

Submersible

Pumps • Motors

50Hz **4"**
Submersible Pump

Pumping Solution

Product data

4"

Stainless steel submersible bore well pumps

Construction

- Submersible motor & pumps for deep wells of 4" (DN 100 mm).
- Sized for connection to the motor according to NEMA standards.
- Delivery casing with built-in non-return valve.
- All standard pumps are completely manufactured out of stainless steel AISI 304 sheet metal.
- Impellers:**
 - Radial flow impellers**
W1A, W2A, W3A, W5A
 - Mixed flow impellers**
W8A, W14A
- Connection: Screwed pipe connection with BSP thread as standard.

Applications

- Water supply
- Irrigation
- Civil
- Industrial
- Fire fighting

Performance range

- Flow range: Max. 18.8 m³/h
- Head range: Max. 547 metres

Operating conditions

- Liquid temperature: 0°C to +45°C
- Max. sand content into the water: 50 g/m³
- Max. starts per hour: 30 at regular intervals
- Direction of rotation: Clockwise as seen from the pump coupling side

Special construction on request

- Also available in stainless steel AISI 316 material (for sea water application).
- Also available with NPT thread pipe connection.

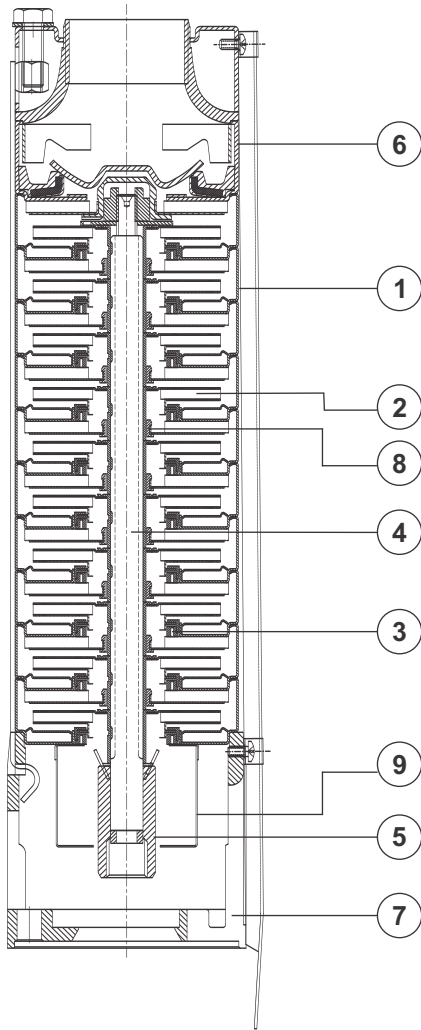


Construction

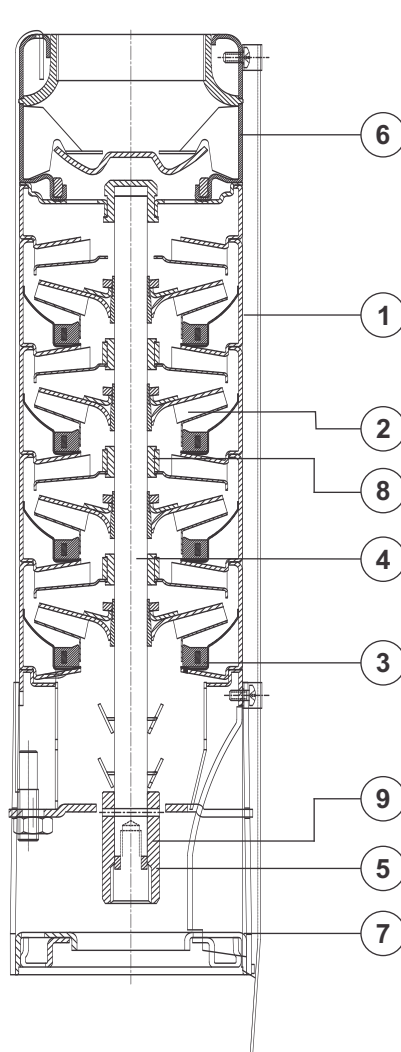
Stainless steel submersible bore well pumps

4"

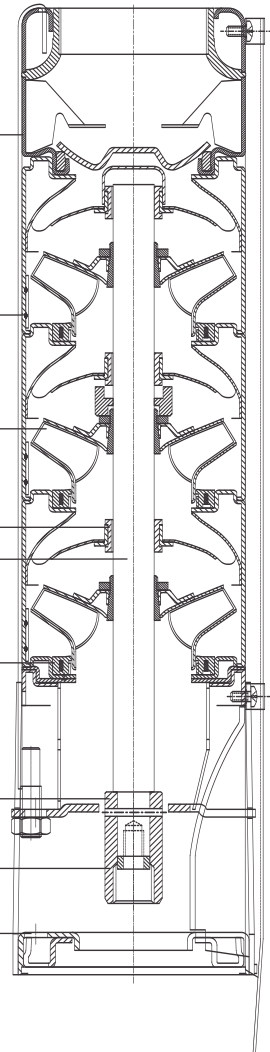
Sectional drawing



“W” type pump
W1A, W2A, W3A, W5A



“W” type pump
W8A



“W” type pump
W14A

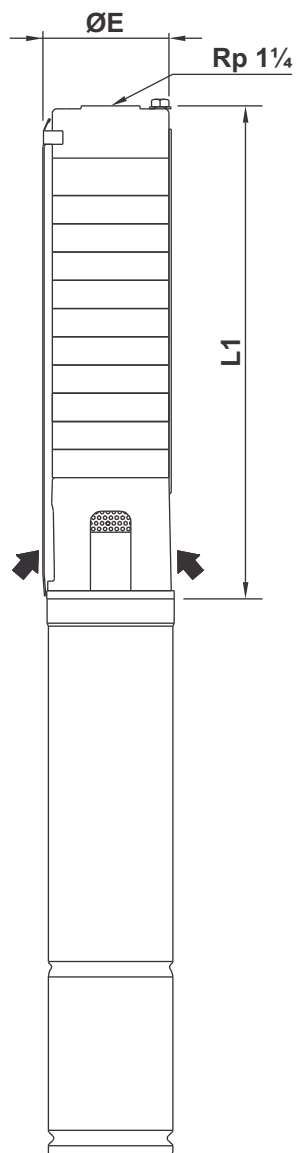
Materials

| Pos. | Component | Material |
|------|-----------------|--------------------------|
| 1 | Bowl / Diffuser | Stainless steel AISI 304 |
| 2 | Impeller | Stainless steel AISI 304 |
| 3 | Neck ring | NBR |
| 4 | Shaft | Stainless steel AISI 316 |
| 5 | Couple | Stainless steel AISI 316 |
| 6 | Delivery casing | Stainless steel AISI 304 |
| 7 | Suction case | Stainless steel AISI 304 |
| 8 | Bearing bush | NBR |
| 9 | Strainer | Stainless steel AISI 304 |

Technical data

Radial flow 4" stainless steel submersible bore well pumps

W1A



Performance chart

| Pump type | Motor type | | kW | HP | Q m ³ /h l/min | n = 2900 rpm | | | | | |
|-----------|------------|--------------|------|------|---------------------------------|--------------|-----|-----|-----|-----|------|
| | Oil filled | Water filled | | | | 0 | 0.2 | 0.6 | 0.9 | 1.2 | 1.5 |
| | | | | | | 0 | 3.3 | 10 | 15 | 20 | 24.7 |
| W1A/9 | H4505 | L4505 | 0.37 | 0.50 | H mts. | 53 | 53 | 47 | 39 | 28 | 14 |
| W1A/14 | H4505 | L4505 | 0.37 | 0.50 | | 81 | 79 | 70 | 58 | 40 | 20 |
| W1A/18 | H4507 | L4507 | 0.55 | 0.75 | | 106 | 103 | 92 | 76 | 54 | 26 |
| W1A/21 | H4507 | L4507 | 0.55 | 0.75 | | 122 | 119 | 105 | 87 | 61 | 30 |
| W1A/28 | H4510 | L4510 | 0.75 | 1.00 | | 163 | 160 | 142 | 118 | 83 | 40 |
| W1A/36 | H4515 | L4515 | 1.10 | 1.50 | | 199 | 196 | 170 | 137 | 93 | 48 |
| W1A/42 | H4515 | L4515 | 1.10 | 1.50 | | 231 | 226 | 197 | 158 | 107 | 54 |
| W1A/50 | H4520 | L4520 | 1.50 | 2.00 | | 277 | 271 | 236 | 188 | 130 | 67 |
| W1A/57 | H4520 | L4520 | 1.50 | 2.00 | | 313 | 306 | 266 | 213 | 145 | 73 |

Dimensions & weights of only Pump

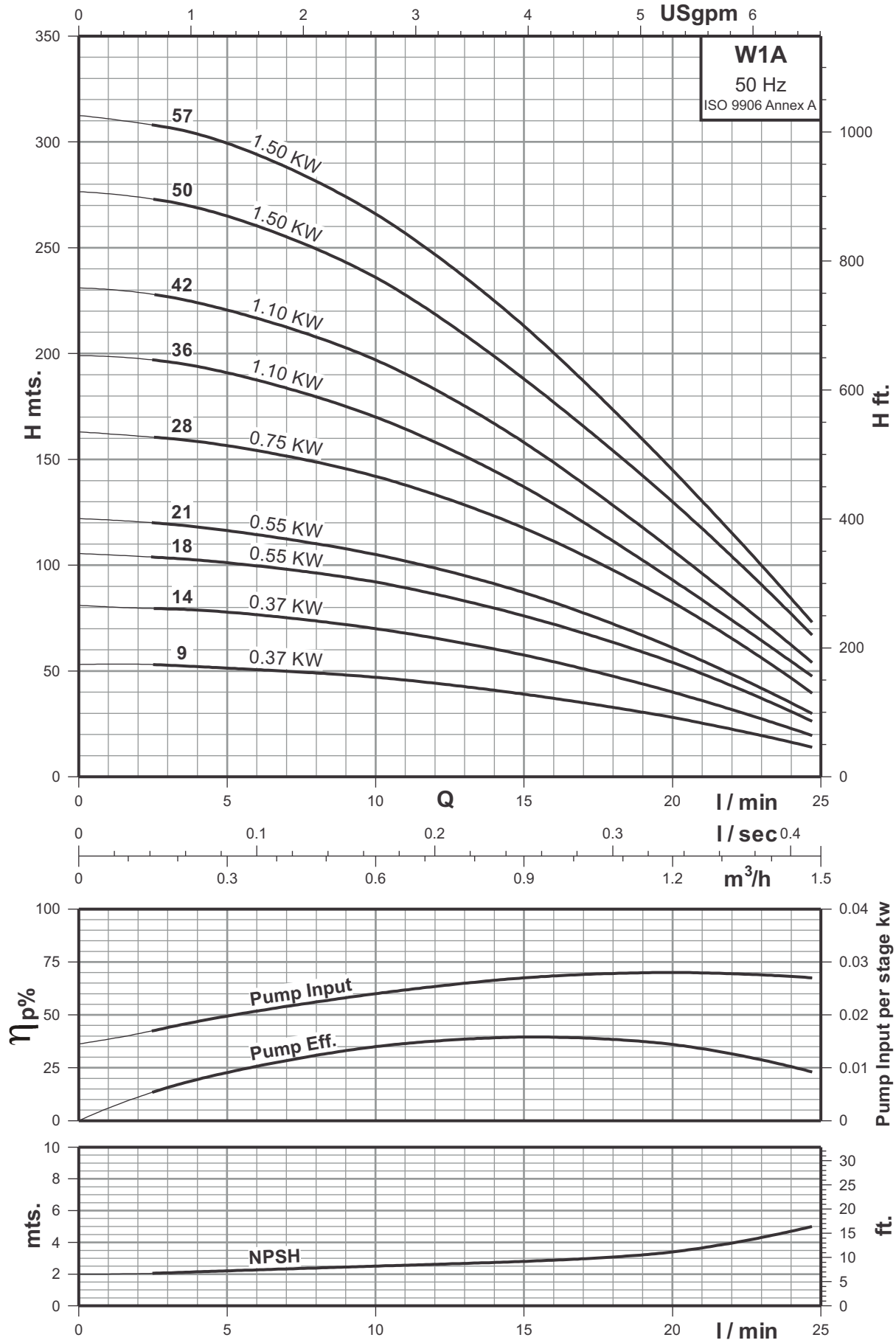
| Pump Type | Motor Joining Size | ØE [mm] | L1 [mm] | Pump Gross weight [kg] | Pump Gross volume [m ³] |
|-----------|--------------------|---------|---------|------------------------|-------------------------------------|
| W1A/9 | 4" | 101 | 344 | 4.2 | 0.0051 |
| W1A/14 | 4" | 101 | 449 | 5.6 | 0.0106 |
| W1A/18 | 4" | 101 | 533 | 6.5 | 0.0106 |
| W1A/21 | 4" | 101 | 596 | 7.2 | 0.0106 |
| W1A/28 | 4" | 101 | 743 | 8.8 | 0.0106 |
| W1A/36 | 4" | 101 | 956 | 10.6 | 0.0106 |
| W1A/42 | 4" | 101 | 1082 | 12.2 | 0.0162 |
| W1A/50 | 4" | 101 | 1250 | 14.0 | 0.0162 |
| W1A/57 | 4" | 101 | 1397 | 15.7 | 0.0162 |

Note: ØE = For single cable motor maximum diameter of pump inclusive of cable guard.
All dimensions in mm unless otherwise noted.

Performance curves

Radial flow 4" stainless steel submersible bore well pumps

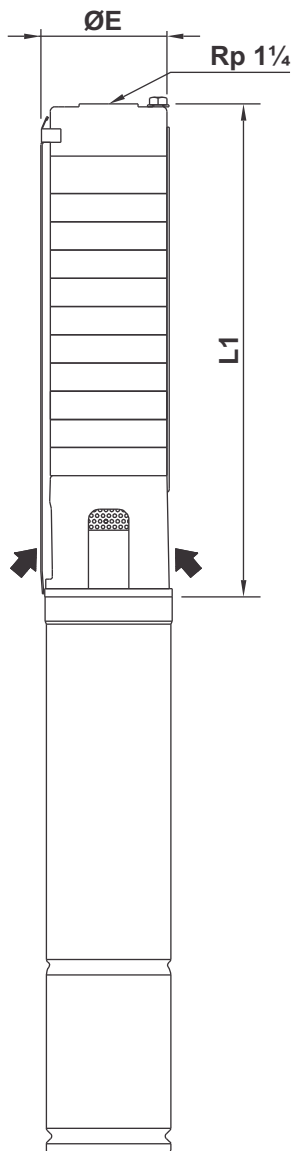
W1A



Technical data

Radial flow 4" stainless steel submersible bore well pumps

W2A



Performance chart

| Pump type | Motor type | | kW | HP | Q m ³ /h l/min | n = 2900 rpm | | | | | |
|-----------|------------|--------------|------|------|---------------------------------|--------------|-----|-----|-----|-----|-----|
| | Oil filled | Water filled | | | | 0 | 0.4 | 1.2 | 1.6 | 1.9 | 2.7 |
| | | | | | | 0 | 6.7 | 20 | 27 | 33 | 45 |
| W2A/6 | H4505 | L4505 | 0.37 | 0.50 | H mts. | 36 | 35 | 32 | 29 | 24 | 10 |
| W2A/9 | H4505 | L4505 | 0.37 | 0.50 | | 54 | 52 | 47 | 41 | 34 | 14 |
| W2A/13 | H4507 | L4507 | 0.55 | 0.75 | | 78 | 76 | 67 | 59 | 50 | 21 |
| W2A/18 | H4510 | L4510 | 0.75 | 1.00 | | 108 | 105 | 93 | 83 | 69 | 29 |
| W2A/23 | H4515 | L4515 | 1.10 | 1.50 | | 138 | 135 | 120 | 107 | 90 | 39 |
| W2A/28 | H4520 | L4520 | 1.50 | 2.00 | | 168 | 165 | 147 | 132 | 110 | 48 |
| W2A/33 | H4520 | L4520 | 1.50 | 2.00 | | 196 | 192 | 171 | 154 | 128 | 54 |
| W2A/40 | H4530 | L4530 | 2.20 | 3.00 | | 245 | 239 | 213 | 190 | 158 | 62 |
| W2A/48 | H4530 | L4530 | 2.20 | 3.00 | | 292 | 284 | 252 | 225 | 185 | 70 |
| W2A/55 | H4540 | L4540 | 3.00 | 4.00 | | 336 | 327 | 290 | 260 | 214 | 85 |
| W2A/65 | H4540 | L4540 | 3.00 | 4.00 | | 394 | 385 | 340 | 302 | 249 | 94 |
| W2A/75 | H4555 | L4555 | 4.00 | 5.50 | | 458 | 447 | 397 | 355 | 293 | 118 |
| W2A/90 | H4555 | L4555 | 4.00 | 5.50 | | 547 | 532 | 469 | 419 | 344 | 129 |

Dimensions & weights of only Pump

| Pump Type | Motor Joining Size | ØE [mm] | L1 [mm] | Pump Gross weight [kg] | Pump Gross volume [m ³] |
|-----------|--------------------|---------|---------|------------------------|-------------------------------------|
| W2A/6 | 4" | 101 | 281 | 3.5 | 0.0051 |
| W2A/9 | 4" | 101 | 344 | 4.2 | 0.0051 |
| W2A/13 | 4" | 101 | 428 | 5.3 | 0.0106 |
| W2A/18 | 4" | 101 | 533 | 6.5 | 0.0106 |
| W2A/23 | 4" | 101 | 638 | 7.6 | 0.0106 |
| W2A/28 | 4" | 101 | 743 | 8.8 | 0.0106 |
| W2A/33 | 4" | 101 | 844 | 9.9 | 0.0106 |
| W2A/40 | 4" | 101 | 1040 | 11.7 | 0.0162 |
| W2A/48 | 4" | 101 | 1208 | 13.6 | 0.0162 |
| W2A/55 | 4" | 101 | 1355 | 15.2 | 0.0162 |
| W2A/65 | 4" | 101 | 1565 | 18.0 | 0.0204 |
| W2A/75 | 4" | 101 | 1954 | 20.3 | 0.0204 |
| W2A/90 | 4" | 108 | 2269 | 68.0 | 0.0630 |

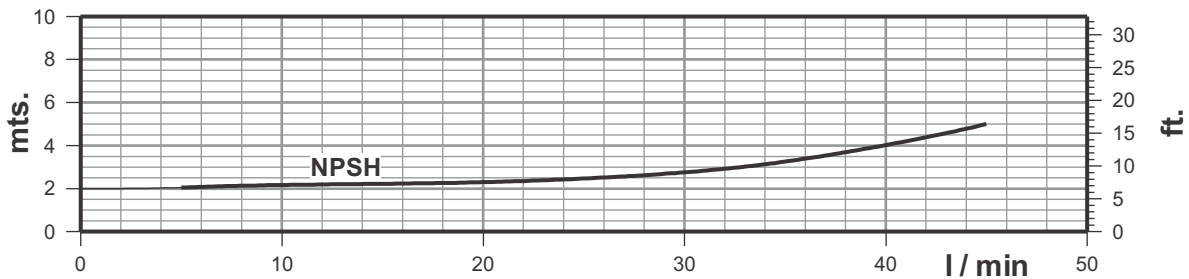
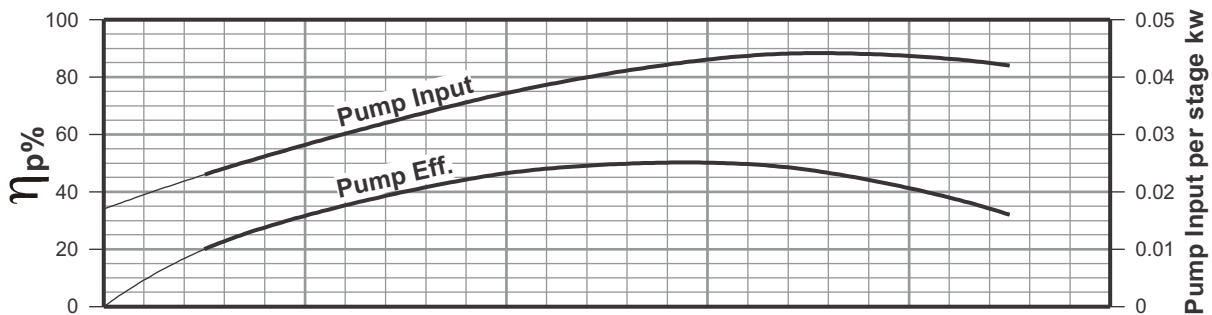
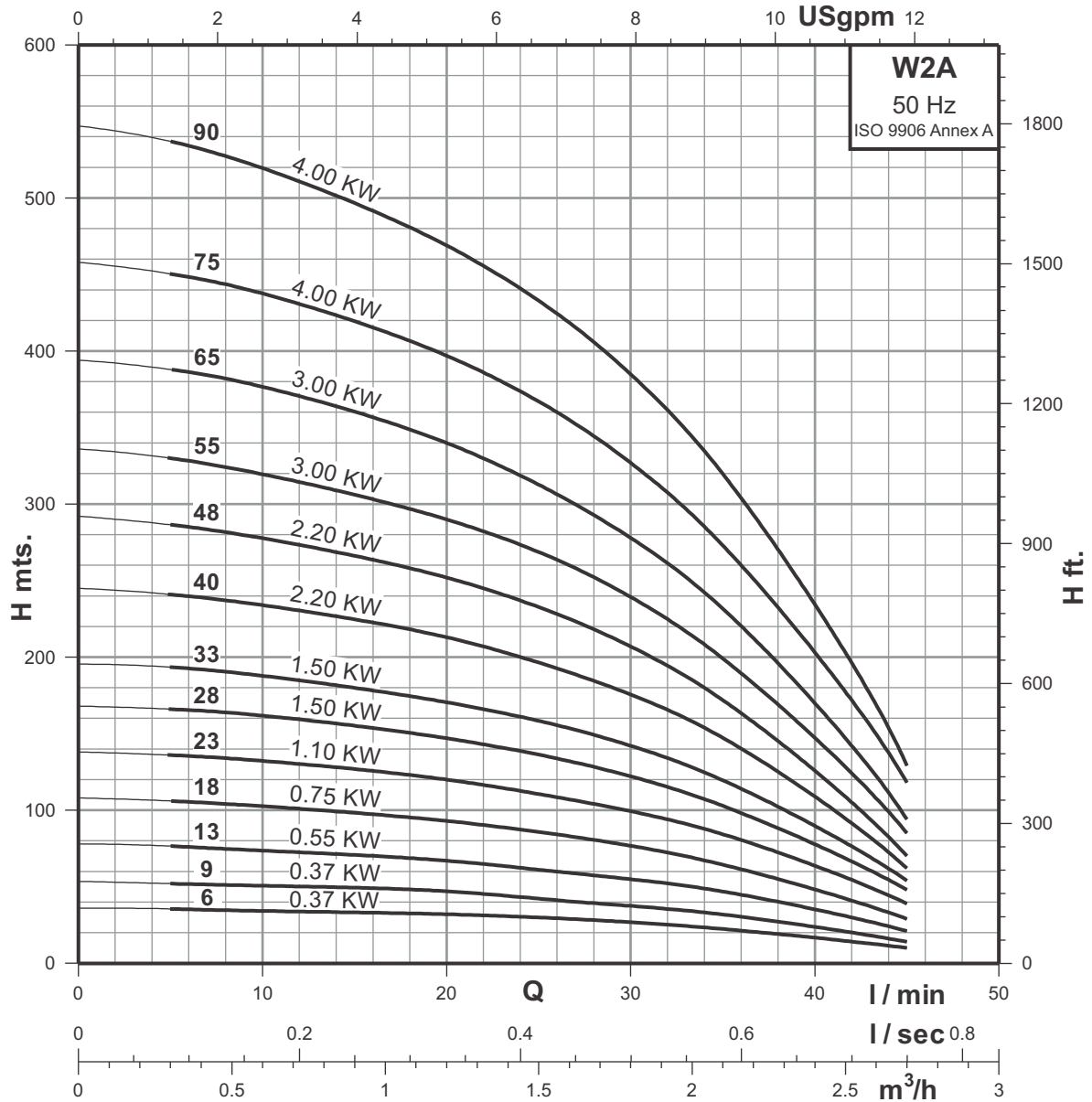
Note: ØE = For single cable motor maximum diameter of pump inclusive of cable guard.
All dimensions in mm unless otherwise noted.

W2A/90 is mounted in sleeve for Rp 2 connection.

Performance curves

Radial flow 4" stainless steel submersible bore well pumps

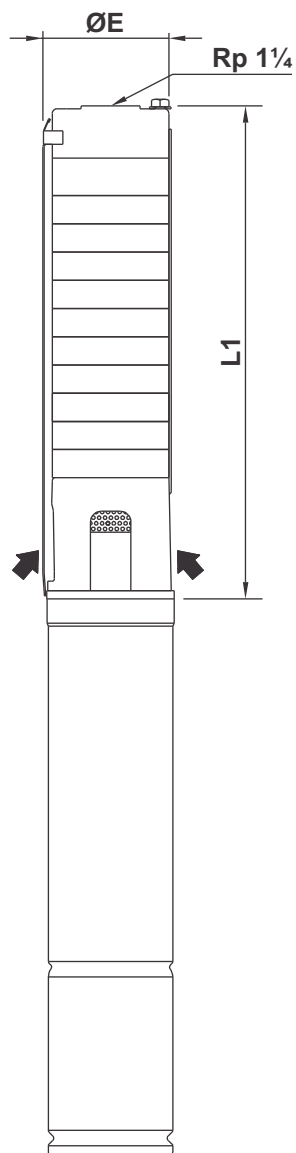
W2A



Technical data

Radial flow 4" stainless steel submersible bore well pumps

W3A



Performance chart

| Pump type | Motor type | | kW | HP | Q m ³ /h l/min | n = 2900 rpm | | | | | |
|-----------|------------|--------------|------|------|---------------------------------|--------------|-----|-----|-----|-----|-----|
| | Oil filled | Water filled | | | | 0 | 0.8 | 1.6 | 2.4 | 3.1 | 4.3 |
| | | | | | | 0 | 13 | 27 | 40 | 53 | 73 |
| W3A/6 | H4505 | L4505 | 0.37 | 0.50 | H mts. | 38 | 36 | 33 | 30 | 24 | 10 |
| W3A/9 | H4507 | L4507 | 0.55 | 0.75 | | 57 | 54 | 50 | 44 | 36 | 15 |
| W3A/12 | H4510 | L4510 | 0.75 | 1.00 | | 76 | 72 | 67 | 60 | 49 | 20 |
| W3A/15 | H4515 | L4515 | 1.10 | 1.50 | | 95 | 90 | 84 | 76 | 62 | 26 |
| W3A/18 | H4515 | L4515 | 1.10 | 1.50 | | 113 | 107 | 100 | 90 | 73 | 30 |
| W3A/22 | H4520 | L4520 | 1.50 | 2.00 | | 139 | 131 | 122 | 110 | 89 | 38 |
| W3A/25 | H4520 | L4520 | 1.50 | 2.00 | | 157 | 149 | 138 | 124 | 100 | 41 |
| W3A/29 | H4530 | L4530 | 2.20 | 3.00 | | 184 | 174 | 163 | 147 | 120 | 52 |
| W3A/33 | H4530 | L4530 | 2.20 | 3.00 | | 209 | 197 | 184 | 166 | 135 | 57 |
| W3A/39 | H4540 | L4540 | 3.00 | 4.00 | | 246 | 233 | 220 | 201 | 170 | 90 |
| W3A/45 | H4540 | L4540 | 3.00 | 4.00 | | 282 | 267 | 252 | 230 | 193 | 100 |
| W3A/52 | H4555 | L4555 | 4.00 | 5.50 | | 328 | 310 | 294 | 269 | 227 | 120 |
| W3A/60 | H4555 | L4555 | 4.00 | 5.50 | | 378 | 357 | 336 | 306 | 258 | 134 |
| W3A/75 | H4575 | L4575 | 5.50 | 7.50 | | 434 | 408 | 378 | 343 | 291 | 162 |

Dimensions & weights of only Pump

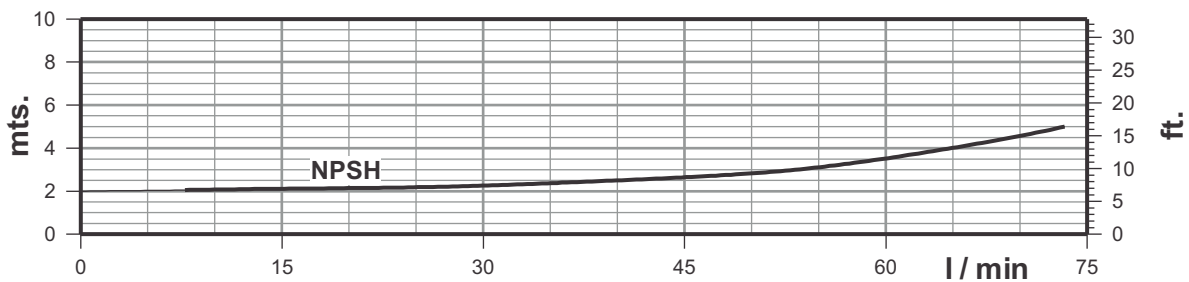
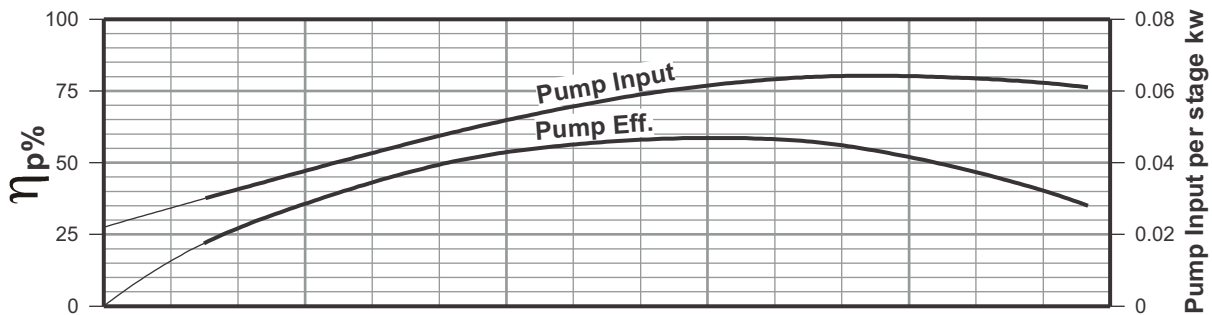
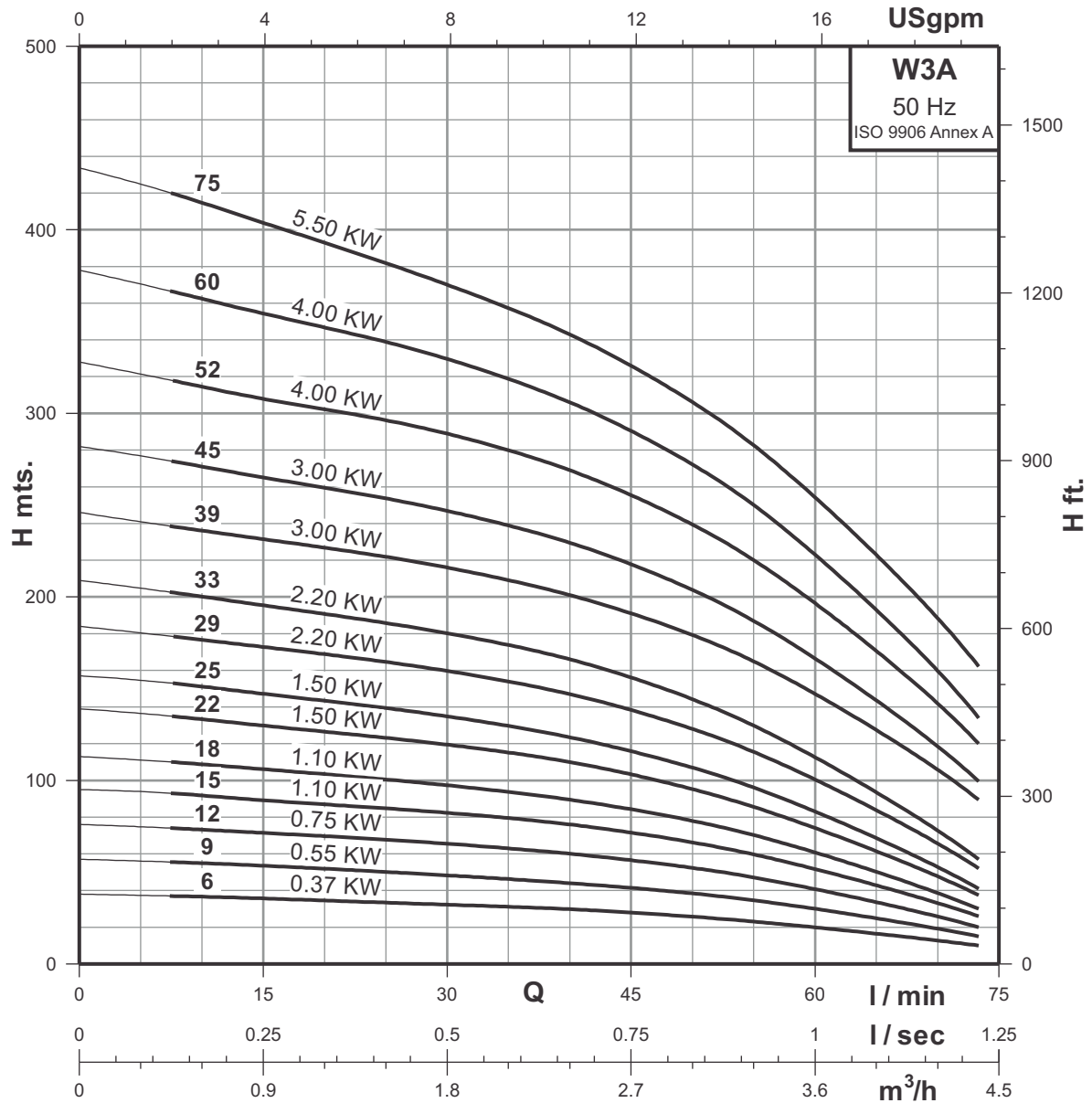
| Pump Type | Motor Joining Size | ØE [mm] | L1 [mm] | Pump Gross weight [kg] | Pump Gross volume [m ³] |
|-----------|--------------------|---------|---------|------------------------|-------------------------------------|
| W3A/6 | 4" | 101 | 281 | 3.5 | 0.0051 |
| W3A/9 | 4" | 101 | 344 | 4.2 | 0.0051 |
| W3A/12 | 4" | 101 | 407 | 4.9 | 0.0051 |
| W3A/15 | 4" | 101 | 470 | 5.8 | 0.0106 |
| W3A/18 | 4" | 101 | 533 | 6.5 | 0.0106 |
| W3A/22 | 4" | 101 | 617 | 7.4 | 0.0106 |
| W3A/25 | 4" | 101 | 680 | 8.1 | 0.0106 |
| W3A/29 | 4" | 101 | 764 | 9.0 | 0.0106 |
| W3A/33 | 4" | 101 | 848 | 9.9 | 0.0106 |
| W3A/39 | 4" | 101 | 1019 | 11.5 | 0.0162 |
| W3A/45 | 4" | 101 | 1145 | 12.9 | 0.0162 |
| W3A/52 | 4" | 101 | 1292 | 14.5 | 0.0162 |
| W3A/60 | 4" | 101 | 1460 | 16.3 | 0.0162 |
| W3A/75 | 4" | 101 | 1783 | 20.3 | 0.0204 |

Note: ØE = For single cable motor maximum diameter of pump inclusive of cable guard.
All dimensions in mm unless otherwise noted.

Performance curves

Radial flow 4" stainless steel submersible bore well pumps

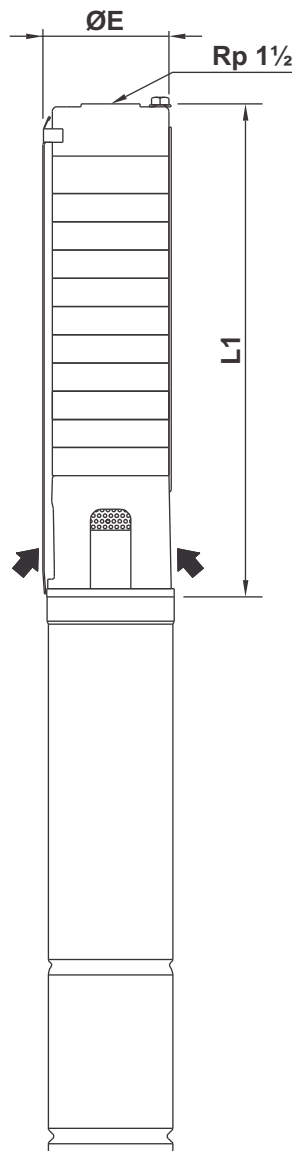
W3A



Technical data

Radial flow 4" stainless steel submersible bore well pumps

W5A



Performance chart

| Pump type | Motor type | | kW | HP | Q m ³ /h l/min | n = 2900 rpm | | | | | |
|-----------|------------|--------------|------|------|---------------------------------|--------------|-----|-----|-----|-----|-----|
| | Oil filled | Water filled | | | | 0 | 0.7 | 2.4 | 4 | 5.5 | 6.7 |
| | | | | | | 0 | 13 | 40 | 67 | 93 | 113 |
| W5A/4 | H4505 | L4505 | 0.37 | 0.50 | H mts. | 26 | 24 | 23 | 20 | 14 | - |
| W5A/6 | H4507 | L4507 | 0.55 | 0.75 | | 39 | 36 | 32 | 29 | 20 | 11 |
| W5A/8 | H4510 | L4510 | 0.75 | 1.00 | | 51 | 48 | 44 | 38 | 27 | 15 |
| W5A/12 | H4515 | L4515 | 1.10 | 1.50 | | 77 | 72 | 65 | 57 | 40 | 22 |
| W5A/17 | H4520 | L4520 | 1.50 | 2.00 | | 109 | 103 | 92 | 80 | 57 | 30 |
| W5A/21 | H4530 | L4530 | 2.20 | 3.00 | | 135 | 127 | 116 | 100 | 73 | 40 |
| W5A/25 | H4530 | L4530 | 2.20 | 3.00 | | 160 | 150 | 137 | 118 | 84 | 45 |
| W5A/33 | H4540 | L4540 | 3.00 | 4.00 | | 211 | 198 | 179 | 154 | 110 | 59 |
| W5A/38 | H4555 | L4555 | 4.00 | 5.50 | | 250 | 236 | 213 | 186 | 134 | 72 |
| W5A/44 | H4555 | L4555 | 4.00 | 5.50 | | 281 | 265 | 239 | 207 | 148 | 80 |
| W5A/52 | H4575 | L4575 | 5.50 | 7.50 | | 333 | 315 | 285 | 249 | 179 | 100 |
| W5A/60 | H4575 | L4575 | 5.50 | 7.50 | | 384 | 365 | 326 | 283 | 202 | 110 |
| W5A/75 | H45100 | L6510-KP | 7.50 | 10.0 | | 480 | 453 | 409 | 355 | 254 | 137 |
| W5A/85 | H45100 | L6510-KP | 7.50 | 10.0 | | 542 | 510 | 459 | 397 | 280 | 150 |

Dimensions & weights of only Pump

| Pump Type | Motor Joining Size | ØE [mm] | L1 [mm] | Pump Gross weight [kg] | Pump Gross volume [m ³] |
|-----------|--------------------|---------|---------|------------------------|-------------------------------------|
| W5A/4 | 4" | 101 | 240 | 3.1 | 0.0051 |
| W5A/6 | 4" | 101 | 282 | 3.5 | 0.0051 |
| W5A/8 | 4" | 101 | 324 | 4.0 | 0.0051 |
| W5A/12 | 4" | 101 | 408 | 4.9 | 0.0051 |
| W5A/17 | 4" | 101 | 513 | 6.3 | 0.0106 |
| W5A/21 | 4" | 101 | 597 | 7.2 | 0.0106 |
| W5A/25 | 4" | 101 | 681 | 8.1 | 0.0106 |
| W5A/33 | 4" | 101 | 849 | 9.9 | 0.0106 |
| W5A/38 | 4" | 101 | 998 | 11.3 | 0.0162 |
| W5A/44 | 4" | 101 | 1124 | 12.7 | 0.0162 |
| W5A/52 | 4" | 101 | 1292 | 14.5 | 0.0162 |
| W5A/60 | 4" | 101 | 1460 | 16.3 | 0.0162 |
| W5A/75 | 4" | 101 | 2146 | 20.3 | 0.0204 |
| W5A/75 | 6" | 142 | 2146 | 24.0 | 0.0450 |
| W5A/85 | 4" | 108 | 2293 | 62.5 | 0.0619 |
| W5A/85 | 6" | 142 | 2356 | 63.5 | 0.0619 |

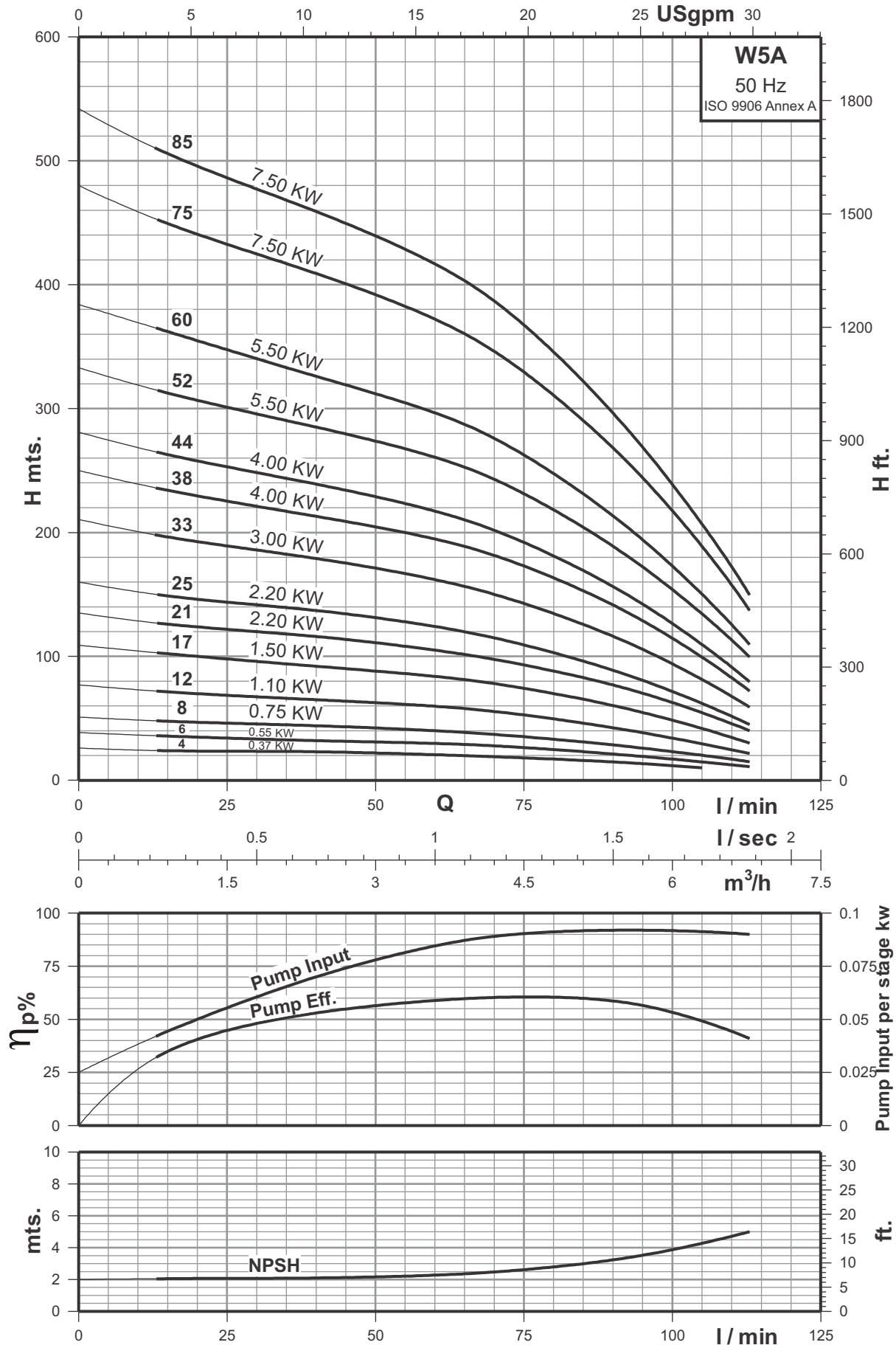
Note: ØE = For single cable motor maximum diameter of pump inclusive of cable guard.
All dimensions in mm unless otherwise noted.

W5A/85 is mounted in sleeve for Rp 2 connection.

Performance curves

Radial flow 4" stainless steel submersible bore well pumps

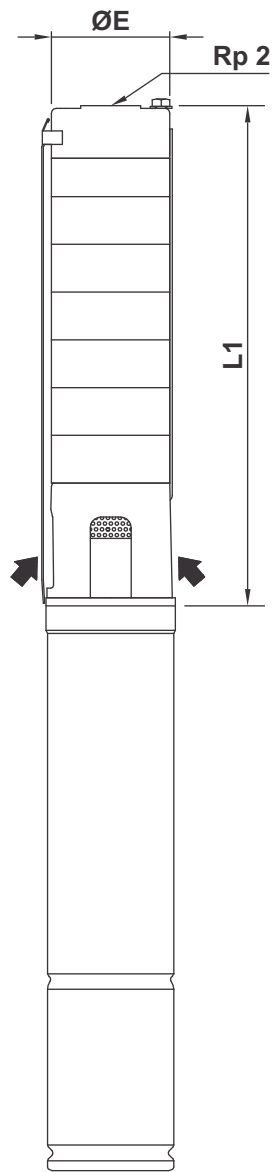
W5A



Technical data

Mixed flow 4" stainless steel submersible bore well pumps

W8A



Performance chart

| Pump type | Motor type | | kW | HP | Q m ³ /h l/min | n = 2900 rpm | | | | | |
|-----------|------------|--------------|------|------|---------------------------------|--------------|-----|-----|-----|-----|------|
| | Oil filled | Water filled | | | | 0 | 3 | 4.9 | 6.4 | 7.9 | 11.4 |
| | | | | | | 0 | 50 | 83 | 108 | 133 | 190 |
| W8A/5 | H4510 | L4510 | 0.75 | 1.00 | H mts. | 30 | 27 | 25 | 23 | 20 | 11 |
| W8A/7 | H4515 | L4515 | 1.10 | 1.50 | | 41 | 38 | 35 | 32 | 29 | 15 |
| W8A/10 | H4520 | L4520 | 1.50 | 2.00 | | 60 | 54 | 49 | 45 | 40 | 22 |
| W8A/12 | H4530 | L4530 | 2.20 | 3.00 | | 73 | 65 | 60 | 56 | 50 | 29 |
| W8A/15 | H4530 | L4530 | 2.20 | 3.00 | | 90 | 80 | 73 | 68 | 61 | 33 |
| W8A/18 | H4540 | L4540 | 3.00 | 4.00 | | 108 | 96 | 87 | 81 | 73 | 40 |
| W8A/21 | H4555 | L4555 | 4.00 | 5.50 | | 127 | 113 | 104 | 97 | 88 | 49 |
| W8A/25 | H4555 | L4555 | 4.00 | 5.50 | | 150 | 134 | 123 | 114 | 104 | 56 |
| W8A/30 | H4575 | L4575 | 5.50 | 7.50 | | 180 | 160 | 146 | 136 | 121 | 64 |
| W8A/37 | H4575 | L4575 | 5.50 | 7.50 | | 221 | 195 | 178 | 165 | 147 | 75 |
| W8A/44 | H45100 | L6510-KP | 7.50 | 10.0 | | 263 | 230 | 210 | 196 | 177 | 90 |
| W8A/50 | H45100 | L6510-KP | 7.50 | 10.0 | | 298 | 260 | 236 | 220 | 198 | 100 |
| W8A/58 | - | L6512-KP | 9.30 | 12.5 | | 346 | 304 | 275 | 256 | 230 | 117 |
| W8A/66 | - | L6515-KP | 11.0 | 15.0 | | 394 | 345 | 315 | 294 | 265 | 133 |
| W8A/73 | - | L6515-KP | 11.0 | 15.0 | | 434 | 380 | 344 | 320 | 290 | 144 |

Dimensions & weights of only Pump

| Pump Type | Motor Joining Size | ØE [mm] | L1 [mm] | Pump Gross weight [kg] | Pump Gross volume [m ³] |
|-----------|--------------------|---------|---------|------------------------|-------------------------------------|
| W8A/5 | 4" | 101 | 409 | 5.0 | 0.0051 |
| W8A/7 | 4" | 101 | 493 | 6.3 | 0.0106 |
| W8A/10 | 4" | 101 | 619 | 8.0 | 0.0106 |
| W8A/12 | 4" | 101 | 703 | 9.1 | 0.0106 |
| W8A/15 | 4" | 101 | 829 | 10.7 | 0.0106 |
| W8A/18 | 4" | 101 | 955 | 12.4 | 0.0106 |
| W8A/21 | 4" | 101 | 1081 | 14.2 | 0.0162 |
| W8A/25 | 4" | 101 | 1249 | 16.4 | 0.0162 |
| W8A/30 | 4" | 101 | 1459 | 19.2 | 0.0162 |
| W8A/37 | 4" | 101 | 1753 | 23.5 | 0.0204 |
| W8A/44 | 4" | 101 | 1815 | 27.7 | 0.0228 |
| W8A/44 | 6" | 142 | 2109 | 29.4 | 0.0503 |
| W8A/50 | 4" | 101 | 2303 | 31.1 | 0.0256 |
| W8A/50 | 6" | 142 | 2361 | 33.3 | 0.0564 |
| W8A/58 | 6" | 142 | 3013 | 38.5 | 0.0645 |
| W8A/66 | 6" | 142 | 3349 | 70.7 | 0.3049 |
| W8A/73 | 6" | 142 | 3643 | 112.8 | 0.3645 |

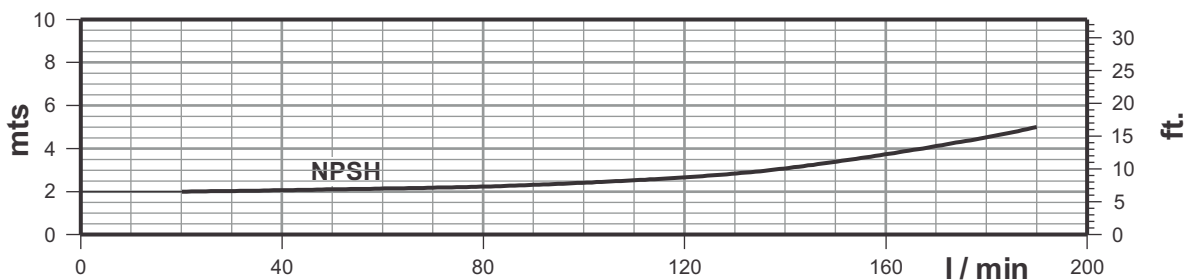
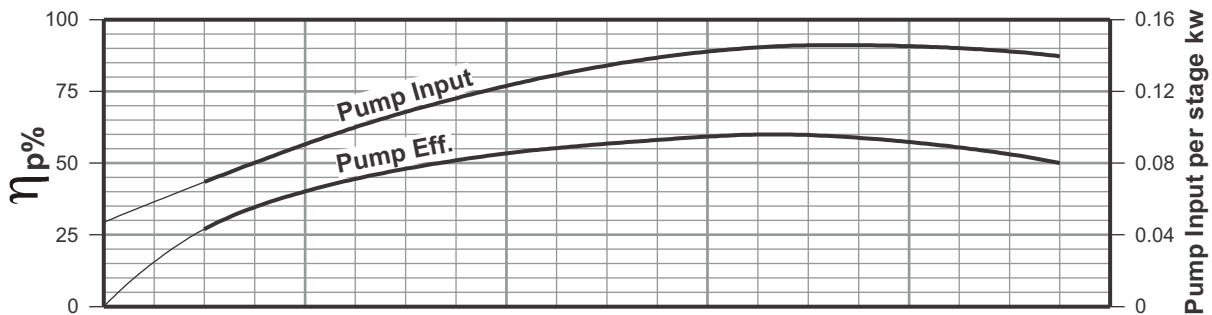
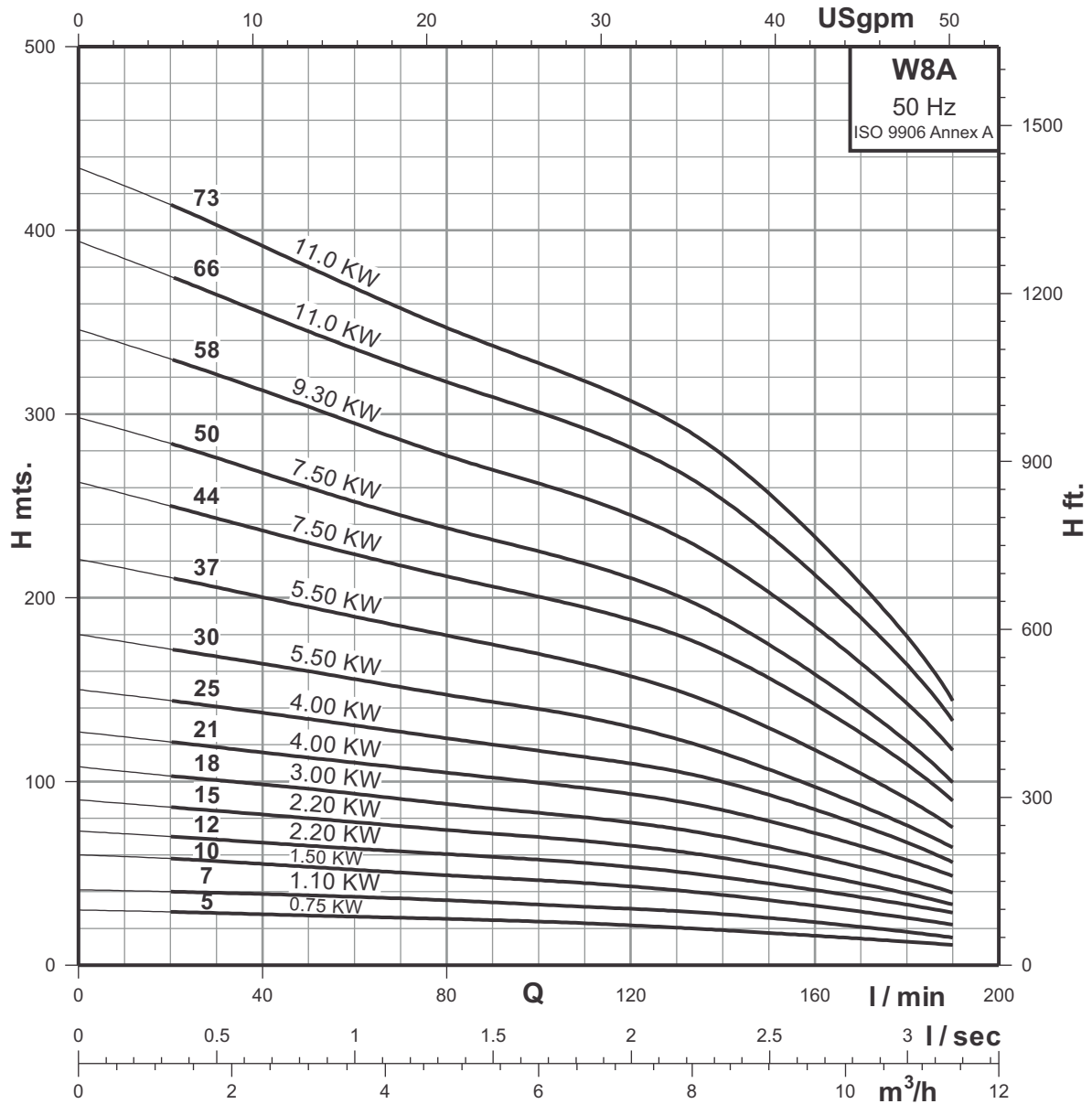
W8A/73 is mounted in sleeve for Rp 2 connection.

Note: ØE = For single cable motor maximum diameter of pump inclusive of cable guard.
All dimensions in mm unless otherwise noted.

Performance curves

Mixed flow 4" stainless steel submersible bore well pumps

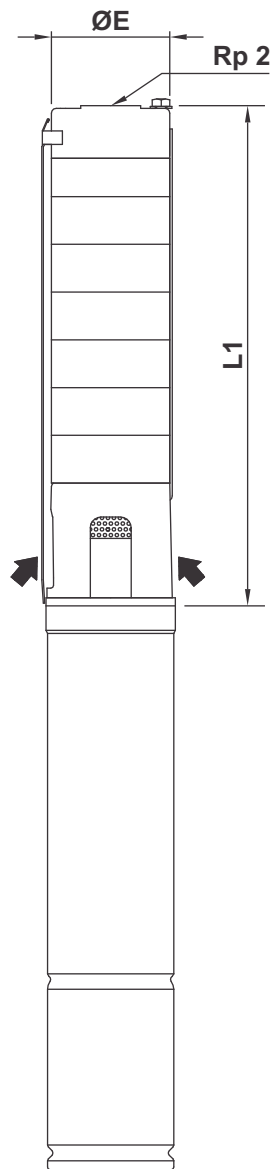
W8A



Technical data

Mixed flow 4" stainless steel submersible bore well pumps

W14A



Performance chart

| Pump type | Motor type | | kW | HP | Q m ³ /h l/min H mts. | n = 2900 rpm | | | | | |
|-----------|------------|--------------|------|------|--|--------------|-----|-----|-----|-----|------|
| | Oil filled | Water filled | | | | 0 | 4 | 7.9 | 12 | 16 | 18.8 |
| | | | | | | 0 | 68 | 133 | 200 | 267 | 313 |
| W14A/5 | H4520 | L4520 | 1.50 | 2.00 | | 33 | 33 | 30 | 26 | 19 | 12 |
| W14A/7 | H4530 | L4530 | 2.20 | 3.00 | | 46 | 46 | 42 | 37 | 27 | 18 |
| W14A/10 | H4540 | L4540 | 3.00 | 4.00 | | 66 | 66 | 60 | 52 | 38 | 24 |
| W14A/13 | H4555 | L4555 | 4.00 | 5.50 | | 86 | 86 | 78 | 67 | 50 | 32 |
| W14A/18 | H4575 | L4575 | 5.50 | 7.50 | | 119 | 118 | 108 | 94 | 69 | 44 |
| W14A/25 | H45100 | L6510-KP | 7.50 | 10.0 | | 164 | 164 | 148 | 129 | 94 | 60 |

Dimensions & weights of only Pump

| Pump Type | Motor Joining Size | ØE [mm] | L1 [mm] | Pump Gross weight [kg] | Pump Gross volume [m ³] |
|-----------|--------------------|---------|---------|------------------------|-------------------------------------|
| W14A/5 | 4" | 101 | 510 | 6.2 | 0.0106 |
| W14A/7 | 4" | 101 | 640 | 7.8 | 0.0106 |
| W14A/10 | 4" | 101 | 835 | 10.2 | 0.0106 |
| W14A/13 | 4" | 101 | 1030 | 12.8 | 0.0162 |
| W14A/18 | 4" | 101 | 1355 | 16.8 | 0.0162 |
| W14A/25 | 4" | 101 | 1810 | 22.9 | 0.0204 |
| W14A/25 | 6" | 142 | 1872 | 26.0 | 0.0540 |

Note: ØE = For single cable motor maximum diameter of pump inclusive of cable guard.
All dimensions in mm unless otherwise noted.

Performance curves

Mixed flow 4" stainless steel submersible bore well pumps

W14A

