Solartive®

# PRODUCT CATALOGUE

# STAINLESS STEEL SUBMERSIBLE PUMPS

## ST Series - 50Hz

Solartive®

## ABOUT US

**Solartive Techno Industries Pvt. Ltd.** is a leading manufacturer and solutions provider in the field of water pumping solutions. With a strong focus on submersible pumps, we combine advanced technology, reliable engineering, and sustainable innovation to provide all types of stainless steel fabricated submersible pumps to export market as well as empower farmers, rural communities, and water supply projects across India.

Established with a mission to provide clean, affordable, and energy-efficient water pumping solutions, Solartive has grown into one of India's most trusted names in the pump industry.

## OUR EXPERTISE

Our submersible pumps are designed to operate in deep water levels, making them ideal for:

Agriculture & Irrigation

Drinking Water Supply

Rural Water Projects (under schemes like PM-KUSUM & Jal Jeevan Mission)

Borewell-based Groundwater Extraction

Industrial Applications

We manufacture pumps in a range of capacities from 1 HP to 50 HP, designed to operate efficiently even in low/high voltage conditions.

Highly Efficient Motors (AC): Built for maximum power output and lower energy loss

Corrosion-Resistant Stainless Steel Body

Optimal power usage

Smart Dry-Run Protection & Overload Protection

Minimum Operational Cost due to energy efficient pumps

ISI & BIS Approved products

## OUR STRENGTH

Highly Skilled R&D staff along with R&D Lab.

Backed by experienced engineers and 25+ years of combined domain expertise.

Experienced Staff and Operators.

Fully Automated testing set up.

Separate Quality Lab for material inspection and testing.

Turnkey EPC capabilities: from survey to installation & after-sales support.

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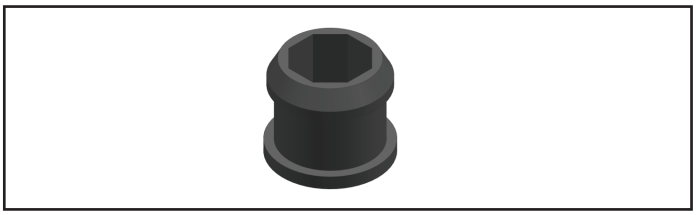
# INDEX

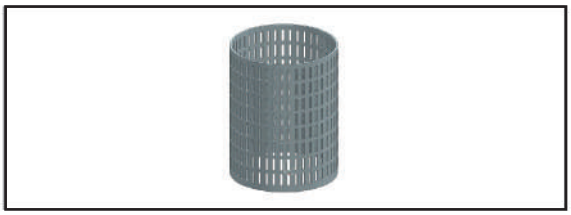
## BEARINGS WITH SAND CHANNELS

All bearings are water-lubricated and have a square shape, enabling sand particles, if any, to leave the pump together with the pumped liquid.



## INLET STRAINER

The intel strainer prevents particales over a certain size from entering the pump.

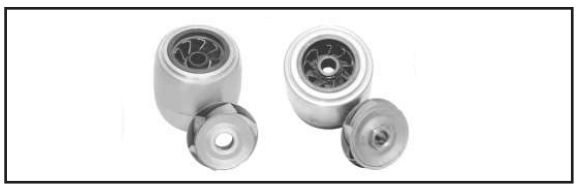


## STOP RING

The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up. The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.

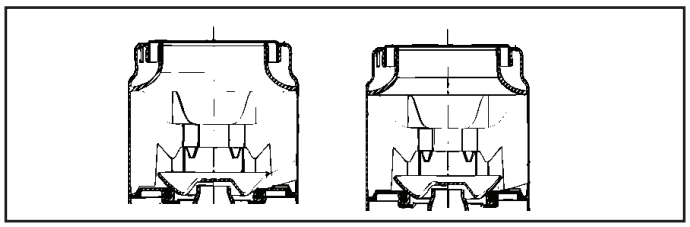

## BOWL & IMPELLER

Stainless steel fabcricated bowl & impeller with High Performance. hydroulic design with high efficiency of pump set.
Suitable for all site conditions.



## NON-RETURN VALVE

Solartive pumps are equipped with a non-return valve in the valve casing preventing back flow in connection with pump stoppage.Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to the minimum.
The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.



## SUCTION HOUSING

Investment casting of suction housing gives extreamly higher strength to get fix with any submersible motor to delever maximum output at any site condition as well as design of suction housing is made in such a manner it become easy to install.

## FEATURES AND BENEFITS

### A WIDE PUMP RANGE
We offers submersible pumps with energy efficient duty points ranging from 0.1 to 335 $m^3/h$. The pump range consists of many pump sizes and each pump size is available with an optional number of stages to match any duty point.

### HIGH PUMPS EFFICIENCY
Often pump efficiency is a neglected factor compared to the price however, the observant user will notice that price variations are without importance to water supply economics compared to the importance of pump and motor efficiencies.

### APPLICATIONS
We offers a complete range of pumps and motors which as a standard are made completely of stainless steel AISI - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

### LOW INSTALLATION COSTS
Stainless steel means low weight facilitating the handling of pumps and resulting in low equipment costs and reduced installation and service time. In addition pumps will be as new after service due to the high wear resistance of stainless steel.


## PUMPED LIQUIDS
**Clean, thin, non-aggressive liquids without solid particles or fibres.**

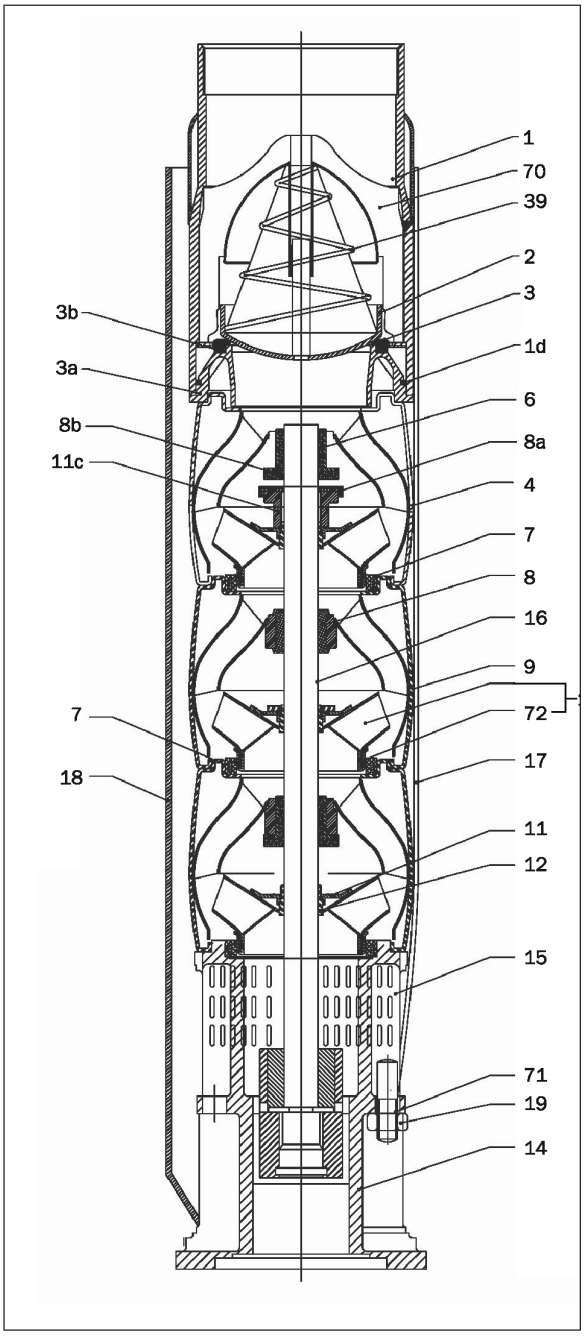
## OPERATING CONDITIONS
**Flow rate, Q : 0.1 - 280 $m^3/h$.**
**Head, H: Maximum 670m.**

Maximum Liquid Temperature:

| Motor | Installation | | |
|---|---|---|---|
| | Flow velocity-past motor | Vertical | Horizontal |
| **Solartive** 4", 6", 8" & 10" | 0.15 m/s | 40°C | 40°C |

Operating pressure: Maximum 0.67m (67 bar)

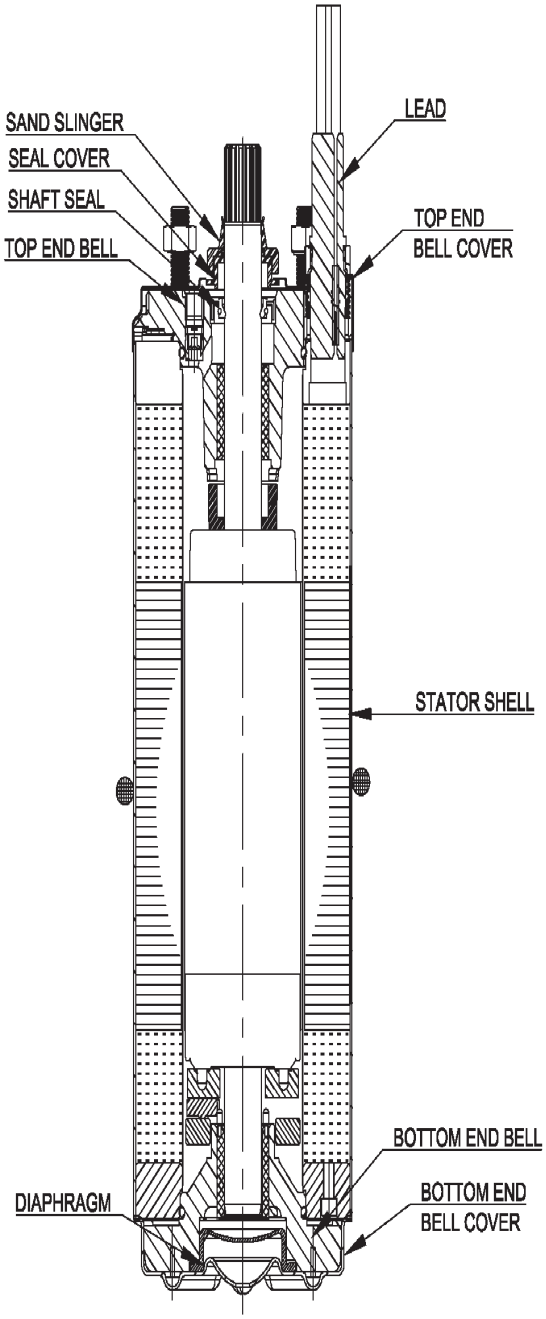
## EXAMPLE : ST - 77




## MATERIAL SPECIFICATION

| POS. | DESCRIPTION | MATERIAL | STANDARD |
|---|---|---|---|
| 1 | VALVE CASING | STAINLESS STEEL | 304 |
| 1d | O-RING | NBR | |
| 2 | VALVE CAP | STAINLESS STEEL | 304 |
| 3 | VALVE SEAT | STAINLESS STEEL | 304 |
| 3a | LOWER VALVE SEAT RETAINER | STAINLESS STEEL | 304 |
| 3b | UPPER VALVE SEAT RETAINER | STAINLESS STEEL | 304 |
| 4 | TOP CHAMBER CUP | STAINLESS STEEL | 304 |
| 6 | UPPER BEARING | STAINLESS STEEL | 304 |
| 7 | NECKRING | NBR/PPS | NBR + SS-304 |
| 8 | BEARING | NBR | NBR |
| 8a | WASHER FOR STOP RING | CARBON/GRAPHITE HY22 IN PTFE MASS | CFT - CARBON |
| 8b | STOP RING | STAINLESS STEEL | 304 |
| 9 | CHAMBER | STAINLESS STEEL | 304 |
| 11 | SPLIT CONE NUT | STAINLESS STEEL | 304 |
| 11c | NUT FOR STOP RING | STAINLESS STEEL | 304 |
| 12 | SPLIT CONE | STAINLESS STEEL | 304 |
| 13 | IMPELLER | STAINLESS STEEL | 304 |
| 14 | SUCTION INTERCONNECTOR | STAINLESS STEEL | 304 |
| 15 | STRAINER | STAINLESS STEEL | 304 |
| 16 | SHAFT COMPLETE | STAINLESS STEEL | 304 |
| 17 | STRAP | STAINLESS STEEL | 431 |
| 18 | CABLE GAURD | STAINLESS STEEL | 304 |
| 19 | NUT FOR STRAP | STAINLESS STEEL | 304 |
| 39 | SPRING FOR VALVE CUP | STAINLESS STEEL | 304 |
| 70 | VALVE GUIDE | STAINLESS STEEL | 304 |
| 71 | WASHER | STAINLESS STEEL | 304 |
| 72 | WEAR RING | STAINLESS STEEL | 304 |

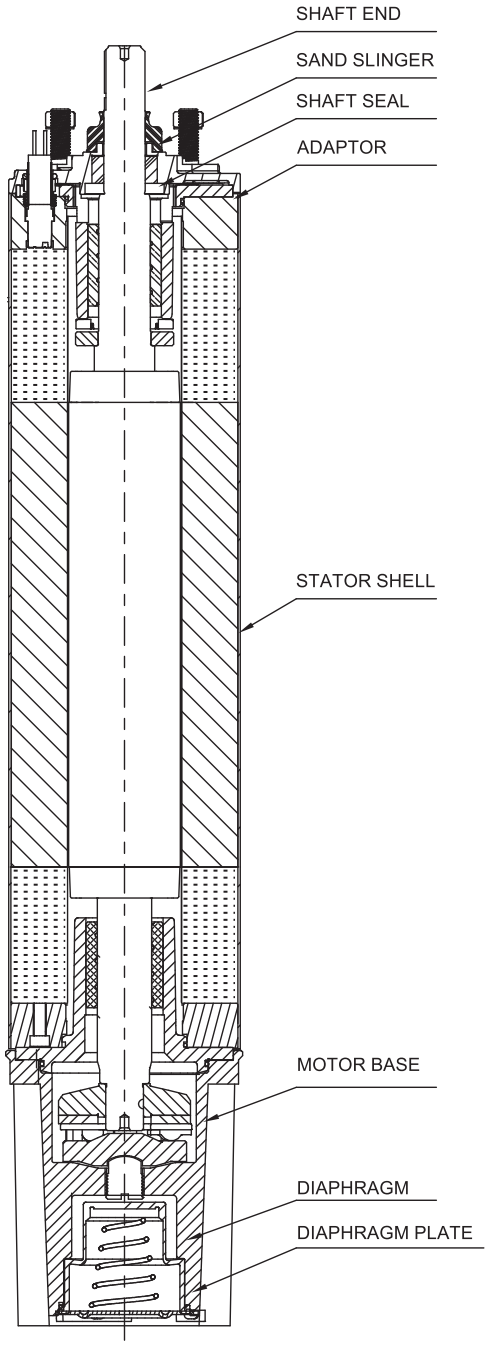
## SECTIONAL VIEW OF 4” PREMIUM




## MATERIAL SPECIFICATION 4” PREMIUM

| PART | MATERIAL | |
|---|---|---|
| | **AISI SS 304** | **AISI SS 316** |
| SHAFT END | DUPLEX | DUPLEX |
| SAND SLINGER | NBR | NBR |
| SEAL COVER | AISI SS 304 | AISI SS 316 |
| TOP END BELL COVER | AISI SS 304 | AISI SS 316 |
| TOP END BELL | CAST IRON POWDER COATED | CAST IRON POWDER COATED |
| SEALS | NBR | NBR |
| STATOR SHELL | AISI SS 304 | AISI SS 316 |
| SHAFT SEAL | EPDM + AISI SS 304 | EPDM + AISI SS 304 |
| BOTTOM END BELL | CAST IRON POWDER COATED | CAST IRON POWDER COATED |
| BOTTOM END BELL COVER | AISI SS 304 | AISI SS 316 |
| DIAPHRAGM | EPDM | EPDM |
| LEAD | XLPE | XLPE |

## SECTIONAL VIEW OF 6” PREMIUM




## MATERIAL SPECIFICATION 6” PREMIUM

**LIST OF MATERIAL**

| PART | MATERIAL |
|---|---|
| ADAPTOR | AISI SS 304 |
| STATOR SHELL | AISI SS 304 |
| SEALS | NBR |
| SAND SLINGER | NBR |
| SHAFT END | DUPLEX |
| SHAFT SEAL | EPDM + AISI SS 304 |
| MOTOR BASE | AISI SS 304 |
| DIAPHRAGM | EPDM |
| DIAPHRAGM PLATE | AISI SS 304 |
| LEAD | EPR |

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## ST-2, ST-3, ST-5, ST-9

# 4” Submersible Pump

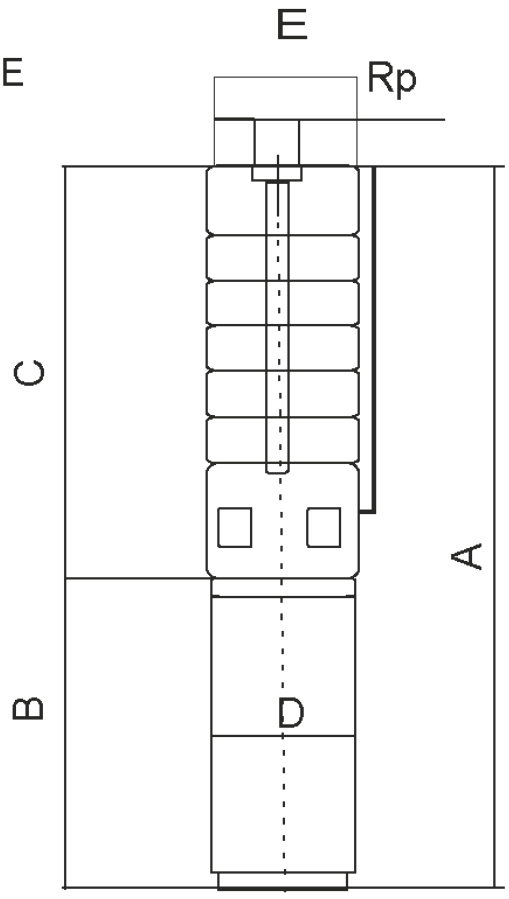
Solartive®

# PERFORMANCE CHART ST-2

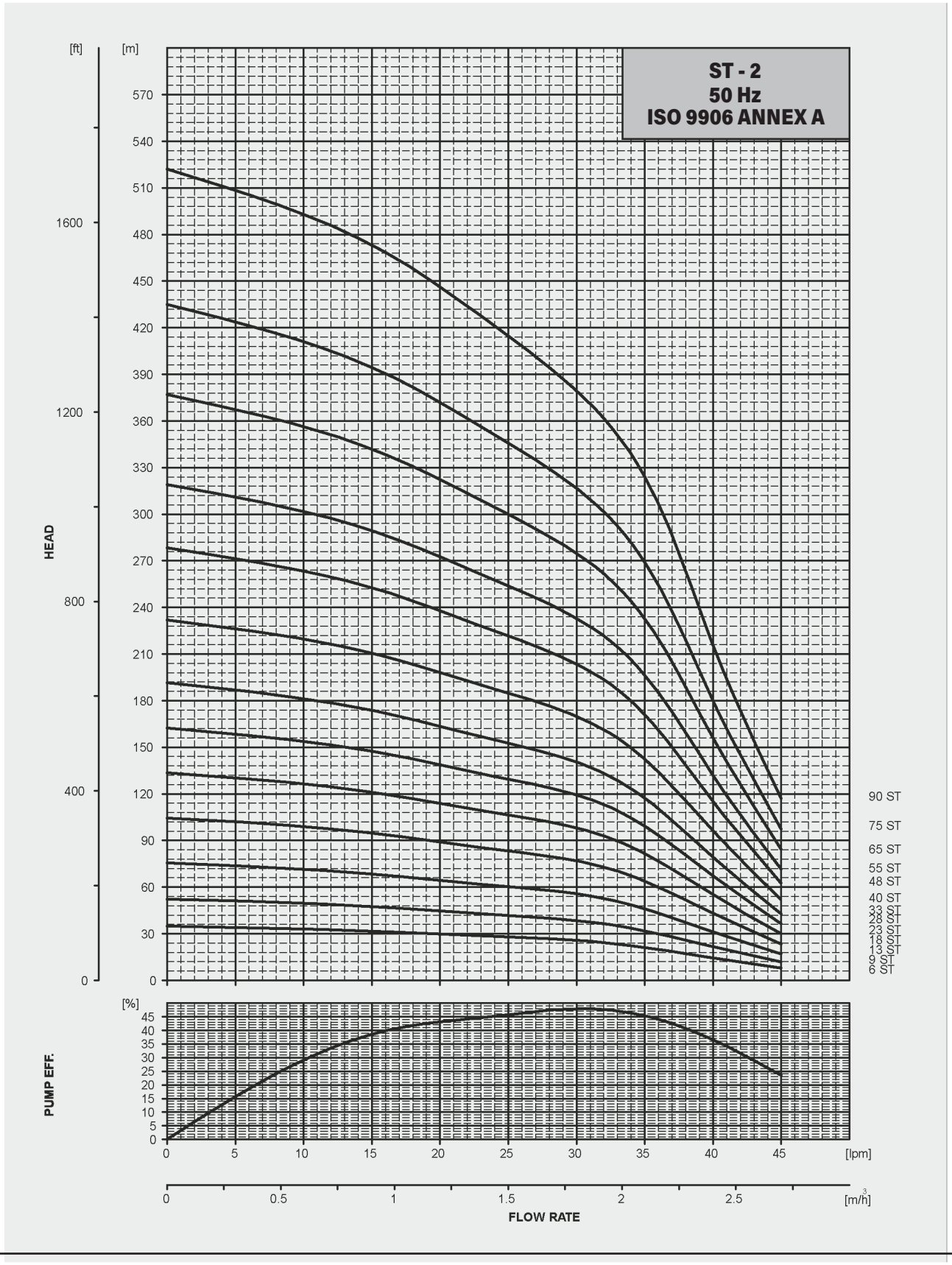
## RADIAL FLOW PUMP

| MODEL ST-2 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ (LPM) | 0 | 1 | 1.4 | **2** | 2.4 | 2.7 |
| | | | | | | | 0 | 17 | 23 | **33** | 40 | 45 |
| ST-2/6(P4)50(4X4) | 0.37 | 0.5 | 6 | V-4 | 1¼" | HEAD IN METERS | 35 | 31 | 29 | **23** | 14 | 8 |
| ST-2/9(P4)50(4X4) | 0.37 | 0.5 | 9 | V-4 | 1¼" | | 52 | 46 | 43 | **35** | 22 | 12 |
| ST-2/13(P4)50(4X4) | 0.55 | 0.75 | 13 | V-4 | 1¼" | | 75 | 67 | 62 | **51** | 31 | 17 |
| ST-2/18(P4)50(4X4) | 0.75 | 1 | 18 | V-4 | 1¼" | | 104 | 93 | 86 | **70** | 43 | 23 |
| ST-2/23(P4)50(4X4) | 1.1 | 1.5 | 23 | V-4 | 1¼" | | 133 | 118 | 109 | **90** | 55 | 30 |
| ST-2/28(P4)50(4X4) | 1.5 | 2 | 28 | V-4 | 1¼" | | 162 | 144 | 133 | **109** | 67 | 36 |
| ST-2/33(P4)50(4X4) | 1.5 | 2 | 33 | V-4 | 1¼" | | 191 | 170 | 157 | **129** | 79 | 43 |
| ST-2/40(P4)50(4X4) | 2.2 | 3 | 40 | V-4 | 1¼" | | 232 | 206 | 190 | **156** | 96 | 52 |
| ST-2/48(P4)50(4X4) | 2.2 | 3 | 48 | V-4 | 1¼" | | 278 | 247 | 228 | **187** | 115 | 62 |
| ST-2/55(P4)50(4X4) | 3 | 4 | 55 | V-4 | 1¼" | | 319 | 283 | 261 | **215** | 132 | 72 |
| ST-2/65(P4)50(4X4) | 3 | 4 | 65 | V-4 | 1¼" | | 377 | 335 | 309 | **254** | 156 | 85 |
| ST-2/75(P4)50(4X4) | 3.7 | 5 | 75 | V-4 | 1¼" | | 435 | 386 | 356 | **293** | 180 | 98 |
| ST-2/90(P4)50(4X4) | 4.5 | 6 | 90 | V-4 | 1¼" | | 522 | 464 | 428 | **351** | 216 | 117 |

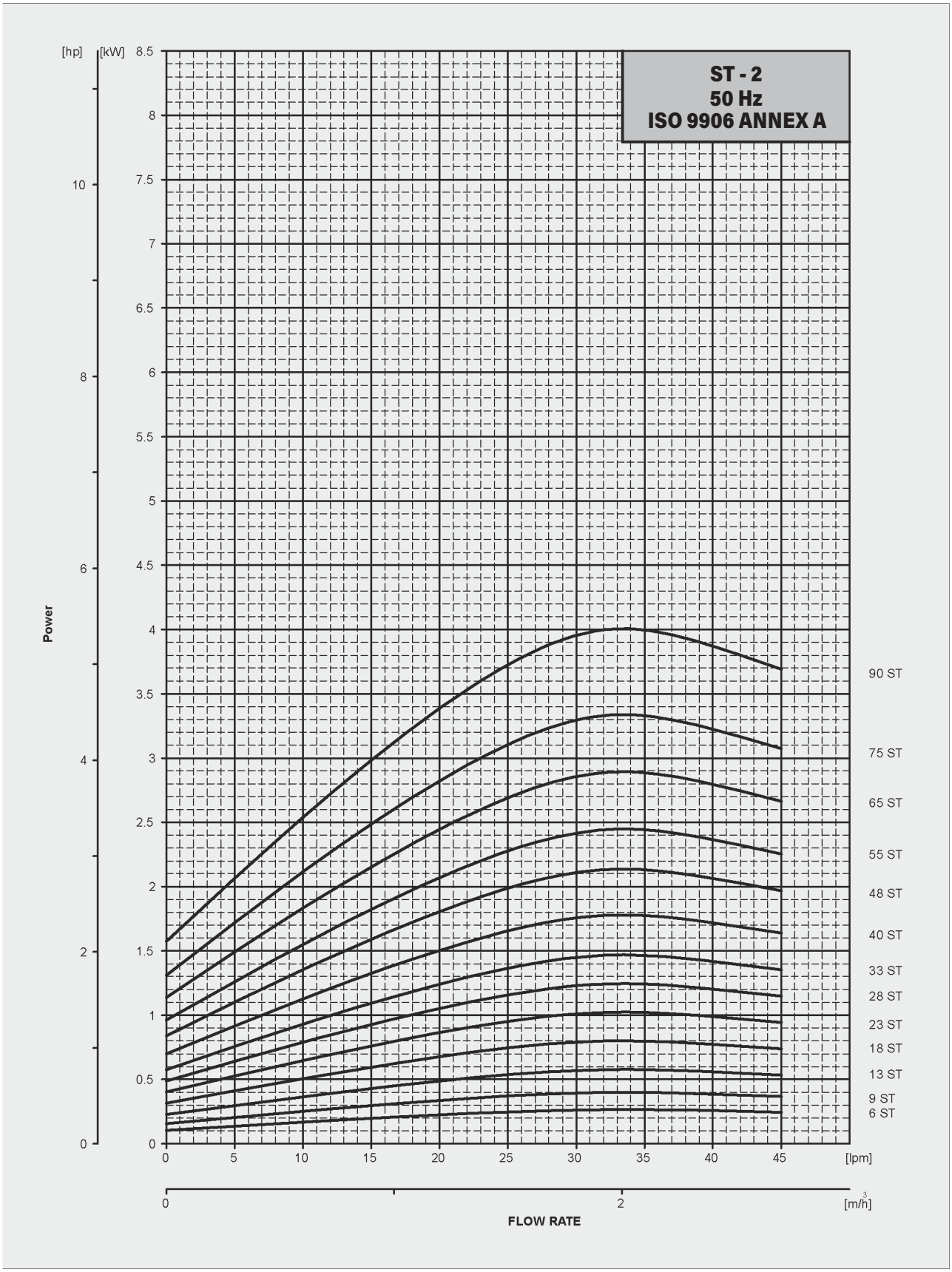
FIGURE



# PERFORMANCE CURVE



# PERFORMANCE CURVE



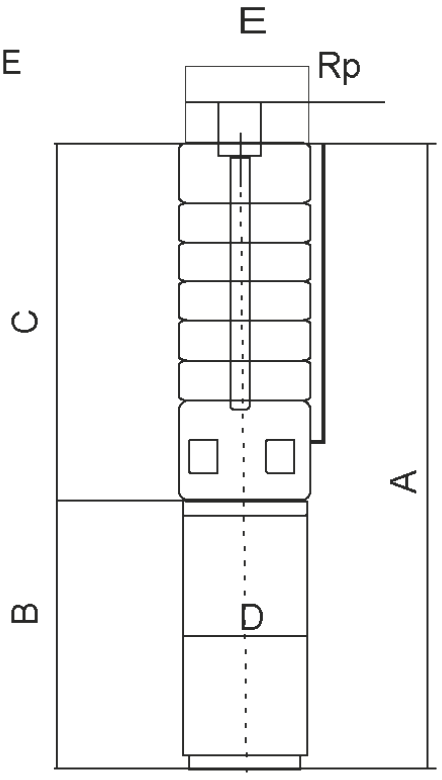
# PERFORMANCE CHART

## ST-3

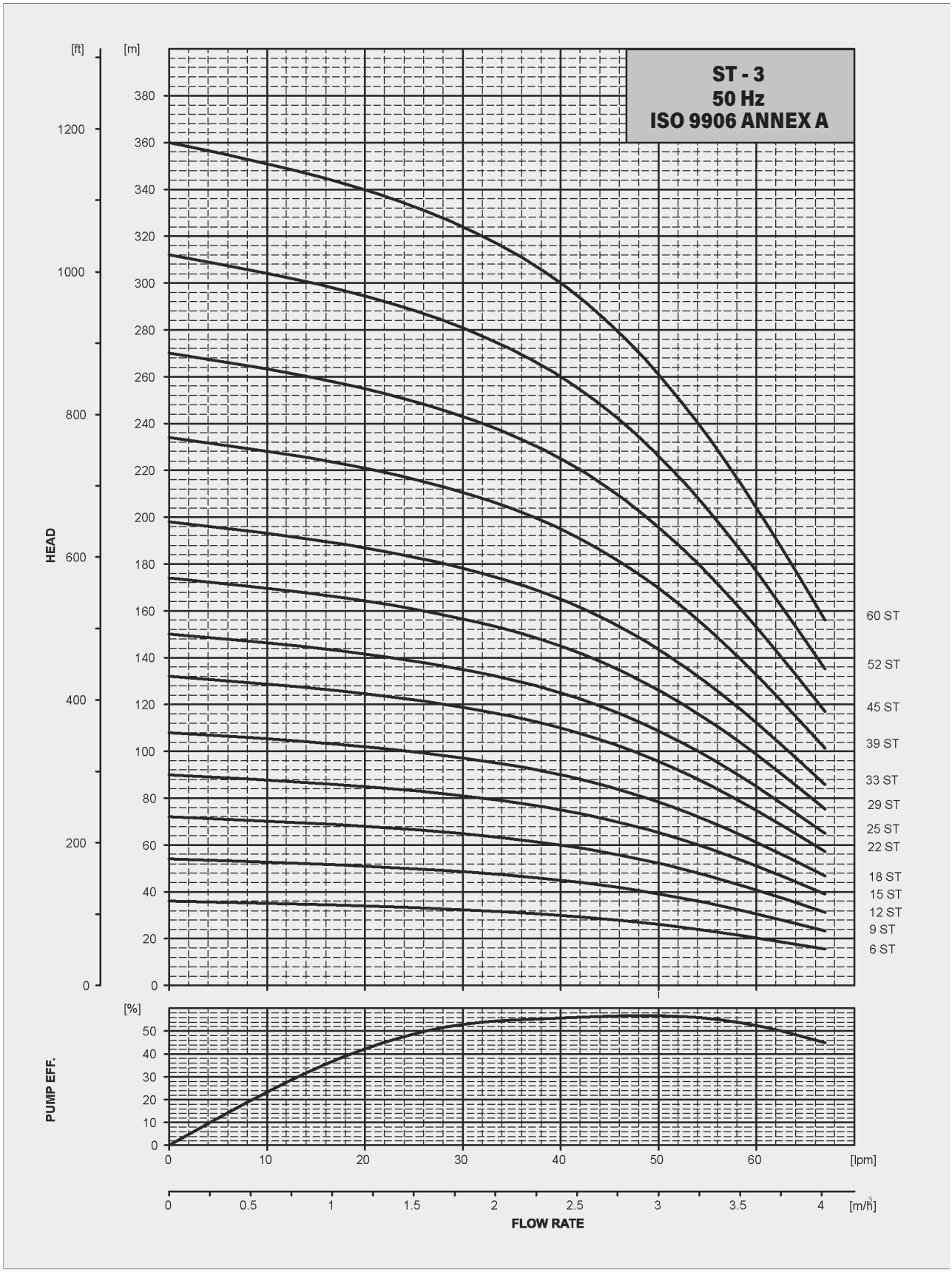
## RADIAL FLOW PUMP

| MODEL ST-3 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ (LPM) | 0 | 1.8 | 2.4 | 3 | 3.6 | 4 |
| | | | | | | | 0 | 30 | 40 | 50 | 60 | 67 |
| ST-3/6(P4)50(4X4) | 0.37 | 0.5 | 6 | V-4 | 1½" | HEAD IN METERS | 36 | 32 | 30 | 26 | 20 | 16 |
| ST-3/9(P4)50(4X4) | 0.55 | 0.75 | 9 | V-4 | 1½" | | 54 | 49 | 45 | 39 | 31 | 23 |
| ST-3/12(P4)50(4X4) | 0.75 | 1 | 12 | V-4 | 1½" | | 72 | 65 | 60 | 52 | 41 | 31 |
| ST-3/15(P4)50(4X4) | 1.1 | 1.5 | 15 | V-4 | 1½" | | 90 | 81 | 75 | 65 | 51 | 39 |
| ST-3/18(P4)50(4X4) | 1.1 | 1.5 | 18 | V-4 | 1½" | | 108 | 97 | 90 | 78 | 61 | 47 |
| ST-3/22(P4)50(4X4) | 1.5 | 2 | 22 | V-4 | 1½" | | 132 | 119 | 110 | 96 | 75 | 57 |
| ST-3/25(P4)50(4X4) | 1.5 | 2 | 25 | V-4 | 1½" | | 150 | 135 | 125 | 109 | 85 | 65 |
| ST-3/29(P4)50(4X4) | 2.2 | 3 | 29 | V-4 | 1½" | | 174 | 157 | 145 | 126 | 99 | 75 |
| ST-3/33(P4)50(4X4) | 2.2 | 3 | 33 | V-4 | 1½" | | 198 | 178 | 165 | 144 | 112 | 86 |
| ST-3/39(P4)50(4X4) | 3 | 4 | 39 | V-4 | 1½" | | 234 | 211 | 195 | 170 | 133 | 101 |
| ST-3/45(P4)50(4X4) | 3 | 4 | 45 | V-4 | 1½" | | 270 | 243 | 225 | 196 | 153 | 117 |
| ST-3/52(P4)50(4X4) | 3.7 | 5 | 52 | V-4 | 1½" | | 312 | 281 | 260 | 226 | 177 | 135 |
| ST-3/60(P4)50(4X4) | 4.5 | 6 | 60 | V-4 | 1½" | | 360 | 324 | 300 | 261 | 204 | 156 |

FIGURE



# PERFORMANCE CURVE

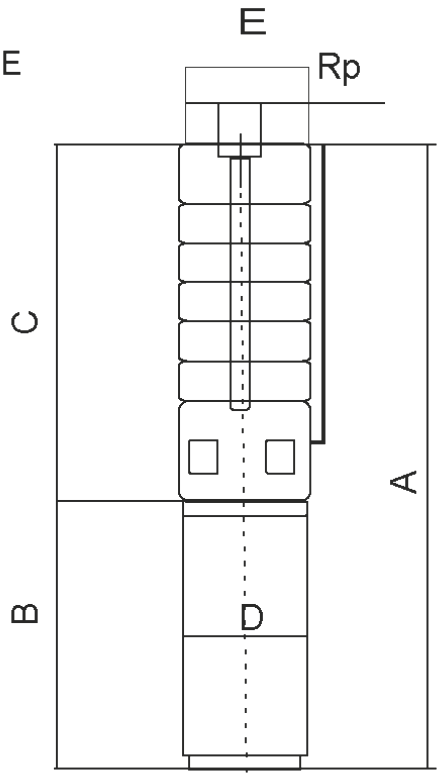


# PERFORMANCE CHART ST-5

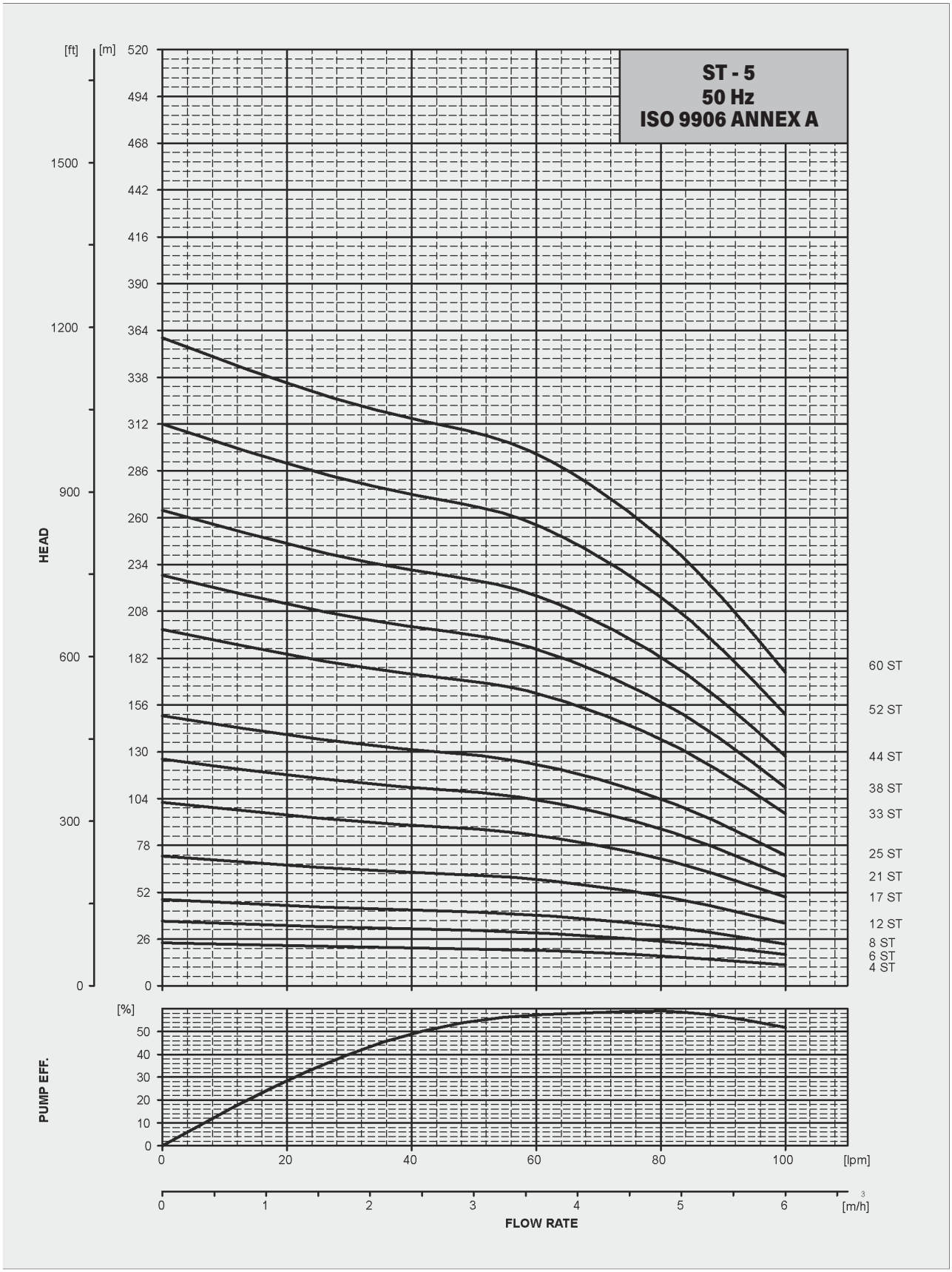
## RADIAL FLOW PUMP

| MODEL ST-5 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 2.4 | 3.4 | 4 | 5 | 6 |
| | | | | | | (LPM) | 0 | 40 | 57 | 67 | 83 | 100 |
| ST-5/4(P4)50(4X4) | 0.37 | 0.5 | 4 | V-4 | 1½" | HEAD IN METERS | 24 | 21 | 20 | **19** | **16** | 12 |
| ST-5/6(P4)50(4X4) | 0.55 | 0.75 | 6 | V-4 | 1½" | | 36 | 32 | 30 | **28** | **24** | 17 |
| ST-5/8(P4)50(4X4) | 0.75 | 1 | 8 | V-4 | 1½" | | 48 | 42 | 40 | **38** | **32** | 23 |
| ST-5/12(P4)50(4X4) | 1.1 | 1.5 | 12 | V-4 | 1½" | | 72 | 63 | 60 | **56** | **48** | 35 |
| ST-5/17(P4)50(4X4) | 1.5 | 2 | 17 | V-4 | 1½" | | 102 | 89 | 85 | **80** | **68** | 49 |
| ST-5/21(P4)50(4X4) | 2.2 | 3 | 21 | V-4 | 1½" | | 126 | 110 | 105 | **99** | **84** | 61 |
| ST-5/25(P4)50(4X4) | 2.2 | 3 | 25 | V-4 | 1½" | | 150 | 131 | 125 | **118** | **100** | 73 |
| ST-5/33(P4)50(4X4) | 3 | 4 | 33 | V-4 | 1½" | | 198 | 173 | 165 | **155** | **132** | 96 |
| ST-5/38(P4)50(4X4) | 3.7 | 5 | 38 | V-4 | 1½" | | 228 | 200 | 190 | **179** | **152** | 110 |
| ST-5/44(P4)50(4X4) | 4.5 | 6 | 44 | V-4 | 1½" | | 264 | 231 | 220 | **207** | **176** | 128 |
| ST-5/52(P4)50(4X4) | 5.5 | 7.5 | 52 | V-4 | 1½" | | 312 | 273 | 260 | **244** | **208** | 151 |
| ST-5/60(P4)50(4X4) | 5.5 | 7.5 | 60 | V-4 | 1½" | | 360 | 315 | 300 | **282** | **240** | 174 |

FIGURE

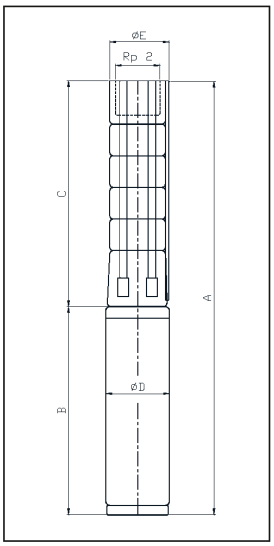


# PERFORMANCE CURVE

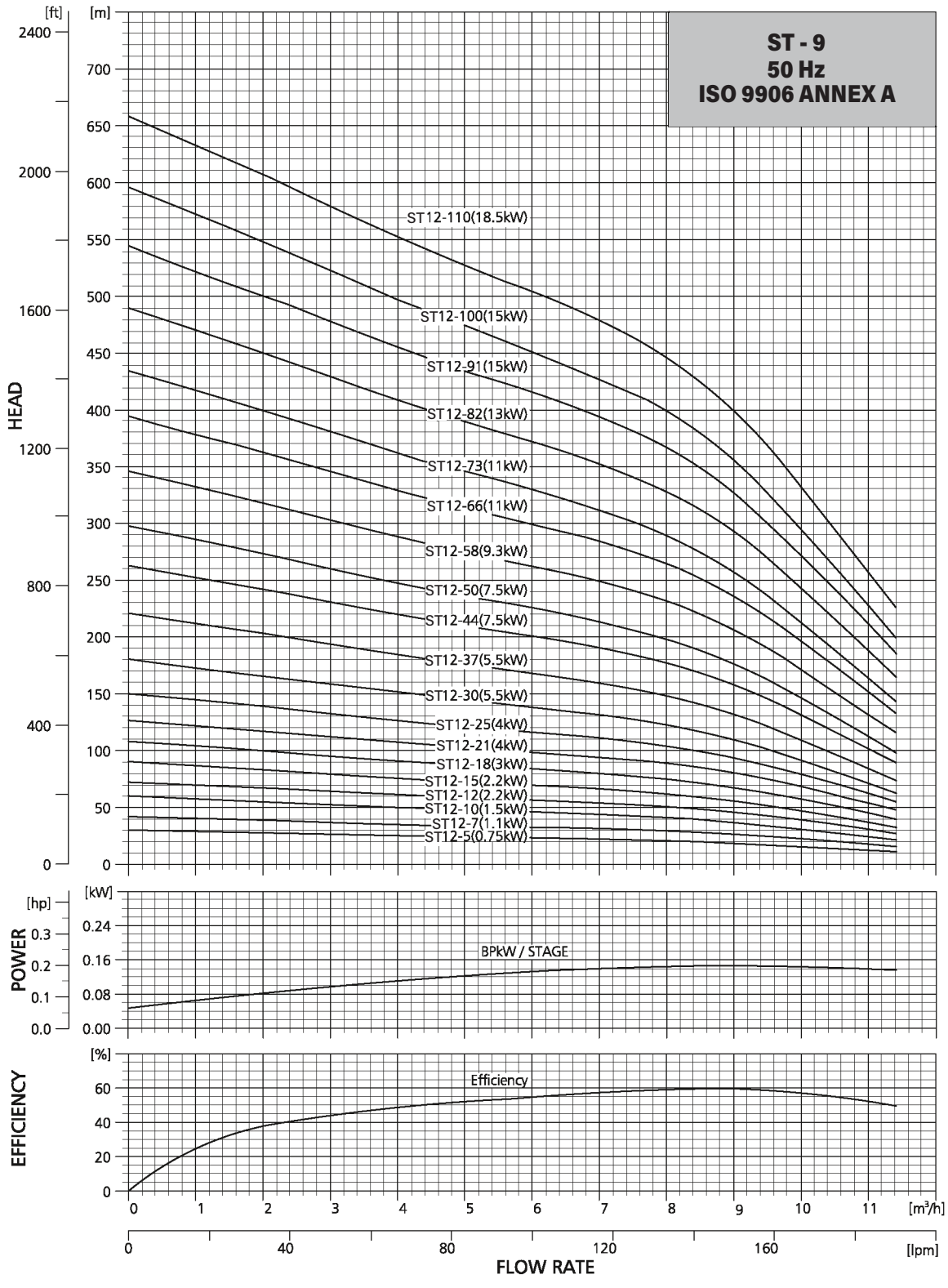


# PERFORMANCE CHART ST-9

| MODEL ST-9 | KW | HP | Stage | Motor Joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 4 | 6 | 8 | 9 | 10 |
| | | | | | | LPM | 0 | 66.8 | 100.2 | 133.3 | 150 | 167 |
| ST-9/5(P4)50(6X4) | 0.8 | 1.0 | 5.0 | 4X6 | 2" | HEAD (METERS) | 30 | 25 | 23 | **21** | **9** | **16** |
| ST-9/7(P4)50(6X4) | 1.5 | 2.0 | 7.0 | 4X6 | 2" | | 42 | 35 | 32 | **29** | **26** | **22** |
| ST-9/10(P4)50(6X4) | 1.5 | 2.0 | 10.0 | 4X6 | 2" | | 60 | 50 | 46 | **41** | **37** | **32** |
| ST-9/12(P4)50(6X4) | 2.2 | 3.0 | 12.0 | 4X6 | 2" | | 72 | 61 | 57 | **51** | **46** | **39** |
| ST-9/15(P4)50(6X4) | 2.2 | 3.0 | 15.0 | 4X6 | 2" | | 90 | 76 | 70 | **62** | **56** | **47** |
| ST-9/18(P4)50(6X4) | 4.0 | 5.0 | 18.0 | 4X6 | 2" | | 108 | 91 | 84 | **75** | **67** | **57** |
| ST-9/21(P4)50(6X4) | 4.0 | 5.0 | 21.0 | 4X6 | 2" | | 127 | 107 | 99 | **89** | **80** | **68** |
| ST-9/25(P4)50(6X4) | 4.0 | 5.0 | 25.0 | 4X6 | 2" | | 150 | 126 | 116 | **104** | **94** | **79** |
| ST-9/30(P4)50(6X4) | 5.5 | 7.5 | 30.0 | 6X4 | 2" | | 180 | 151 | 138 | **123** | **110** | **92** |
| ST-9/37(P4)50(6X4) | 5.5 | 7.5 | 37.0 | 6X4 | 2" | | 221 | 184 | 168 | **148** | **132** | **110** |
| ST-9/44(P4)50(6X4) | 7.5 | 10.0 | 44.0 | 6X4 | 2" | | 264 | 220 | 202 | **185** | **167** | **141** |
| ST-9/50(P4)50(6X4) | 7.5 | 10.0 | 50.0 | 6X4 | 2" | | 300 | 250 | 230 | **210** | **190** | **160** |
| ST-9/58(P4)50(6X4) | 9.3 | 12.5 | 58.0 | 6X4 | 2" | | 348 | 290 | 266 | **244** | **220** | **186** |
| ST-9/66(P4)50(6X4) | 11.0 | 15.0 | 66.0 | 6X4 | 2" | | 396 | 330 | 303 | **277** | **250** | **211** |
| ST-9/73(P4)50(6X4) | 11.0 | 15.0 | 73.0 | 6X4 | 2" | | 438 | 365 | 335 | **307** | **277** | **234** |
| ST-9/82(P4)50(6X4) | 13.0 | 17.5 | 82.0 | 6X4 | 2" | | 492 | 410 | 376 | **345** | **311** | **263** |
| ST-9/91(P4)50(6X4) | 15.0 | 20.0 | 91.0 | 6X4 | 2" | | 546 | 455 | 418 | **383** | **345** | **292** |
| ST-9/100(P4)50(6X4) | 15.0 | 20.0 | 100.0 | 6X4 | 2" | | 600 | 500 | 459 | **420** | **379** | **320** |
| ST-9/110(P4)50(6X4) | 18.5 | 25.0 | 110.0 | 6X4 | 2" | | 660 | 550 | 505 | **462** | **417** | **352** |



# PERFORMANCE CURVE



Solartive®

## ST-15, ST-17, ST-30, ST-46, ST-60

# 6” *Submersible Pump*

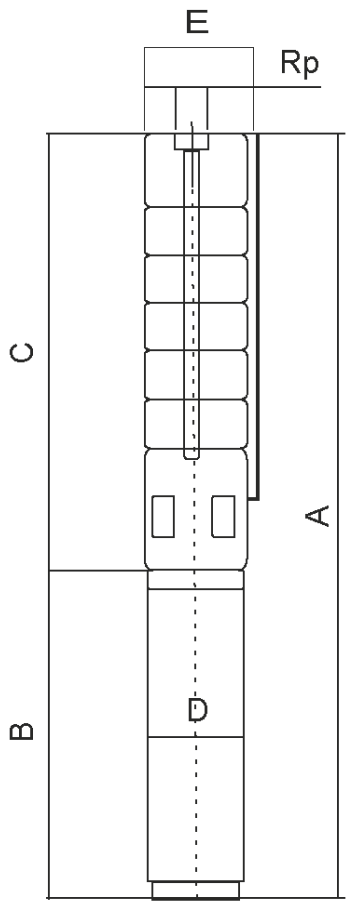
# PERFORMANCE CHART ST-15

| MODEL ST-15 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 6 | 9 | **12** | 15 | 18 |
| | | | | | | (LPM) | 0 | 100 | 150 | **200** | 250 | 300 |
| ST-15/1(P4)50(4x6) | 0.55 | 0.75 | 1 | V-4 | 2" BSP | (HEAD (METERS) | 10.5 | 10 | 9.5 | **8.5** | 7.5 | 5.7 |
| ST-15/2(P4)50(4x6) | 1.1 | 1.5 | 2 | V-4 | 2" BSP | | 21 | 20 | 19 | **17** | 15 | 11 |
| ST-15/3(P4)50(4x6) | 1.5 | 2 | 3 | V-4 | 2" BSP | | 32 | 30 | 29 | **26** | 23 | 17 |
| ST-15/4(P4)50(4X6) | 2.2 | 3 | 4 | V-4 | 2" BSP | | 42 | 40 | 38 | **34** | 30 | 23 |
| ST-15/5(P4)50(4X6) | 3 | 4 | 5 | V-4 | 2" BSP | | 53 | 50 | 48 | **43** | 38 | 29 |
| ST-15/6(P4)50(4X6) | 3 | 4 | 6 | V-4 | 2" BSP | | 63 | 60 | 57 | **51** | 45 | 34 |
| ST-15/7(P4)50(6X6) | 4.0 | 5.5 | 7 | V-6 | 2" BSP | | 74 | 70 | 67 | **60** | 53 | 40 |
| ST-15/8(P4)50(6X6) | 4.0 | 5.5 | 8 | V-6 | 2" BSP | | 84 | 80 | 76 | **68** | 60 | 46 |
| ST-15/9(P4)50(6X6) | 4.0 | 5.5 | 9 | V-6 | 2" BSP | | 95 | 90 | 86 | **77** | 68 | 51 |
| ST-15/10(P4)50(6X6) | 4.0 | 5.5 | 10 | V-6 | 2" BSP | | 105 | 100 | 95 | **85** | 75 | 57 |
| ST-15/11(P4)50(6X6) | 5.5 | 7.5 | 11 | V-6 | 2" BSP | | 116 | 110 | 105 | **94** | 83 | 63 |
| ST-15/12(P4)50(6X6) | 5.5 | 7.5 | 12 | V-6 | 2" BSP | | 126 | 120 | 114 | **102** | 90 | 68 |
| ST-15/13(P4)50(6X6) | 7.5 | 10 | 13 | V-6 | 2" BSP | | 137 | 130 | 124 | **111** | 98 | 74 |
| ST-15/14(P4)50(6X6) | 7.5 | 10 | 14 | V-6 | 2" BSP | | 147 | 140 | 133 | **119** | 105 | 80 |
| ST-15/15(P4)50(6X6) | 7.5 | 10 | 15 | V-6 | 2" BSP | | 158 | 150 | 143 | **128** | 113 | 86 |
| ST-15/16(P4)50(6X6) | 7.5 | 10 | 16 | V-6 | 2" BSP | | 168 | 160 | 152 | **136** | 120 | 91 |
| ST-15/17(P4)50(6X6) | 9.3 | 12.5 | 17 | V-6 | 2" BSP | | 179 | 170 | 162 | **145** | 128 | 97 |
| ST-15/18(P4)50(6X6) | 9.3 | 12.5 | 18 | V-6 | 2" BSP | | 189 | 180 | 171 | **153** | 135 | 103 |
| ST-15/19.(P4)50(6X6) | 9.3 | 12.5 | 19 | V-6 | 2" BSP | | 200 | 190 | 181 | **162** | 143 | 108 |
| ST-15/20(P4)50(6X6) | 9.3 | 12.5 | 20 | V-6 | 2" BSP | | 210 | 200 | 190 | **170** | 150 | 114 |
| ST-15/21(P4)50(6X6) | 11 | 15 | 21 | V-6 | 2" BSP | | 221 | 210 | 200 | **179** | 158 | 120 |
| ST-15/22(P4)50(6X6) | 11 | 15 | 22 | V-6 | 2" BSP | | 231 | 220 | 209 | **187** | 165 | 125 |
| ST-15/23(P4)50(6X6) | 11 | 15 | 23 | V-6 | 2" BSP | | 242 | 230 | 219 | **196** | 173 | 131 |
| ST-15/24(P4)50(6X6) | 11 | 15 | 24 | V-6 | 2" BSP | | 252 | 240 | 228 | **204** | 180 | 137 |
| ST-15/25(P4)50(6X6) | 13 | 17.5 | 25 | V-6 | 2" BSP | | 263 | 250 | 238 | **213** | 188 | 143 |
| ST-15/26(P4)50(6X6) | 13 | 17.5 | 26 | V-6 | 2" BSP | | 273 | 260 | 247 | **221** | 195 | 148 |
| ST-15/27(P4)50(6X6) | 13 | 17.5 | 27 | V-6 | 2" BSP | | 284 | 270 | 257 | **230** | 203 | 154 |
| ST-15/28(P4)50(6X6) | 13 | 17.5 | 28 | V-6 | 2" BSP | | 294 | 280 | 266 | **238** | 210 | 160 |
| ST-15/30(P4)50(6X6) | 11 | 20 | 30 | V-6 | 2" BSP | | 315 | 300 | 285 | **255** | 225 | 171 |
| ST-15/31(P4)50(6X6) | 11 | 20 | 31 | V-6 | 2" BSP | | 326 | 310 | 295 | **264** | 233 | 177 |
| ST-15/32(P4)50(6X6) | 11 | 20 | 32 | V-6 | 2" BSP | | 336 | 320 | 304 | **272** | 240 | 182 |
| ST-15/33(P4)50(6X6) | 11 | 20 | 33 | V-6 | 2" BSP | | 347 | 330 | 314 | **281** | 248 | 188 |
| ST-15/34(P4)50(6X6) | 18.5 | 25 | 34 | V-6 | 2" BSP | | 357 | 340 | 323 | **289** | 255 | 194 |
| ST-15/35(P4)50(6X6) | 18.5 | 25 | 35 | V-6 | 2" BSP | | 368 | 350 | 333 | **298** | 263 | 200 |
| ST-15/36(P4)50(6X6) | 18.5 | 25 | 36 | V-6 | 2" BSP | | 378 | 360 | 342 | **306** | 270 | 205 |
| ST-15/37(P4)50(6X6) | 18.5 | 25 | 37 | V-6 | 2" BSP | | 389 | 370 | 352 | **315** | 278 | 211 |
| ST-15/38(P4)50(6X6) | 18.5 | 25 | 38 | V-6 | 2" BSP | | 399 | 380 | 361 | **323** | 285 | 217 |
| ST-15/39(P4)50(6X6) | 18.5 | 25 | 39 | V-6 | 2" BSP | | 410 | 390 | 371 | **332** | 293 | 222 |
| ST-15/40(P4)50(6X6) | 18.5 | 25 | 40 | V-6 | 2" BSP | | 420 | 400 | 380 | **340** | 300 | 228 |
| ST-15/41(P4)50(6X6) | 22 | 30 | 41 | V-6 | 2" BSP | | 431 | 410 | 390 | **349** | 308 | 234 |
| ST-15/42(P4)50(6X6) | 22 | 30 | 42 | V-6 | 2" BSP | | 441 | 420 | 399 | **357** | 315 | 239 |
| ST-15/43(P4)50(6X6) | 22 | 30 | 43 | V-6 | 2" BSP | | 452 | 430 | 409 | **366** | 323 | 245 |
| ST-15/44(P4)50(6X6) | 22 | 30 | 44 | V-6 | 2" BSP | | 462 | 440 | 418 | **374** | 330 | 251 |

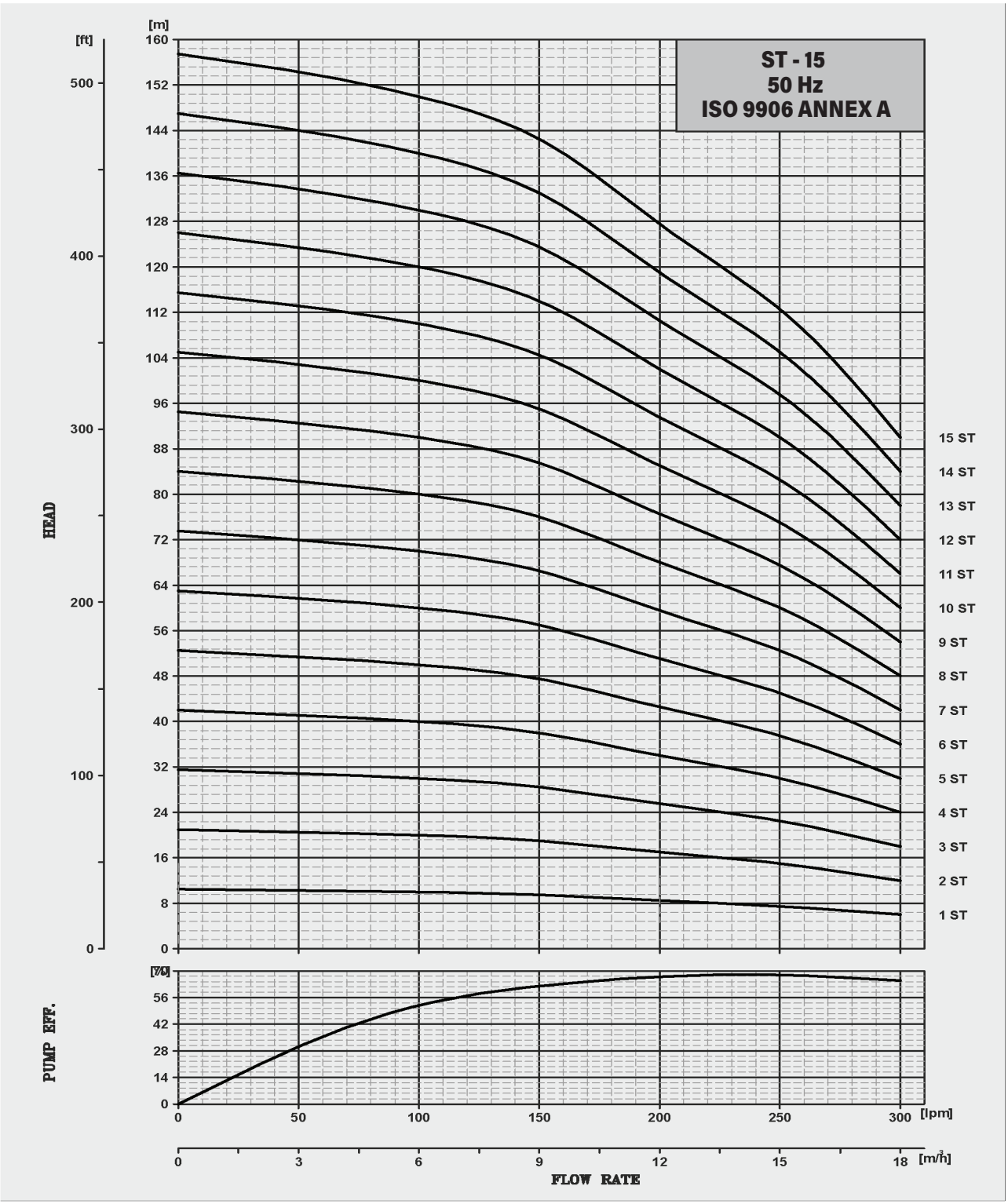
# PERFORMANCE CHART ST-15

| MODEL ST-15 | K.W. | H.P. | **Stage** | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M³/H (LPM) | 0 | 6 | 9 | **12** | 15 | 18 |
| | | | | | | | 0 | 100 | 150 | **200** | 250 | 300 |
| ST-15/45(P4)50(6X6) | 22 | 30 | **45** | V-6 | 2" BSP" | | 473 | 450 | 428 | **383** | 338 | 257 |
| ST-15/72(P4)50(6X6) | 37 | 50 | **72** | V-6 | 2" BSP" | | 756 | 720 | 684 | **612** | 540 | 410 |
| ST-15/80(P4)50(6X6) | 37 | 50 | **80** | V-6 | 2" BSP" | | 840 | 800 | 760 | **680** | 600 | 456 |
| ST-15/85(P4)50(6X6) | 45 | 60 | **85** | V-6 | 2" BSP" | | 893 | 850 | 808 | **723** | 638 | 485 |
| ST-15/90(P4)50(6X6) | 45 | 60 | **90** | V-6 | 2" BSP" | | 945 | 900 | 855 | **765** | 675 | 513 |

FIGURE



# PERFORMANCE CURVE

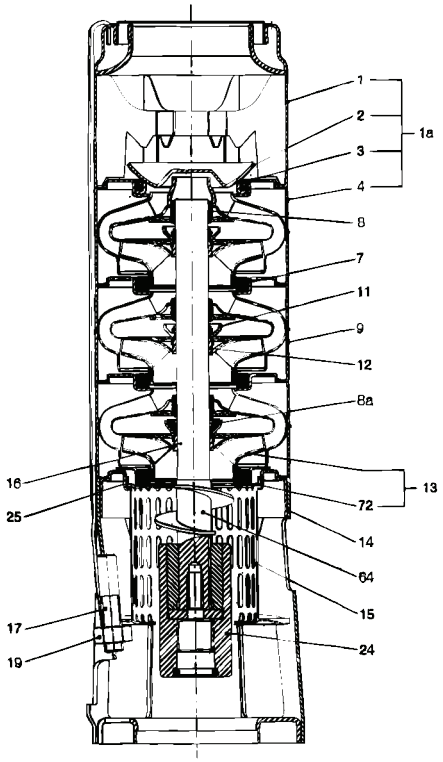


# PERFORMANCE CHART ST-17

| MODEL ST-17 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 6 | 12 | **15** | 18 | 21 |
| | | | | | | (LPM) | 0 | 100 | 200 | **250** | 300 | 350 |
| ST -17/1(P4)50(4X6) | 0.55 | 0.75 | 1 | V-4 | 2½ BSP | (HEAD (METERS) | 11.2 | 11 | 9.8 | **8.8** | 7.4 | 5.7 |
| ST -17/2(P4)50(4X6) | 1.1 | 1.5 | 2 | V-4 | 2½ BSP | | 22 | 22 | 20 | **18** | 15 | 11 |
| ST -17/3(P4)50(4X6) | 2.2 | 3 | 3 | V-4 | 2½ BSP | | 34 | 33 | 29 | **26** | 22 | 17 |
| ST -17/4(P4)50(4X6) | 2.2 | 3 | 4 | V-4 | 2½ BSP | | 45 | 44 | 39 | **35** | 30 | 23 |
| ST -17/5(P4)50(4X6) | 3 | 4 | 5 | V-4 | 2½ BSP | | 56 | 55 | 49 | **44** | 37 | 29 |
| ST -17/6(P4)50(6X6) | 3.7 | 5 | 6 | V-6 | 2½ BSP | | 67 | 66 | 59 | **53** | 44 | 34 |
| ST -17/7(P4)50(6X6) | 4.0 | 5.5 | 7 | V-6 | 2½ BSP | | 78 | 77 | 69 | **62** | 52 | 40 |
| ST -17/8.(P4)50(6X6) | 5.5 | 7.5 | 8 | V-6 | 2½ BSP | | 90 | 88 | 78 | **70** | 59 | 46 |
| ST -17/9(P4)50(6X6) | 5.5 | 7.5 | 9 | V-6 | 2½ BSP | | 101 | 99 | 88 | **79** | 67 | 51 |
| ST -17/10(P4)50(6X6) | 5.5 | 7.5 | 10 | V-6 | 2½ BSP | | 112 | 110 | 98 | **88** | 74 | 57 |
| ST -17/11(P4)50(6X6) | 7.5 | 10 | 11 | V-6 | 2½ BSP | | 123 | 121 | 108 | **97** | 81 | 63 |
| ST -17/12(P4)50(6X6) | 7.5 | 10 | 12 | V-6 | 2½ BSP | | 134 | 132 | 118 | **106** | 89 | 68 |
| ST -17/13(P4)50(6X6) | 7.5 | 10 | 13 | V-6 | 2½ BSP | | 146 | 143 | 127 | **114** | 96 | 74 |
| ST -17/14(P4)50(6X6) | 9.3 | 12.5 | 14 | V-6 | 2½ BSP | | 157 | 154 | 137 | **123** | 104 | 80 |
| ST -17/15(P4)50(6X6) | 9.3 | 12.5 | 15 | V-6 | 2½ BSP | | 168 | 165 | 147 | **132** | 111 | 86 |
| ST -17/16(P4)50(6X6) | 9.3 | 12.5 | 16 | V-6 | 2½ BSP | | 179 | 176 | 157 | **141** | 118 | 91 |
| ST -17/17(P4)50(6X6) | 9.3 | 12.5 | 17 | V-6 | 2½ BSP | | 190 | 187 | 167 | **150** | 126 | 97 |
| ST -17/18(P4)50(6X6) | 11 | 15 | 18 | V-6 | 2½ BSP | | 202 | 198 | 176 | **158** | 133 | 103 |
| ST -17/19(P4)50(6X6) | 11 | 15 | 19 | V-6 | 2½ BSP | | 213 | 209 | 186 | **167** | 141 | 108 |
| ST -17/20(P4)50(6X6) | 11 | 15 | 20 | V-6 | 2½ BSP | | 224 | 220 | 196 | **176** | 148 | 114 |
| ST -17/21(P4)50(6X6) | 13 | 17.5 | 21 | V-6 | 2½ BSP | | 235 | 231 | 206 | **185** | 155 | 120 |
| ST -17/22(P4)50(6X6) | 13 | 17.5 | 22 | V-6 | 2½ BSP | | 246 | 242 | 216 | **194** | 163 | 125 |
| ST -17/23(P4)50(6X6) | 13 | 17.5 | 23 | V-6 | 2½ BSP | | 258 | 253 | 225 | **202** | 170 | 131 |
| ST -17/24(P4)50(6X6) | 13 | 17.5 | 24 | V-6 | 2½ BSP | | 269 | 264 | 235 | **211** | 178 | 137 |
| ST -17/25(P4)50(6X6) | 15 | 20 | 25 | V-6 | 2½ BSP | | 280 | 275 | 245 | **220** | 185 | 143 |
| ST -17/26(P4)50(6X6) | 15 | 20 | 26 | V-6 | 2½ BSP | | 291 | 286 | 255 | **229** | 192 | 148 |
| ST -17/27(P4)50(6X6) | 15 | 20 | 27 | V-6 | 2½ BSP | | 302 | 297 | 265 | **238** | 200 | 154 |
| ST -17/28(P4)50(6X6) | 18.5 | 25 | 28 | V-6 | 2½ BSP | | 314 | 308 | 274 | **246** | 207 | 160 |
| ST -17/29(P4)50(6X6) | 18.5 | 25 | 29 | V-6 | 2½ BSP | | 325 | 319 | 284 | **255** | 215 | 165 |
| ST -17/30(P4)50(6X6) | 18.5 | 25 | 30 | V-6 | 2½ BSP | | 336 | 330 | 294 | **264** | 222 | 171 |
| ST -17/31(P4)50(6X6) | 18.5 | 25 | 31 | V-6 | 2½ BSP | | 347 | 341 | 304 | **273** | 229 | 177 |
| ST -17/32(P4)50(6X6) | 18.5 | 25 | 32 | V-6 | 2½ BSP | | 358 | 352 | 314 | **282** | 237 | 182 |
| ST -17/33(P4)50(6X6) | 18.5 | 25 | 33 | V-6 | 2½ BSP | | 370 | 363 | 323 | **290** | 244 | 188 |
| ST -17/34(P4)50(6X6) | 22 | 30 | 34 | V-6 | 2½ BSP | | 381 | 374 | 333 | **299** | 252 | 194 |
| ST -17/35(P4)50(6X6) | 22 | 30 | 35 | V-6 | 2½ BSP | | 392 | 385 | 343 | **308** | 259 | 200 |
| ST -17/36(P4)50(6X6) | 22 | 30 | 36 | V-6 | 2½ BSP | | 403 | 396 | 353 | **317** | 266 | 205 |
| ST -17/37(P4)50(6X6) | 22 | 30 | 37 | V-6 | 2½ BSP | | 414 | 407 | 363 | **326** | 274 | 211 |
| ST -17/38(P4)50(6X6) | 22 | 30 | 38 | V-6 | 2½ BSP | | 426 | 418 | 372 | **334** | 281 | 217 |
| ST -17/39(P4)50(6X6) | 22 | 30 | 39 | V-6 | 2½ BSP | | 437 | 429 | 382 | **343** | 289 | 222 |
| ST -17/40(P4)50(6X6) | 22 | 30 | 40 | V-6 | 2½ BSP | | 448 | 440 | 392 | **352** | 296 | 228 |
| ST -17/43(P4)50(6X6) | 26 | 35 | 43 | V-6 | 2½ BSP | | 482 | 473 | 421 | **378** | 318 | 245 |
| ST-17/45(P4)50(6X6) | 26 | 35 | 45 | V-6 | 2½ BSP | | 504 | 495 | 441 | **396** | 333 | 257 |
| ST-17/48(P4)50(6X6) | 30 | 40 | 48 | V-6 | 2½ BSP | | 538 | 528 | 470 | **422** | 355 | 274 |
| ST-17/51(P4)50(6X6) | 30 | 40 | 51 | V-6 | 2½ BSP | | 571 | 561 | 500 | **449** | 377 | 291 |
| ST-17/53(P4)50(6X6) | 30 | 40 | 53 | V-6 | 2½ BSP | | 594 | 583 | 519 | **466** | 392 | 302 |
| ST-17/55(P4)50(6X6) | 30 | 40 | 55 | V-6 | 2½ BSP | | 616 | 605 | 539 | **484** | 407 | 314 |
| ST-17/58(P4)50(6X6) | 37 | 50 | 58 | V-6 | 2½ BSP | | 650 | 638 | 568 | **510** | 429 | 331 |
| ST-17/60(P4)50(6X6) | 37 | 50 | 60 | V-6 | 2½ BSP | | 672 | 660 | 588 | **528** | 444 | 342 |

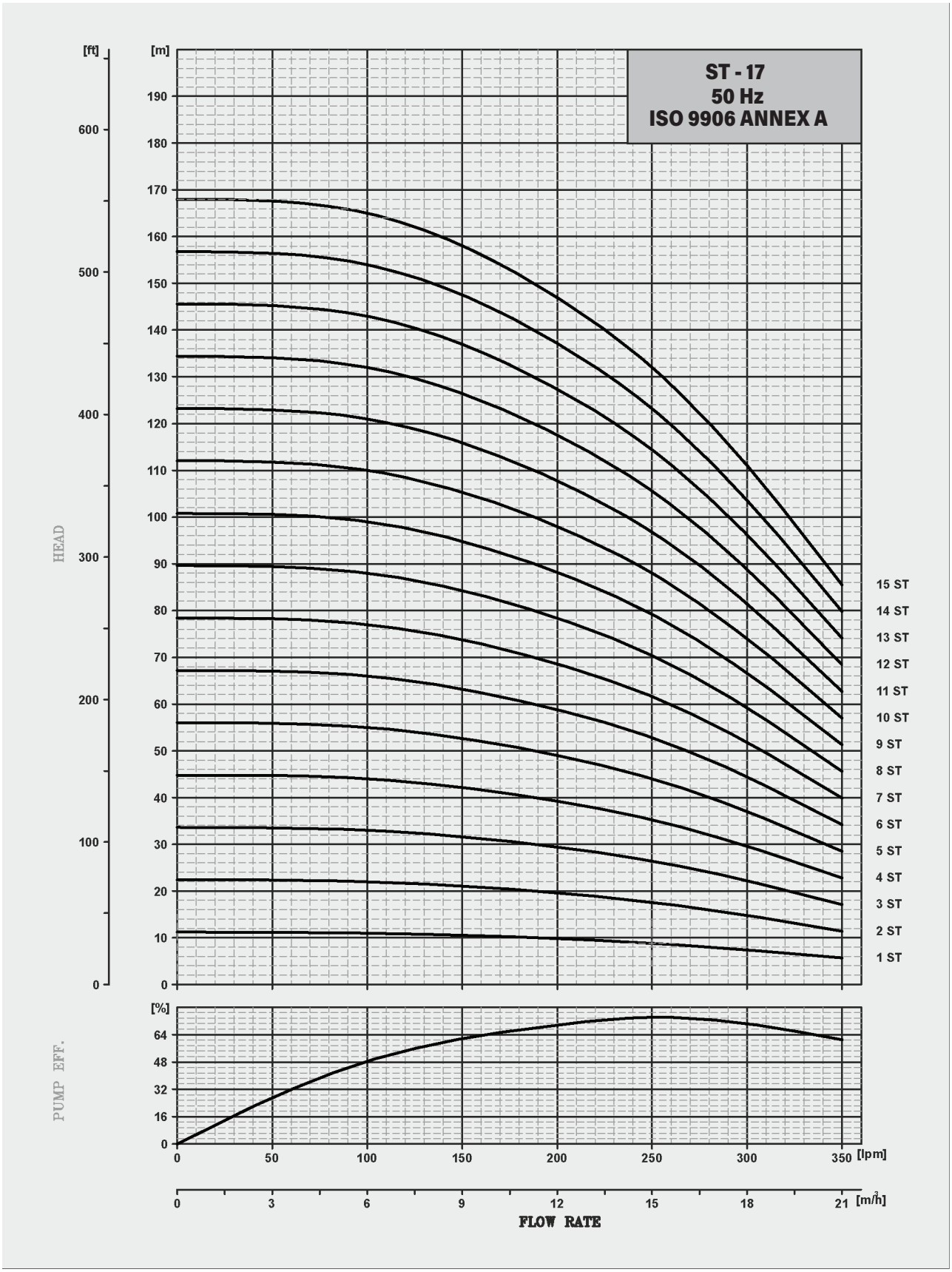
# PERFORMANCE CHART ST-17

| MODEL ST-17 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge Q | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 6 | **9** | 12 | 15 |
| | | | | | | LPM | 0 | 100 | **150** | 200 | 250 |
| ST-17/52(P4)50(6X6) | 22 | 30 | 52 | V-4 | 2"BSP | | 546 | 510 | **458** | 390 | 222 |
| ST-17/60(P4)50(6X6) | 30 | 40 | 60 | V-4 | 2"BSP | | 630 | 588 | **528** | 450 | 372 |
| ST-17/68(P4)50(6X6) | 30 | 40 | 68 | V-4 | 2"BSP | | 714 | 666 | **598** | 510 | 422 |

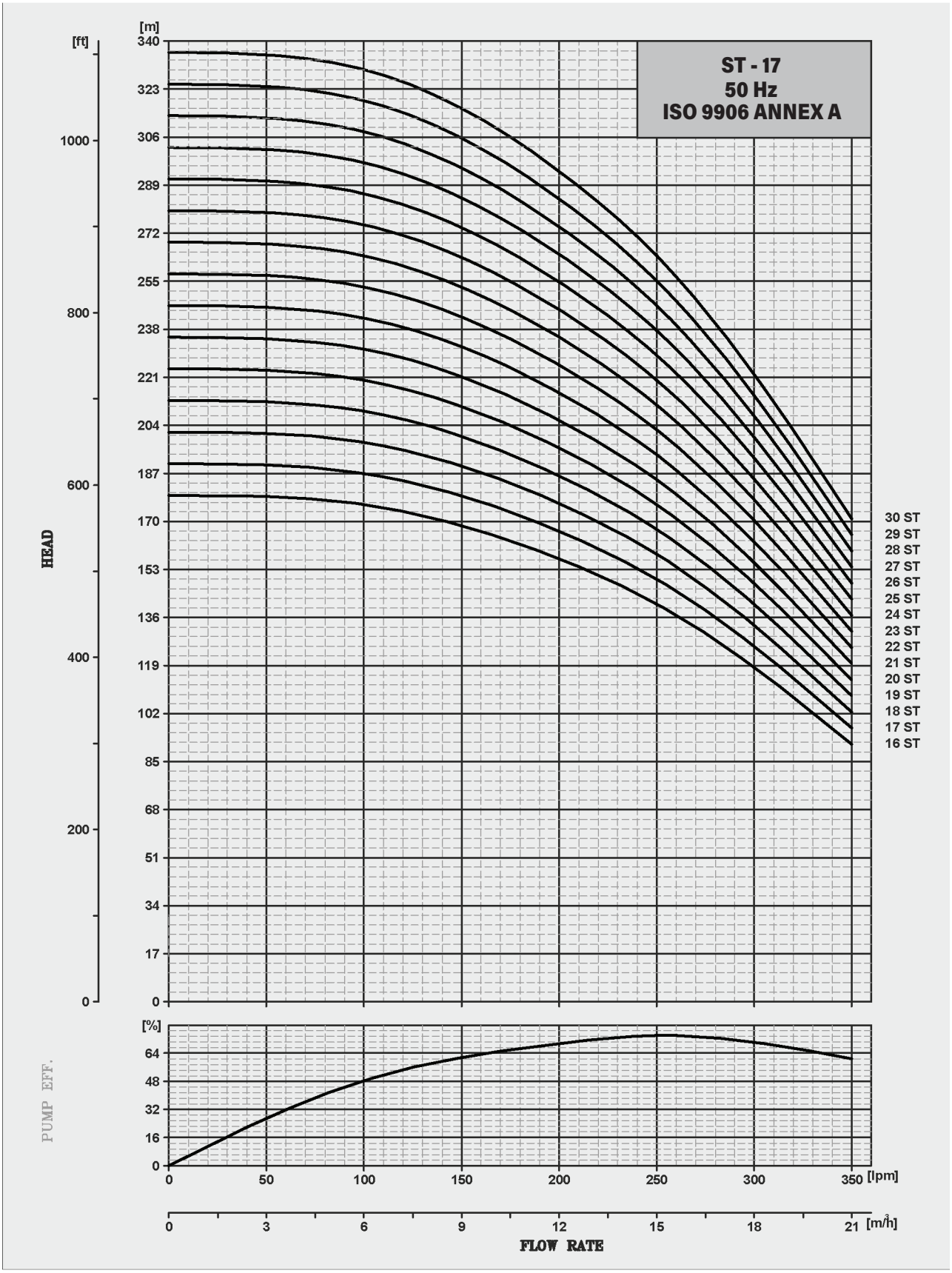



| S.No. | Components | Material | Standard |
|---|---|---|---|
| 1 | Valve casing | Stainless steel | 304 |
| 1a | **Discharge chamber complete** | Stainless steel | 304 |
| 2 | Valve cup | Stainless steel | 304 |
| 3 | Valve seat | Stainless steel | |
| 4 | **Top intermediate chamber** | Stainless steel | 304 |
| 7 | Neck ring | NBR/PPS | |
| 8 | Intermediate bearing | NBR | |
| 9 | Spacing washer | Cabron /graphite Hy 22 in PTFE mass | |
| 8a | Intermediate chamber | Stainless steel | 304 |
| 11 | Split cone nut | Stainless steel | 304 |
| 12 | Split cone | Stainless steel | 304 |
| 13 | Impeller | Stainless steel | 304 |
| 14 | Suction interconnector | Stainless steel | 304 |
| 15 | Strainer | Stainless steel | 304 |
| 16 | Pump shaft | Stainless steel | 431 |
| 17 | Strap | Stainless steel | 304 |
| 18 | Cable guard | Stainless steel | 304 |
| 72 | Wear ring | Stainless steel | 304 |
| 75 | Spacer ring | Stainless steel | 304 |
| 78 | Nameplate | Stainless steel | 304 |

# PERFORMANCE CURVE



# PERFORMANCE CURVE



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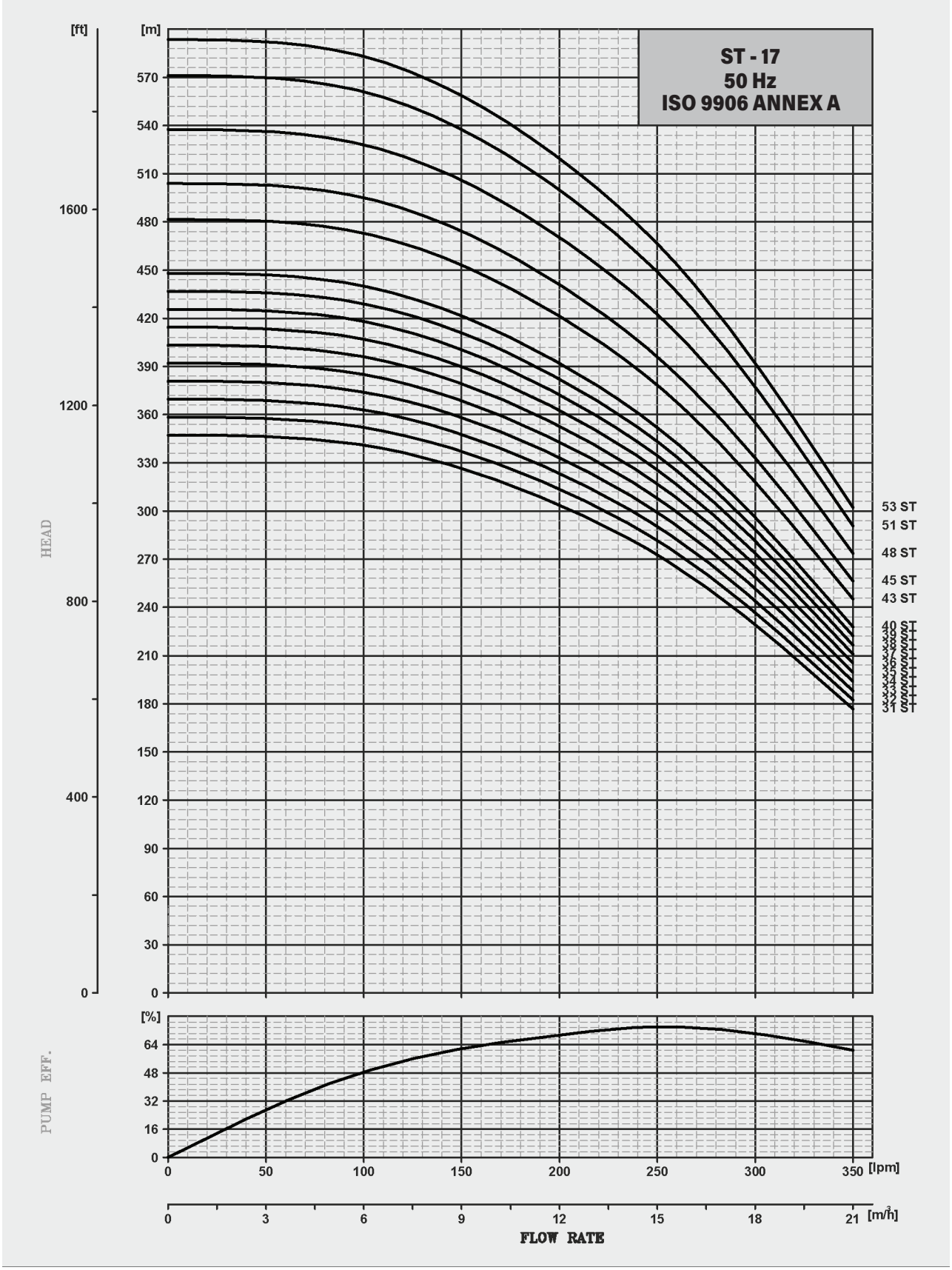
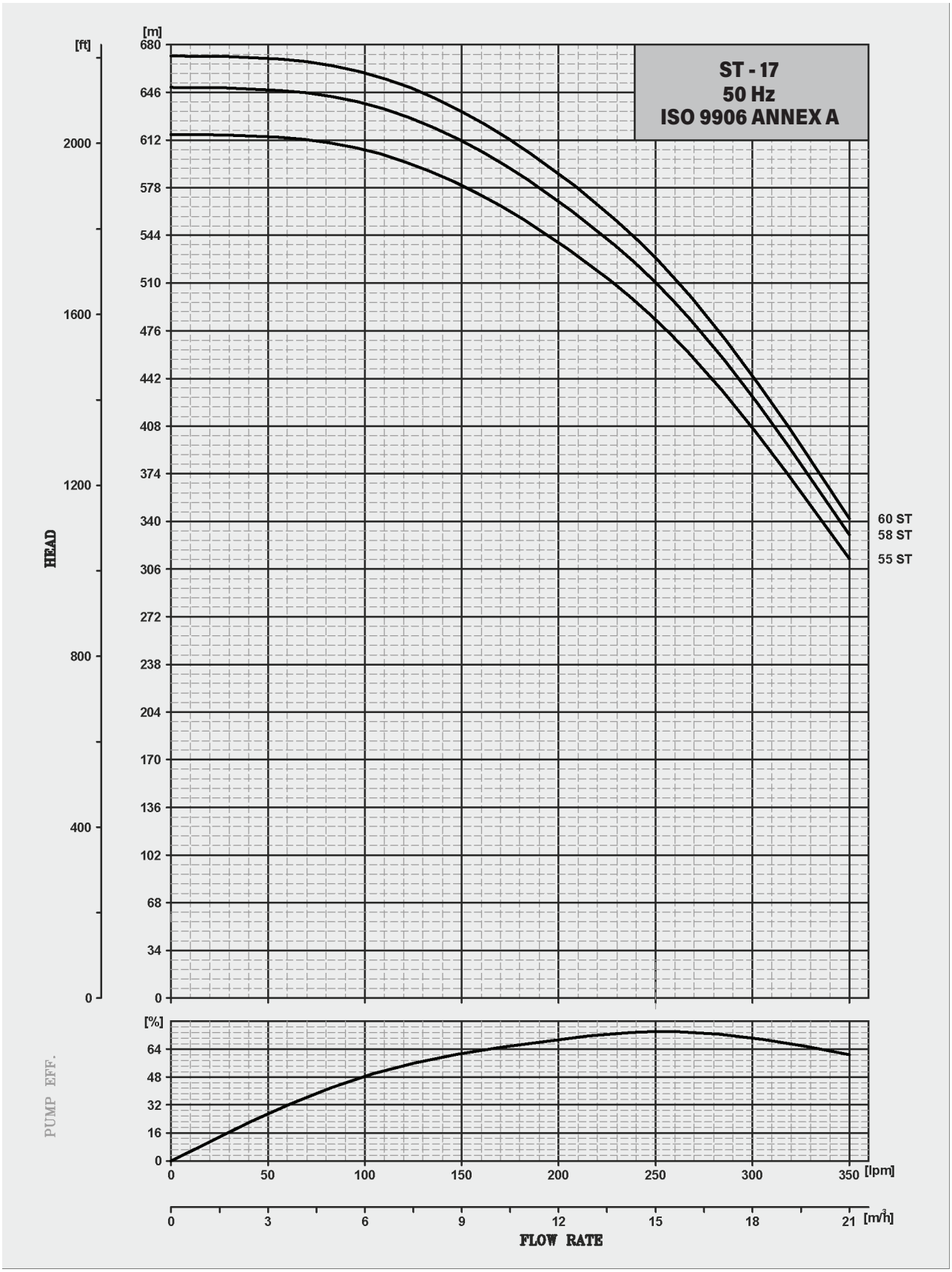


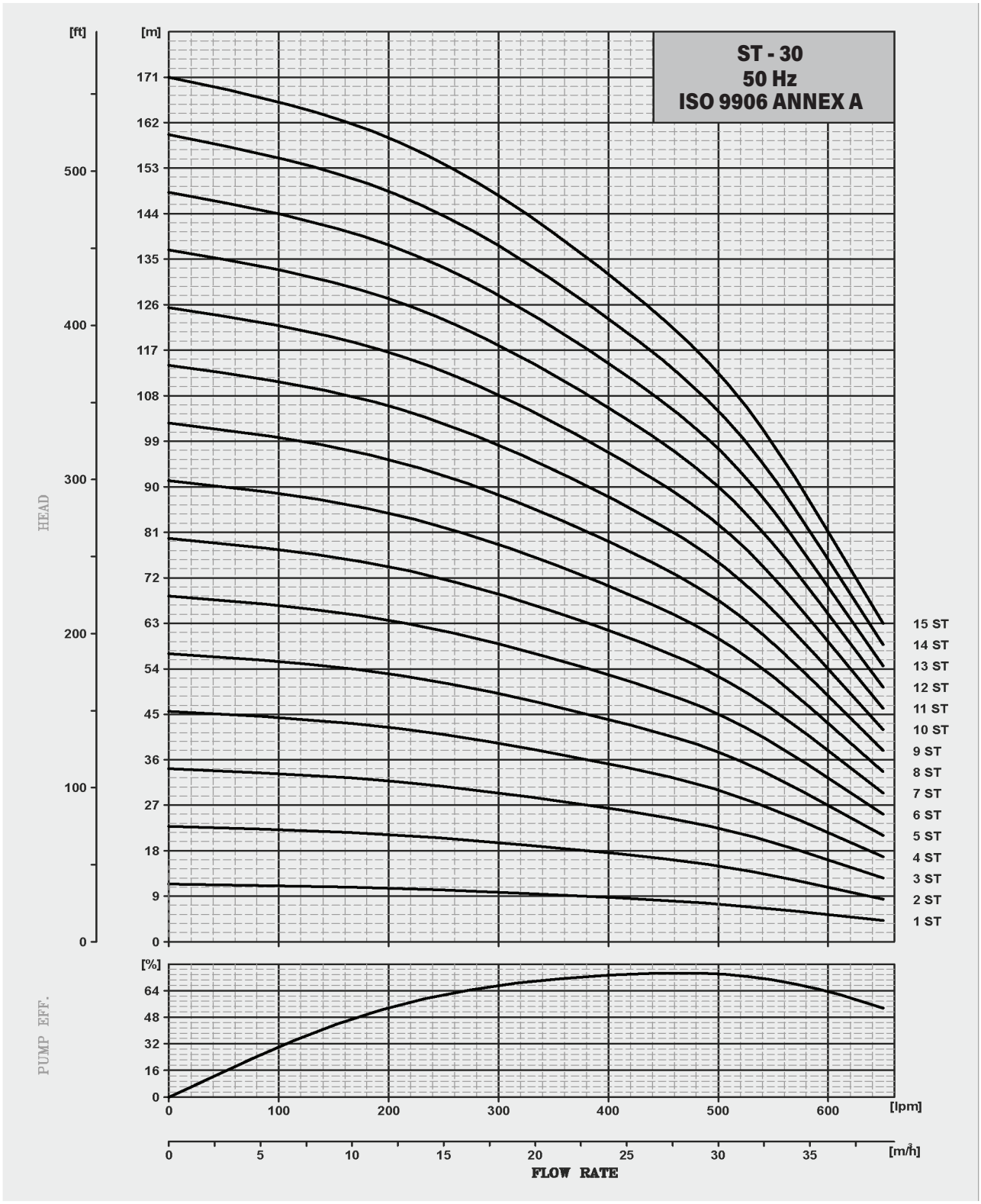
# PERFORMANCE CURVE



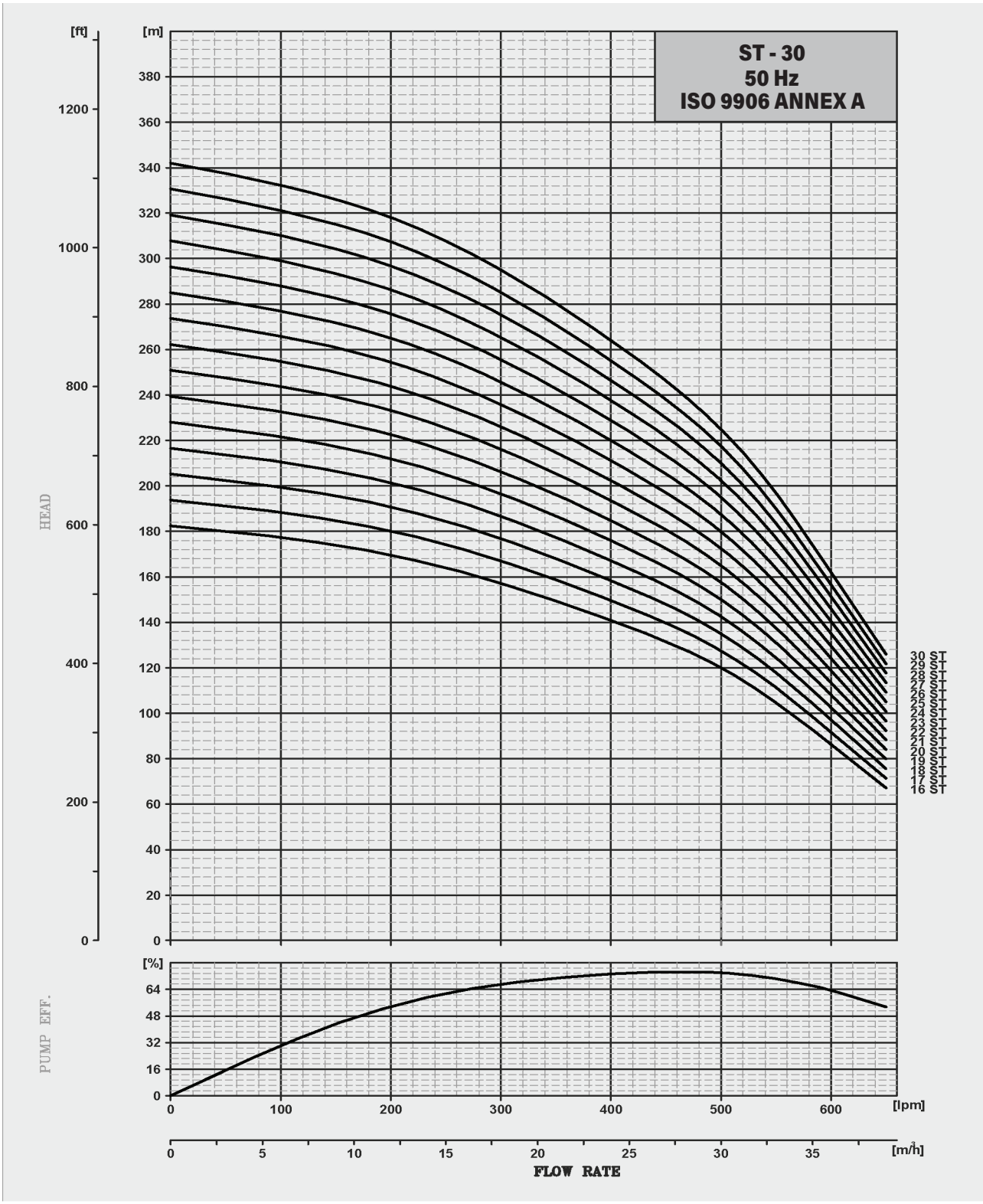
# PERFORMANCE CHART ST-30

| MODEL ST-30 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 12 | 24 | **30** | 36 | 39 |
| | | | | | | (LPM) | 0 | 200 | 400 | **500** | 600 | 650 |
| ST-30/1(P4)50(4X6) | 1.1 | 1.5 | 1 | V-4 | 3"BSP | HEAD IN METERS | 11.4 | 10.6 | 8.8 | **7.5** | 5.4 | 4.2 |
| ST-30/2(P4)50(4X6) | 2.2 | 3 | 2 | V-4 | 3"BSP | | 23 | 21 | 18 | **15** | 11 | 8 |
| ST-30/3(P4)50(4X6) | 3 | 4 | 3 | V-4 | 3"BSP | | 34 | 32 | 26 | **23** | 16 | 13 |
| ST-30/4(P4)50(6X6) | 4.0 | 5.5 | 4 | V-6 | 3"BSP | | 46 | 42 | 35 | **30** | 22 | 17 |
| ST-30/5(P4)50(6X6) | 5.5 | 7.5 | 5 | V-6 | 3"BSP | | 57 | 53 | 44 | **38** | 27 | 21 |
| ST-30/6(P4)50(6X6) | 5.5 | 7.5 | 6 | V-6 | 3"BSP | | 68 | 64 | 53 | **45** | 32 | 25 |
| ST-30/7(P4)50(6X6) | 7.5 | 10 | 7 | V-6 | 3"BSP | | 80 | 74 | 62 | **53** | 38 | 29 |
| ST-30/8(P4)50(6X6) | 7.5 | 10 | 8 | V-6 | 3"BSP | | 91 | 85 | 70 | **60** | 43 | 34 |
| ST-30/9(P4)50(6X6) | 9.3 | 12.5 | 9 | V-6 | 3"BSP | | 103 | 95 | 79 | **68** | 49 | 38 |
| ST-30/10(P4)50(6X6) | 9.3 | 12.5 | 10 | V-6 | 3"BSP | | 114 | 106 | 88 | **75** | 54 | 42 |
| ST-30/11(P4)50(6X6) | 9.3 | 12.5 | 11 | V-6 | 3"BSP | | 125 | 117 | 97 | **83** | 59 | 46 |
| ST-30/12(P4)50(6X6) | 11 | 15 | 12 | V-6 | 3"BSP | | 137 | 127 | 106 | **90** | 65 | 50 |
| ST-30/13(P4)50(6X6) | 11 | 15 | 13 | V-6 | 3"BSP | | 148 | 138 | 114 | **98** | 70 | 55 |
| ST-30/14(P4)50(6X6) | 13 | 17.5 | 14 | V-6 | 3"BSP | | 160 | 148 | 123 | **105** | 76 | 59 |
| ST-30/15(P4)50(6X6) | 13 | 17.5 | 15 | V-6 | 3"BSP | | 171 | 159 | 132 | **113** | 81 | 63 |
| ST-30/16(P4)50(6X6) | 15 | 20 | 16 | V-6 | 3"BSP | | 182 | 170 | 141 | **120** | 86 | 67 |
| ST-30/17(P4)50(6X6) | 15 | 20 | 17 | V-6 | 3"BSP | | 194 | 180 | 150 | **128** | 92 | 71 |
| ST-30/18(P4)50(6X6) | 18.5 | 25 | 18 | V-6 | 3"BSP | | 205 | 191 | 158 | **135** | 97 | 76 |
| ST-30/19(P4)50(6X6) | 18.5 | 25 | 19 | V-6 | 3"BSP | | 217 | 201 | 167 | **143** | 103 | 80 |
| ST-30/20(P4)50(6X6) | 18.5 | 25 | 20 | V-6 | 3"BSP | | 228 | 212 | 176 | **150** | 108 | 84 |
| ST-30/21(P4)50(6X6) | 18.5 | 25 | 21 | V-6 | 3"BSP | | 239 | 223 | 185 | **158** | 113 | 88 |
| ST-30/22(P4)50(6X6) | 22 | 30 | 22 | V-6 | 3"BSP | | 251 | 233 | 194 | **165** | 119 | 92 |
| ST-30/23(P4)50(6X6) | 22 | 30 | 23 | V-6 | 3"BSP | | 262 | 244 | 202 | **173** | 124 | 97 |
| ST-30/24(P4)50(6X6) | 22 | 30 | 24 | V-6 | 3"BSP | | 274 | 254 | 211 | **180** | 130 | 101 |
| ST-30/25(P4)50(6X6) | 22 | 30 | 25 | V-6 | 3"BSP | | 285 | 265 | 220 | **188** | 135 | 105 |
| ST-30/26(P4)50(6X6) | 22 | 30 | 26 | V-6 | 3"BSP | | 296 | 276 | 229 | **195** | 140 | 109 |
| ST-30/27(P4)50(6X6) | 26 | 35 | 27 | V-6 | 3"BSP | | 308 | 286 | 238 | **203** | 146 | 113 |
| ST-30/28(P4)50(6X6) | 26 | 35 | 28 | V-6 | 3"BSP | | 319 | 297 | 246 | **210** | 151 | 118 |
| ST-30/29(P4)50(6X6) | 26 | 35 | 29 | V-6 | 3"BSP | | 331 | 307 | 255 | **218** | 157 | 122 |
| ST-30/30(P4)50(6X6) | 26 | 35 | 30 | V-6 | 3"BSP | | 342 | 318 | 264 | **225** | 162 | 126 |
| ST-30/31(P4)50(6X6) | 30 | 40 | 31 | V-6 | 3"BSP | | 353 | 329 | 273 | **233** | 167 | 130 |
| ST-30/32(P4)50(6X6) | 30 | 40 | 32 | V-6 | 3"BSP | | 365 | 339 | 282 | **240** | 173 | 134 |
| ST-30/33(P4)50(6X6) | 30 | 40 | 33 | V-6 | 3"BSP | | 376 | 350 | 290 | **248** | 178 | 139 |
| ST-30/34(P4)50(6X6) | 30 | 40 | 34 | V-6 | 3"BSP | | 388 | 360 | 299 | **255** | 184 | 143 |
| ST-30/35(P4)50(6X6) | 30 | 40 | 35 | V-6 | 3"BSP | | 399 | 371 | 308 | **263** | 189 | 147 |
| ST-30/39(P4)50(6X6) | 37 | 50 | 39 | V-6 | 3"BSP | | 445 | 413 | 343 | **293** | 211 | 164 |
| ST-30/43(P4)50(6X6) | 37 | 50 | 43 | V-6 | 3"BSP | | 490 | 456 | 378 | **323** | 232 | 181 |
| ST-30/46(P4)50(6X6) | 45 | 60 | 46 | V-6 | 3"BSP | | 524 | 488 | 405 | **345** | 248 | 193 |
| ST-30/49(P4)50(6X6) | 45 | 60 | 49 | V-6 | 3"BSP | | 559 | 519 | 431 | **368** | 265 | 206 |
| ST-30/52(P4)50(8X6) | 55 | 75 | 52 | V-8 | 3"BSP | | 593 | 551 | 458 | **390** | 281 | 218 |
| ST-30/54(P4)50(8X6) | 55 | 75 | 54 | V-8 | 3"BSP | | 616 | 572 | 475 | **405** | 292 | 227 |

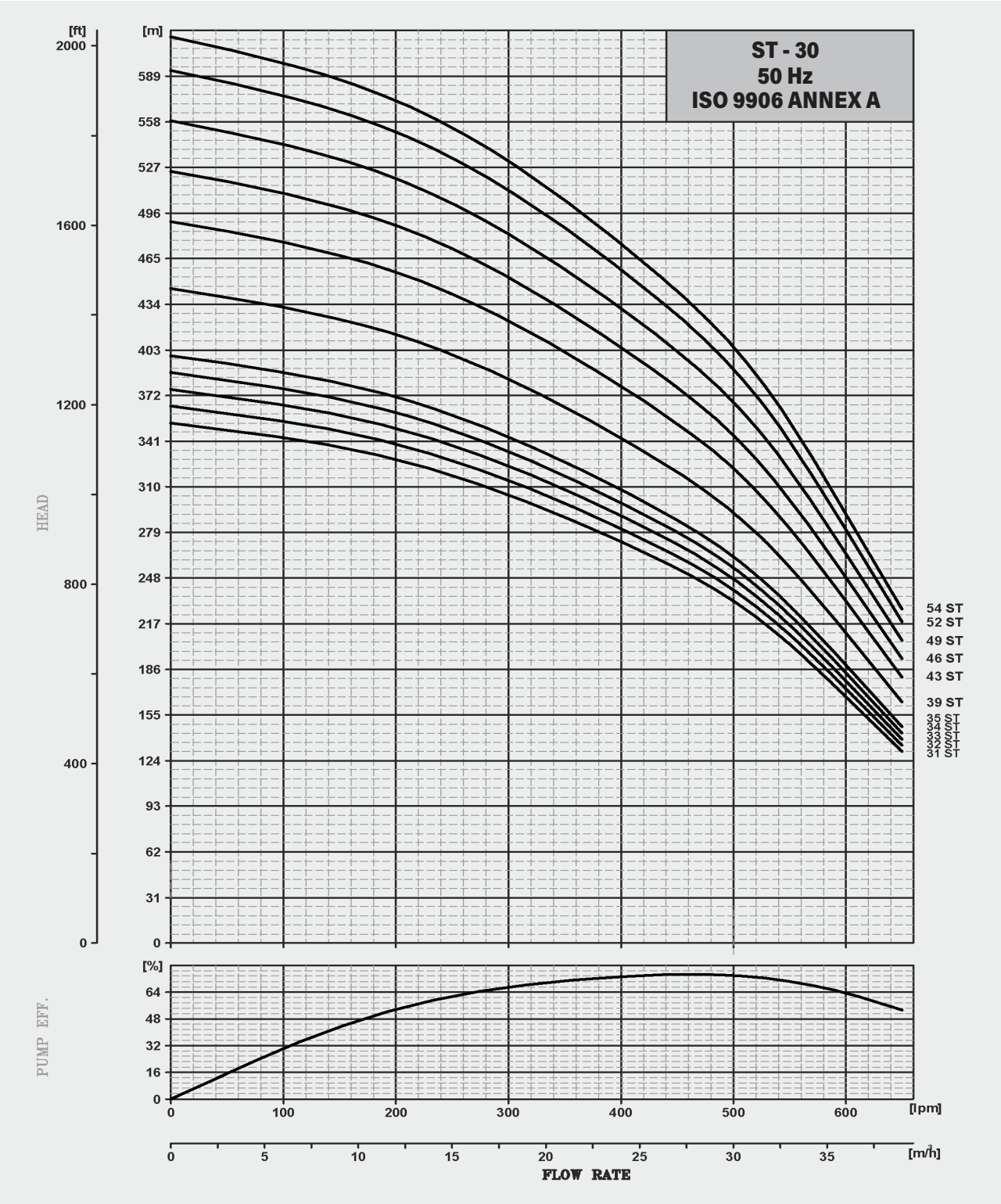
# PERFORMANCE CURVE



# PERFORMANCE CURVE



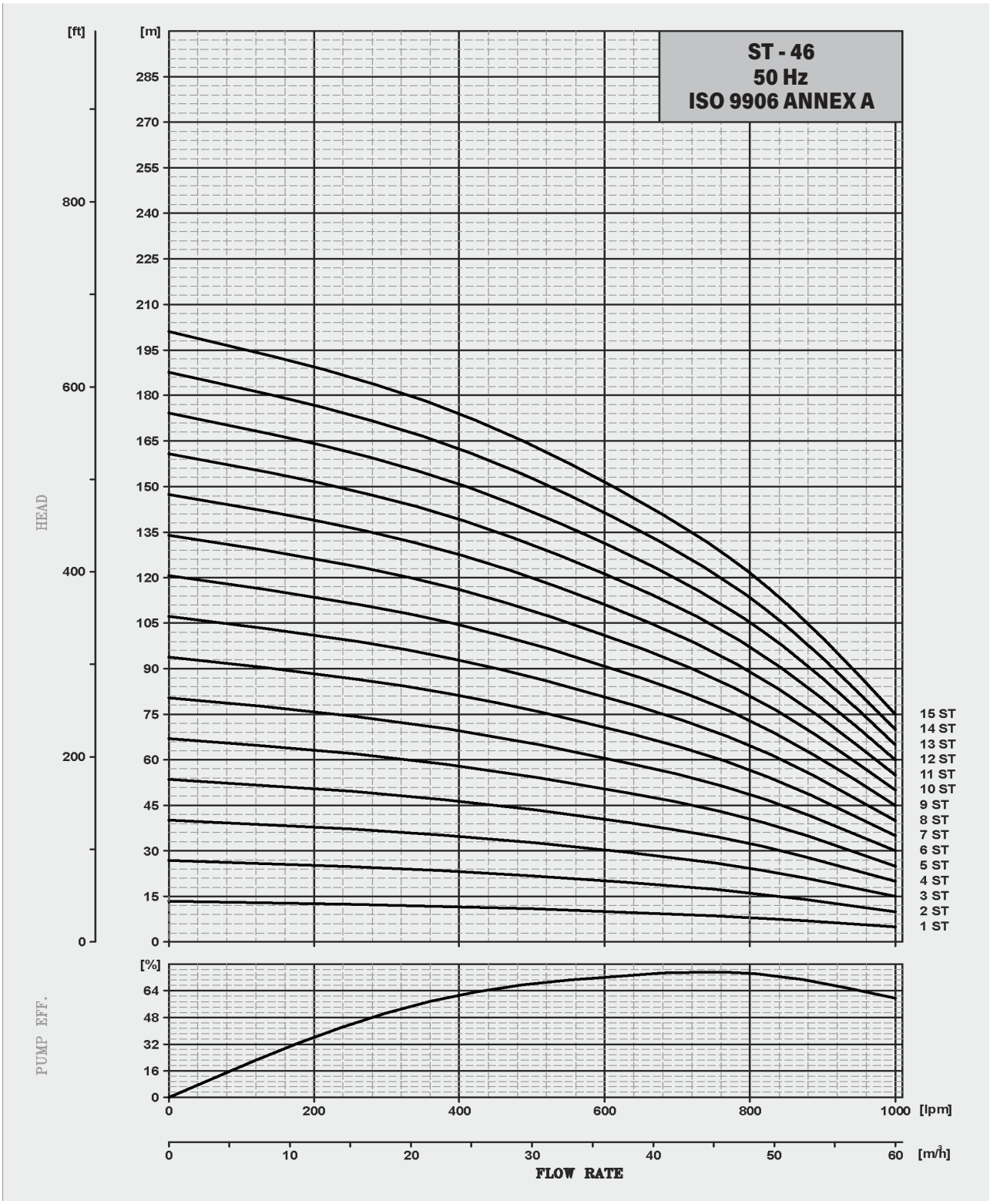
# PERFORMANCE CURVE



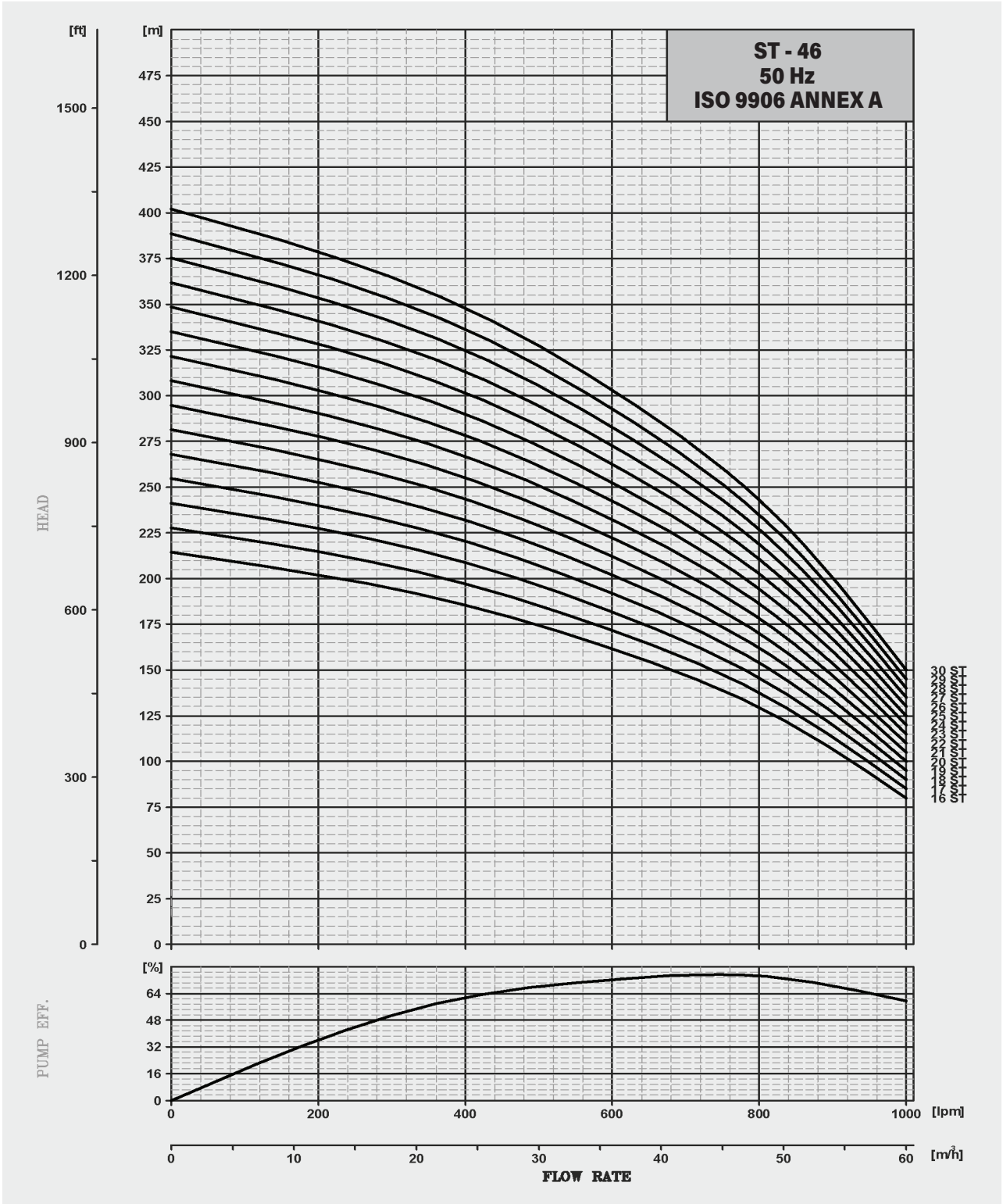
# PERFORMANCE CHART ST-46

| MODEL ST-46 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 24 | 36 | 48 | 60 |
| | | | | | | (LPM) | 0 | 400 | 600 | 800 | 1000 |
| ST-46/1-B(P4)50(4X6) | 1.1 | 1.5 | 1-B | V-4 | 4"BSP | HEAD IN METERS | 9.5 | 8 | 7 | 4 | 0.5 |
| ST-46/1(P4)50(4X6) | 2.2 | 3 | 1 | V-6 | 4"BSP | | 13.4 | 11.6 | 10 | 8.1 | 5 |
| ST-46/2-BB(P4)50(4X6) | 2.2 | 3 | 2-BB | V-4 | 4"BSP | | 19 | 16 | 14 | 9 | 1 |
| ST-46/2(P4)50(4X6) | 3 | 4 | 2 | V-4 | 4"BSP | | 27 | 23 | 20 | 16 | 10 |
| ST-46/3-C(P4)50(6X6) | 5.5 | 5.5 | 3-C | V-6 | 4"BSP | | 36 | 30 | 26 | 19 | 10 |
| ST-46/3(P4)50(6X6) | 5.5 | 7.5 | 3 | V-6 | 4"BSP | | 40 | 35 | 30 | 24 | 15 |
| ST-46/4-C(P4)50(6X6) | 5.5 | 7.5 | 4-C | V-6 | 4"BSP | | 49 | 42 | 36 | 27 | 15 |
| ST-46/4(P4)50(6X6) | 7.5 | 10 | 4 | V-6 | 4"BSP | | 54 | 46 | 40 | 32 | 20 |
| ST-46/5(P4)50(6X6) | 7.5 | 10 | 5 | V-6 | 4"BSP | | 67 | 58 | 50 | 41 | 25 |
| ST-46/6(P4)50(6X6) | 9.3 | 12.5 | 6 | V-6 | 4"BSP | | 80 | 70 | 60 | 49 | 30 |
| ST-46/7(P4)50(6X6) | 11 | 15 | 7 | V-6 | 4"BSP | | 94 | 81 | 70 | 57 | 35 |
| ST-46/8-C(P4)50(6X6) | 11 | 15 | 8-C | V-6 | 4"BSP | | 103 | 88 | 76 | 60 | 35 |
| ST-46/8(P4)50(6X6) | 13 | 17.5 | 8 | V-6 | 4"BSP | | 107 | 93 | 80 | 65 | 0 |
| ST-46/9-C(P4)50(6X6) | 13 | 17.5 | 9-C | V-6 | 4"BSP | | 116 | 100 | 86 | 68 | 40 |
| ST-46/9(P4)50(6X6) | 15 | 20 | 9 | V-6 | 4"BSP | | 121 | 104 | 90 | 73 | 45 |
| ST-46/10(P4)50(6X6) | 15 | 20 | 10 | V-6 | 4"BSP | | 134 | 116 | 100 | 81 | 50 |
| ST-46/11(P4)50(6X6) | 18.5 | 25 | 11 | V-6 | 4"BSP | | 147 | 128 | 110 | 89 | 55 |
| ST-46/12(P4)50(6X6) | 18.5 | 25 | 12 | V-6 | 4"BSP | | 161 | 139 | 120 | 97 | 60 |
| ST-46/13(P4)50(6X6) | 22 | 30 | 13 | V-6 | 4"BSP | | 174 | 151 | 130 | 105 | 65 |
| ST-46/14(P4)50(6X6) | 22 | 30 | 14 | V-6 | 4"BSP | | 188 | 162 | 140 | 113 | 70 |
| ST-46/15(P4)50(6X6) | 22 | 30 | 15 | V-6 | 4"BSP | | 201 | 174 | 150 | 122 | 75 |
| ST-46/16(P4)50(6X6) | 26 | 35 | 16 | V-6 | 4"BSP | | 214 | 186 | 160 | 130 | 80 |
| ST-46/17(P4)50(6X6) | 26 | 35 | 17 | V-6 | 4"BSP | | 228 | 197 | 170 | 138 | 85 |
| ST-46/18(P4)50(6X6) | 30 | 40 | 18 | V-6 | 4"BSP | | 241 | 209 | 180 | 146 | 90 |
| ST-46/19(P4)50(6X6) | 30 | 40 | 19 | V-6 | 4"BSP | | 255 | 220 | 190 | 154 | 95 |
| ST-46/20(P4)50(6X6) | 30 | 40 | 20 | V-6 | 4"BSP | | 268 | 232 | 200 | 162 | 100 |
| ST-46/21(P4)50(6X6) | 37 | 50 | 21 | V-6 | 4"BSP | | 281 | 244 | 210 | 170 | 105 |
| ST-46/22(P4)50(6X6) | 37 | 50 | 22 | V-6 | 4"BSP | | 295 | 255 | 220 | 178 | 110 |
| ST-46/23(P4)50(6X6) | 37 | 50 | 23 | V-6 | 4"BSP | | 308 | 267 | 230 | 186 | 115 |
| ST-46/24(P4)50(6X6) | 37 | 50 | 24 | V-6 | 4"BSP | | 322 | 278 | 240 | 194 | 120 |
| ST-46/26(P4)50(6X6) | 45 | 60 | 26 | V-6 | 4"BSP | | 348 | 302 | 260 | 211 | 130 |
| ST-46/28(P4)50(6X6) | 45 | 60 | 28 | V-6 | 4"BSP | | 375 | 325 | 280 | 227 | 140 |
| ST-46/30(P4)50(6X6) | 45 | 60 | 30 | V-6 | 4"BSP | | 402 | 348 | 300 | 243 | 150 |
| ST-46/33(P4)50(8X6) | 55 | 75 | 33 | V-8 | 4"BSP | | 442 | 383 | 330 | 267 | 165 |
| ST-46/35(P4)50( 8x6 ) | 55 | 75 | 35 | V-8 | 4"BSP | | 469 | 406 | 350 | 284 | 175 |
| ST-46/37(P4)50( 8x6 ) | 55 | 75 | 37 | V-8 | 4"BSP | | 496 | 429 | 370 | 300 | 185 |

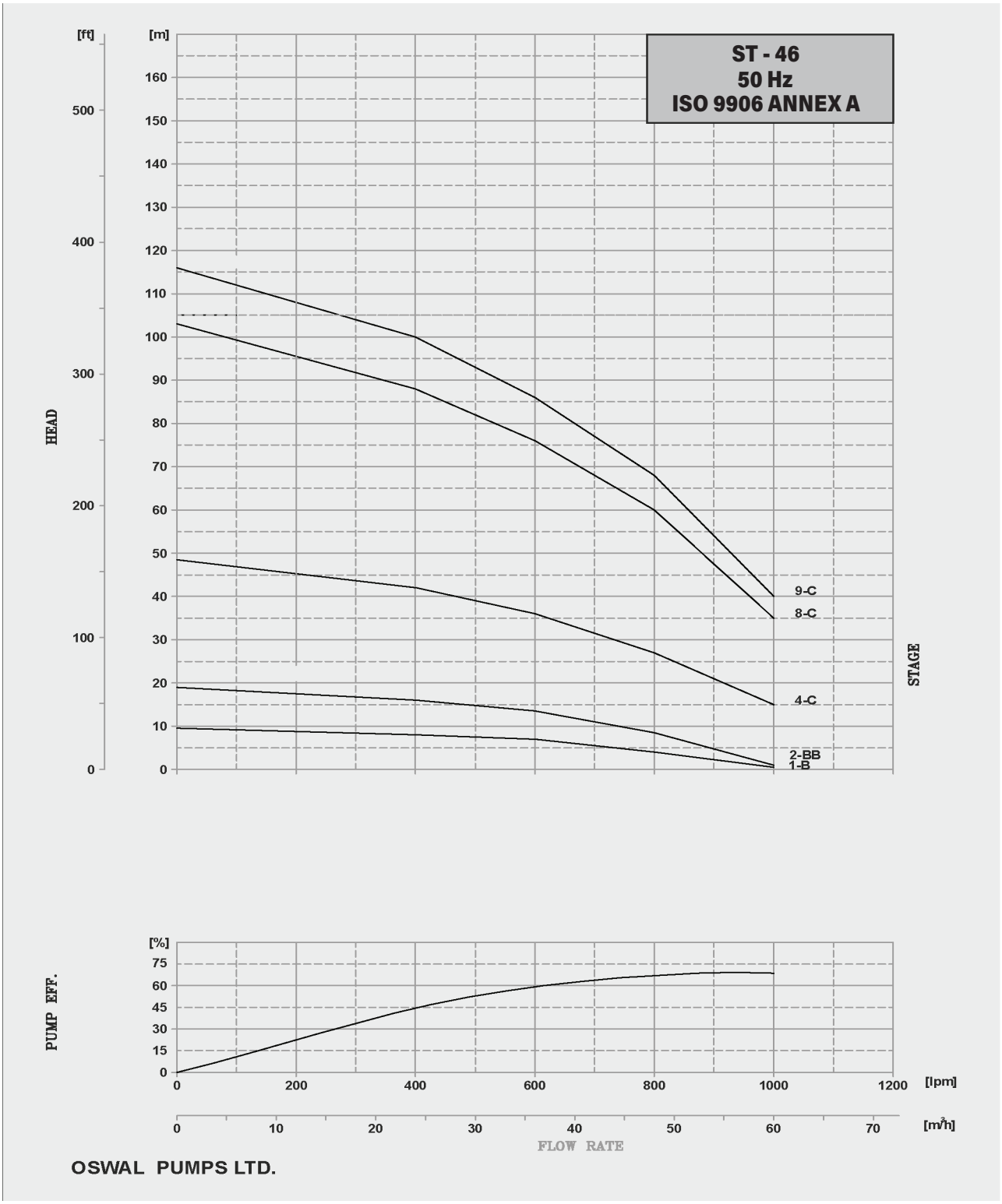
# PERFORMANCE CURVE



# PERFORMANCE CURVE



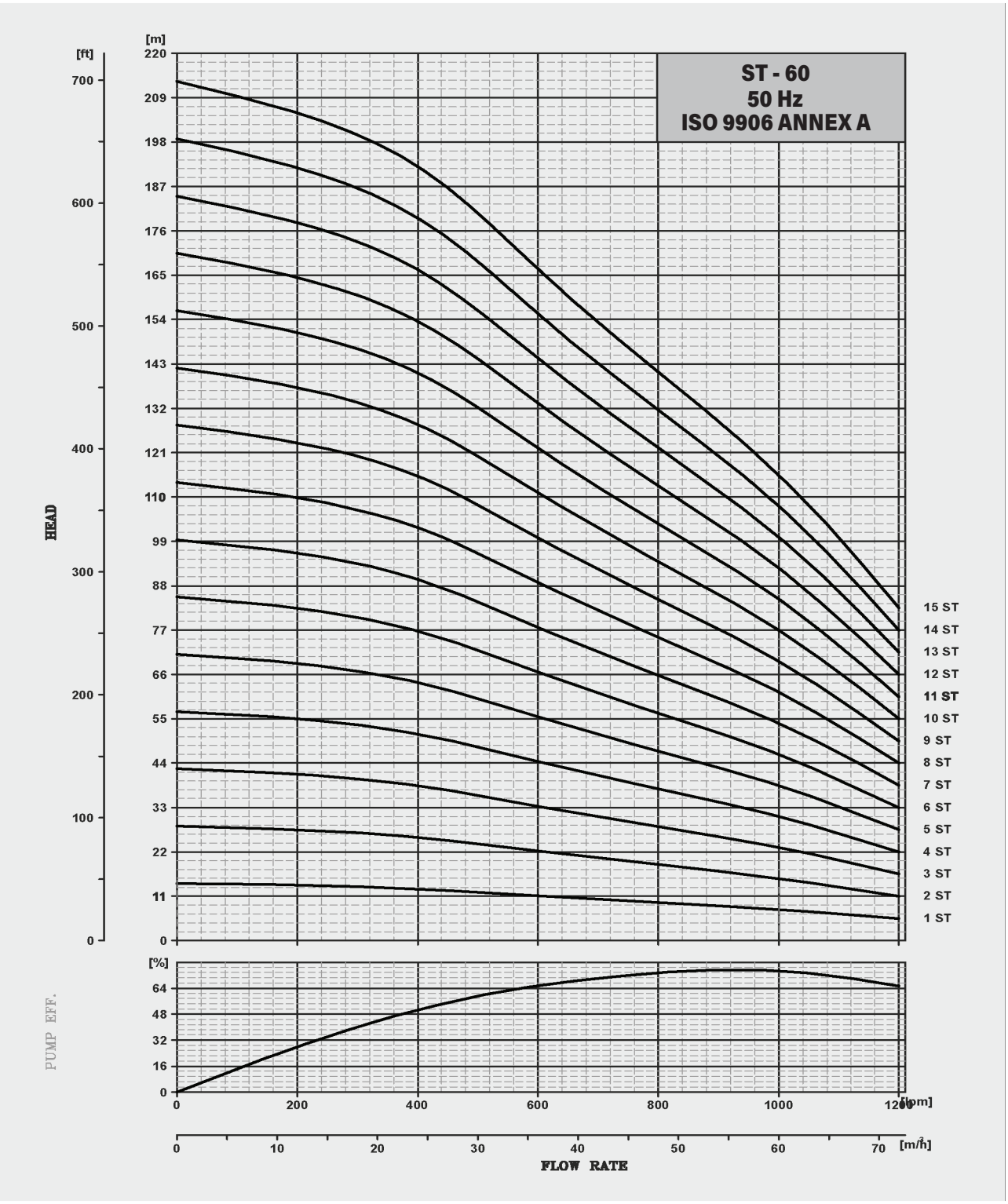
# PERFORMANCE CURVE



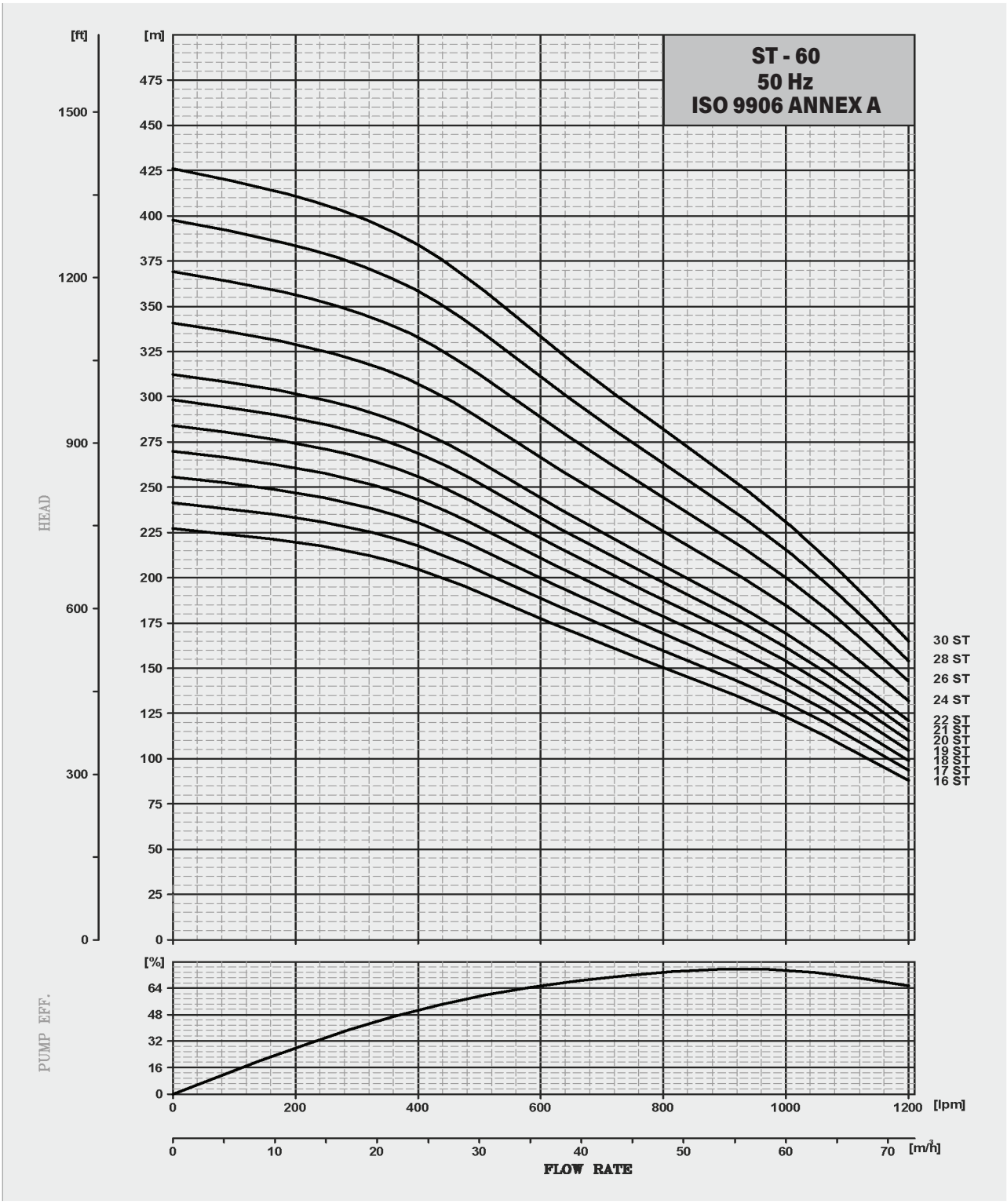
# PERFORMANCE CHART ST-60

| MODEL ST-60 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 24 | 36 | 48 | **60** | 72 |
| | | | | | | (LPM) | 0 | 400 | 600 | 800 | **1000** | 1200 |
| ST-60/1-A (P4)50(4x6) | 1.5 | 2 | 1-A | V-4 | 4"BSP | HEAD IN METERS | 11 | 9 | 7 | 6 | **4** | 0 |
| ST-60/1(P4)50(4x6) | 2.2 | 3 | 1 | V-4 | 4"BSP | | 14.2 | 12.8 | 11.0 | 9.4 | **7.7** | 5.5 |
| ST-60/2-B(P4)50(4x6) | 3 | 4 | 2-B | V-4 | 4"BSP | | 21 | 20 | 16 | 14 | **10** | 6 |
| ST-60/2(P4)50(6X6) | 4.0 | 5.5 | 2 | V-6 | 4"BSP | | 28 | 26 | 22 | 19 | **15** | 11 |
| ST-60/3(P4)50(6X6) | 5.5 | 7.5 | 3 | V-6 | 4"BSP | | 43 | 38 | 33 | 28 | **23** | 17 |
| ST-60/4(P4)50(6X6) | 7.5 | 10 | 4 | V-6 | 4"BSP | | 57 | 51 | 44 | 38 | **31** | 22 |
| ST-60/5(P4)50(6X6) | 9.3 | 12.5 | 5 | V-6 | 4"BSP | | 71 | 64 | 55 | 47 | **39** | 28 |
| ST-60/6(P4)50(6X6) | 11 | 15 | 6 | V-6 | 4"BSP | | 85 | 77 | 66 | 56 | **46** | 33 |
| ST-60/7(P4)50(6X6) | 13 | 17.5 | 7 | V-6 | 4"BSP | | 99 | 90 | 77 | 66 | **54** | 39 |
| ST-60/8-B(P4)50(6X6) | 13 | 17.5 | 8-B | V-6 | 4"BSP | | 106 | 97 | 82 | 70 | **56** | 39 |
| ST-60/8(P4)50(6X6) | 15 | 20 | 8 | V-6 | 4"BSP | | 114 | 102 | 88 | 75 | **62** | 44 |
| ST-60/9-B(P4)50(6X6) | 15 | 20 | 9-B | V-6 | 4"BSP | | 121 | 109 | 93 | 79 | **64** | 44 |
| ST-60/9(P4)50(6X6) | 18.5 | 25 | 9 | V-6 | 4"BSP | | 128 | 115 | 99 | 85 | **69** | 50 |
| ST-60/10(P4)50(6X6) | 18.5 | 25 | 10 | V-6 | 4"BSP | | 142 | 128 | 110 | 94 | **77** | 55 |
| ST-60/11(P4)50(6X6) | 22 | 30 | 11 | V-6 | 4"BSP | | 156 | 141 | 121 | 103 | **85** | 61 |
| ST-60/12(P4)50(6X6) | 22 | 30 | 12 | V-6 | 4"BSP | | 170 | 154 | 132 | 113 | **92** | 66 |
| ST-60/13(P4)50(6X6) | 26 | 35 | 13 | V-6 | 4"BSP | | 185 | 166 | 143 | 122 | **100** | 72 |
| ST-60/14(P4)50(6X6) | 26 | 35 | 14 | V-6 | 4"BSP | | 199 | 179 | 154 | 132 | **108** | 77 |
| ST-60/15(P4)50(6X6) | 26 | 35 | 15 | V-6 | 4"BSP | | 213 | 192 | 165 | 141 | **116** | 83 |
| ST-60/16(P4)50(6X6) | 30 | 40 | 16 | V-4 | 4"BSP | | 227 | 205 | 176 | 150 | **123** | 88 |
| ST-60/17(P4)50(6X6) | 30 | 40 | 17 | V-6 | 4"BSP | | 241 | 218 | 187 | 160 | **131** | 94 |
| ST-60/18(P4)50(6X6) | 37 | 50 | 18 | V-6 | 4"BSP | | 256 | 230 | 198 | 169 | **139** | 99 |
| ST-60/19(P4)50(6X6) | 37 | 50 | 19 | V-6 | 4"BSP | | 270 | 243 | 209 | 179 | **146** | 105 |
| ST-60/20(P4)50(6X6) | 37 | 50 | 20 | V-6 | 4"BSP | | 284 | 256 | 220 | 188 | **154** | 110 |
| ST-60/21(P4)50(6X6) | 37 | 50 | 21 | V-6 | 4"BSP | | 298 | 269 | 231 | 197 | **162** | 116 |
| ST-60/22(P4)50(6X6) | 45 | 60 | 22 | V-6 | 4"BSP | | 312 | 282 | 242 | 207 | **169** | 121 |
| ST-60/24(P4)50(6X6) | 45 | 60 | 24 | V-6 | 4"BSP | | 341 | 307 | 264 | 226 | **185** | 132 |
| ST-60/26(P4)50(8X6) | 55 | 75 | 26 | V-8 | 4"BSP | | 369 | 333 | 286 | 244 | **200** | 143 |
| ST-60/28(P4)50(8X6) | 55 | 75 | 28 | V-8 | 4"BSP | | 398 | 358 | 308 | 263 | **216** | 154 |
| ST-60/30(P4)50(8X6) | 55 | 75 | 30 | V-8 | 4"BSP | | 426 | 384 | 330 | 282 | **231** | 165 |

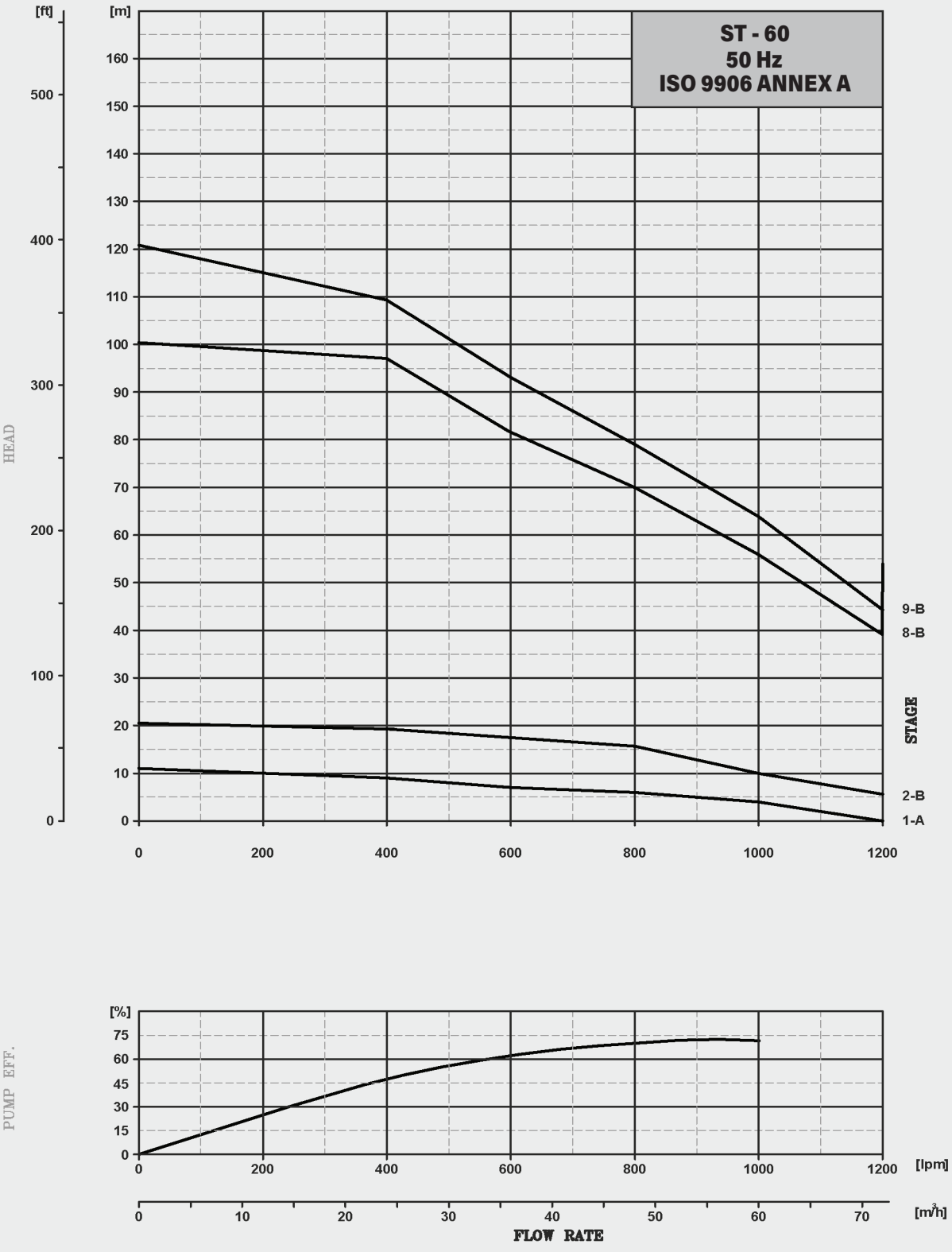
# PERFORMANCE CURVE



# PERFORMANCE CURVE



# PERFORMANCE CURVE



Solartive®

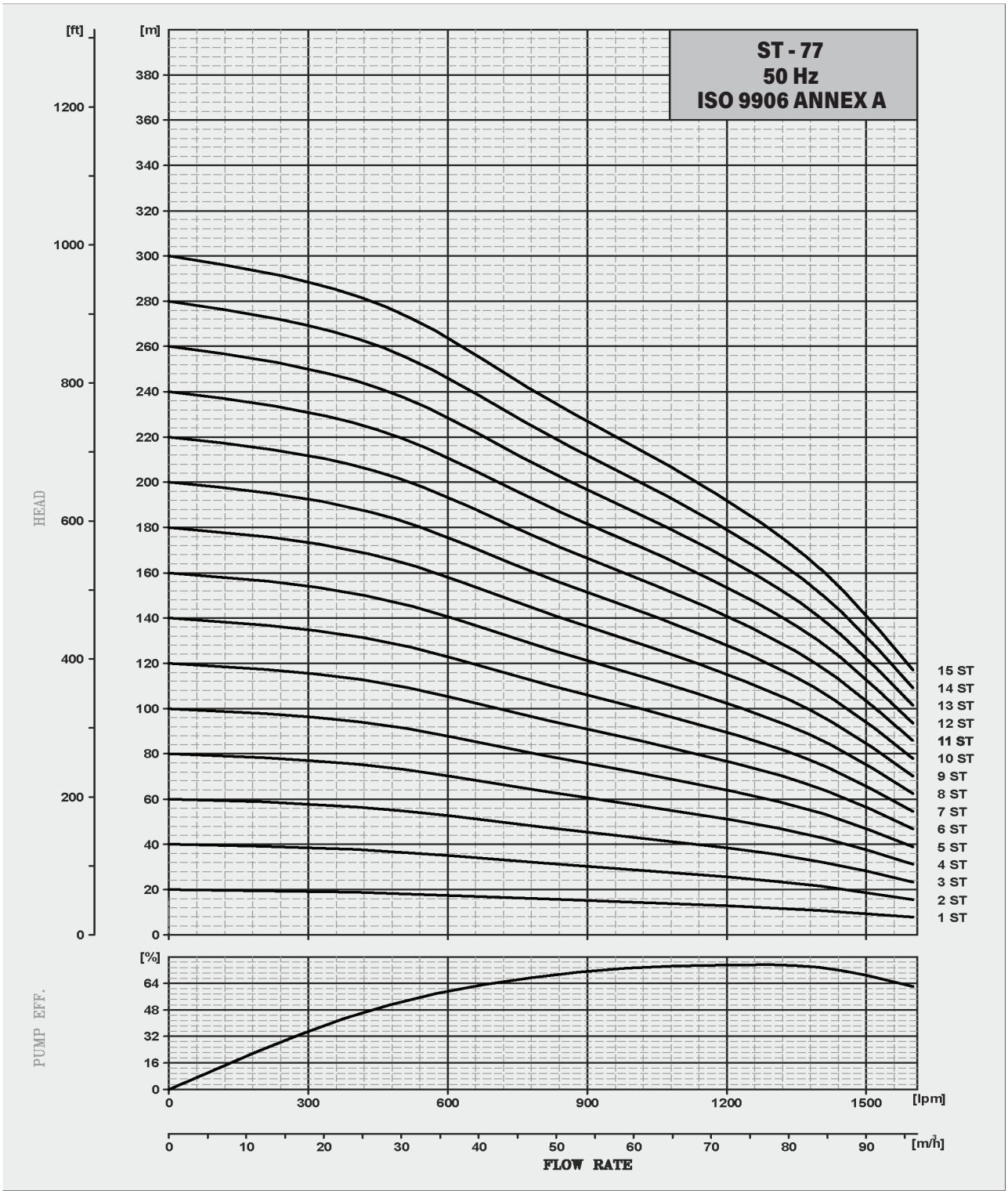
## ST-77, ST-95

# 8” Submersible Pump

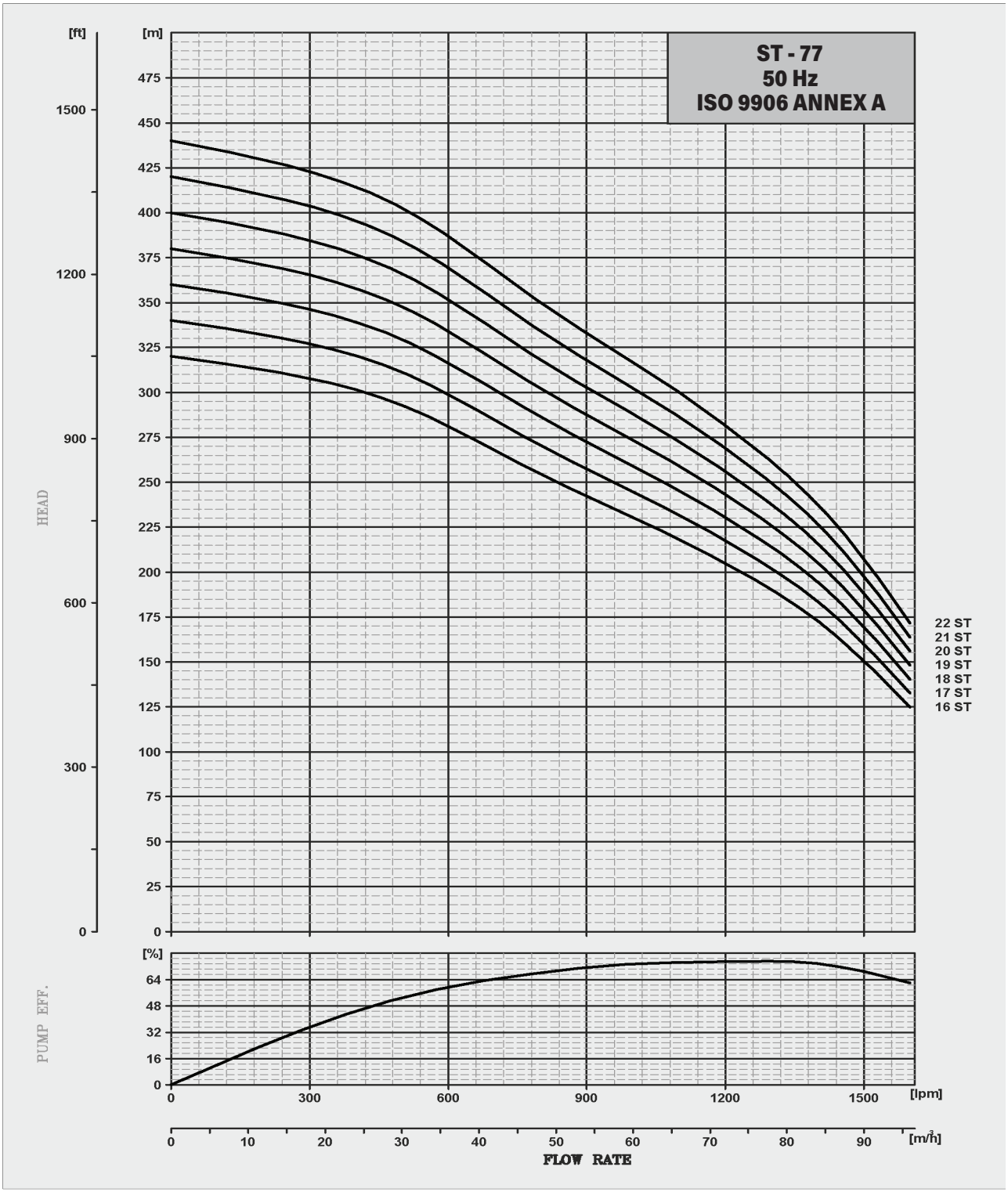
# PERFORMANCE CHART ST-77

| MODEL ST-77 | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 48 | 60 | **72** | 84 | 96 |
| | | | | | | (LPM) | 0 | 800 | 1000 | **1200** | 1400 | 1600 |
| ST-77/1(P4)50(6X8) | 5.5 | 7.5 | 1 | V-6 | 5"BSP | HEAD IN METERS | 20.0 | 15.9 | 14.4 | **12.8** | 10.8 | 7.8 |
| ST-77/2-B(P4)50(6X8) | 5.5 | 7.5 | 2-B | V-6 | 5"BSP | | 33 | 29 | 25 | **19** | 17 | 15 |
| ST-77/2(P4)50(6X8) | 7.5 | 10 | 2 | V-6 | 5"BSP | | 40 | 32 | 29 | **26** | 22 | 16 |
| ST-77/3-B(P4)50(6X8) | 9.3 | 12.5 | 3-B | V-6 | 5"BSP | | 53 | 41 | 37 | **32** | 26 | 16 |
| ST-77/3(P4)50(6X8) | 11 | 15 | 3 | V-6 | 5"BSP | | 60 | 48 | 43 | **38** | 32 | 23 |
| ST-77/4-B(P4)50(6X8) | 13 | 17.5 | 4-B | V-6 | 5"BSP | | 73 | 57 | 51 | **44** | 36 | 23 |
| ST-77/4(P4)50(6X8) | 15 | 20 | 4 | V-6 | 5"BSP | | 80 | 64 | 58 | **51** | 43 | 31 |
| ST-77/5(P4)50(6X8) | 18.5 | 25 | 5 | V-6 | 5"BSP | | 100 | 80 | 72 | **64** | 54 | 39 |
| ST-77/6(P4)50(6X8) | 22 | 30 | 6 | V-6 | 5"BSP | | 120 | 95 | 86 | **77** | 65 | 47 |
| ST-77/7(P4)50(6X8) | 26 | 35 | 7 | V-6 | 5"BSP | | 140 | 111 | 101 | **90** | 76 | 55 |
| ST-77/8-B(P4)50(6X8) | 26 | 35 | 8-B | V-6 | 5"BSP | | 153 | 120 | 109 | **96** | 80 | 55 |
| ST-77/8(P4)50(6X8) | 30 | 40 | 8 | V-6 | 5"BSP | | 160 | 127 | 115 | **102** | 86 | 62 |
| ST-77/9(P4)50(6X8) | 30 | 40 | 9 | V-6 | 5"BSP | | 180 | 143 | 130 | **115** | 97 | 70 |
| ST-77/10(P4)50(6X8) | 37 | 50 | 10 | V-6 | 5"BSP | | 200 | 159 | 144 | **128** | 108 | 78 |
| ST-77/11(P4)50(6X8) | 37 | 50 | 11 | V-6 | 5"BSP | | 220 | 175 | 158 | **141** | 119 | 86 |
| ST-77/12(P4)50(6X8) | 45 | 60 | 12 | V-6 | 5"BSP | | 240 | 191 | 173 | **154** | 130 | 94 |
| ST-77/13(P4)50(8X8) | 55 | 75 | 13 | V-8 | 5"BSP | | 260 | 207 | 187 | **166** | 140 | 101 |
| ST-77/14(P4)50(8X8) | 55 | 75 | 14 | V-8 | 5"BSP | | 280 | 223 | 202 | **179** | 151 | 109 |
| ST-77/15(P4)50(8X8) | 55 | 75 | 15 | V-8 | 5"BSP | | 300 | 239 | 216 | **192** | 162 | 117 |
| ST-77/16(P4)50(8X8) | 67 | 90 | 16 | V-8 | 5"BSP | | 320 | 254 | 230 | **205** | 173 | 125 |
| ST-77/17(P4)50(8X8) | 67 | 90 | 17 | V-8 | 5"BSP | | 340 | 270 | 245 | **218** | 184 | 133 |
| ST-77/18(P4)50(8X8) | 67 | 90 | 18 | V-8 | 5"BSP | | 360 | 286 | 259 | **230** | 194 | 140 |
| ST-77/19(P4)50(8X8) | 75 | 100 | 19 | V-8 | 5"BSP | | 380 | 302 | 274 | **243** | 205 | 148 |
| ST-77/20(P4)50(8X8) | 75 | 100 | 20 | V-8 | 5"BSP | | 400 | 318 | 288 | **256** | 216 | 156 |
| ST-77/21(P4)50(8X8) | 75 | 100 | 21 | V-8 | 5"BSP | | 420 | 334 | 302 | **269** | 227 | 164 |
| ST-77/22(P4)50(8X8) | 93 | 125 | 22 | V-8 | 5"BSP | | 440 | 350 | 317 | **282** | 238 | 172 |

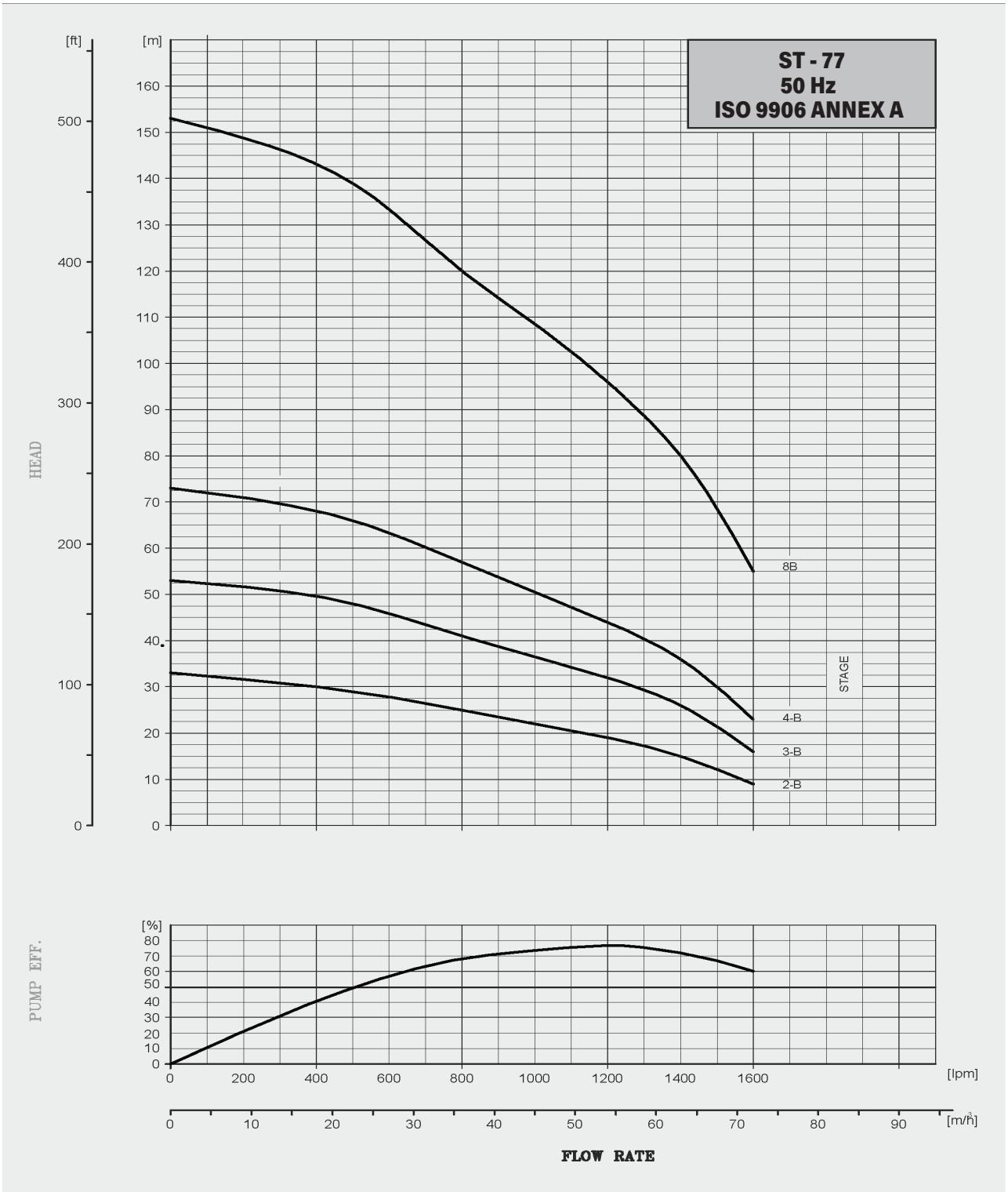
# PERFORMANCE CURVE



# PERFORMANCE CURVE



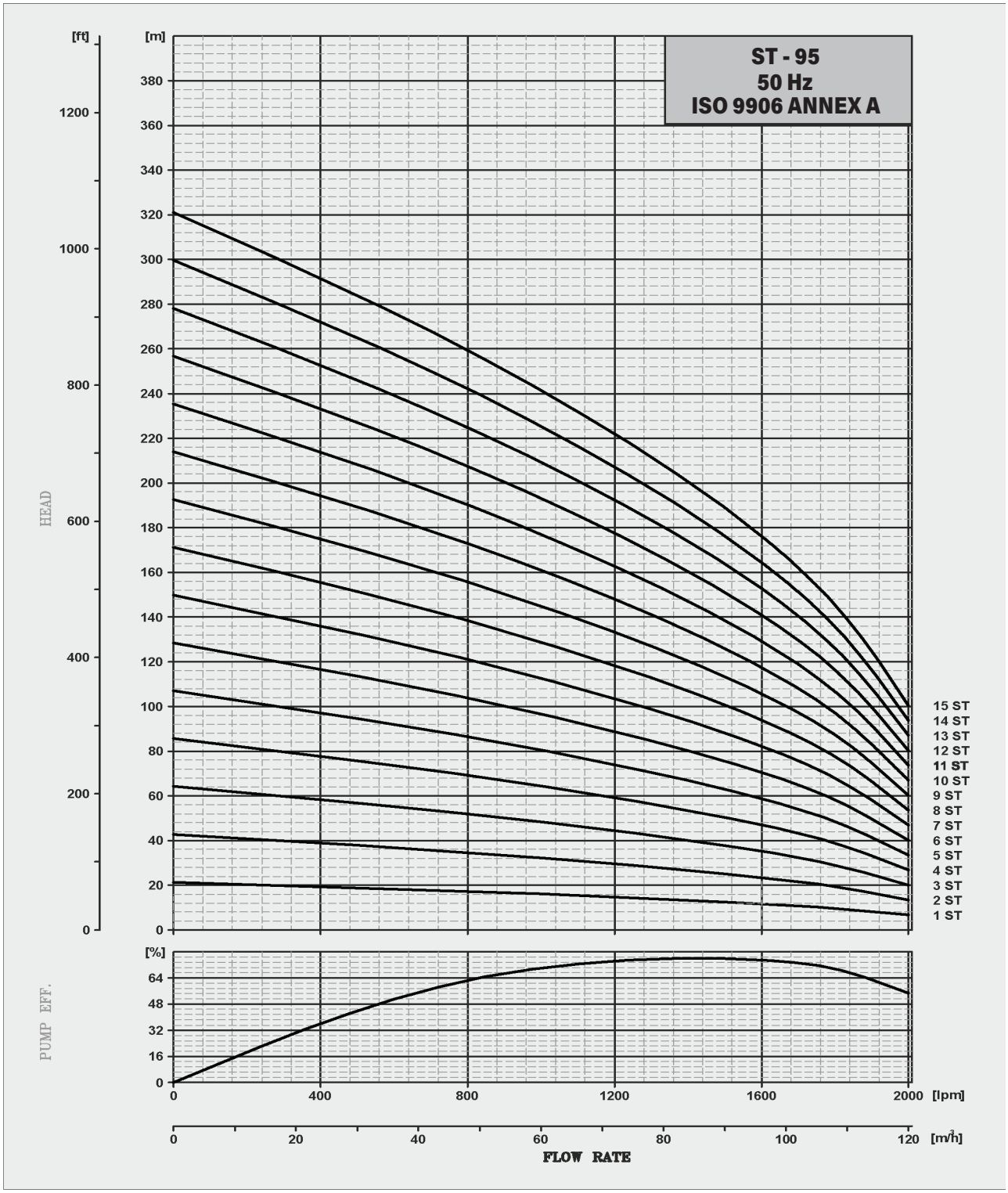
# PERFORMANCE CURVE



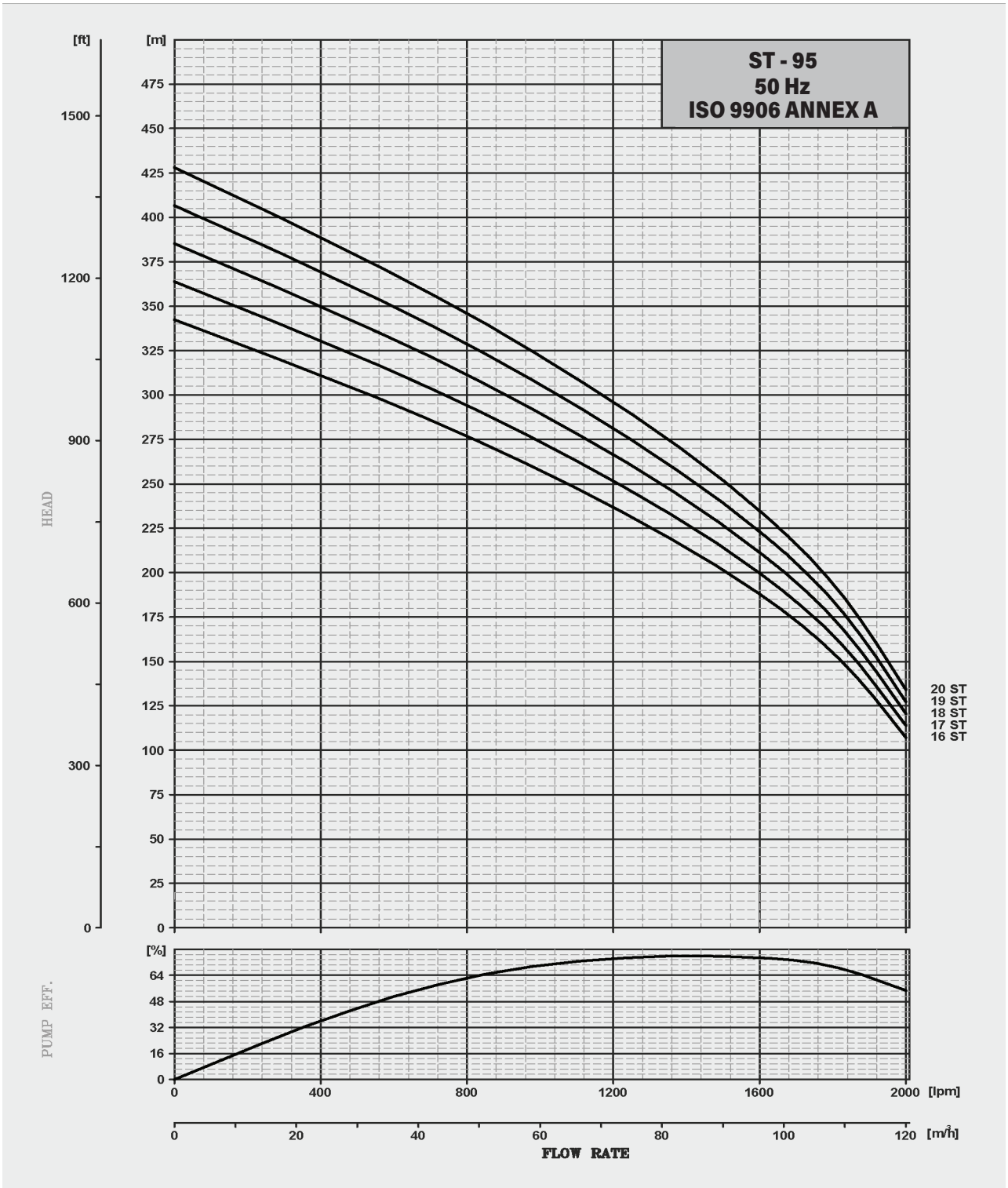
# PERFORMANCE CHART ST-95

| MODEL ST-95 | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 48 | 72 | **96** | 108 | 120 |
| | | | | | | (LPM) | 0 | 800 | 1200 | **1600** | 1800 | 2000 |
| ST-95/1(P4)50(6X8) | 5.5 | 7.5 | 1 | V-6 | 5"BSP | HEAD IN METERS | 21.4 | 17.3 | 14.8 | **11.8** | 9.7 | 6.7 |
| ST-95/2-BB(P4)50(6X8) | 5.5 | 7.5 | 2-BB | V-6 | 5"BSP | | 27 | 22 | 19 | **12** | 6 | 2 |
| ST-95/2-A(P4)50(6X8) | 7.5 | 10 | 2-A | V-6 | 5"BSP | | 39 | 29 | 25 | **20** | 15 | 9 |
| ST-95/2(P4)50(6X8) | 9.3 | 12.5 | 2 | V-6 | 5"BSP | | 43 | 35 | 30 | **24** | 19 | 13 |
| ST-95/3-BB(P4)50(6X8) | 9.3 | 12.5 | 3-BB | V-6 | 5"BSP | | 48 | 39 | 34 | **24** | 16 | 7 |
| ST-95/3-B(P4)50(6X8) | 11 | 15 | 3-B | V-6 | 5"BSP | | 57 | 46 | 40 | **30** | 22 | 13 |
| ST-95/3(P4)50(6X8) | 13 | 17.5 | 3 | V-6 | 5"BSP | | 64 | 52 | 44 | **35** | 29 | 20 |
| ST-95/4-B(P4)50(6X8) | 15 | 20 | 4-B | V-6 | 5"BSP | | 78 | 63 | 54 | **41** | 32 | 20 |
| ST-95/4(P4)50(6X8) | 18.5 | 25 | 4 | V-6 | 5"BSP | | 86 | 69 | 59 | **47** | 39 | 27 |
| ST-95/5-AB(P4)50(6X8) | 18.5 | 25 | 5-AB | V-6 | 5"BSP | | 95 | 75 | 64 | **49** | 37 | 20 |
| ST-95/5(P4)50(6X8) | 22 | 30 | 5 | V-6 | 5"BSP | | 107 | 87 | 74 | **59** | 49 | 34 |
| ST-95/6(P4)50(6X8) | 26 | 35 | 6 | V-6 | 5"BSP | | 128 | 104 | 89 | **71** | 58 | 40 |
| ST-95/7(P4)50(6X8) | 30 | 40 | 7 | V-6 | 5"BSP | | 150 | 121 | 104 | **83** | 68 | 47 |
| ST-95/8(P4)50(6X8) | 37 | 50 | 8 | V-6 | 5"BSP | | 171 | 138 | 118 | **94** | 78 | 54 |
| ST-95/9(P4)50(6X8) | 37 | 50 | 9 | V-6 | 5"BSP | | 193 | 156 | 133 | **106** | 87 | 60 |
| ST-95/10(P4)50(6X8) | 45 | 60 | 10 | V-6 | 5"BSP | | 214 | 173 | 148 | **118** | 97 | 67 |
| ST-95/11(P4)50(8X8) | 55 | 75 | 11 | V-8 | 5"BSP | | 235 | 190 | 163 | **130** | 107 | 74 |
| ST-95/12(P4)50(8X8) | 55 | 75 | 12 | V-8 | 5"BSP | | 257 | 208 | 178 | **142** | 116 | 80 |
| ST-95/13(P4)50(8X8) | 55 | 75 | 13 | V-8 | 5"BSP | | 278 | 225 | 192 | **153** | 126 | 87 |
| ST-95/14(P4)50(8X8) | 67 | 90 | 14 | V-8 | 5"BSP | | 300 | 242 | 207 | **165** | 136 | 94 |
| ST-95/15(P4)50(8X8) | 75 | 100 | 15 | V-8 | 5"BSP | | 321 | 260 | 222 | **177** | 146 | 101 |
| ST-95/16(P4)50(8X8) | 75 | 100 | 16 | V-8 | 5"BSP | | 342 | 277 | 237 | **189** | 155 | 107 |
| ST-95/17(P4)50(8X8) | 75 | 100 | 17 | V-8 | 5"BSP | | 364 | 294 | 252 | **201** | 165 | 114 |
| ST-95/18(P4)50(8X8) | 93 | 125 | 18 | V-8 | 5"BSP | | 385 | 311 | 266 | **212** | 175 | 121 |
| ST-95/19(P4)50(8X8) | 93 | 125 | 19 | V-8 | 5"BSP | | 407 | 329 | 281 | **224** | 184 | 127 |
| ST-95/20(P4)50(8X8) | 93 | 125 | 20 | V-8 | 5"BSP | | 428 | 346 | 296 | **236** | 194 | 134 |

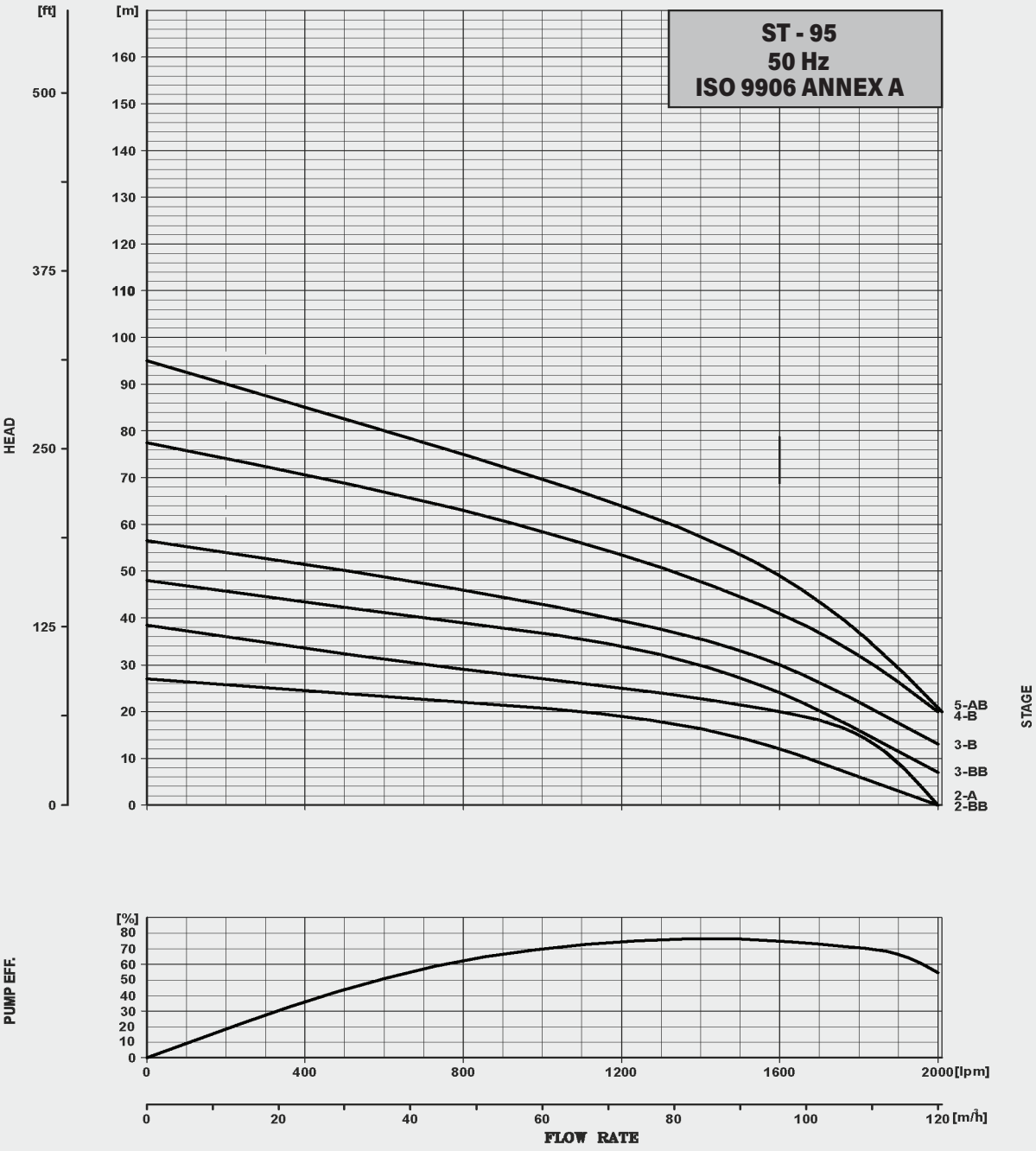
# PERFORMANCE CURVE



# PERFORMANCE CURVE



# PERFORMANCE CURVE



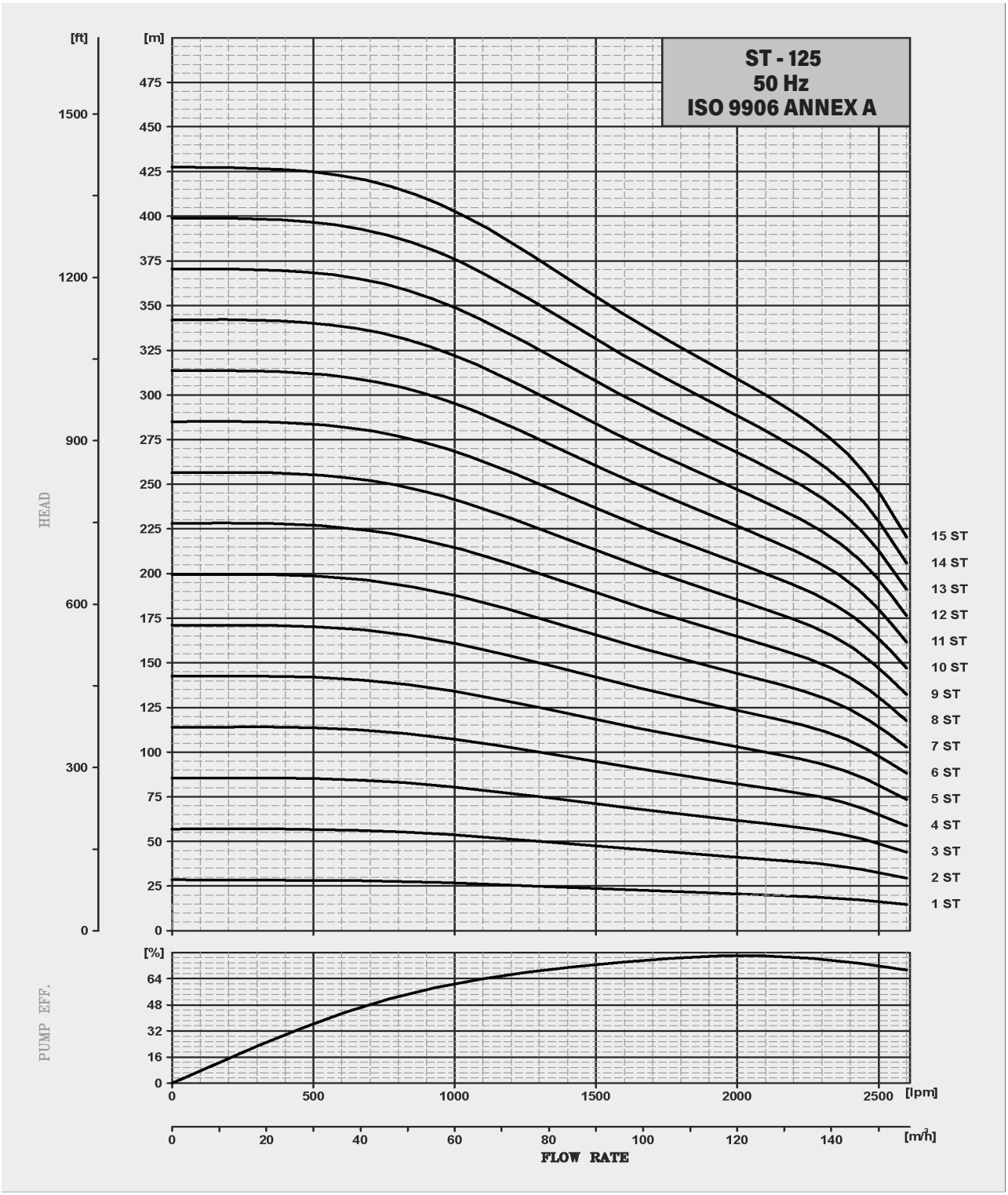
## ST-125, ST-160

# 10” *Submersible Pump*

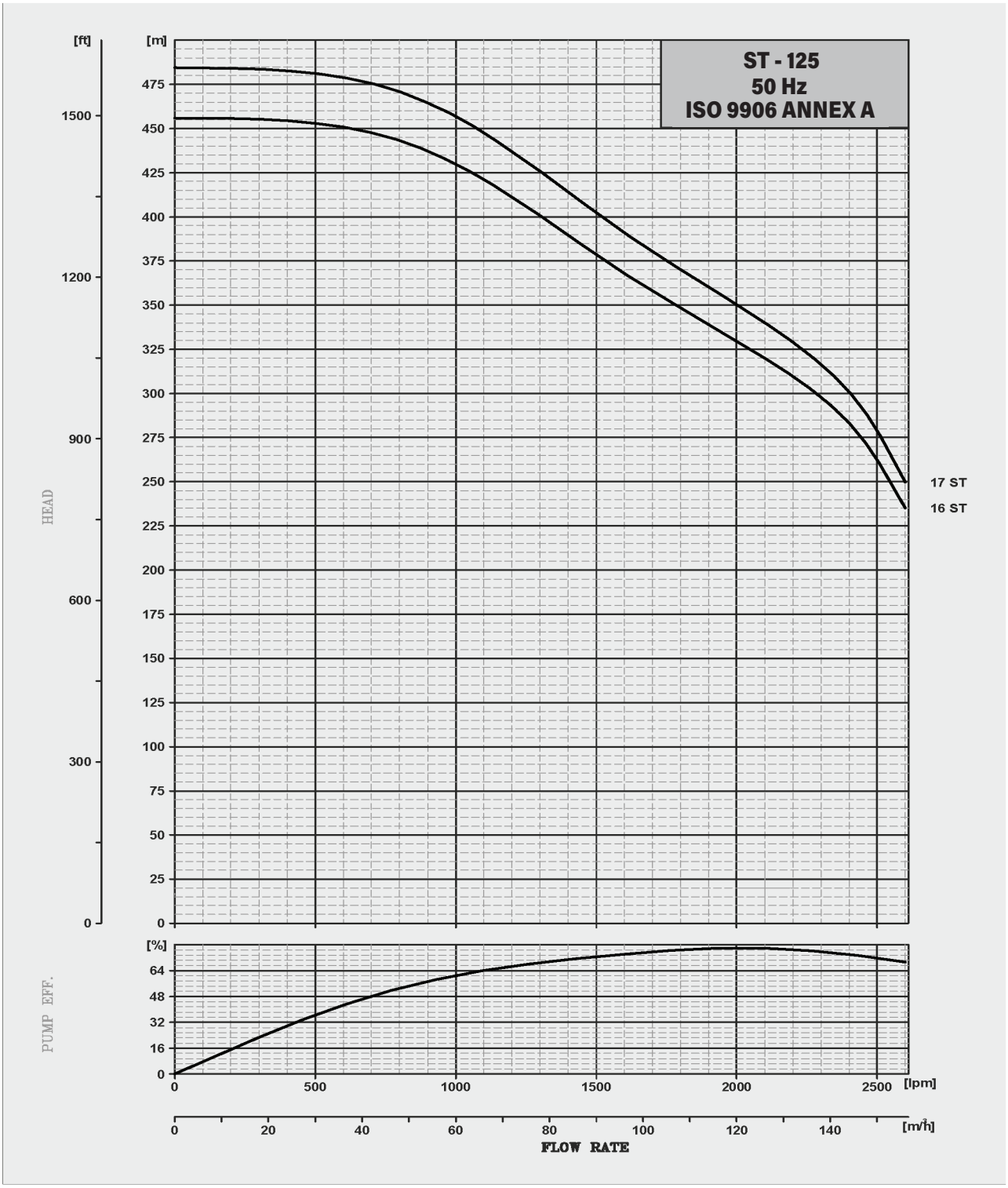
# PERFORMANCE CHART ST-125

| MODEL ST-125 | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 48 | 96 | **126** | 144 | 156 |
| | | | | | | (LPM) | 0 | 800 | 1600 | **2100** | 2400 | 2600 |
| ST-125/1-A(P4)50(6X10) | 7.5 | 10 | 1-A | V-6 | 6"BSP | HEAD IN METERS | 21 | 20 | 16 | **13** | 10 | 7 |
| ST-125/1(P4)50(6X10) | 11 | 15 | 1 | V-6 | 6"BSP | | 28.5 | 27.7 | 23.0 | **20.0** | 17.0 | 14.7 |
| ST-125/2-AA(P4)50(6X10) | 13 | 17.5 | 2-AA | V-6 | 6"BSP | | 44 | 39 | 32 | **26** | 19 | 13 |
| ST-125/2-A(P4)50(6X10) | 18.5 | 25 | 2-A | V-6 | 6"BSP | | 50 | 47 | 39 | **33** | 27 | 21 |
| ST-125/2(P4)50(6X10) | 22 | 30 | 2 | V-6 | 6"BSP | | 57 | 55 | 46 | **40** | 34 | 29 |
| ST-125/3-AA(P4)50(6X10) | 22 | 30 | 3-AA | V-6 | 6"BSP | | 71 | 67 | 55 | **46** | 36 | 28 |
| ST-125/3-A(P4)50(6X10) | 26 | 35 | 3-A | V-6 | 6"BSP | | 78 | 75 | 62 | **53** | 44 | 36 |
| ST-125/3(P4)50(6X10) | 30 | 40 | 3 | V-6 | 6"BSP | | 86 | 83 | 69 | **60** | 51 | 44 |
| ST-125/4-AA(P4)50(6X10) | 37 | 50 | 4-AA | V-6 | 6"BSP | | 99 | 94 | 78 | **66** | 53 | 42 |
| ST-125/4-A(P4)50(6X10) | 37 | 50 | 4-A | V-6 | 6"BSP | | 107 | 103 | 85 | **73** | 61 | 51 |
| ST-125/4(P4)50(6X10) | 37 | 50 | 4 | V-6 | 6"BSP | | 114 | 111 | 92 | **80** | 68 | 59 |
| ST-125/5-AA(P4)50(6X10) | 45 | 60 | 5-AA | V-6 | 6"BSP | | 128 | 122 | 101 | **86** | 70 | 57 |
| ST-125/5-A(P4)50(6X10) | 45 | 60 | 5-A | V-6 | 6"BSP | | 135 | 131 | 108 | **93** | 78 | 66 |
| ST-125/5(P4)50(8X10) | 55 | 75 | 5 | V-8 | 6"BSP | | 143 | 139 | 115 | **100** | 85 | 74 |
| ST-125/6-AA(P4)50(8X10) | 55 | 75 | 6-AA | V-8 | 6"BSP | | 156 | 150 | 124 | **106** | 87 | 72 |
| ST-125/6-A(P4)50(8X10) | 55 | 75 | 6-A | V-8 | 6"BSP | | 164 | 158 | 131 | **113** | 95 | 80 |
| ST-125/6(P4)50(8X10) | 63 | 85 | 6 | V-8 | 6"BSP | | 171 | 166 | 138 | **120** | 102 | 88 |
| ST-125/7-AA(P4)50(8X10) | 63 | 85 | 7-AA | V-8 | 6"BSP | | 185 | 178 | 147 | **126** | 104 | 87 |
| ST-125/7-A(P4)50(8X10) | 63 | 85 | 7-A | V-8 | 6"BSP | | 192 | 186 | 154 | **133** | 112 | 95 |
| ST-125/7(P4)50(8X10) | 75 | 100 | 7 | V-8 | 6"BSP | | 200 | 194 | 161 | **140** | 119 | 103 |
| ST-125/8-AA(P4)50(8X10) | 75 | 100 | 8-AA | V-8 | 6"BSP | | 213 | 205 | 170 | **146** | 121 | 101 |
| ST-125/8-A(P4)50(8X10) | 75 | 100 | 8-A | V-8 | 6"BSP | | 221 | 213 | 177 | **153** | 129 | 109 |
| ST-125/8(P4)50(8X10) | 75 | 100 | 8 | V-8 | 6"BSP | | 228 | 222 | 184 | **160** | 136 | 118 |
| ST-125/9-AA(P4)50(8X10) | 93 | 125 | 9-AA | V-8 | 6"BSP | | 242 | 233 | 193 | **166** | 138 | 116 |
| ST-125/9-A(P4)50(8X10) | 93 | 125 | 9-A | V-8 | 6"BSP | | 249 | 241 | 200 | **173** | 146 | 124 |
| ST-125/9(P4)50(8X10) | 93 | 125 | 9 | V-8 | 6"BSP | | 257 | 249 | 207 | **180** | 153 | 132 |
| ST-125/10-AA(P4)50(8X10) | 93 | 125 | 10-AA | V-8 | 6"BSP | | 270 | 261 | 216 | **186** | 155 | 131 |
| ST-125/10-A(P4)50(8X10) | 93 | 125 | 10-A | V-8 | 6"BSP | | 278 | 269 | 223 | **193** | 163 | 139 |
| ST-125/10(P4)50(8X10) | 93 | 125 | 10 | V-8 | 6"BSP | | 285 | 277 | 230 | **200** | 170 | 147 |
| ST-125/11(P4)50(10X10) | 110 | 150 | 11 | V-10 | 6"BSP | | 314 | 305 | 253 | **220** | 187 | 162 |
| ST-125/12(P4)50(10X10) | 130 | 175 | 12 | V-10 | 6"BSP | | 342 | 332 | 276 | **240** | 204 | 176 |
| ST-125/13(P4)50(10X10) | 130 | 175 | 13 | V-10 | 6"BSP | | 371 | 360 | 299 | **260** | 221 | 191 |
| ST-125/14(P4)50(10X10) | 150 | 200 | 14 | V-10 | 6"BSP | | 399 | 388 | 322 | **280** | 238 | 206 |
| ST-125/15(P4)50(10X10) | 150 | 200 | 15 | V-10 | 6"BSP | | 428 | 416 | 345 | **300** | 255 | 221 |
| ST-125/16(P4)50(10X10) | 185 | 250 | 16 | V-10 | 6"BSP | | 456 | 443 | 368 | **320** | 272 | 235 |
| ST-125/17(P4)50(10X10) | 185 | 250 | 17 | V-10 | 6"BSP | | 485 | 471 | 391 | **340** | 289 | 250 |

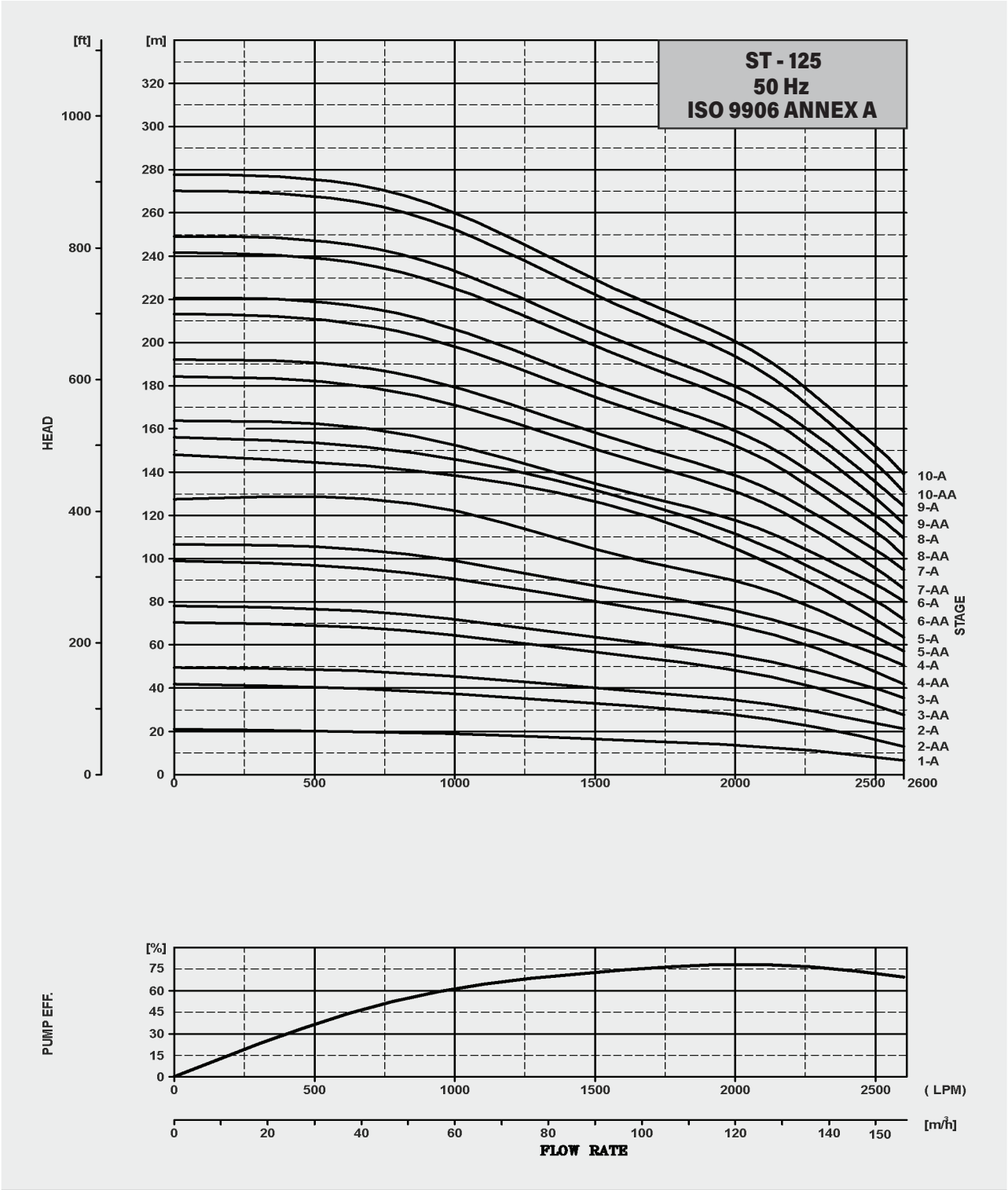
# PERFORMANCE CURVE



# PERFORMANCE CURVE



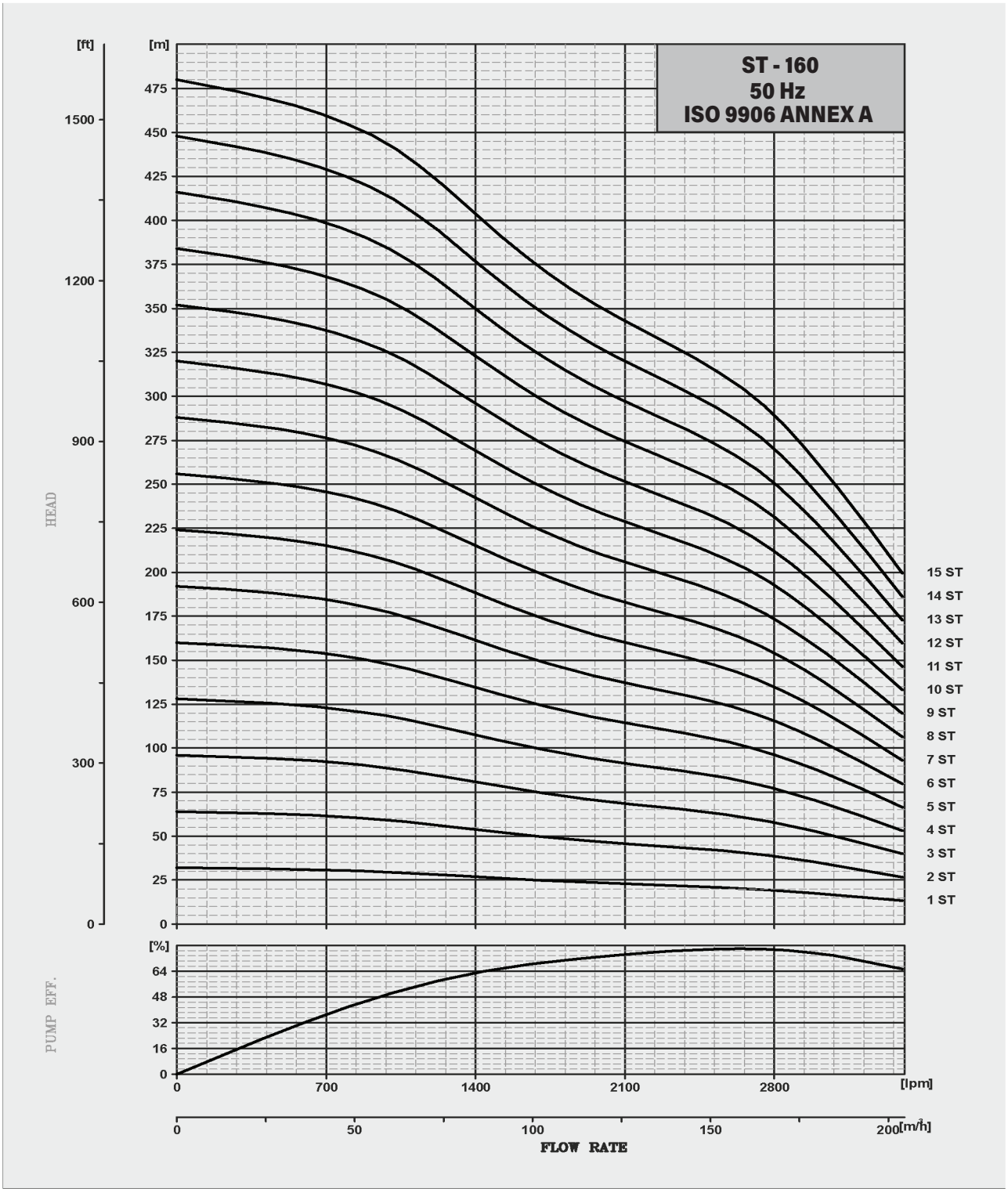
# PERFORMANCE CURVE



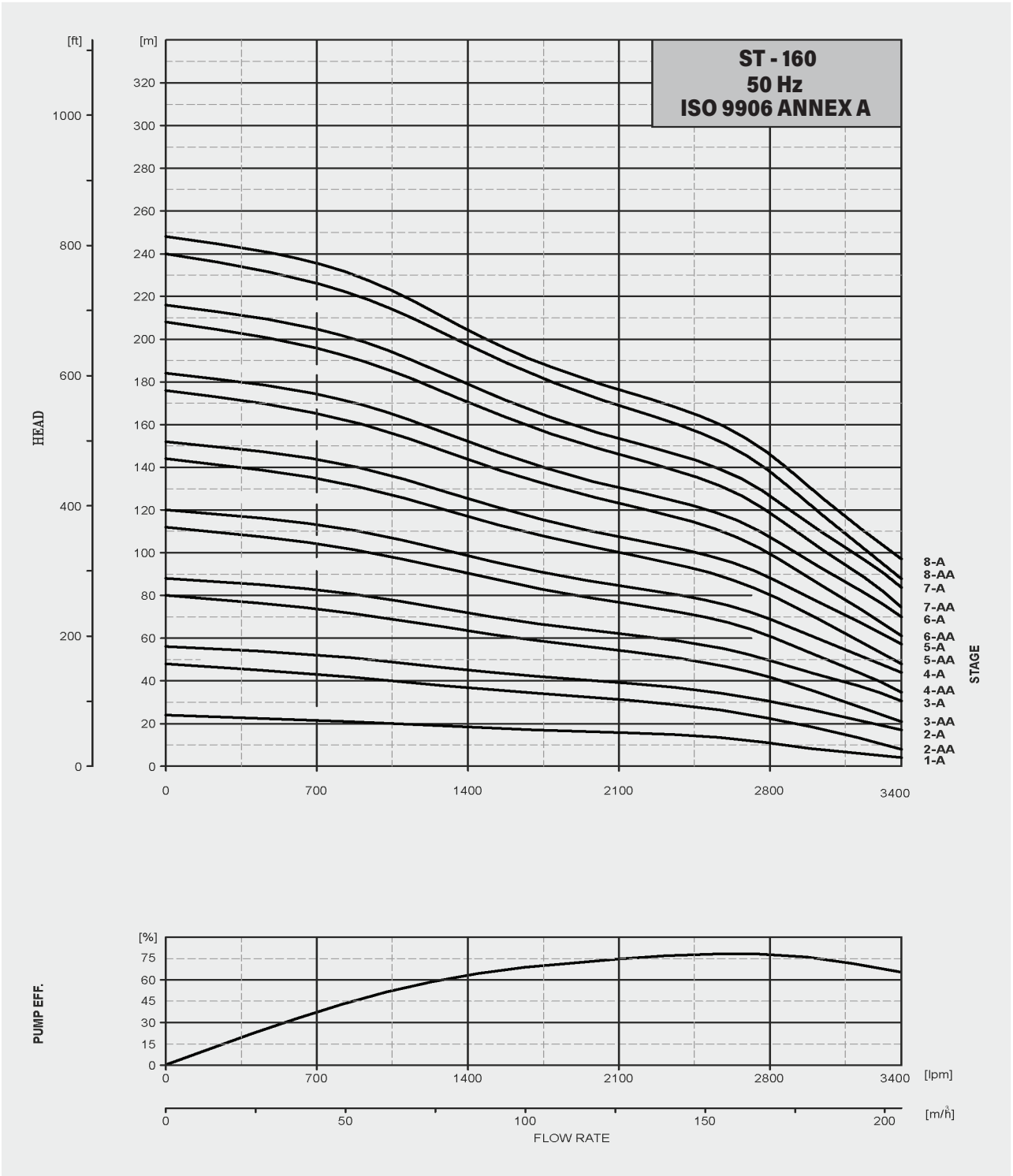
# PERFORMANCE CHART ST-160

| MODEL ST-160 | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $M^3/H$ | 0 | 60 | 90 | 120 | **162** | 180 |
| | | | | | | (LPM) | 0 | 1000 | 1500 | 2000 | **2700** | 3000 |
| ST-160/1-A(P4)50(6X10) | 9.3 | 12.5 | 1-A | V-6 | 6"BSP | HEAD IN METERS | 24 | 20.5 | 18 | 16 | **12** | 9.5 |
| ST-160/1(P4)50(6X10) | 13 | 17.5 | 1 | V-6 | 6"BSP | | 32.0 | 29.5 | 26.2 | 23.3 | **20.0** | 17.5 |
| ST-160/2-AA(P4)50(6X10) | 18.5 | 25 | 2-AA | V-6 | 6"BSP | | 48 | 41 | 36 | 32 | **24** | 19 |
| ST-160/2-A(P4)50(6X10) | 22 | 30 | 2-A | V-6 | 6"BSP | | 56 | 50 | 44 | 39 | **32** | 27 |
| ST-160/2(P4)50(6X10) | 26 | 35 | 2 | V-6 | 6"BSP | | 64 | 59 | 52 | 47 | **40** | 35 |
| ST-160/3-AA(P4)50(6X10) | 30 | 40 | 3-AA | V-6 | 6"BSP | | 80 | 71 | 62 | 55 | **44** | 37 |
| ST-160/3-A(P4)50(6X10) | 37 | 50 | 3-A | V-6 | 6"BSP | | 88 | 80 | 70 | 63 | **52** | 45 |
| ST-160/3(P4)50(6X10) | 37 | 50 | 3 | V-6 | 6"BSP | | 96 | 89 | 79 | 70 | **60** | 53 |
| ST-160/4-AA(P4)50(6X10) | 45 | 60 | 4-AA | V-6 | 6"BSP | | 112 | 100 | 88 | 79 | **64** | 54 |
| ST-160/4-A(P4)50(6X10) | 45 | 60 | 4-A | V-6 | 6"BSP | | 120 | 109 | 97 | 86 | **72** | 62 |
| ST-160/4(P4)50(8X10) | 55 | 75 | 4 | V-8 | 6"BSP | | 128 | 118 | 105 | 93 | **80** | 70 |
| ST-160/5-AA(P4)50(8X10) | 55 | 75 | 5-AA | V-8 | 6"BSP | | 144 | 130 | 115 | 102 | **84** | 72 |
| ST-160/5-A(P4)50(8X10) | 55 | 75 | 5-A | V-8 | 6"BSP | | 152 | 139 | 123 | 109 | **92** | 80 |
| ST-160/5(P4)50(8X10) | 63 | 85 | 5 | V-8 | 6"BSP | | 160 | 148 | 131 | 117 | **100** | 88 |
| ST-160/6-AA(P4)50(8X10) | 63 | 85 | 6-AA | V-8 | 6"BSP | | 176 | 159 | 141 | 125 | **104** | 89 |
| ST-160/6-A(P4)50(8X10) | 75 | 100 | 6-A | V-8 | 6"BSP | | 184 | 168 | 149 | 133 | **112** | 97 |
| ST-160/6(P4)50(8X10) | 75 | 100 | 6 | V-8 | 6"BSP | | 192 | 177 | 157 | 140 | **120** | 105 |
| ST-160/7-AA(P4)50(8X10) | 75 | 100 | 7-AA | V-8 | 6"BSP | | 208 | 189 | 167 | 149 | **124** | 107 |
| ST-160/7-A(P4)50(8X10) | 93 | 125 | 7-A | V-8 | 6"BSP | | 216 | 198 | 175 | 156 | **132** | 115 |
| ST-160/7(P4)50(8X10) | 93 | 125 | 7 | V-8 | 6"BSP | | 224 | 207 | 183 | 163 | **140** | 123 |
| ST-160/8-AA(P4)50(8X10) | 93 | 125 | 8-AA | V-8 | 6"BSP | | 240 | 218 | 193 | 172 | **144** | 124 |
| ST-160/8-A(P4)50(8X10) | 93 | 125 | 8-A | V-8 | 6"BSP | | 248 | 227 | 201 | 179 | **152** | 132 |
| ST-160/8(P4)50(8X10) | 93 | 125 | 8 | V-8 | 6"BSP | | 256 | 236 | 210 | 186 | **160** | 140 |
| ST-160/9-AA(P4)50(10X10) | 110 | 150 | 9-AA | V-10 | 6"BSP | | 272 | 248 | 219 | 195 | **164** | 142 |
| ST-160/9-A(P4)50(10X10) | 110 | 150 | 9-A | V-10 | 6"BSP | | 280 | 257 | 228 | 202 | **172** | 152 |
| ST-160/9(P4)50(10X10) | 110 | 150 | 9 | V-10 | 6"BSP | | 288 | 266 | 236 | 210 | **180** | 158 |
| ST-160/10-AA(P4)50(10X10) | 110 | 150 | 10-AA | V-10 | 6"BSP | | 304 | 277 | 246 | 218 | **184** | 160 |
| ST-160/10-A(P4)50(10X10) | 130 | 175 | 10-A | V-10 | 6"BSP | | 312 | 287 | 254 | 226 | **192** | 168 |
| ST-160/10(P4)50(10X10) | 130 | 175 | 10 | V-10 | 6"BSP | | 320 | 295 | 262 | 233 | **200** | 175 |
| ST-160/11(P4)50(10X10) | 130 | 175 | 11 | V-10 | 6"BSP | | 352 | 324.5 | 288 | 256 | **220** | 193 |
| ST-160/12(P4)50(10X10) | 150 | 200 | 12 | V-10 | 6"BSP | | 384 | 354 | 314 | 280 | **240** | 210 |
| ST-160/13(P4)50(10X10) | 185 | 250 | 13 | V-10 | 6"BSP | | 416 | 383.5 | 341 | 303 | **260** | 228 |
| ST-160/14(P4)50(10X10) | 185 | 250 | 14 | V-10 | 6"BSP | | 448 | 413 | 367 | 326 | **280** | 245 |
| ST-160/15(P4)50(10X10) | 185 | 250 | 15 | V-10 | 6"BSP | | 480 | 442.5 | 393 | 350 | **300** | 263 |

# PERFORMANCE CURVE



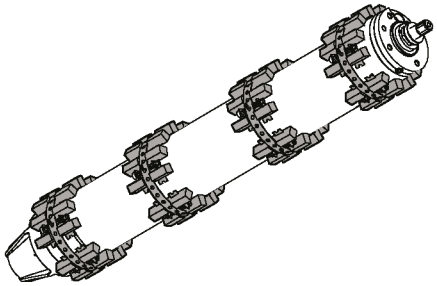
# PERFORMANCE CURVE



## APPLICATIONS

**Cathodic protection by means of zinc can be used for corrosion protection of ST pumps in chloride-containing liquids, such as brackish water and seawater.**

**Sacrificial anodes are placed on the outside of the pump and motor as protection against corrosion.**



**Submersible motor fitted with anode strings**

The number of anodes required depends on the pump and motor in question.

## FLOW SLEEVES

**Solartive Pumps offers a complete range of stainless-steel flow sleeves for both vertical and horizontal operation. Flow sleeves are recommended for all applications in which motor cooling is insufficient. The result is a general extension of motor life. Flow sleeves are to be fitted in these cases:**

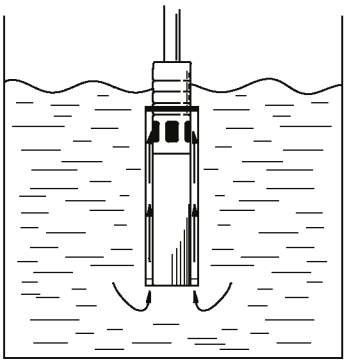
- If the submersible pump is exposed to high thermal load such as current unbalance, dry running, overload, high ambient temperature and bad cooling conditions.
- If aggressive liquids are pumped, since corrosion is doubled for every 10 °C the temperature rises.
- If sedimentation or deposits occur around and/or on the motor.

See example

**Note: More information about flow sleeves is available** on request.

### Example of calculated flow sleeve

**The flow sleeve is fitted to the submersible motor so** that the liquid passes close by the motor on its way towards the pump suction interconnector, thus **ensuring optimum cooling of the motor. See fig.** .



Flow sleeve function

**The flow sleeve is designed so that the flow velocity** past the motor is minimum 0.5 m/s and maximum 3 m/s to ensure optimum pump operating conditions.

**Use this formula to calculate flow velocity:**

$$V = \frac{Q \times 353}{D^2 - d^2} \text{ [m/s]}$$

| | | |
|---|---|---|
| Q | $m^3/h$ | Flow rate |
| D | mm | Sleeve diameter |
| d | mm | Pump diameter |

## NOTES

# Solartive®


**Toll Free No. - 1800 889 3813**

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