

## BG SERIES 3,5" SUBMERSIBLE ELECTRIC PUMPS

### \*COST-EFFECTIVE VERSION

- Cost-effective submersible electric pumps ensure low cost, high efficiency, better performance and reliability.

#### APPLICATIONS

- Water supply from deep well.
- Agricultural irrigation.
- Pressure boosting.
- Industrial application.

#### SPECIFICATIONS

- Delivery: up to 7,5 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 134 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 95 mm.
- Maximum permissible quantity of sand: 150 g/m<sup>3</sup>.
- Delivery port Rp 1"1/2.

#### MOTOR

- 35OS single-phase version:  
from 0,25 to 1,5 kW, 220 V, 50 Hz.
- Horizontal operation: 35OS up to 1,5 kW.
- Maximum temperature of water in contact with motor: 35°C .

#### CONSTRUCTION & CHARACTERISTICS

- Cost-effective construction ensures low cost, high efficiency, better performance and reliability.
- Abrasion resistant construction, floating impellers ensure optimum resistance to abrasion.
- The delivery port and suction support are made of precision-cast stainless steel, guarantee resistance to corrosion, durability and a sturdy coupling to the motor.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A non-return valve is fitted at the discharge to prevent back flow of water and alleviate water hammer to the pump, safeguarding impellers and diffusers.
- The BG series pumps can be coupled with the 35OS motors.
- Vertical and horizontal installation .
- Standard and special versions available.

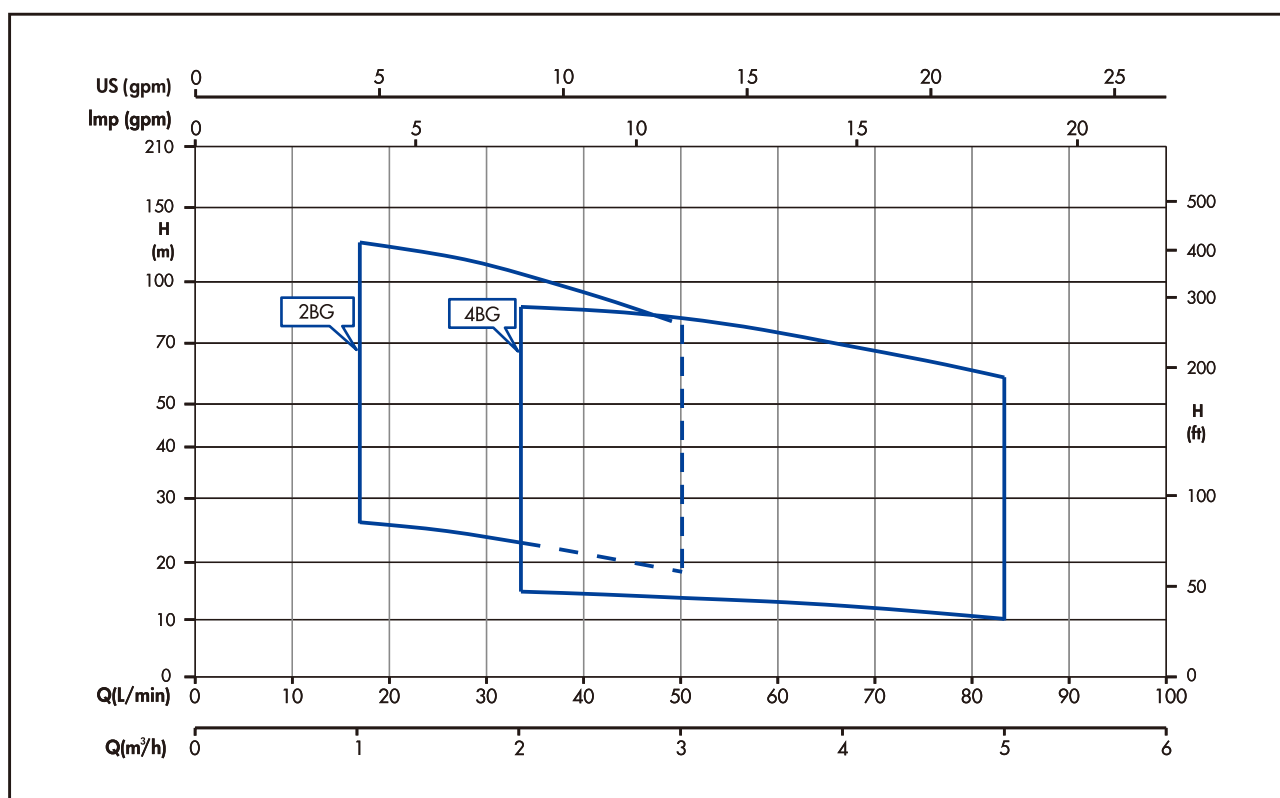
#### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.

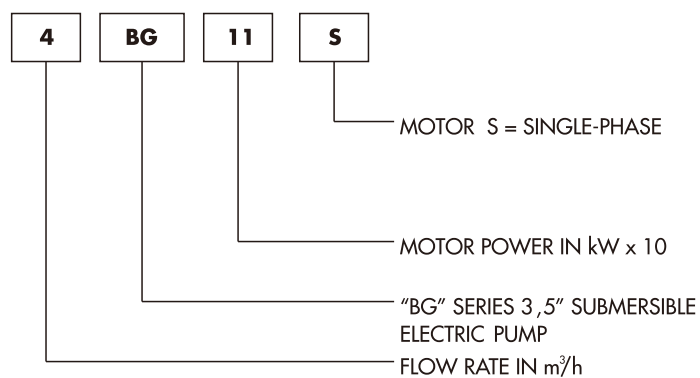


## BG SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

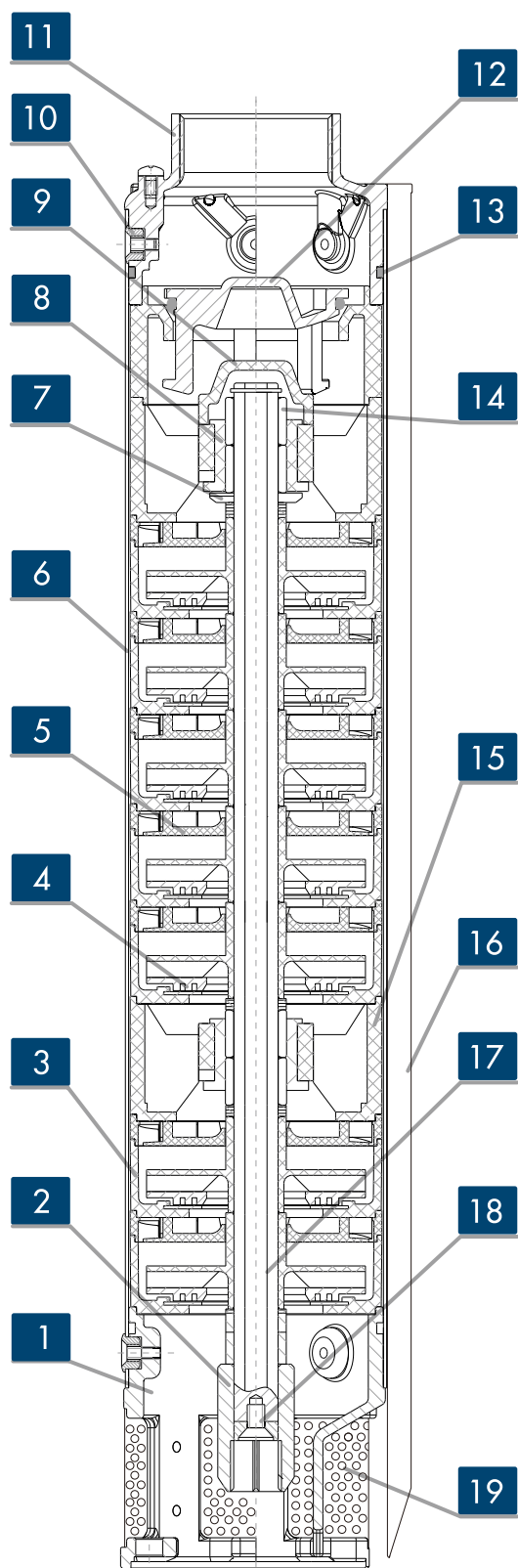
4BG11S

BG series 3,5" submersible electric pump with flow rate of 4 m³/h and single-phase 1,1 kW (1,5 Hp) motor.



## 2BG SERIES

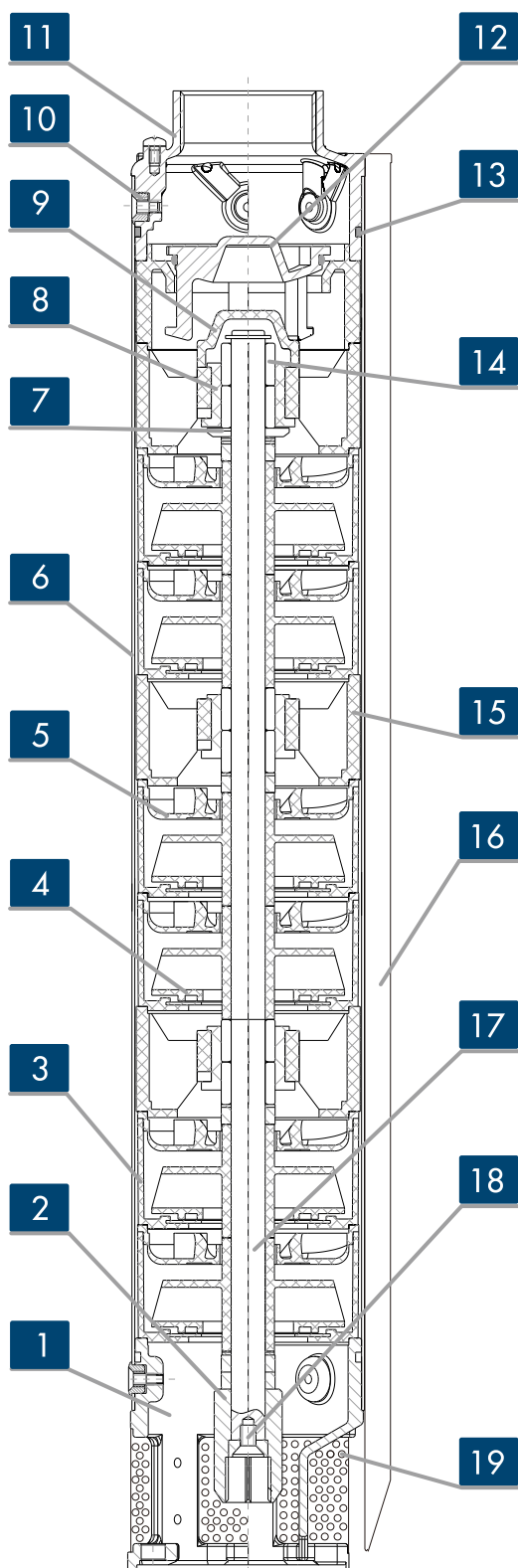
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



| REF.N. | PART                  | MATERIAL                       | STANDARD |
|--------|-----------------------|--------------------------------|----------|
| 1      | Lower support         | Precision-cast stainless steel | AISI 304 |
| 2      | Coupling              | Stainless steel                | AISI 304 |
| 3      | Stage housing         | ABS                            | -----    |
| 4      | Impeller              | ABS                            | -----    |
| 5      | Diffuser              | ABS                            | -----    |
| 6      | Outer sleeve          | Stainless steel                | AISI 304 |
| 7      | Thrust bearing        | Stainless steel                | AISI 304 |
| 8      | Bush bearing          | TPU                            | -----    |
| 9      | Sand protection cover | ABS                            | -----    |
| 10     | Pin                   | Stainless steel                | AISI 304 |
| 11     | Delivery port         | Precision-cast stainless steel | AISI 304 |
| 12     | Non-return valve      | ABS                            | -----    |
| 13     | O-ring                | NBR                            | -----    |
| 14     | Ceramic bushing       | Ceramic                        | -----    |
| 15     | Intermediate support  | ABS                            | -----    |
| 16     | Cable guard           | Stainless steel                | AISI 304 |
| 17     | Shaft                 | Stainless steel                | AISI 420 |
| 18     | Screw                 | Stainless steel                | AISI 304 |
| 19     | Filter                | Stainless steel                | AISI 304 |

## 4BG SERIES

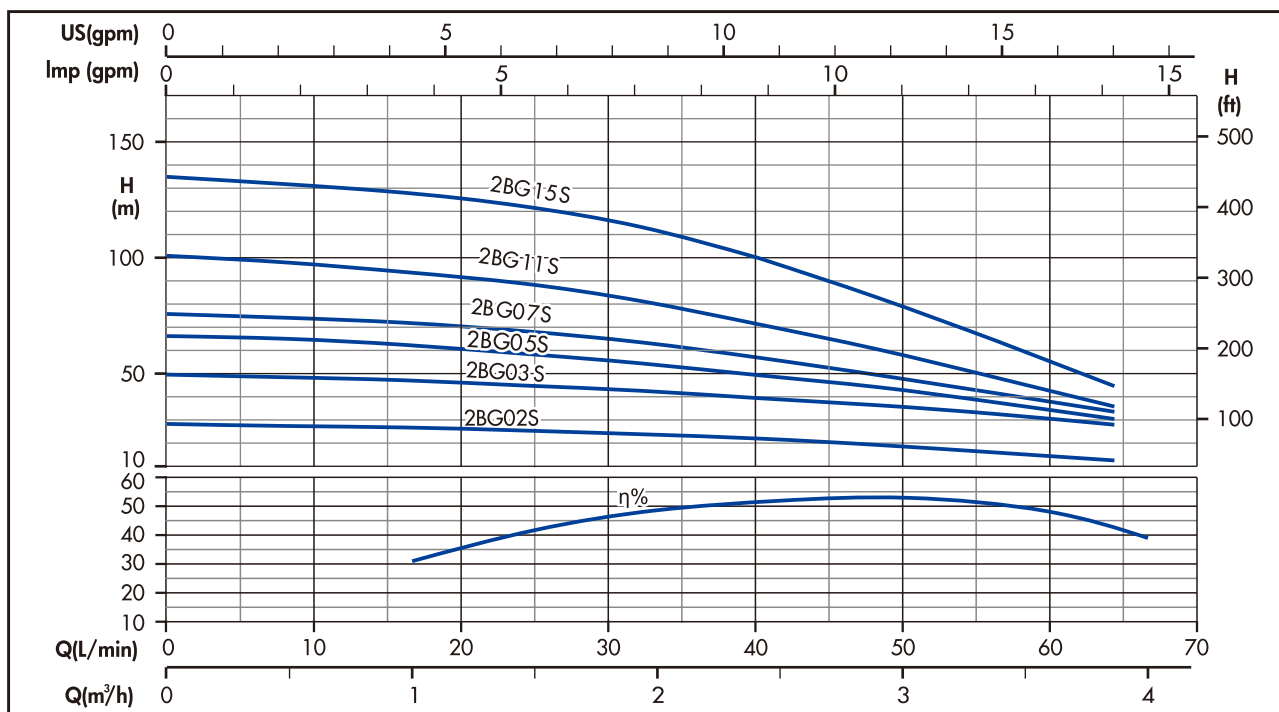
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



| REF.N. | PART                  | MATERIAL                       | STANDARD |
|--------|-----------------------|--------------------------------|----------|
| 1      | Lower support         | Precision-cast stainless steel | AISI 304 |
| 2      | Coupling              | Stainless steel                | AISI 304 |
| 3      | Stage housing         | ABS                            | -----    |
| 4      | Impeller              | ABS                            | -----    |
| 5      | Diffuser              | ABS                            | -----    |
| 6      | Outer sleeve          | Stainless steel                | AISI 304 |
| 7      | Thrust bearing        | Stainless steel                | AISI 304 |
| 8      | Bush bearing          | TPU                            | -----    |
| 9      | Sand protection cover | ABS                            | -----    |
| 10     | Pin                   | Stainless steel                | AISI 304 |
| 11     | Delivery port         | Precision-cast stainless steel | AISI 304 |
| 12     | Non-return valve      | ABS                            | -----    |
| 13     | O-ring                | NBR                            | -----    |
| 14     | Ceramic bushing       | Ceramic                        | -----    |
| 15     | Intermediate support  | ABS                            | -----    |
| 16     | Cable guard           | Stainless steel                | AISI 304 |
| 17     | Shaft                 | Stainless steel                | AISI 420 |
| 18     | Screw                 | Stainless steel                | AISI 304 |
| 19     | Filter                | Stainless steel                | AISI 304 |

## 2BG SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

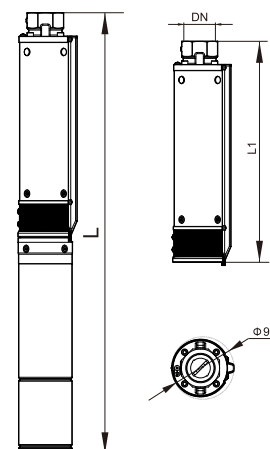


### OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE                        | N.OF<br>STAGES | kW   | Hp   | Q=DELIVERY |     |     |    |    |
|-------------------------------------|----------------|------|------|------------|-----|-----|----|----|
|                                     |                |      |      | l/min 0    | 17  | 33  | 50 | 67 |
|                                     |                |      |      | m³/h 0     | 1   | 2   | 3  | 4  |
| H=TOTAL HEAD METERS COLUMN OF WATER |                |      |      |            |     |     |    |    |
| 2BG 02S                             | 5              | 0,25 | 0,33 | 28         | 27  | 22  | 19 | 12 |
| 2BG 03S                             | 9              | 0,37 | 0,55 | 49         | 47  | 42  | 37 | 27 |
| 2BG 05S                             | 12             | 0,55 | 0,75 | 66         | 61  | 53  | 43 | 30 |
| 2BG 07S                             | 14             | 0,75 | 1    | 76         | 70  | 63  | 58 | 33 |
| 2BG 11S                             | 20             | 1,1  | 1,5  | 110        | 103 | 90  | 67 | 38 |
| 2BG 15S                             | 25             | 1,5  | 2    | 134        | 128 | 112 | 79 | 45 |

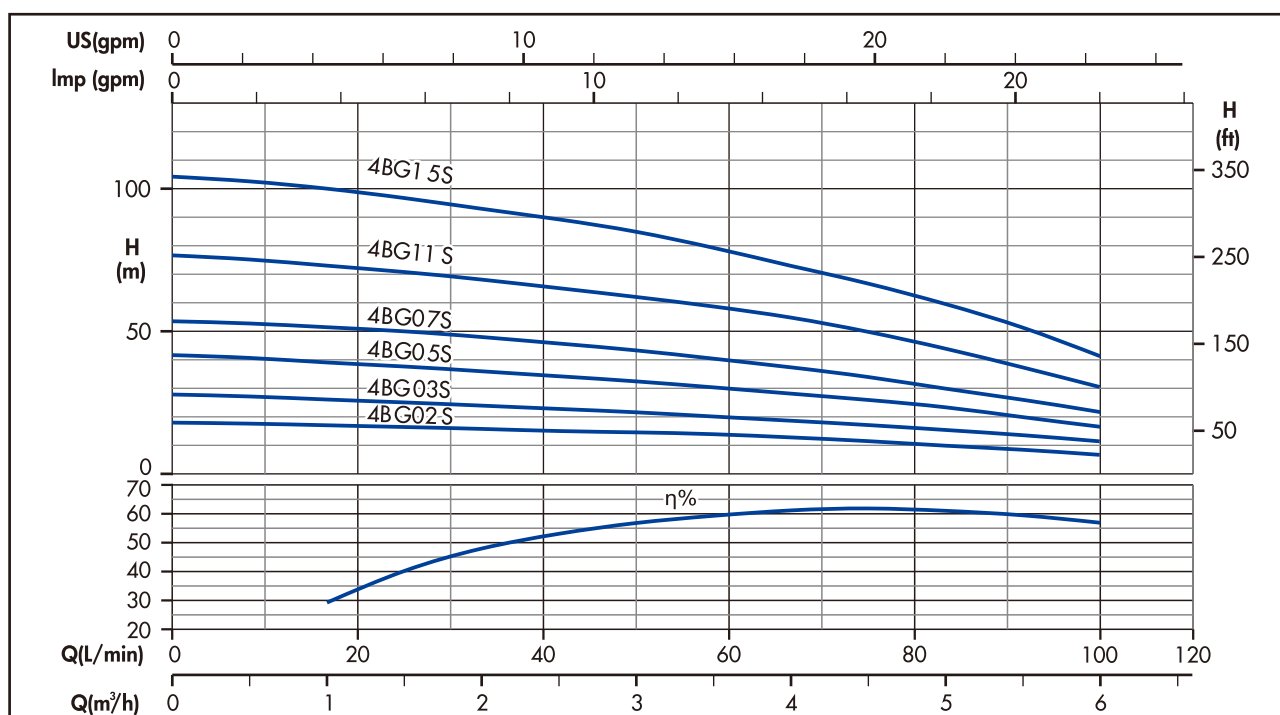
### DIMENSIONS AND WEIGHTS AT 50 Hz

| PUMP TYPE | N.OF STAGES | DN       | L1 mm | L mm   | PUMP WEIGHT kg | ELECTRIC PUMP WEIGHT kg |
|-----------|-------------|----------|-------|--------|----------------|-------------------------|
| 2BG 02S   | 5           | Rp 1"1/2 | 334,5 | 680    | 2,9            | 9,4                     |
| 2BG 03S   | 9           |          | 455,5 | 816    | 3,9            | 11,2                    |
| 2BG 05S   | 12          |          | 546,5 | 927    | 4,6            | 12,6                    |
| 2BG 07S   | 14          |          | 606,5 | 1012   | 5,2            | 14,2                    |
| 2BG 11S   | 20          |          | 825   | 1289,5 | 6,7            | 17,7                    |
| 2BG 15S   | 25          |          | 1001  | 1520,5 | 8,1            | 21,1                    |



## 4BG SERIES

### OPERATING CHARACTERISTICS AT 50 Hz



### OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE                        | N.OF<br>STAGES | kW   | Hp   | Q=DELIVERY |     |    |    |     |
|-------------------------------------|----------------|------|------|------------|-----|----|----|-----|
|                                     |                |      |      | l/min 0    | 17  | 50 | 67 | 100 |
|                                     |                |      |      | m³/h 0     | 1   | 3  | 4  | 6   |
| H=TOTAL HEAD METERS COLUMN OF WATER |                |      |      |            |     |    |    |     |
| 4BG 02S                             | 4              | 0,25 | 0,33 | 18         | 16  | 15 | 13 | 8   |
| 4BG 03S                             | 6              | 0,37 | 0,55 | 27         | 26  | 22 | 18 | 11  |
| 4BG 05S                             | 9              | 0,55 | 0,75 | 41         | 39  | 32 | 28 | 17  |
| 4BG 07S                             | 12             | 0,75 | 1    | 53         | 51  | 43 | 38 | 22  |
| 4BG 11S                             | 17             | 1,1  | 1,5  | 76         | 72  | 61 | 55 | 31  |
| 4BG 15S                             | 23             | 1,5  | 2    | 104        | 100 | 95 | 72 | 41  |

### DIMENSIONS AND WEIGHTS AT 50 Hz

| PUMP TYPE | N.OF STAGES | DN       | L1 mm | L mm   | PUMP WEIGHT kg | ELECTRIC PUMP WEIGHT kg |
|-----------|-------------|----------|-------|--------|----------------|-------------------------|
| 4BG02S    | 4           | Rp 1"1/2 | 343,5 | 689    | 3              | 9,5                     |
| 4BG03S    | 6           |          | 423,5 | 784    | 3,5            | 10,8                    |
| 4BG05S    | 9           |          | 544,5 | 925    | 4,4            | 12,4                    |
| 4BG07S    | 12          |          | 665   | 1070,5 | 5,2            | 14,2                    |
| 4BG11S    | 17          |          | 901   | 1365,5 | 6,8            | 17,8                    |
| 4BG15S    | 23          |          | 1179  | 1698,5 | 8,6            | 21,6                    |

