

Construction

Submersible borehole pumps for 6" wells (DN 150 mm), 8" (DN 200 mm) and 10" (DN 250 mm), with stages in cast iron or in bronze, on request.

Impellers: - mixed flow impellers.

Connection: - screwed connection ISO 228 for 6SDS;
- flange with counter-flange for welding for 8SDS and 10SDS

Delivery casing with built-in non-return valve.

Applications

For water supply.
For civil and industrial applications.
For fire fighting applications.
For irrigation.

Operating conditions

Liquid temperature up to a 25 °C.
Max. sand quantity into the water: 150 g/m³ (300 g/m³ high percentage of solids and sand).
Continuous duty.

Rewindable motor CS-R series

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
With water wetted winding in rewindable execution.
Sized for connection to the pumps according to NEMA Standards.
Standard voltages:

- single-phase 230 V - up to 2,2 kW for 4" motors.
- three-phase 230 V; (5,5 kW excluded) 400 V for 4" motors.
- three-phase 400 V; 400/690 V for 6-8-10" motors.

Voltage tolerance : ± 10% (+6%/-10% for 4").

In order to limit both current and torque at each starting, for rated motor powers equal to or higher than 7.5kW, one of the following types of starting is necessary: star/delta, soft starter, stator impedance or autotransformer.

Insulation class:

- class F for 4" motors,
- class E for 6" motors, PVC for I-6" (I-6" 45 kW PE2+PA).
- PVC for 8"
- PVC for 10" (10" 170kW and 190 kW PE2+PA)

Protection IP 68.

Installation below water level: 100 m for 4", 150 m for 6", 500 m for 8,10"

4" motor suitable operation with frequency converter (4" single-phase excluded).

6.8.10" motor suitable operation with frequency converter (with suitable filter dv/dt).

Horizontal installation (6" 37-45kW, 8" 92kW, 10" 170-190 kW excluded).

Continuous duty.

Special features on request

- Other voltages.
- 60 Hz frequency.
- Other temperatures.
- Encapsulated motor **FK series**.

Designation

B 10 SDS 190 / 6

Bronze construction (on request)

Ø of the well in inches _____

Series _____

Stage identification _____

Number of stages _____

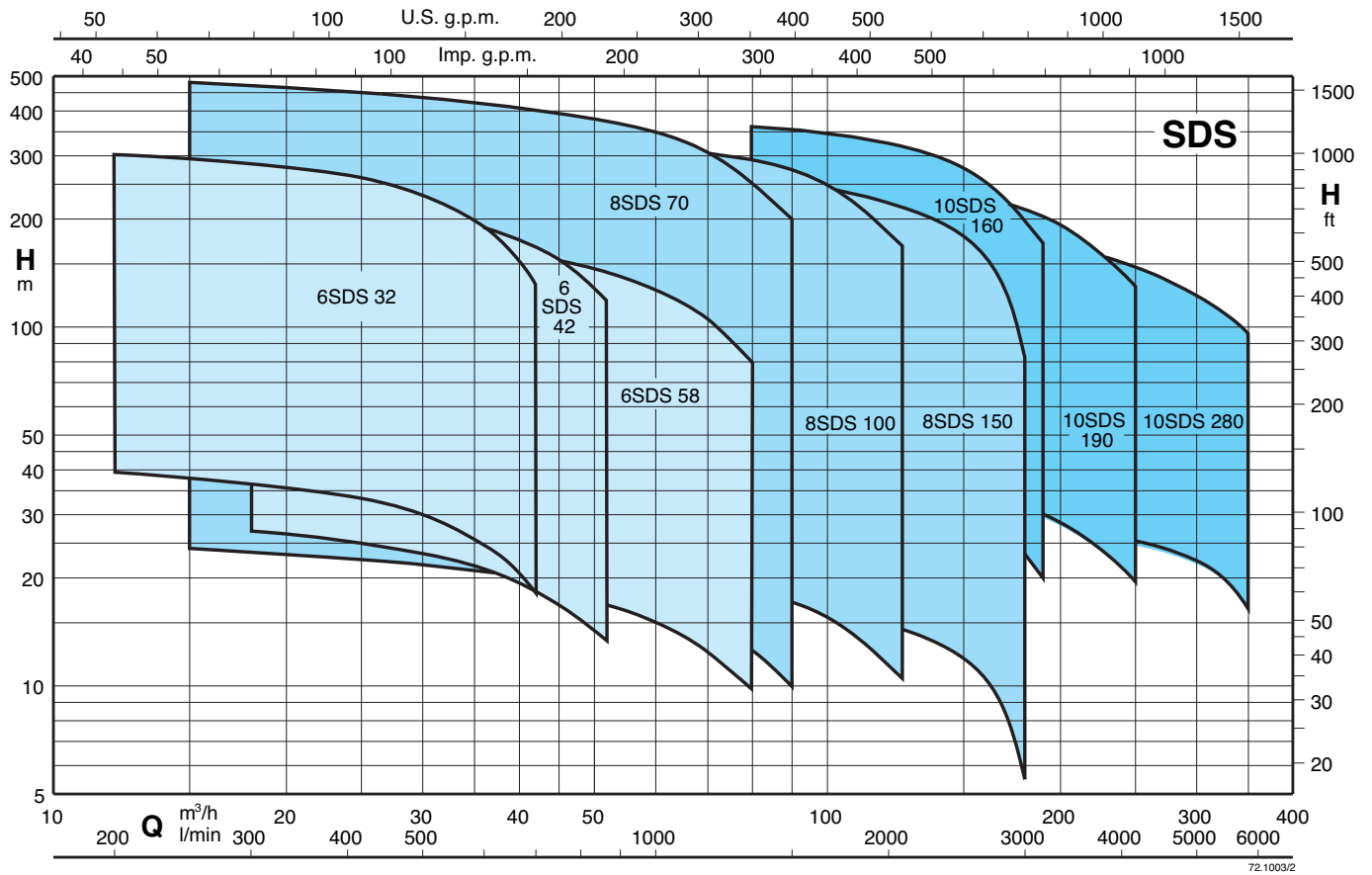
Materials

| Components | Part Nr. | 6, 8, 10SDS | B-6, B-8, B-10SDS |
|-----------------|-------------|--|--------------------|
| Stage casing | 25.02 | Cast iron GJL 200 EN 1561 | Bronze |
| Diffuser | 26.00 | | G-Cu Sn 10 EN 1982 |
| Impeller | 28.00 | | |
| Wear ring | | Rubber (Bronze for 10SDS 190-280) | |
| Shaft | 64.00 | Steel AISI F51duplex | |
| Shaft sleeve | 64.08 | Brass with chromate surface treatment (only for 10SDS) | |
| Delivery casing | 12.01 | Cast iron GJL 200 EN 1561 | Bronze |
| Suction lantern | 32.02 | | G-Cu Sn 10 EN 1982 |
| Bearing bush | 12.03-12.30 | Rubber | |
| Strainer | 15.50 | Cr-Ni steel AISI 304 | |
| Screws | | Cr-Ni steel AISI 304 | |

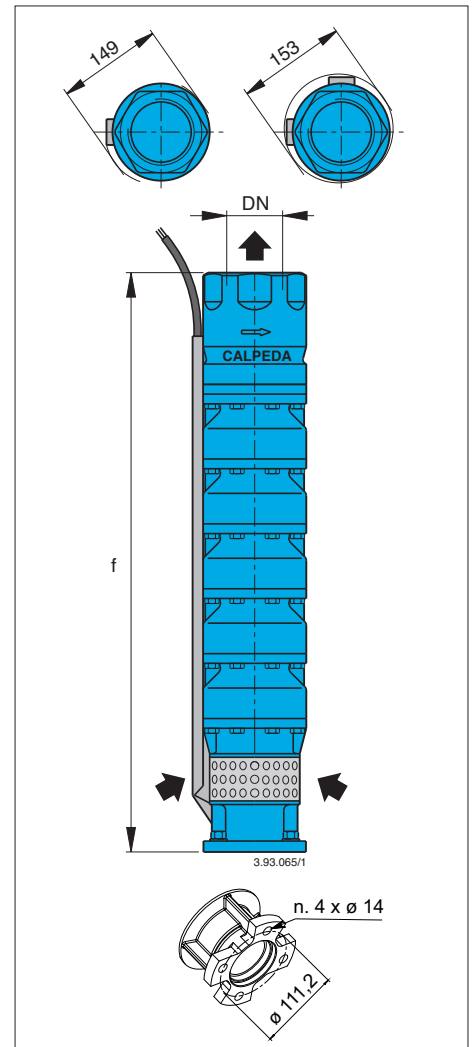
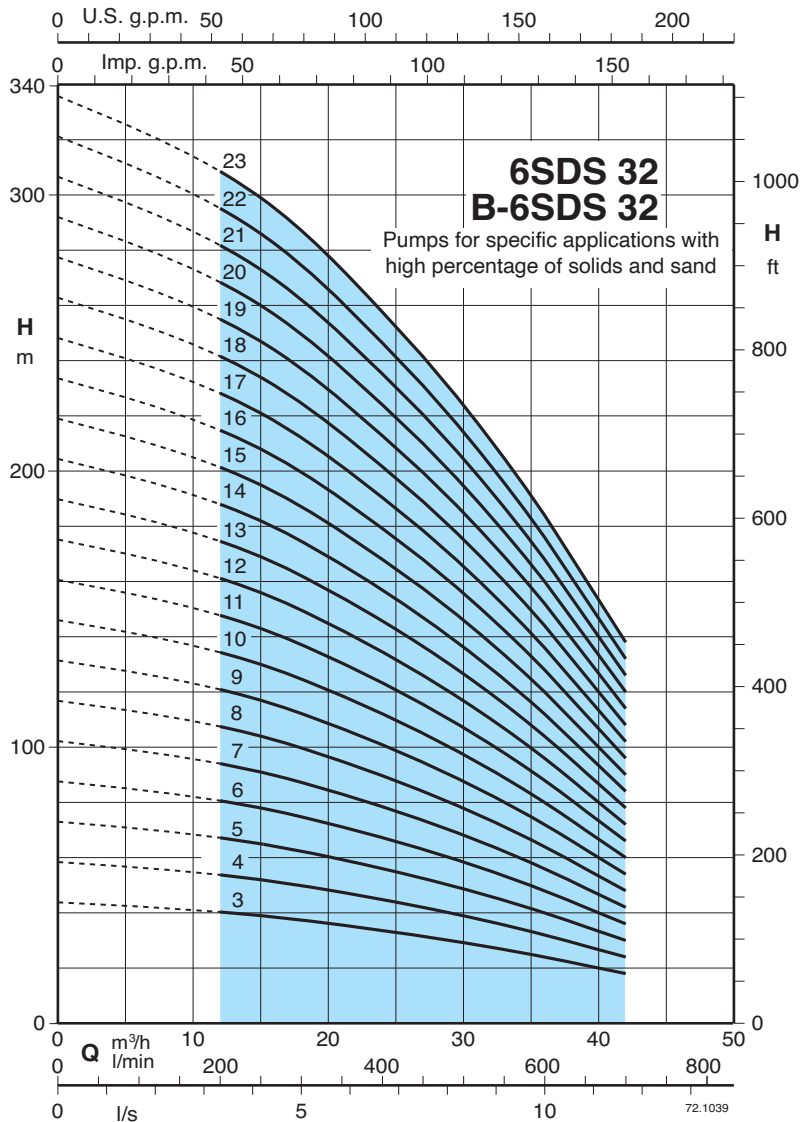
CS-R Motor

| Components | CS-R 6", 8", 10" standard | I-CS-R 6", 8", 10" AISI 316 |
|----------------|---|-----------------------------|
| External frame | Cr-Ni steel AISI 304 | Cr-Ni-Mo steel AISI 316 |
| Motor flange | Cast iron GJL 200 EN 1561 | Cr-Ni-Mo steel AISI 316 |
| Shaft end | Steel AISI 431 (AISI 420 for 8") | Duplex 1.4462 |
| Thrust bearing | Oscillating pads | Oscillating pads |
| Bushings | Resin/ Graphite compound (Graphite for 6" motor) | Resin/ Graphite compound |

Coverage chart $n \approx 2900$ rpm



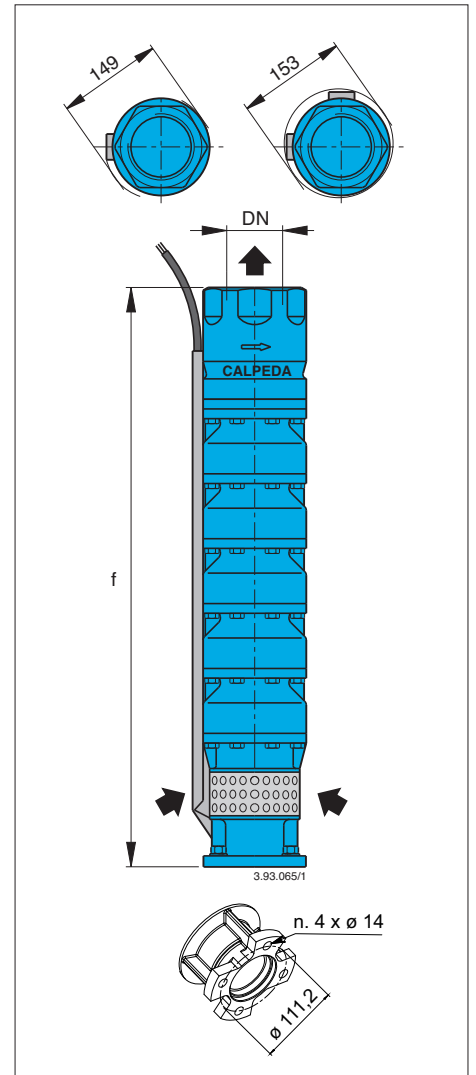
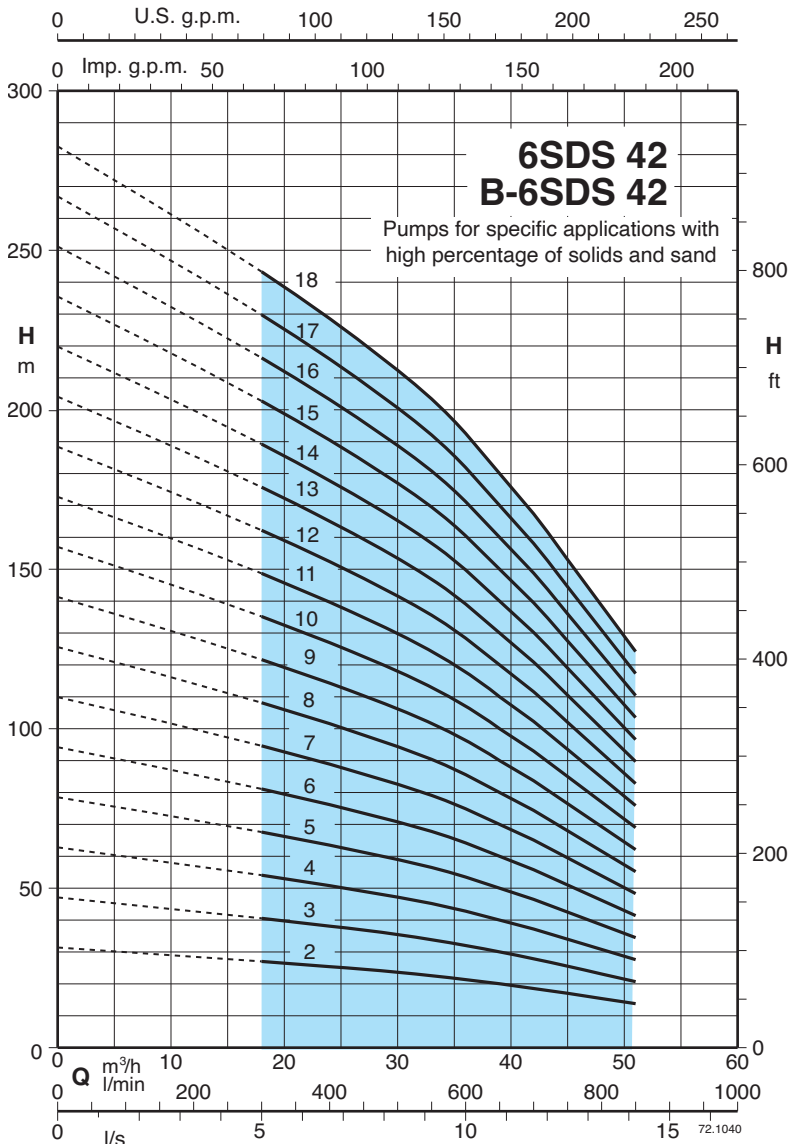
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | | |
|---------------------------|----------------|-----------|---|--------------|------|------|------|------|------|------|-----|-----|-----|--|--|
| | kW | HP | | H | | | | | | | | | | | |
| | | | | m | | | | | | | | | | | |
| | | | | 12 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | | |
| | | | | 200 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | | |
| 6SDS 32/3 - B-6SDS 32/3 | 4 | 5,5 | | 39 | 37 | 35,5 | 33,5 | 31,5 | 30 | 26,5 | 24 | 21 | 18 | | |
| 6SDS 32/4 - B-6SDS 32/4 | 5,5 | 7,5 | | 52 | 49 | 47 | 45 | 42 | 39,5 | 35,5 | 32 | 28 | 24 | | |
| 6SDS 32/5 - B-6SDS 32/5 | 7,5 | 10 | | 65 | 61,5 | 59 | 56 | 52,5 | 49,5 | 44,5 | 40 | 35 | 30 | | |
| 6SDS 32/6 - B-6SDS 32/6 | 7,5 | 10 | | 78 | 74 | 71 | 67 | 63 | 59,5 | 53,5 | 48 | 42 | 36 | | |
| 6SDS 32/7 - B-6SDS 32/7 | 9,2 | 12,5 | | 92 | 86 | 82,5 | 78,5 | 73,5 | 69 | 62 | 56 | 49 | 42 | | |
| 6SDS 32/8 - B-6SDS 32/8 | 11 | 15 | | 105 | 98,5 | 94,5 | 89,5 | 84 | 79 | 71 | 64 | 56 | 48 | | |
| 6SDS 32/9 - B-6SDS 32/9 | 13 (15) | 17,5 (20) | | 118 | 111 | 106 | 101 | 94,5 | 89 | 80 | 72 | 63 | 54 | | |
| 6SDS 32/10 - B-6SDS 32/10 | 13 (15) | 17,5 (20) | | 131 | 123 | 118 | 112 | 105 | 99 | 89 | 80 | 70 | 60 | | |
| 6SDS 32/11 - B-6SDS 32/11 | 15 | 20 | | 144 | 135 | 130 | 123 | 115 | 109 | 98 | 88 | 77 | 66 | | |
| 6SDS 32/12 - B-6SDS 32/12 | 15 | 20 | | 157 | 147 | 141 | 134 | 126 | 119 | 107 | 96 | 84 | 72 | | |
| 6SDS 32/13 - B-6SDS 32/13 | 18,5 | 25 | | 170 | 160 | 153 | 145 | 136 | 129 | 116 | 104 | 91 | 78 | | |
| 6SDS 32/14 - B-6SDS 32/14 | 18,5 | 25 | | 183 | 172 | 165 | 157 | 147 | 138 | 124 | 112 | 98 | 84 | | |
| 6SDS 32/15 - B-6SDS 32/15 | 22 | 30 | | 196 | 184 | 177 | 168 | 157 | 148 | 133 | 120 | 105 | 90 | | |
| 6SDS 32/16 - B-6SDS 32/16 | 22 | 30 | | 209 | 197 | 189 | 179 | 168 | 158 | 142 | 128 | 112 | 96 | | |
| 6SDS 32/17 - B-6SDS 32/17 | 22 | 30 | | 223 | 209 | 200 | 190 | 178 | 168 | 151 | 136 | 119 | 102 | | |
| 6SDS 32/18 - B-6SDS 32/18 | 26 (30) | 35 (40) | | 236 | 221 | 212 | 201 | 189 | 178 | 160 | 144 | 126 | 108 | | |
| 6SDS 32/19 - B-6SDS 32/19 | 26 (30) | 35 (40) | | 246 | 234 | 224 | 213 | 199 | 188 | 169 | 152 | 133 | 114 | | |
| 6SDS 32/20 - B-6SDS 32/20 | 26 (30) | 35 (40) | | 262 | 246 | 236 | 224 | 210 | 198 | 178 | 160 | 140 | 120 | | |
| 6SDS 32/21 - B-6SDS 32/21 | 26 (30) | 35 (40) | | 275 | 258 | 248 | 235 | 220 | 208 | 187 | 168 | 147 | 126 | | |
| 6SDS 32/22 - B-6SDS 32/22 | 30 | 40 | | 288 | 270 | 259 | 246 | 231 | 218 | 196 | 176 | 154 | 132 | | |
| 6SDS 32/23 - B-6SDS 32/23 | 30 | 40 | | 301 | 283 | 271 | 257 | 241 | 228 | 205 | 184 | 161 | 138 | | |

| DN | f | 6SDS | B-6SDS |
|----------------|------|------|--------|
| | mm | kg | kg |
| G 3 ISO 228 | 686 | 30,5 | 35,5 |
| | 788 | 35,6 | 41,6 |
| | 890 | 41 | 49 |
| | 992 | 46 | 55 |
| | 1094 | 52,3 | 62,3 |
| | 1196 | 57 | 68 |
| | 1298 | 62,5 | 74,5 |
| | 1400 | 68,5 | 81,5 |
| | 1502 | 72,5 | 86,5 |
| | 1604 | 77,5 | 93,5 |
| | 1706 | 84 | 101 |
| | 1808 | 89 | 108 |
| | 1910 | 94,2 | 112 |
| | 2012 | 100 | 119 |
| 2114 | 105 | 125 | |
| 2216 | 111 | 132 | |
| 2318 | 116 | 139 | |
| 2420 | 122 | 145 | |
| 2522 | 127 | 151 | |
| 2624 | 132 | 157 | |
| 2726 | 137 | 164 | |

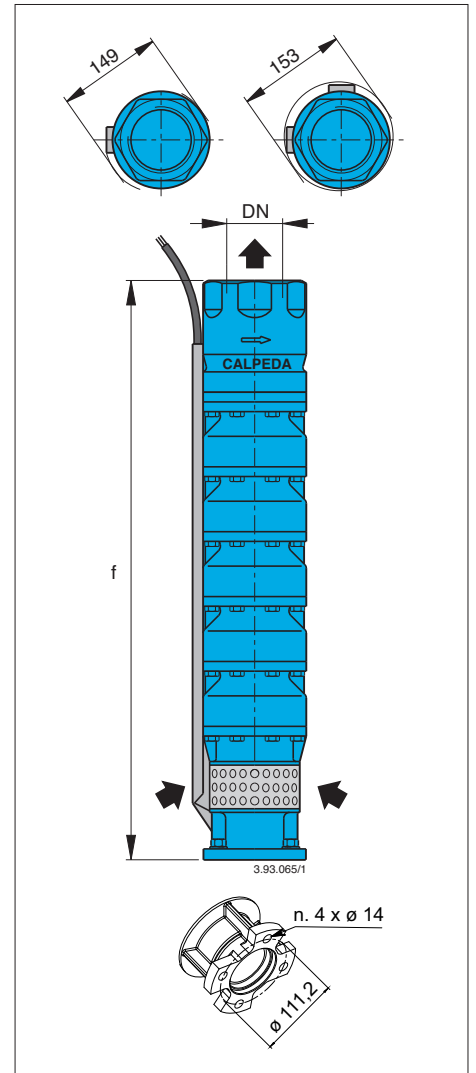
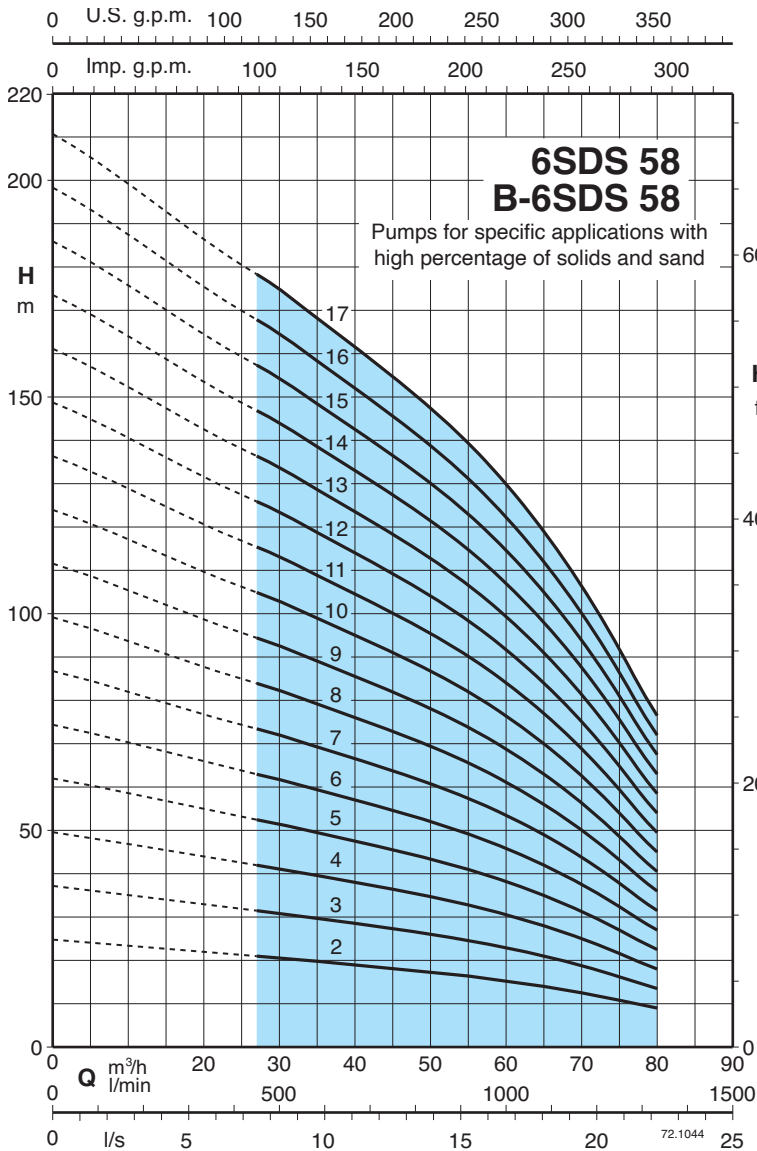
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | | |
|---------------------------|----------------|-----------|-------|--------------|------|------|------|------|-----|------|------|------|------|----|--|
| | kW | HP | | H | | | | | | | | | | | |
| | | | | m³/h | 18 | 24 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 | |
| 6SDS 42/2 - B-6SDS 42/2 | 4 | 5,5 | l/min | 300 | 400 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | | |
| 6SDS 42/3 - B-6SDS 42/3 | 5,5 | 7,5 | | 27 | 25,5 | 23,5 | 22,5 | 21,5 | 20 | 18,5 | 17 | 15,5 | 14 | | |
| 6SDS 42/4 - B-6SDS 42/4 | 7,5 | 10 | | 40 | 38 | 35,5 | 34 | 32 | 30 | 28 | 25,5 | 23 | 21 | | |
| 6SDS 42/5 - B-6SDS 42/5 | 9,2 | 12,5 | | 53,5 | 51 | 47 | 45 | 43 | 40 | 37 | 34 | 31 | 27,5 | | |
| 6SDS 42/6 - B-6SDS 42/6 | 11 | 15 | | 67 | 63,5 | 59 | 56,5 | 53,5 | 50 | 46,5 | 42,5 | 38,5 | 34,5 | | |
| 6SDS 42/7 - B-6SDS 42/7 | 13 (15) | 17,5 (20) | | 80,5 | 76 | 71 | 68 | 64 | 60 | 56 | 51 | 46 | 41,5 | | |
| 6SDS 42/8 - B-6SDS 42/8 | 15 | 20 | | 94 | 89 | 82,5 | 79 | 75 | 70 | 65 | 59,5 | 54 | 48 | | |
| 6SDS 42/9 - B-6SDS 42/9 | 15 | 20 | | 107 | 101 | 94,5 | 90,5 | 85,5 | 80 | 74,5 | 68 | 61,5 | 55 | | |
| 6SDS 42/10 - B-6SDS 42/10 | 18,5 | 25 | | 120 | 114 | 106 | 102 | 96 | 90 | 84 | 76,5 | 69 | 62 | | |
| 6SDS 42/11 - B-6SDS 42/11 | 18,5 | 25 | | 134 | 127 | 118 | 113 | 107 | 100 | 93 | 85 | 77 | 69 | | |
| 6SDS 42/12 - B-6SDS 42/12 | 22 | 30 | | 147 | 140 | 130 | 124 | 118 | 110 | 102 | 93,5 | 85 | 76 | | |
| 6SDS 42/13 - B-6SDS 42/13 | 22 | 30 | | 161 | 152 | 141 | 135 | 128 | 120 | 111 | 102 | 92,5 | 83 | | |
| 6SDS 42/14 - B-6SDS 42/14 | 26 (30) | 35 (40) | | 174 | 165 | 153 | 147 | 139 | 130 | 121 | 110 | 100 | 90 | | |
| 6SDS 42/15 - B-6SDS 42/15 | 26 (30) | 35 (40) | | 187 | 178 | 165 | 158 | 150 | 140 | 130 | 119 | 108 | 96,5 | | |
| 6SDS 42/16 - B-6SDS 42/16 | 30 | 40 | | 201 | 190 | 177 | 169 | 160 | 150 | 139 | 127 | 115 | 103 | | |
| 6SDS 42/17 - B-6SDS 42/17 | 30 | 40 | | 214 | 203 | 189 | 181 | 171 | 160 | 149 | 136 | 123 | 110 | | |
| 6SDS 42/18 - B-6SDS 42/18 | 30 | 40 | | 228 | 216 | 200 | 192 | 182 | 170 | 158 | 144 | 131 | 117 | | |
| | | | | 241 | 228 | 212 | 203 | 192 | 180 | 167 | 153 | 138 | 124 | | |

| DN | f | 6SDS | B-6SDS |
|----------------|------|------|--------|
| | mm | kg | kg |
| G 3 ISO 228 | 584 | 25,5 | 29,5 |
| | 686 | 31,6 | 36,6 |
| | 788 | 36 | 42 |
| | 890 | 40,3 | 48,3 |
| | 992 | 47 | 59 |
| | 1094 | 50,5 | 65,5 |
| | 1196 | 55,5 | 66,5 |
| | 1298 | 62,5 | 74,5 |
| | 1400 | 69 | 81 |
| | 1502 | 74 | 86 |
| | 1604 | 79,2 | 94,2 |
| | 1706 | 83,2 | 99,2 |
| | 1808 | 91,4 | 106 |
| | 1910 | 96,4 | 113 |
| 2012 | 101 | 119 | |
| 2114 | 106 | 126 | |
| 2216 | 111 | 132 | |

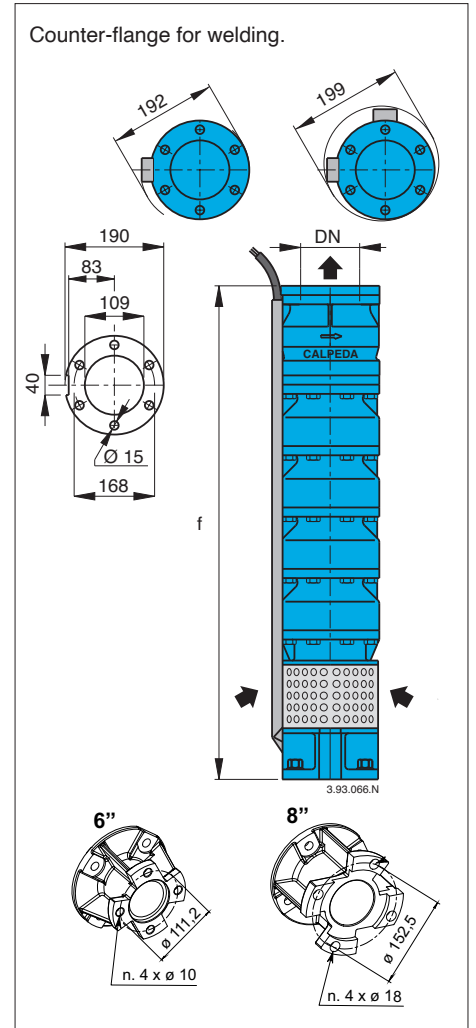
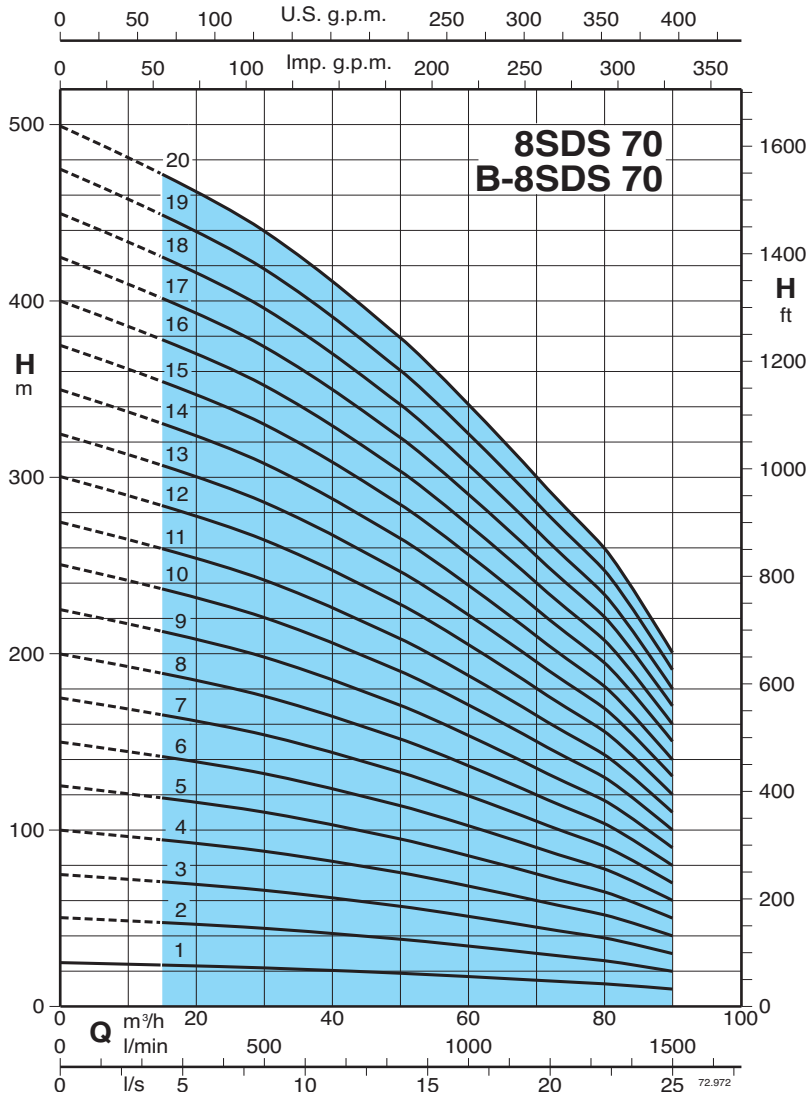
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | |
|---------------------------|----------------|-----------|--------|-------------------|------|------|-----|------|------|------|------|------|------|------|
| | | | | m ³ /h | | | | | | | | | | |
| | | | | 27 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| kW | | HP | l/min | 450 | 583 | 666 | 750 | 833 | 916 | 1000 | 1083 | 1166 | 1250 | 1333 |
| 6SDS 58/2 - B-6SDS 58/2 | 4 | 5,5 | H m | 21 | 20 | 19 | 18 | 17 | 16,5 | 15,5 | 14 | 12,5 | 11 | 9 |
| 6SDS 58/3 - B-6SDS 58/3 | 5,5 | 7,5 | | 32 | 30 | 28,5 | 27 | 26 | 24,5 | 23 | 21 | 18,5 | 16 | 13,5 |
| 6SDS 58/4 - B-6SDS 58/4 | 7,5 | 10 | | 42,5 | 39,5 | 38 | 36 | 34,5 | 33 | 31 | 28 | 25 | 21,5 | 18 |
| 6SDS 58/5 - B-6SDS 58/5 | 9,2 | 12,5 | | 53 | 49,5 | 47,5 | 45 | 43 | 41 | 38,5 | 35 | 31 | 27 | 22,5 |
| 6SDS 58/6 - B-6SDS 58/6 | 11 | 15 | | 63,5 | 59,5 | 57 | 54 | 51,5 | 49 | 46 | 42 | 37 | 32,5 | 27 |
| 6SDS 58/7 - B-6SDS 58/7 | 13 (15) | 17,5 (20) | | 74 | 69,5 | 66,5 | 63 | 60 | 57,5 | 54 | 49 | 43,5 | 38 | 31,5 |
| 6SDS 58/8 - B-6SDS 58/8 | 15 | 20 | | 85 | 79 | 76 | 72 | 69 | 66 | 62 | 56 | 49,5 | 43 | 36 |
| 6SDS 58/9 - B-6SDS 58/9 | 18,5 | 25 | | 95,5 | 89 | 85,5 | 81 | 77,5 | 74 | 69,5 | 63 | 56 | 49 | 40,5 |
| 6SDS 58/10 - B-6SDS 58/10 | 18,5 | 25 | | 106 | 99 | 95 | 90 | 86 | 82 | 77 | 70 | 62 | 54 | 45 |
| 6SDS 58/11 - B-6SDS 58/11 | 22 | 30 | | 117 | 109 | 104 | 99 | 94,5 | 90 | 85 | 77 | 68 | 59,5 | 49,5 |
| 6SDS 58/12 - B-6SDS 58/12 | 22 | 30 | | 127 | 119 | 114 | 108 | 103 | 100 | 94,5 | 86,5 | 76,5 | 66,5 | 55,5 |
| 6SDS 58/13 - B-6SDS 58/13 | 26 (30) | 35 (40) | | 138 | 129 | 123 | 117 | 112 | 107 | 100 | 91 | 80,5 | 70 | 58,5 |
| 6SDS 58/14 - B-6SDS 58/14 | 26 (30) | 35 (40) | | 148 | 139 | 133 | 126 | 120 | 115 | 108 | 98 | 87 | 75,5 | 63 |
| 6SDS 58/15 - B-6SDS 58/15 | 30 | 40 | | 159 | 148 | 142 | 135 | 129 | 123 | 115 | 105 | 93 | 81 | 67,5 |
| 6SDS 58/16 - B-6SDS 58/16 | 30 | 40 | | 170 | 158 | 152 | 144 | 138 | 131 | 123 | 112 | 99 | 86,5 | 72 |
| 6SDS 58/17 - B-6SDS 58/17 | 30 | 40 | | 180 | 168 | 162 | 153 | 146 | 139 | 131 | 119 | 105 | 92 | 76,5 |

| DN | f | 6SDS | B-6SDS |
|----------------|------|------|--------|
| | mm | kg | kg |
| G 4 ISO 228 | 584 | 26,5 | 29,5 |
| | 686 | 31,6 | 36,6 |
| | 788 | 37 | 43 |
| | 890 | 43,3 | 50,3 |
| | 992 | 48 | 57 |
| | 1094 | 53,5 | 63,5 |
| | 1196 | 59,5 | 70,5 |
| | 1298 | 65 | 77 |
| | 1400 | 71 | 84 |
| | 1502 | 76,2 | 90,2 |
| | 1604 | 82,2 | 97,2 |
| | 1706 | 87,4 | 104 |
| | 1808 | 93,4 | 111 |
| | 1910 | 99,4 | 118 |
| 2012 | 104 | 124 | |
| 2114 | 110 | 131 | |

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | | | | |
|---------------------------|----------------|----------|------|--------------|-----|------|-----|-----|-----|-----|-----|----|-----|--|--|--|--|
| | kW | HP | | H m | | | | | | | | | | | | | |
| | | | | 15 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | | | | |
| 8SDS 70/1 - B-8SDS 70/1 | 5,5 | 7,5 | 23,5 | 23 | 22 | 20,5 | 19 | 17 | 15 | 13 | 10 | | | | | | |
| 8SDS 70/2 - B-8SDS 70/2 | 9,2 | 12,5 | 47 | 46 | 44 | 41 | 38 | 34 | 30 | 26 | 20 | | | | | | |
| 8SDS 70/3 - B-8SDS 70/3 | 15 | 20 | 70,5 | 69 | 66 | 61,5 | 57 | 51 | 45 | 39 | 30 | | | | | | |
| 8SDS 70/4 - B-8SDS 70/4 | 18,5 | 25 | 94 | 92 | 88 | 82 | 76 | 68 | 60 | 52 | 40 | | | | | | |
| 8SDS 70/5 - B-8SDS 70/5 | 22 | 30 | 118 | 115 | 110 | 102 | 95 | 85 | 75 | 65 | 50 | | | | | | |
| 8SDS 70/6 - B-8SDS 70/6 | 26 (30) | 35 (40) | 141 | 138 | 132 | 123 | 114 | 102 | 90 | 78 | 60 | | | | | | |
| 8SDS 70/7 - B-8SDS 70/7 | 30 | 40 | 165 | 161 | 154 | 143 | 133 | 119 | 105 | 91 | 70 | | | | | | |
| 8SDS 70/8 - B-8SDS 70/8 | 37 | 50 | 188 | 184 | 176 | 164 | 152 | 136 | 120 | 104 | 80 | | | | | | |
| 8SDS 70/9 - B-8SDS 70/9 | 45 | 60 | 212 | 207 | 198 | 184 | 171 | 153 | 135 | 117 | 90 | | | | | | |
| 8SDS 70/10 - B-8SDS 70/10 | 45 | 60 | 235 | 230 | 220 | 205 | 190 | 170 | 150 | 130 | 100 | | | | | | |
| 8SDS 70/11 - B-8SDS 70/11 | 51 (55) | 70 (75) | 259 | 253 | 242 | 225 | 209 | 187 | 165 | 143 | 110 | | | | | | |
| 8SDS 70/12 - B-8SDS 70/12 | 55 | 75 | 282 | 276 | 264 | 246 | 228 | 204 | 180 | 156 | 120 | | | | | | |
| 8SDS 70/13 - B-8SDS 70/13 | 59 (75) | 80 (100) | 306 | 299 | 286 | 266 | 247 | 221 | 195 | 169 | 130 | | | | | | |
| 8SDS 70/14 - B-8SDS 70/14 | 59 (75) | 80 (100) | 329 | 322 | 308 | 287 | 266 | 238 | 210 | 182 | 140 | | | | | | |
| 8SDS 70/15 - B-8SDS 70/15 | 66 (75) | 90 (100) | 353 | 345 | 330 | 307 | 285 | 255 | 225 | 195 | 150 | | | | | | |
| 8SDS 70/16 - B-8SDS 70/16 | 75 | 100 | 376 | 368 | 352 | 328 | 304 | 272 | 240 | 208 | 160 | | | | | | |
| 8SDS 70/17 - B-8SDS 70/17 | 75 | 100 | 400 | 391 | 374 | 348 | 323 | 289 | 255 | 221 | 170 | | | | | | |
| 8SDS 70/18 - B-8SDS 70/18 | 92 | 125 | 423 | 414 | 396 | 369 | 342 | 306 | 270 | 234 | 180 | | | | | | |
| 8SDS 70/19 - B-8SDS 70/19 | 92 | 125 | 447 | 437 | 418 | 389 | 361 | 323 | 285 | 247 | 190 | | | | | | |
| 8SDS 70/20 - B-8SDS 70/20 | 92 | 125 | 470 | 460 | 440 | 410 | 380 | 340 | 300 | 260 | 200 | | | | | | |

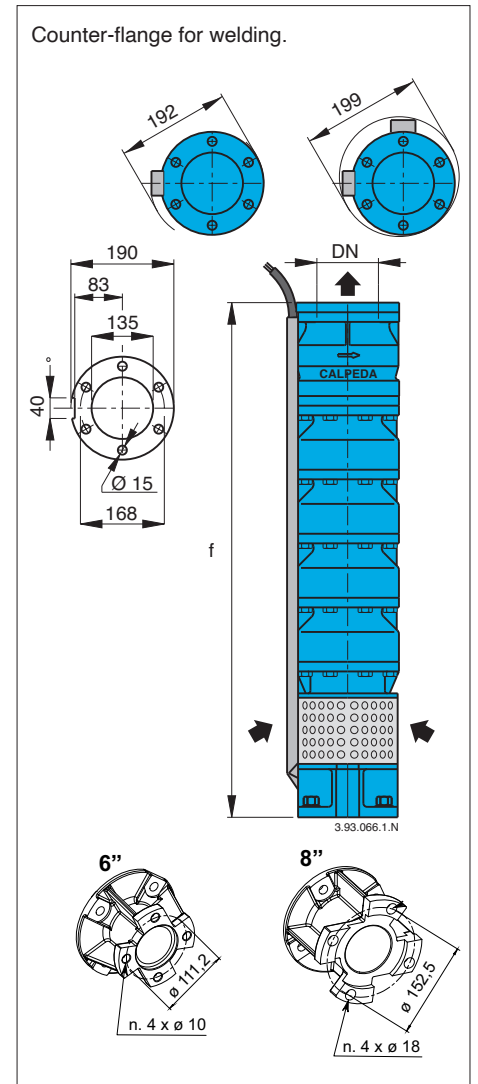
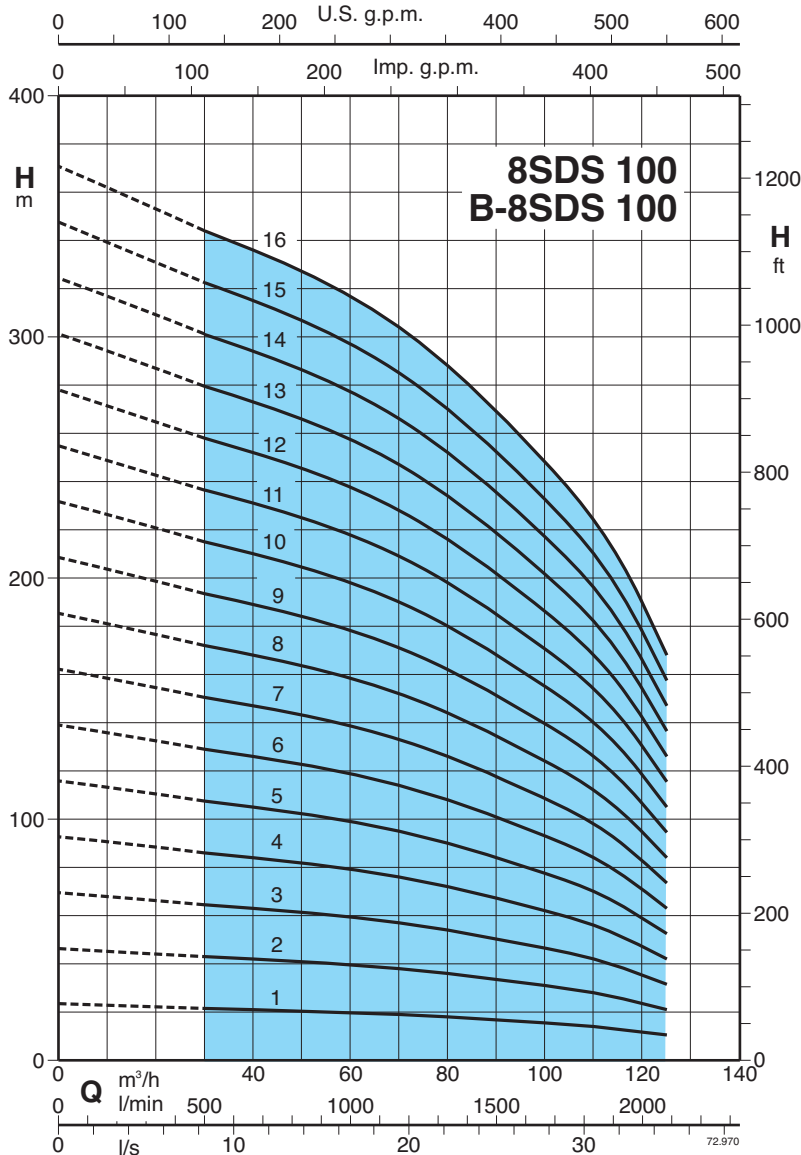
| DN | Motor | | f | 8SDS | B-8SDS |
|-----------|------------|-----------|------|------|--------|
| | CS-R mm | FK mm | | | |
| 100 | 145 6" | 137 6" | 602 | 38 | 43 |
| | | | 734 | 49 | 55,5 |
| | | | 866 | 60 | 68 |
| | | | 998 | 71,5 | 80,5 |
| | | | 1130 | 82,5 | 93 |
| | | | 1262 | 93,5 | 106 |
| | 191 8" | 196 8" | 1394 | 105 | 118 |
| | | | 1526 | 116 | 131 |
| | | | 1658 | 127 | 143 |
| | | | 1790 | 138 | 156 |
| | | | 1922 | 149 | 168 |
| | | | 2054 | 160 | 181 |
| 191 8" | 196 8" | 2186 | 171 | 194 | |
| | | 2318 | 182 | 206 | |
| | | 2450 | 193 | 219 | |
| | | 2582 | 205 | 231 | |
| | | 2714 | 216 | 244 | |
| | | 2846 | 227 | 256 | |
| 191 8" | 196 8" | 2978 | 238 | 269 | |
| | | 3110 | 249 | 281 | |

8SDS 100

Submersible borehole pumps for 8" wells



Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P2 | | Q | $n \approx 2900$ rpm | | | | | | | | | | |
|-----------------------------|---------|----------|--------|----------------------|-------|------|-----|-----|------|------|------|------|------|------|
| | | | | m³/h | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 125 |
| | | | | | l/min | 500 | 666 | 833 | 1000 | 1166 | 1333 | 1500 | 1666 | 1833 |
| 8SDS 100/1 - B-8SDS 100/1 | 5,5 | 7,5 | H m | 21,5 | 21 | 20,5 | 20 | 19 | 18 | 17 | 15,5 | 14 | 10,5 | |
| 8SDS 100/2 - B-8SDS 100/2 | 11 | 15 | | 43 | 42 | 41 | 40 | 38 | 36 | 34 | 31 | 28 | 21 | |
| 8SDS 100/3 - B-8SDS 100/3 | 18,5 | 25 | | 64,5 | 63 | 61,5 | 60 | 57 | 54 | 51 | 46,5 | 42 | 31,5 | |
| 8SDS 100/4 - B-8SDS 100/4 | 22 | 30 | | 86 | 84 | 82 | 80 | 76 | 72 | 68 | 62 | 56 | 42 | |
| 8SDS 100/5 - B-8SDS 100/5 | 30 | 40 | | 107 | 105 | 102 | 100 | 95 | 90 | 85 | 77,5 | 70 | 52,5 | |
| 8SDS 100/6 - B-8SDS 100/6 | 37 | 50 | | 129 | 126 | 123 | 120 | 114 | 108 | 102 | 93 | 84 | 63 | |
| 8SDS 100/7 - B-8SDS 100/7 | 45 | 60 | | 150 | 147 | 143 | 140 | 133 | 126 | 119 | 108 | 98 | 73,5 | |
| 8SDS 100/8 - B-8SDS 100/8 | 45 | 60 | | 172 | 168 | 164 | 160 | 152 | 144 | 136 | 124 | 112 | 84 | |
| 8SDS 100/9 - B-8SDS 100/9 | 51 (55) | 70 (75) | | 193 | 189 | 184 | 180 | 171 | 162 | 153 | 139 | 126 | 94,5 | |
| 8SDS 100/10 - B-8SDS 100/10 | 55 | 75 | | 215 | 210 | 205 | 200 | 190 | 180 | 170 | 155 | 140 | 105 | |
| 8SDS 100/11 - B-8SDS 100/11 | 66 (75) | 90 (100) | | 236 | 231 | 225 | 220 | 209 | 198 | 187 | 170 | 154 | 115 | |
| 8SDS 100/12 - B-8SDS 100/12 | 66 (75) | 90 (100) | | 258 | 252 | 246 | 240 | 228 | 216 | 204 | 186 | 168 | 126 | |
| 8SDS 100/13 - B-8SDS 100/13 | 75 | 100 | | 279 | 273 | 266 | 260 | 247 | 234 | 221 | 201 | 182 | 136 | |
| 8SDS 100/14 - B-8SDS 100/14 | 92 | 125 | | 301 | 294 | 287 | 280 | 266 | 252 | 238 | 217 | 196 | 147 | |
| 8SDS 100/15 - B-8SDS 100/15 | 92 | 125 | | 322 | 315 | 307 | 300 | 285 | 270 | 255 | 232 | 210 | 157 | |
| 8SDS 100/16 - B-8SDS 100/16 | 92 | 125 | | 344 | 336 | 328 | 320 | 304 | 288 | 272 | 248 | 224 | 168 | |

| DN | Motor | | f | 8SDS | B-8SDS |
|-----|------------|-----------|------|------|--------|
| | CS-R mm | FK mm | | | |
| 125 | 145 6" | 137 6" | 602 | 38 | 43 |
| | | | 734 | 49 | 55 |
| | | | 866 | 59 | 67 |
| | | | 998 | 70 | 79 |
| | | | 1130 | 81 | 91 |
| | | | 1262 | 92 | 103 |
| | 191 8" | 196 8" | 1394 | 102 | 115 |
| | | | 1526 | 113 | 128 |
| | | | 1658 | 124 | 140 |
| | | | 1790 | 135 | 152 |
| | | | 1922 | 145 | 164 |
| | | | 2054 | 156 | 176 |
| | | | 2186 | 167 | 188 |
| | | | 2318 | 177 | 200 |
| | | | 2450 | 188 | 212 |
| | | | 2582 | 199 | 224 |

P2 Rated motor power output

(...) FK motor rated power output

H Total head in m

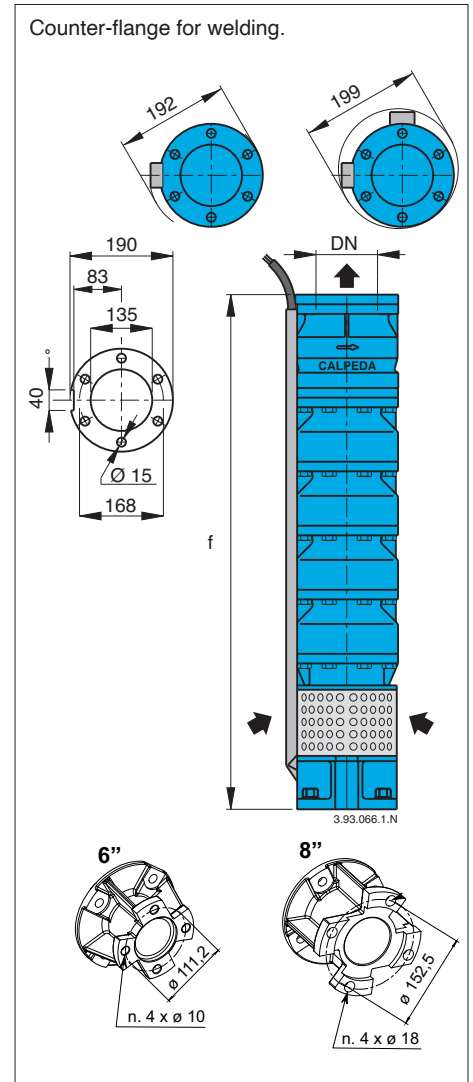
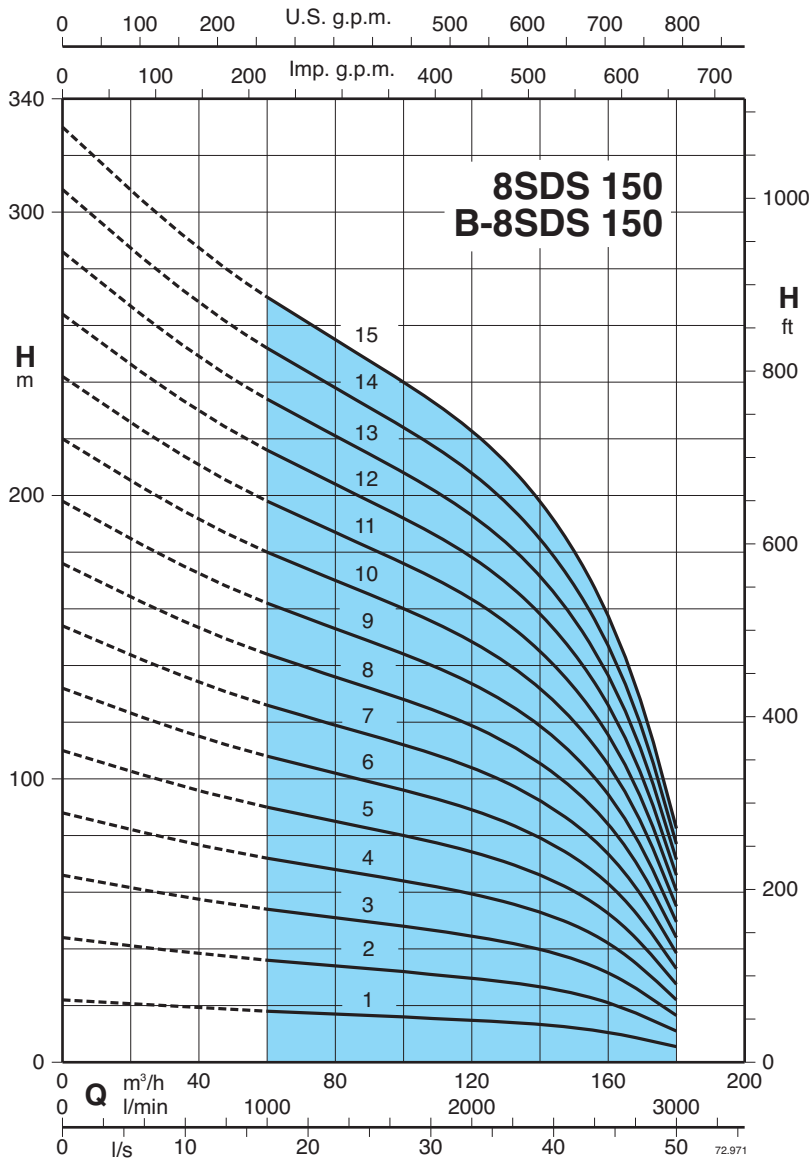
Tolerances according to UNI EN ISO 9906:2012

8SDS 150

Submersible borehole pumps for 8" wells



Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | | DN | Motor | | f | 8SDS | B-8SDS | | | | |
|-----------------------------|----------------|----------|---|--------------|-------|-----|------|-----|------|------|-----|------|------|------|-----|------------|-----------|-----|------|--------|------|------|----|-----|
| | kW | HP | | m³/h | H | | | | | | | | | | | CS-R mm | FK mm | | | | mm | kg | kg | |
| | | | | | l/min | 60 | 70 | 80 | 90 | 100 | 110 | 125 | 140 | 150 | | | | | | | | | | 160 |
| 8SDS 150/1 - B-8SDS 150/1 | 7,5 | 10 | | 18 | 17,5 | 17 | 16,5 | 16 | 15,5 | 14,5 | 13 | 11,5 | 10,5 | 5,5 | 125 | 145 6" | 137 6" | 602 | 38 | 43 | | | | |
| 8SDS 150/2 - B-8SDS 150/2 | 15 | 20 | | 36 | 35 | 34 | 33 | 32 | 31 | 29 | 26 | 23 | 21 | 11 | | | | | | 734 | 49 | 55,5 | | |
| 8SDS 150/3 - B-8SDS 150/3 | 22 | 30 | | 54 | 52,5 | 51 | 49,5 | 48 | 46,5 | 43,5 | 39 | 34,5 | 31,5 | 16,5 | | | | | | 866 | 60 | 68 | | |
| 8SDS 150/4 - B-8SDS 150/4 | 30 | 40 | | 72 | 70 | 68 | 66 | 64 | 62 | 58 | 52 | 46 | 42 | 22 | | | | | | 998 | 71,5 | 80,5 | | |
| 8SDS 150/5 - B-8SDS 150/5 | 37 | 50 | | 90 | 87,5 | 85 | 82,5 | 80 | 77,5 | 72,5 | 65 | 57,5 | 52,5 | 27,5 | | | | | | 1130 | 82,5 | 93 | | |
| 8SDS 150/6 - B-8SDS 150/6 | 45 | 60 | | 108 | 105 | 102 | 99 | 96 | 93 | 87 | 78 | 69 | 63 | 33 | | | | | | 1262 | 93,5 | 106 | | |
| 8SDS 150/7 - B-8SDS 150/7 | 51 (55) | 70 (75) | | 126 | 122 | 119 | 115 | 112 | 108 | 101 | 91 | 80,5 | 73,5 | 38,5 | | | | | | 1394 | 105 | 118 | | |
| 8SDS 150/8 - B-8SDS 150/8 | 59 (75) | 80 (100) | | 144 | 140 | 136 | 132 | 128 | 124 | 116 | 104 | 92 | 84 | 44 | | | | | | 1526 | 116 | 131 | | |
| 8SDS 150/9 - B-8SDS 150/9 | 66 (75) | 90 (100) | | 162 | 157 | 153 | 148 | 144 | 139 | 130 | 117 | 103 | 94,5 | 49,5 | | | | | | 1658 | 127 | 143 | | |
| 8SDS 150/10 - B-8SDS 150/10 | 75 | 100 | | 180 | 175 | 170 | 165 | 160 | 155 | 145 | 130 | 115 | 105 | 55 | | | | | | 1790 | 138 | 156 | | |
| 8SDS 150/11 - B-8SDS 150/11 | 92 | 125 | | 198 | 192 | 187 | 181 | 176 | 170 | 159 | 143 | 126 | 115 | 60,5 | | | | | | 1922 | 149 | 168 | | |
| 8SDS 150/12 - B-8SDS 150/12 | 92 | 125 | | 216 | 210 | 204 | 198 | 192 | 186 | 174 | 156 | 138 | 126 | 66 | | | | | | 2054 | 160 | 181 | | |
| 8SDS 150/13 - B-8SDS 150/13 | 110 | 150 | | 234 | 227 | 221 | 214 | 208 | 201 | 188 | 169 | 149 | 136 | 71,5 | | | | | | 2186 | 171 | 194 | | |
| 8SDS 150/14 - B-8SDS 150/14 | 110 | 150 | | 252 | 245 | 238 | 231 | 224 | 217 | 203 | 182 | 161 | 147 | 77 | | | | | | 2318 | 182 | 206 | | |
| 8SDS 150/15 - B-8SDS 150/15 | 110 | 150 | | 270 | 262 | 255 | 247 | 240 | 232 | 217 | 195 | 172 | 157 | 82,5 | | | | | | 2450 | 193 | 219 | | |

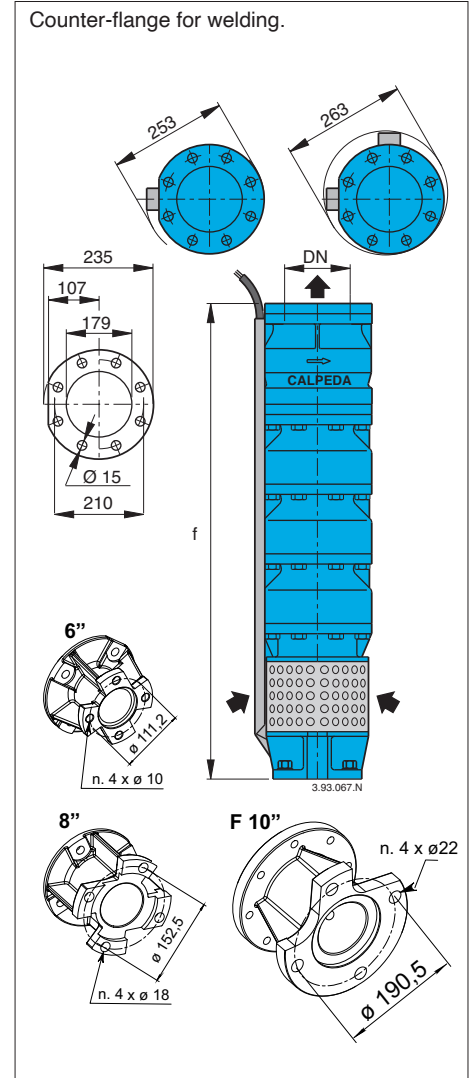
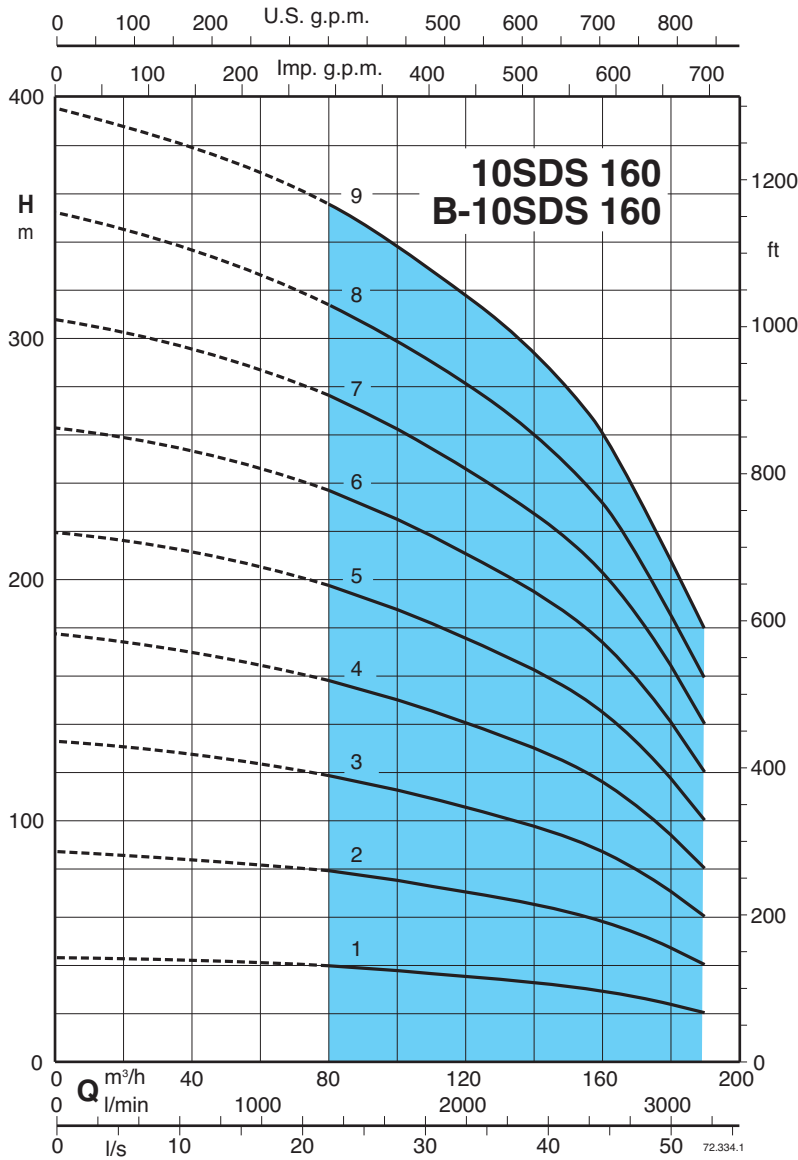
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n \approx 2900 rpm | | | | | | | | | | | DN | Motor | | f | 10SDS | B-10SDS | | | |
|-----------------------------|----------------|-----|-------|----------------------|------|------|------|------|------|------|------|------|------|------|-----|-------|-----|------|-------|---------|------|-----|-----|
| | kW | HP | | H | | | | | | | | | | | | CS-R | FK | | | | | | |
| | | | | m | | | | | | | | | | | | | | | | | mm | mm | |
| | | | m³/h | 80 | 90 | 100 | 110 | 125 | 140 | 150 | 160 | 170 | 180 | 190 | | | | | | | | | |
| | | | l/min | 1333 | 1500 | 1666 | 1833 | 2083 | 2333 | 2500 | 2666 | 2833 | 3000 | 3166 | | | | | | | | | |
| 10SDS 160/1 - B-10SDS 160/1 | 18,5 | 25 | H | 39,5 | 38 | 37,5 | 36 | 34,5 | 32,5 | 31 | 29 | 26,5 | 22 | 20 | 175 | 145 | 137 | 865 | 77 | 87 | | | |
| 10SDS 160/2 - B-10SDS 160/2 | 37 | 50 | | 78,5 | 76,5 | 74,5 | 72,5 | 69 | 65 | 62 | 58,5 | 53,5 | 44 | 40 | | | | | 191 | 196 | 1205 | 103 | 114 |
| 10SDS 160/3 - B-10SDS 160/3 | 55 | 75 | | 118 | 114 | 112 | 108 | 104 | 98 | 92,5 | 87,5 | 80 | 66,5 | 60 | | | | | | | | 240 | - |
| 10SDS 160/4 - B-10SDS 160/4 | 75 | 100 | | 157 | 153 | 149 | 145 | 138 | 130 | 123 | 117 | 107 | 88,5 | 80 | | 2055 | - | 2055 | | | | | |
| 10SDS 160/5 - B-10SDS 160/5 | 92 | 125 | | 196 | 191 | 186 | 181 | 173 | 163 | 154 | 146 | 134 | 111 | 100 | | | | | 2225 | - | 2225 | | |
| 10SDS 160/6 - B-10SDS 160/6 | 110 | 150 | | 236 | 229 | 224 | 217 | 207 | 195 | 185 | 175 | 160 | 133 | 120 | | | | | | | | - | - |
| 10SDS 160/7 - B-10SDS 160/7 | 130 | 175 | | 275 | 267 | 261 | 253 | 242 | 228 | 216 | 204 | 187 | 155 | 140 | | - | - | - | | | | | |
| 10SDS 160/8 - B-10SDS 160/8 | 150 | 200 | | 314 | 305 | 298 | 289 | 276 | 260 | 246 | 233 | 213 | 177 | 160 | | | | | - | - | - | | |
| 10SDS 160/9 - B-10SDS 160/9 | 185 | 250 | | 356 | 342 | 338 | 324 | 311 | 293 | 279 | 261 | 239 | 198 | 180 | | | | | | | | - | - |

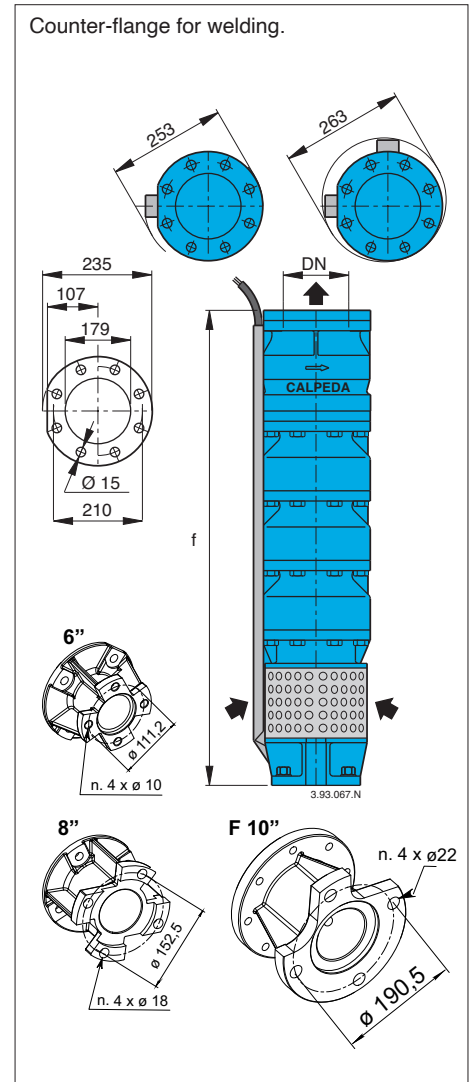
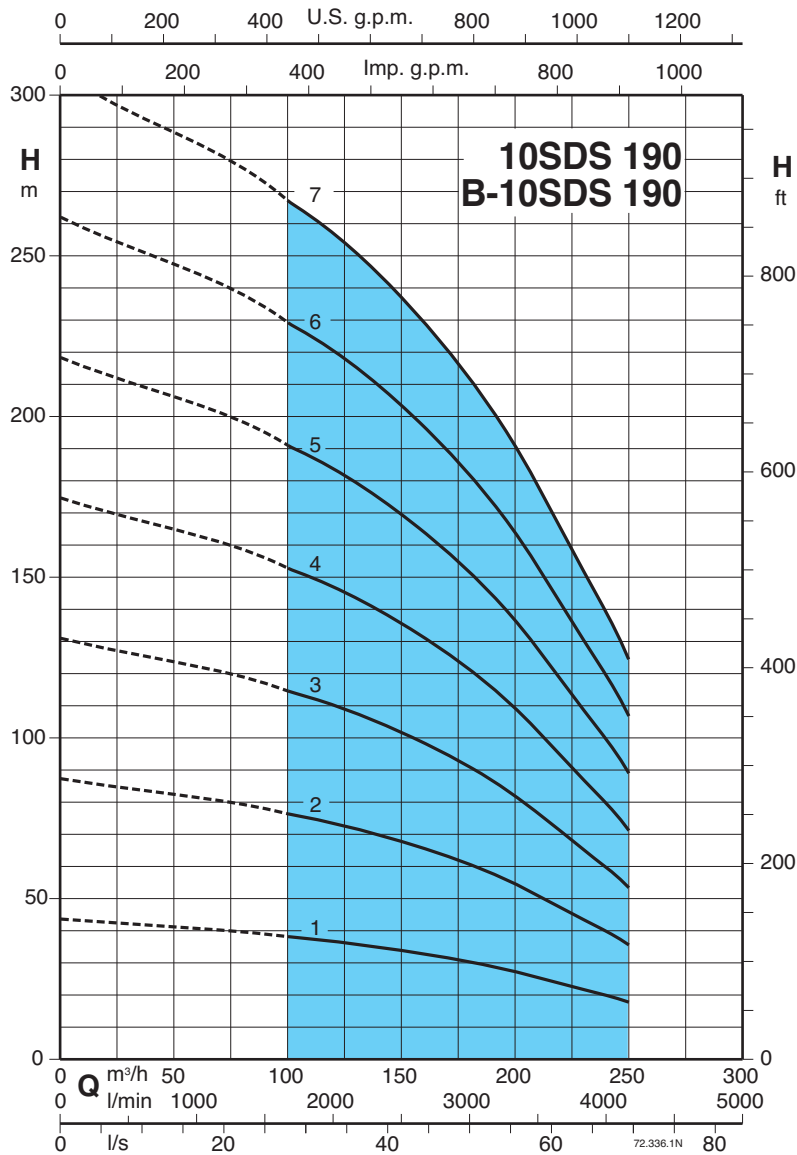
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | | DN | Motor | | f | 10SDS | B-10SDS | | |
|-----------------------------|----------------|----------|-------|-------------------|------|------|------|------|------|------|------|------|------|-----|-----|-------|------|------|-------|---------|-----|-----|
| | | | | | | | | | | | | | | | | CS-R | FK | | | | | |
| | kW | HP | | m ³ /h | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 230 | 240 | 250 | | mm | mm | | | | mm | kg |
| | | | l/min | 1666 | 2000 | 2333 | 2666 | 3000 | 3333 | 3666 | 3833 | 4000 | 4166 | | | | | | | | | |
| | | | H | | | | | | | | | | | | | | | | | | | |
| | | | m | | | | | | | | | | | | | | | | | | | |
| 10SDS 190/1 - B-10SDS 190/1 | 22 | 30 | | 38 | 37 | 35 | 33 | 30 | 27 | 24 | 22 | 20 | 18 | 175 | 145 | 137 | 865 | 78 | 88 | | | |
| 10SDS 190/2 - B-10SDS 190/2 | 45 | 60 | | 76 | 73 | 70 | 66 | 61 | 55 | 47 | 44 | 40 | 36 | | | | | 6" | 6" | 1035 | 102 | 115 |
| 10SDS 190/3 - B-10SDS 190/3 | 66 (75) | 90 (100) | | 115 | 110 | 105 | 98 | 91 | 82 | 71 | 65 | 59 | 53 | | 191 | - | 196 | 1205 | 127 | 143 | | |
| 10SDS 190/4 - B-10SDS 190/4 | 92 | 125 | | 153 | 147 | 140 | 131 | 121 | 109 | 95 | 87 | 79 | 71 | | | | | 8" | 8" | 1375 | 151 | 170 |
| 10SDS 190/5 - B-10SDS 190/5 | 110 | 150 | | 191 | 183 | 175 | 164 | 152 | 137 | 119 | 109 | 99 | 89 | | | | | 8" | 8" | 1545 | 175 | 198 |
| 10SDS 190/6 - B-10SDS 190/6 | 130 | 175 | | 229 | 220 | 210 | 197 | 182 | 164 | 142 | 131 | 119 | 107 | | 240 | - | 1885 | 1715 | 199 | 225 | | |
| 10SDS 190/7 - B-10SDS 190/7 | 185 | 250 | | 267 | 257 | 244 | 230 | 212 | 191 | 166 | 152 | 139 | 125 | | | | | 10" | 10" | 1885 | 223 | 252 |

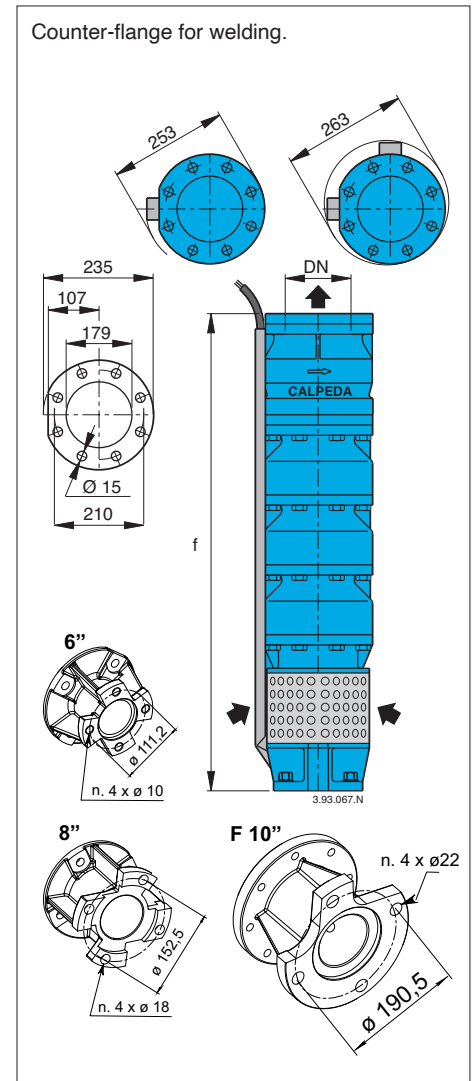
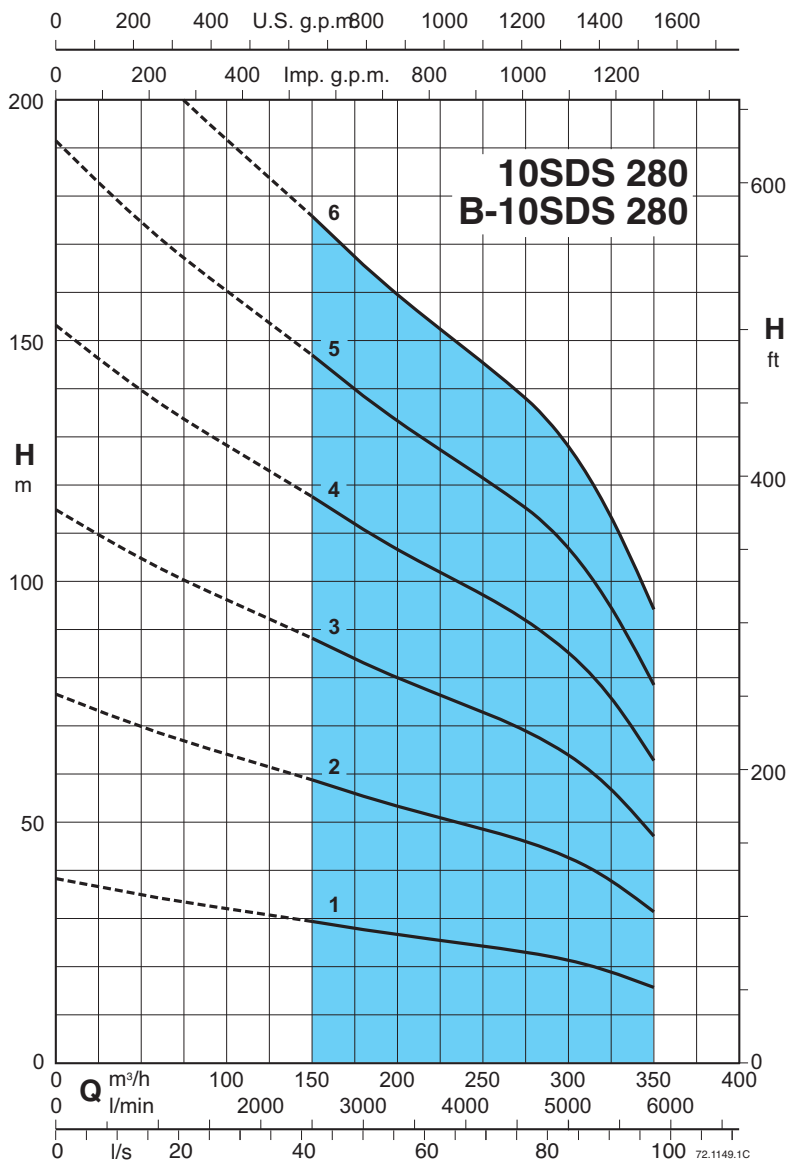
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



| 3 ~ | P ₂ | | Q | n ≈ 2900 rpm | | | | | | | | | | DN | Motor | | f | 10SDS | B-10SDS | | | |
|-----------------------------|----------------|---------|--------|--------------|------|------|------|------|------|------|------|------|------|-----|------------|--------|-----|-------|---------|------|-----|-----|
| | kW | HP | | m³/h | 150 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 315 | | 350 | CS-R | | | | FK | | |
| | | | l/min | 2500 | 3000 | 3333 | 3666 | 4000 | 4333 | 4666 | 5000 | 5250 | 5833 | | mm | mm | | | | | | |
| 10SDS 280/1 - B-10SDS 280/1 | 26 (30) | 35 (40) | H m | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 21 | 20 | 16 | 175 | 145-6" | 137-6" | 865 | 78 | 88 | | | |
| 10SDS 280/2 - B-10SDS 280/2 | 55 | 75 | | 59 | 55 | 53 | 51 | 50 | 48 | 46 | 42 | 40 | 31 | | 8" | 196 | | | | 1035 | 103 | 116 |
| 10SDS 280/3 - B-10SDS 280/3 | 75 | 100 | | 88 | 83 | 80 | 77 | 75 | 71 | 69 | 64 | 60 | 47 | | | | | | | 1205 | 127 | 143 |
| 10SDS 280/4 - B-10SDS 280/4 | 110 | 150 | | 118 | 111 | 106 | 103 | 100 | 95 | 92 | 85 | 80 | 63 | | 240 10" | 8" | | | | 1375 | 151 | 170 |
| 10SDS 280/5 - B-10SDS 280/5 | 130 | 175 | | 147 | 139 | 133 | 129 | 125 | 119 | 115 | 106 | 100 | 79 | | | | | | | 1545 | 175 | 198 |
| 10SDS 280/6 - B-10SDS 280/6 | 150 | 200 | | 176 | 167 | 160 | 155 | 150 | 143 | 138 | 127 | 120 | 95 | | 1715 | 199 | | | | 226 | | |

P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

Cables connection kit

It allows connection of electric cables with junction submerged in water.

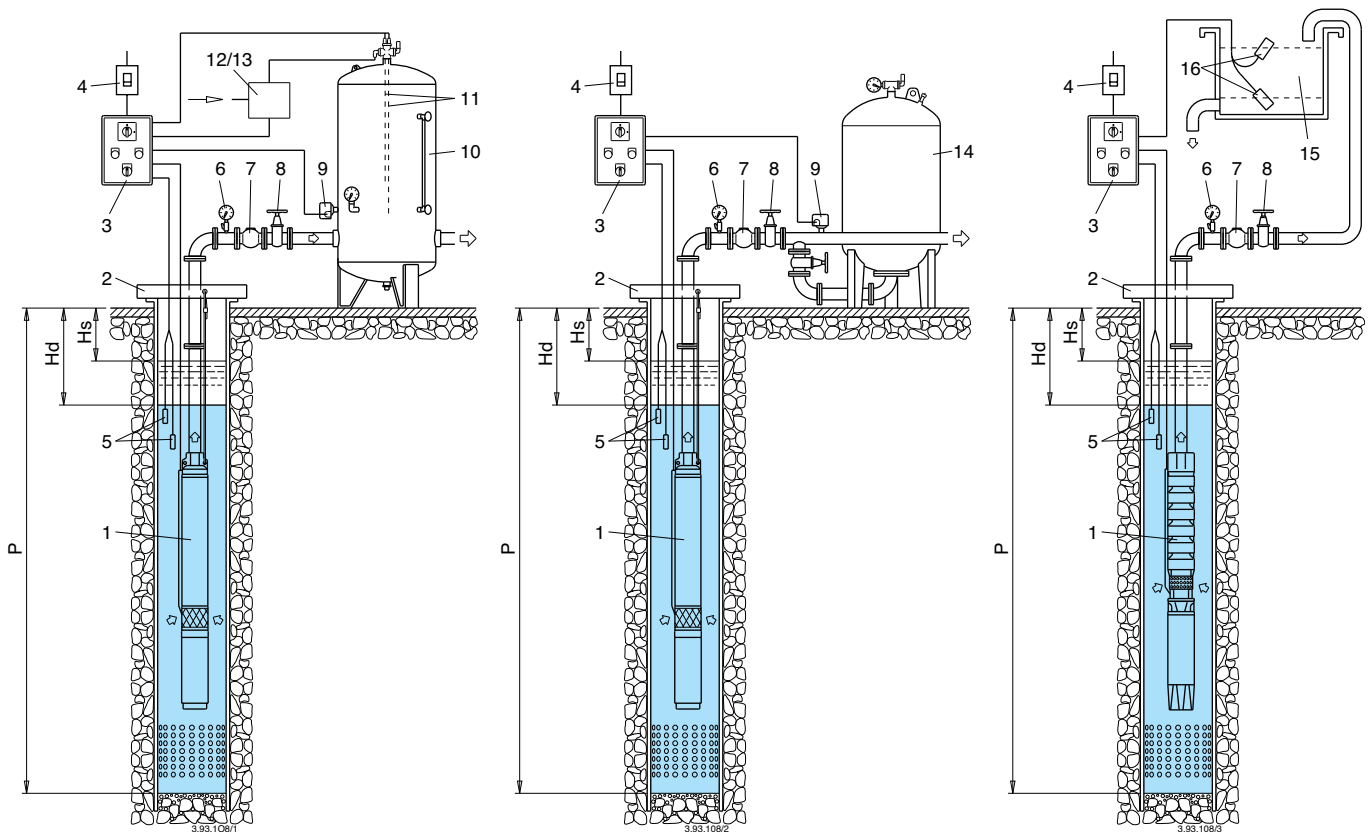
The kit includes:

- 4 connectors
- 4 shrink-sheaths for protection of individual wires
- 1 shrink-sheath for protection of the 4-pole wire.

The sheath shrinks with heating (flame or drier) which causes resin outlet granting connection waterproofing.



Installation examples



- 1 Submersible pump
- 2 Pump support system
- 3 Electric control board
- 4 Circuit breaker
- 5 Minimum level probes
- 6 Pressure gauge
- 7 Check valve
- 8 Throttle gate valve
- 9 Pressure switch
- 10 Pressure tank
- 11 Probes for air entry control
- 12 Electric valve
- 13 Compressor
- 14 Membrane tank
- 15 Storage tank
- 16 Start-stop probes

Hs Static level
 Hd Dynamic level
 P Tubewell depth