Electrical power supply cable
9) Control panel
10) Autoclave tank
11) Pressure switch
12) Solenoid valve/electric compressor

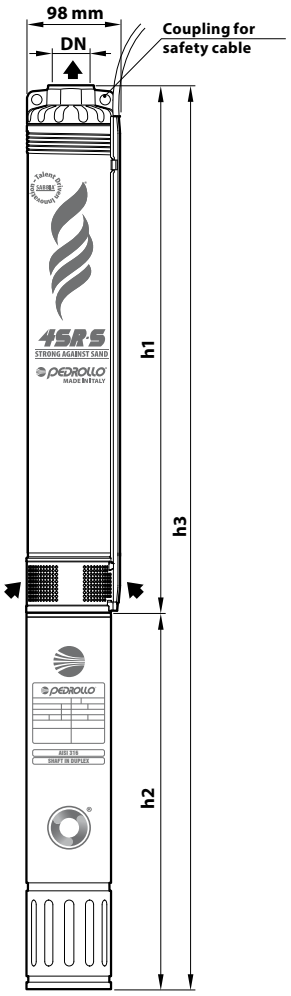
## DIMENSIONS AND WEIGHTS (single-phase models)

| MODEL | DN | N. | DIMENSIONS mm | | | | kg |
|---|---|---|---|---|---|---|---|
| Single-phase | | STAGES | Ø | h1 | h2 | h3 | 1~ |
| 4SRm 7G/5 -S - PD | 1¼" NPT | 7 | 98 | 303 | 331 | 634 | 10.2 |
| 4SRm 7G/7 -S - PD | | 10 | | 362 | 331 | 693 | 11.3 |
| 4SRm 7G/10 -S - PD | | 13 | | 423 | 356 | 779 | 12.7 |
| 4SRm 7G/15 -S - PD | | 17 | | 528 | 396 | 924 | 15.5 |
| 4SRm 7G/20 -S - PD | | 23 | | 648 | 437 | 1085 | 18.6 |
| 4SRm 7G/30 -S - PD | | 32 | | 924 | 492 | 1416 | 26.3 |
| 4SRm 10G/5 -S - PD | | 6 | | 283 | 331 | 614 | 10.8 |
| 4SRm 10G/7 -S - PD | | 9 | | 343 | 331 | 674 | 11.2 |
| 4SRm 10G/10 -S - PD | | 12 | | 402 | 356 | 758 | 13.0 |
| 4SRm 10G/15 -S - PD | | 16 | | 508 | 396 | 904 | 16.0 |
| 4SRm 10G/20 -S - PD | | 21 | | 608 | 437 | 1045 | 19.4 |
| 4SRm 10G/30 -S - PD | | 27 | | 727 | 492 | 1219 | 23.7 |
| 4SRm 13G/5 -S - PD | | 5 | | 263 | 331 | 594 | 10.6 |
| 4SRm 13G/7 -S - PD | | 7 | | 303 | 331 | 634 | 10.9 |
| 4SRm 13G/10 -S - PD | | 9 | | 343 | 356 | 699 | 12.5 |
| 4SRm 13G/15 -S - PD | | 12 | | 402 | 396 | 798 | 15.0 |
| 4SRm 13G/20 -S - PD | | 16 | | 508 | 437 | 945 | 17.9 |
| 4SRm 13G/30 -S - PD | | 22 | | 627 | 492 | 1119 | 22.2 |
| 4SRm 25G/5 -S - PD | | 3 | | 238 | 331 | 569 | 10.2 |
| 4SRm 25G/7 -S - PD | | 5 | | 288 | 331 | 619 | 10.5 |
| 4SRm 25G/10 -S - PD | | 6 | | 313 | 356 | 669 | 12.1 |
| 4SRm 25G/15 -S - PD | | 8 | | 363 | 396 | 759 | 14.3 |
| 4SRm 25G/20 -S - PD | | 11 | | 437 | 437 | 874 | 16.9 |
| 4SRm 25G/30 -S - PD | | 14 | | 538 | 492 | 1030 | 20.8 |
| 4SRm 33G/5 -S - PD | 2" NPT | 3 | | 258 | 331 | 589 | 10.2 |
| 4SRm 33G/7 -S - PD | | 4 | | 289 | 331 | 620 | 10.4 |
| 4SRm 33G/10 -S - PD | | 5 | | 320 | 356 | 676 | 12.1 |
| 4SRm 33G/15 -S - PD | | 6 | | 352 | 396 | 748 | 14.0 |
| 4SRm 33G/20 -S - PD | | 8 | | 415 | 437 | 852 | 16.3 |
| 4SRm 33G/30 -S - PD | | 12 | | 566 | 492 | 1058 | 20.5 |
| 4SRm 45G/10 -S - PD | | 3 | | 258 | 356 | 614 | 11.5 |
| 4SRm 45G/15 -S - PD | | 4 | | 289 | 396 | 685 | 13.5 |
| 4SRm 45G/20 -S - PD | | 6 | | 352 | 437 | 789 | 15.5 |
| 4SRm 45G/30 -S - PD | | 9 | | 446 | 492 | 938 | 19.8 |



## DIMENSIONS AND WEIGHTS (three-phase models)

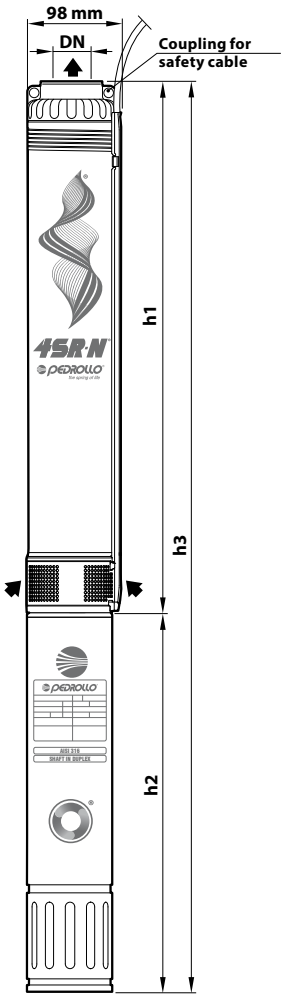
| MODEL | DN | N. | DIMENSIONS mm | | | | kg |
|---|---|---|---|---|---|---|---|
| Three-phase | | STAGES | Ø | h1 | h2 | h3 | 3~ |
| 4SR 7G/5 -S - PD | 1¼" NPT | 7 | 98 | 303 | 331 | 634 | 10.2 |
| 4SR 7G/7 -S - PD | | 10 | | 362 | 331 | 693 | 11.3 |
| 4SR 7G/10 -S - PD | | 13 | | 423 | 356 | 779 | 12.7 |
| 4SR 7G/15 -S - PD | | 17 | | 528 | 371 | 899 | 14.7 |
| 4SR 7G/20 -S - PD | | 23 | | 648 | 396 | 1044 | 17.1 |
| 4SR 7G/30 -S - PD | | 32 | | 924 | 437 | 1361 | 23.1 |
| 4SR 10G/5 -S - PD | | 6 | | 283 | 331 | 614 | 10.8 |
| 4SR 10G/7 -S - PD | | 9 | | 343 | 331 | 674 | 11.2 |
| 4SR 10G/10 -S - PD | | 12 | | 402 | 356 | 758 | 13.0 |
| 4SR 10G/15 -S - PD | | 16 | | 508 | 371 | 879 | 15.2 |
| 4SR 10G/20 -S - PD | | 21 | | 608 | 396 | 1004 | 17.9 |
| 4SR 10G/30 -S - PD | | 27 | | 727 | 437 | 1164 | 20.5 |
| 4SR 10G/50 -S - PD | | 42 | | 1123 | 505 | 1628 | 25.6 |
| 4SR 13G/5 -S - PD | | 5 | | 263 | 331 | 594 | 10.6 |
| 4SR 13G/7 -S - PD | | 7 | | 303 | 331 | 634 | 10.9 |
| 4SR 13G/10 -S - PD | | 9 | | 343 | 356 | 699 | 12.5 |
| 4SR 13G/15 -S - PD | | 12 | | 402 | 371 | 774 | 14.2 |
| 4SR 13G/20 -S - PD | | 16 | | 508 | 396 | 904 | 16.4 |
| 4SR 13G/30 -S - PD | | 22 | | 627 | 437 | 1064 | 19.0 |
| 4SR 13G/50 -S - PD | | 34 | | 964 | 505 | 1469 | 29.2 |
| 4SR 25G/5 -S - PD | | 3 | | 238 | 331 | 569 | 10.2 |
| 4SR 25G/7 -S - PD | | 5 | | 288 | 331 | 619 | 10.5 |
| 4SR 25G/10 -S - PD | | 6 | | 313 | 356 | 669 | 12.1 |
| 4SR 25G/15 -S - PD | | 8 | | 363 | 371 | 734 | 13.5 |
| 4SR 25G/20 -S - PD | | 11 | | 437 | 396 | 833 | 15.4 |
| 4SR 25G/30 -S - PD | | 14 | | 538 | 437 | 975 | 17.6 |
| 4SR 25G/50 -S - PD | | 23 | | 762 | 505 | 1267 | 24.6 |
| 4SR 25G/75 -S - PD | | 34 | | 1134 | 589 | 1723 | 34.5 |
| 4SR 33G/5 -S - PD | 2" NPT | 3 | | 258 | 331 | 589 | 10.2 |
| 4SR 33G/7 -S - PD | | 4 | | 289 | 331 | 620 | 10.4 |
| 4SR 33G/10 -S - PD | | 5 | | 320 | 356 | 676 | 12.1 |
| 4SR 33G/15 -S - PD | | 6 | | 352 | 371 | 723 | 13.2 |
| 4SR 33G/20 -S - PD | | 8 | | 415 | 396 | 811 | 14.8 |
| 4SR 33G/30 -S - PD | | 12 | | 566 | 437 | 1003 | 17.3 |
| 4SR 33G/50 -S - PD | | 19 | | 786 | 505 | 1291 | 24.6 |
| 4SR 33G/75 -S - PD | | 28 | | 1095 | 589 | 1684 | 32.5 |
| 4SR 33G/100 -S - PD | | 36 | | 1418 | 800 | 2218 | 47.0 |
| 4SR 45G/10 -S - PD | | 3 | | 258 | 356 | 614 | 11.5 |
| 4SR 45G/15 -S - PD | | 4 | | 289 | 371 | 660 | 12.6 |
| 4SR 45G/20 -S - PD | | 6 | | 352 | 396 | 748 | 14.0 |
| 4SR 45G/30 -S - PD | | 9 | | 446 | 437 | 883 | 16.6 |
| 4SR 45G/50 -S - PD | | 14 | | 629 | 505 | 1134 | 22.4 |
| 4SR 45G/75 -S - PD | | 22 | | 907 | 589 | 1496 | 29.9 |
| 4SR 45G/100 -S - PD | | 28 | | 1095 | 800 | 1895 | 41.1 |



## DIMENSIONS AND WEIGHT

| MODEL | DN | N. | DIMENSIONS mm | | | | kg |
|---|---|---|---|---|---|---|---|
| Single-phase | | STAGES | Ø | h1 | h2 | h3 | 1~ |
| 4SRm 60G/10 - N - PD | 2" NPT | 3 | 98 | 328 | 356 | 684 | 11.8 |
| 4SRm 60G/15 - N - PD | | 5 | | 430 | 396 | 826 | 14.4 |
| 4SRm 60G/20 - N - PD | | 7 | | 532 | 437 | 969 | 16.8 |
| 4SRm 60G/30 - N - PD | | 9 | | 634 | 492 | 1126 | 20.8 |
| 4SRm 75G/10 - N - PD | | 3 | | 363 | 356 | 719 | 11.9 |
| 4SRm 75G/15 - N - PD | | 4 | | 425 | 396 | 821 | 14.0 |
| 4SRm 75G/20 - N - PD | | 6 | | 551 | 437 | 988 | 16.4 |
| 4SRm 75G/30 - N - PD | | 8 | | 676 | 492 | 1168 | 21.1 |
| 4SRm 90G/15 - N - PD | | 4 | | 425 | 396 | 821 | 14.0 |
| 4SRm 90G/20 - N - PD | | 6 | | 551 | 437 | 988 | 16.4 |
| 4SRm 90G/30 - N - PD | | 8 | | 676 | 492 | 1168 | 21.1 |
| 4SR 105G/15 - N - PD | | 3 | | 378 | 396 | 774 | 13.6 |
| 4SR 105G/20 - N - PD | | 4 | | 446 | 437 | 883 | 15.6 |
| 4SR 105G/30 - N - PD | | 6 | | 582 | 492 | 1074 | 19.7 |

| MODEL | DN | N. | DIMENSIONS mm | | | | kg |
|---|---|---|---|---|---|---|---|
| Three-phase | | STAGES | Ø | h1 | h2 | h3 | 3~ |
| 4SR 60G/10 - N - PD | 2" NPT | 3 | 98 | 328 | 356 | 684 | 11.8 |
| 4SR 60G/15 - N - PD | | 5 | | 430 | 371 | 801 | 13.6 |
| 4SR 60G/20 - N - PD | | 7 | | 532 | 396 | 928 | 15.3 |
| 4SR 60G/30 - N - PD | | 9 | | 634 | 437 | 1071 | 17.6 |
| 4SR 60G/50 - N - PD | | 14 | | 888 | 505 | 1393 | 24.3 |
| 4SR 60G/75 - N - PD | | 21 | | 1245 | 589 | 1834 | 31.4 |
| 4SR 60G/100 - N - PD | | 28 | | 1602 | 800 | 2402 | 43.4 |
| 4SR 75G/10 - N - PD | | 3 | | 363 | 356 | 719 | 11.9 |
| 4SR 75G/15 - N - PD | | 4 | | 425 | 371 | 796 | 13.2 |
| 4SR 75G/20 - N - PD | | 6 | | 551 | 396 | 947 | 14.9 |
| 4SR 75G/30 - N - PD | | 8 | | 676 | 437 | 1113 | 17.9 |
| 4SR 75G/50 - N - PD | | 13 | | 989 | 505 | 1494 | 24.9 |
| 4SR 75G/75 - N - PD | | 20 | | 1427 | 589 | 2016 | 32.5 |
| 4SR 75G/100 - N - PD | | 27 | | 1865 | 800 | 2665 | 45.1 |
| 4SR 90G/15 - N - PD | | 4 | | 425 | 371 | 796 | 13.2 |
| 4SR 90G/20 - N - PD | | 6 | | 551 | 396 | 947 | 14.9 |
| 4SR 90G/30 - N - PD | | 8 | | 676 | 437 | 1113 | 17.9 |
| 4SR 90G/50 - N - PD | | 12 | | 926 | 505 | 1431 | 24.4 |
| 4SR 90G/75 - N - PD | | 18 | | 1302 | 589 | 1891 | 31.5 |
| 4SR 90G/100 - N - PD | | 26 | | 1803 | 800 | 2603 | 44.5 |
| 4SR 105G/15 - N - PD | | 3 | | 378 | 371 | 749 | 12.8 |
| 4SR 105G/20 - N - PD | | 4 | | 446 | 396 | 842 | 14.1 |
| 4SR 105G/30 - N - PD | | 6 | | 582 | 437 | 1019 | 16.5 |
| 4SR 105G/50 - N - PD | | 9 | | 786 | 505 | 1291 | 22.4 |
| 4SR 105G/75 - N - PD | | 13 | | 1058 | 589 | 1647 | 28.3 |
| 4SR 105G/100- N - PD | | 19 | | 1465 | 800 | 2265 | 41.5 |



## DIMENSIONS AND WEIGHT

| MODEL Single-phase | DN | N. STAGES | DIMENSIONS mm h1 | h2 | h3 | kg 1~ |
|---|---|---|---|---|---|---|
| 4SRm 60G/15 - PD | 2" NPT | 4 | 365 | 396 | 761 | 14.2 |
| 4SRm 60G/20 - PD | | 5 | 416 | 437 | 853 | 16.1 |
| 4SRm 60G/30 - PD | | 7 | 518 | 492 | 1010 | 20.2 |
| 4SRm 75G/15 - PD | | 3 | 314 | 396 | 710 | 13.8 |
| 4SRm 75G/20 - PD | | 4 | 365 | 437 | 802 | 15.7 |
| 4SRm 75G/30 - PD | | 5 | 416 | 492 | 908 | 19.3 |
| 4SRm 90G/20 - PD | | 3 | 317 | 437 | 754 | 15.4 |
| 4SRm 90G/30 - PD | | 4 | 369 | 492 | 861 | 19.0 |

| MODEL Three-phase | DN | N. STAGES | DIMENSIONS mm h1 | h2 | h3 | kg 3~ |
|---|---|---|---|---|---|---|
| 4SR 60G/15 - PD | 2" NPT | 4 | 365 | 371 | 736 | 13.4 |
| 4SR 60G/20 - PD | | 5 | 416 | 396 | 812 | 14.6 |
| 4SR 60G/30 - PD | | 7 | 518 | 437 | 955 | 17.0 |
| 4SR 60G/50 - PD | | 12 | 810 | 505 | 1315 | 24.1 |
| 4SR 60G/75 - PD | | 18 | 1154 | 700 | 1854 | 35.7 |
| 4SR 60G/100 - PD | | 25 | 1548 | 800 | 2348 | 44.1 |
| 4SR 75G/15 - PD | | 3 | 314 | 371 | 685 | 13.0 |
| 4SR 75G/20 - PD | | 4 | 365 | 396 | 761 | 14.2 |
| 4SR 75G/30 - PD | | 5 | 416 | 437 | 853 | 16.1 |
| 4SR 75G/50 - PD | | 9 | 658 | 505 | 1163 | 22.7 |
| 4SR 75G/75 - PD | | 14 | 950 | 700 | 1650 | 33.6 |
| 4SR 75G/100 - PD | | 19 | 1206 | 800 | 2006 | 40.2 |
| 4SR 90G/20 - PD | | 3 | 317 | 396 | 713 | 13.9 |
| 4SR 90G/30 - PD | | 4 | 369 | 437 | 806 | 15.8 |
| 4SR 90G/50 - PD | | 7 | 525 | 505 | 1030 | 21.4 |
| 4SR 90G/75 - PD | | 11 | 770 | 700 | 1470 | 32.2 |
| 4SR 90G/100 - PD | | 15 | 1016 | 800 | 1816 | 38.5 |

