



**C.R.I. PUMPS**  
Pumping trust. Worldwide.

# Technical Data

Pump Model  
**S8S-78/10**

|                                                                                                  |                     |
|--------------------------------------------------------------------------------------------------|---------------------|
| <b>Project Name</b> : Untitled project 2025-03-21 09:08:23.952                                   | <b>Project ID</b> : |
| <b>Company Name</b> :<br><b>Department</b> :<br><b>Phone number</b> :<br><b>e-mail address</b> : |                     |

## Requested Data

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| <b>Flow</b> : 74.11 m <sup>3</sup> /h | <b>Fluid</b> : Water                        |
| <b>Head</b> : 132.8 m                 | <b>Density</b> : 0.9983 kg/dm <sup>3</sup>  |
|                                       | <b>Viscosity</b> : 1.005 mm <sup>2</sup> /s |
|                                       | <b>Temperature</b> : 20 °C                  |
|                                       | <b>pH-value at t A</b> :                    |
|                                       | <b>Vapour pressure at t A</b> : 0.0234 bar  |

## Pump

|                                                  |                                                       |
|--------------------------------------------------|-------------------------------------------------------|
| <b>Pump Model</b> : S8S-78/10                    | <b>Minimum Continuous Flow</b> : 30 m <sup>3</sup> /h |
| <b>No. of Stages</b> : 10                        | <b>Flow Nominal</b> : 73.89 m <sup>3</sup> /h         |
| <b>Outlet Size</b> : 100                         | <b>Max-</b> : 99.94 m <sup>3</sup> /h                 |
| <b>Speed</b> : 2900 1/min                        | <b>Min-</b> : 30 m <sup>3</sup> /h                    |
| <b>Direction of Rotation</b> : Counter clockwise | <b>Head Nominal</b> : 130.3 m                         |
| <b>Impeller type</b> : Mixed Flow impeller       | <b>Max-</b> : 187.6 m                                 |
| <b>Impeller Design</b> : Closed                  | <b>Min-</b> : 74.67 m                                 |
| <b>pump weight(Approx)</b> : 55.72 kg            | <b>Efficiency Overall Efficiency</b> : 63.17 %        |
| <b>Pump Standard</b> :                           | <b>Pump Efficiency</b> : 73.46 %                      |

## Motor

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| <b>Motor Model</b> : W8B-450TN        | <b>Motor Standard</b> :                     |
| <b>Frequency</b> : 50 Hz              | <b>Insulation Class</b> : Y                 |
| <b>Phase</b> : 3~                     | <b>Degree of Protection</b> : IP 68         |
| <b>Rated Voltage</b> : 525 V          | <b>Method of Starting</b> : Direct starting |
| <b>Rated current</b> : 75 A           | <b>Service factor</b> : 1                   |
| <b>Rated Power P2</b> : 45 kW         | <b>Power factor</b> : 0.82                  |
| <b>Speed</b> : 2900 1/min             | <b>No.of.starts per hour</b> : 15           |
| <b>Efficiency</b> : 85 %              | <b>Starting current</b> :                   |
| <b>Motor Weight (Approx)</b> : 164 kg | <b>Starting torque</b> :                    |

## Material of Construction

| Pump                                |                       | Motor                               |                                         |
|-------------------------------------|-----------------------|-------------------------------------|-----------------------------------------|
| <b>Check Valve Housing</b>          | S.S 304               | <b>Shaft Seal Housing</b>           | Cast Iron                               |
| <b>Check Valve Disc</b>             | S.S 304               | <b>Shaft Seal / Mechanical Seal</b> | Nitrile Rubber / Ceramic - Carbon , SiC |
| <b>Check Valve Seat</b>             | Nitrile Butyle Rubber | <b>Upper &amp; Lower Housings</b>   | Cast Iron                               |
| <b>Diffuser Chamber</b>             | S.S 304               | <b>Stator Shell</b>                 | SS 304                                  |
| <b>Impeller</b>                     | S.S 304               | <b>Thrust Pad</b>                   | Carbon Graphite                         |
| <b>Split Cone with Nut</b>          | S.S 304               | <b>Thrust Bearing</b>               | SS 420                                  |
| <b>Impeller Wearing / Seal Ring</b> | Nitrile Butyle Rubber | <b>Diaphragm</b>                    | High Nitrile Rubber                     |
| <b>Upthrust Washer / Stop Ring</b>  | S.S 420               | <b>Motor Base</b>                   | Cast Iron                               |
| <b>Intermediate Bearing</b>         | Nitrile Butyle Rubber | <b>Shaft</b>                        | EN-8                                    |
| <b>Suction Interconnector</b>       | S.S 304               | <b>Shaft Extension</b>              | S.S 410                                 |
| <b>Inlet Screen</b>                 | S.S 304               | <b>Sleeves</b>                      | SS 431                                  |
| <b>Pump Shaft</b>                   | S.S 431               |                                     |                                         |
| <b>Coupling Splines</b>             | S.S 329               |                                     |                                         |
| <b>Locking Strap</b>                | S.S 304               |                                     |                                         |
| <b>Cable Guard</b>                  | S.S 304               |                                     |                                         |



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# Performance Curve

Pump Model  
**S8S-78/10**

**Project Name** : Untitled project 2025-03-21 09:08:23.952

**Project ID** :

**Company Name** :

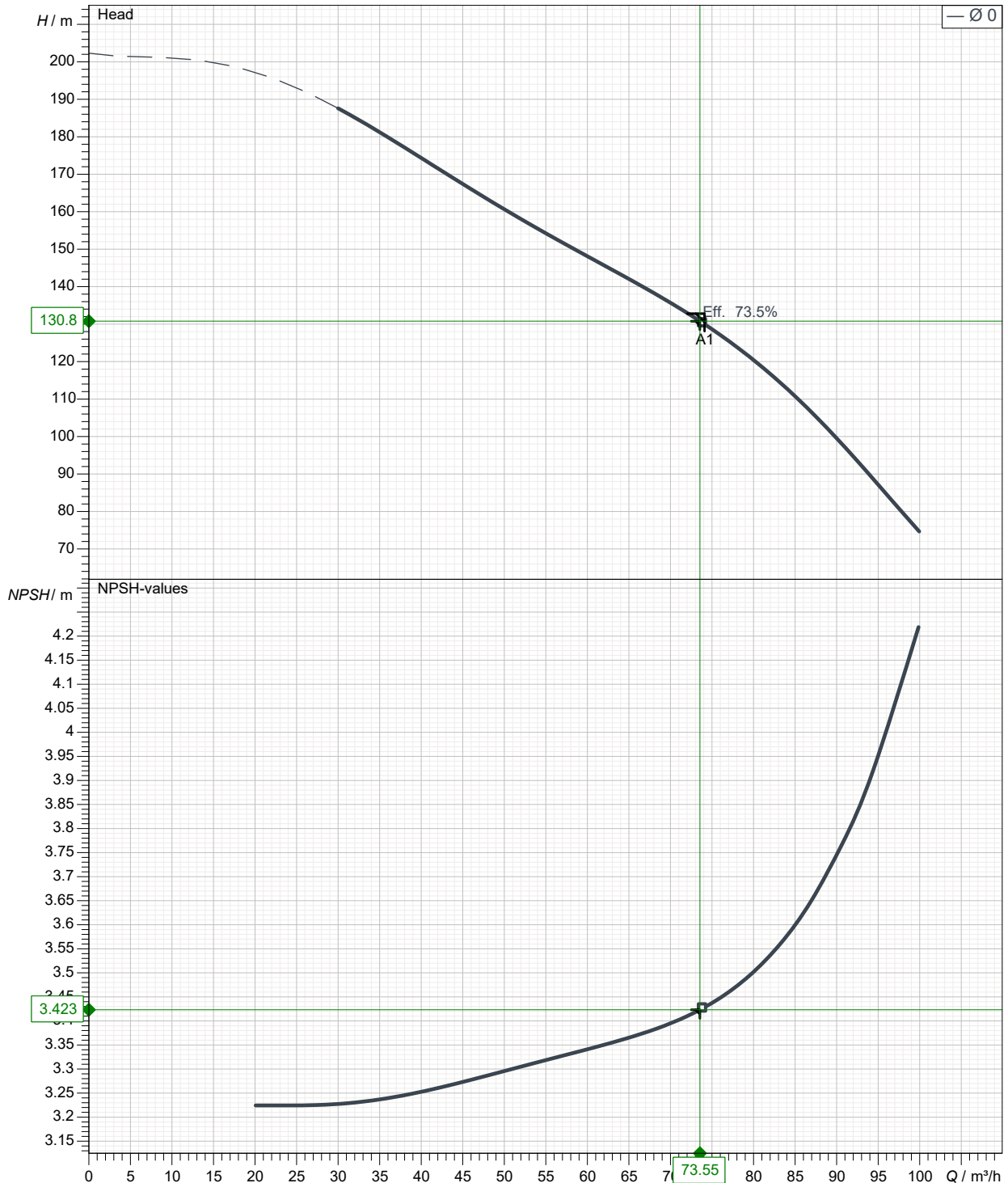
**Department** :

**Phone number** :

**e-mail address** :

**Curve Tolerance** ISO : 9906, Grade-3B

**Speed** 2900 rpm

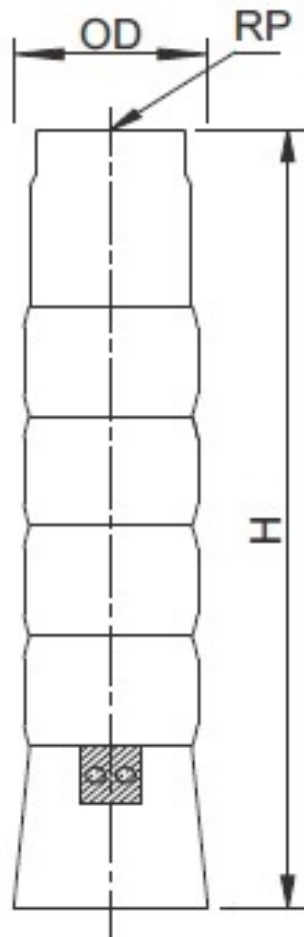




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In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

## Dimensions in mm

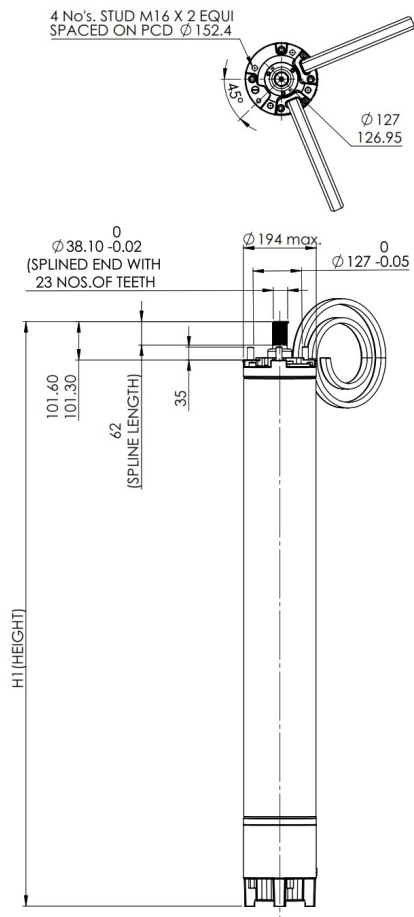
|        |           |  |  |
|--------|-----------|--|--|
| H      | 1706      |  |  |
| OD-DOL | 193       |  |  |
| OD-SD  | 195       |  |  |
| RP     | 100 \ 125 |  |  |



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## Dimensions in mm

|    |      |  |  |
|----|------|--|--|
| H1 | 1195 |  |  |
|----|------|--|--|



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# Performance Curve

Motor Model  
**W8B-450TN**

**Project Name** : Untitled project 2025-03-21 09:08:23.952

**Project ID** :

**Company Name** :

**Department** :

**Phone number** :

**e-mail address** :

**Curve Tolerance** ISO : 9906, Grade-3B

