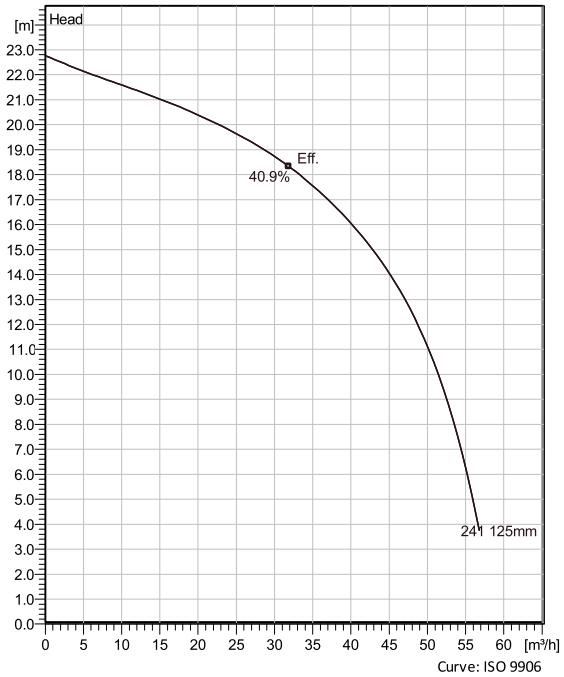
8120.280 Sandy Inox 3~

Our sludge pumps in stainless steel are used for pumping corrosive fluids with solids in harsh environment. The solids can be up to the size of 50 mm. These pumps are designed to meet the tough requirements from mines, construction sites, landfill sites and other applications that deal with corrosive water. One application is in mines where the water becomes caustic and destroys conventional pumps in matter of days. The pumps may also be used in applications where saltwater is pumped, like shipyards, fish farms, construction works in harbours and offshore projects. All INOX pumps can handle pH values from 2 - 10. They can also be equipped with zinc anodes for extra protection.

Technical specification

Curves according to: Water [100%],4 °C,999.9 kg/m³,1.569 mm²/s



Curve: ISO 9906

Configuration

Motor number
D8120.280 19-10-2BB-W 6.3KW

Installation type
S - Portable Semi permanent, Wet

Impeller diameter
125 mm

Discharge diameter
75 mm

Pump information

Impeller diameter
125 mm

Discharge diameter
75 mm

Inlet diameter

Maximum operating speed
2820 rpm

Number of blades
12

Throughlet diameter
46 mm

Materials

Impeller
Stainless steel

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Technical specification

Motor - General

Motor number D8120.280 19-10-2BB-W 6.3KW	**Phases** 3~	**Rated speed** 2820 rpm	**Rated power** 6.3 kW
ATEX approved No	**Number of poles** 2	**Rated current** 12 A	**Stator variant** 5
Frequency 50 Hz	**Rated voltage** 380 V	**Insulation class** H	**Type of Duty** S1

Motor - Technical

Power factor - 1/1 Load 0.90	**Motor efficiency - 1/1 Load** 85.5 %	**Total moment of inertia** 0.0125 kg m²	**Starts per hour max.** 30
Power factor - 3/4 Load 0.88	**Motor efficiency - 3/4 Load** 88.0 %	**Starting current, direct starting** 72 A	
Power factor - 1/2 Load 0.82	**Motor efficiency - 1/2 Load** 90.0 %	**Starting current, star-delta** 24 A	

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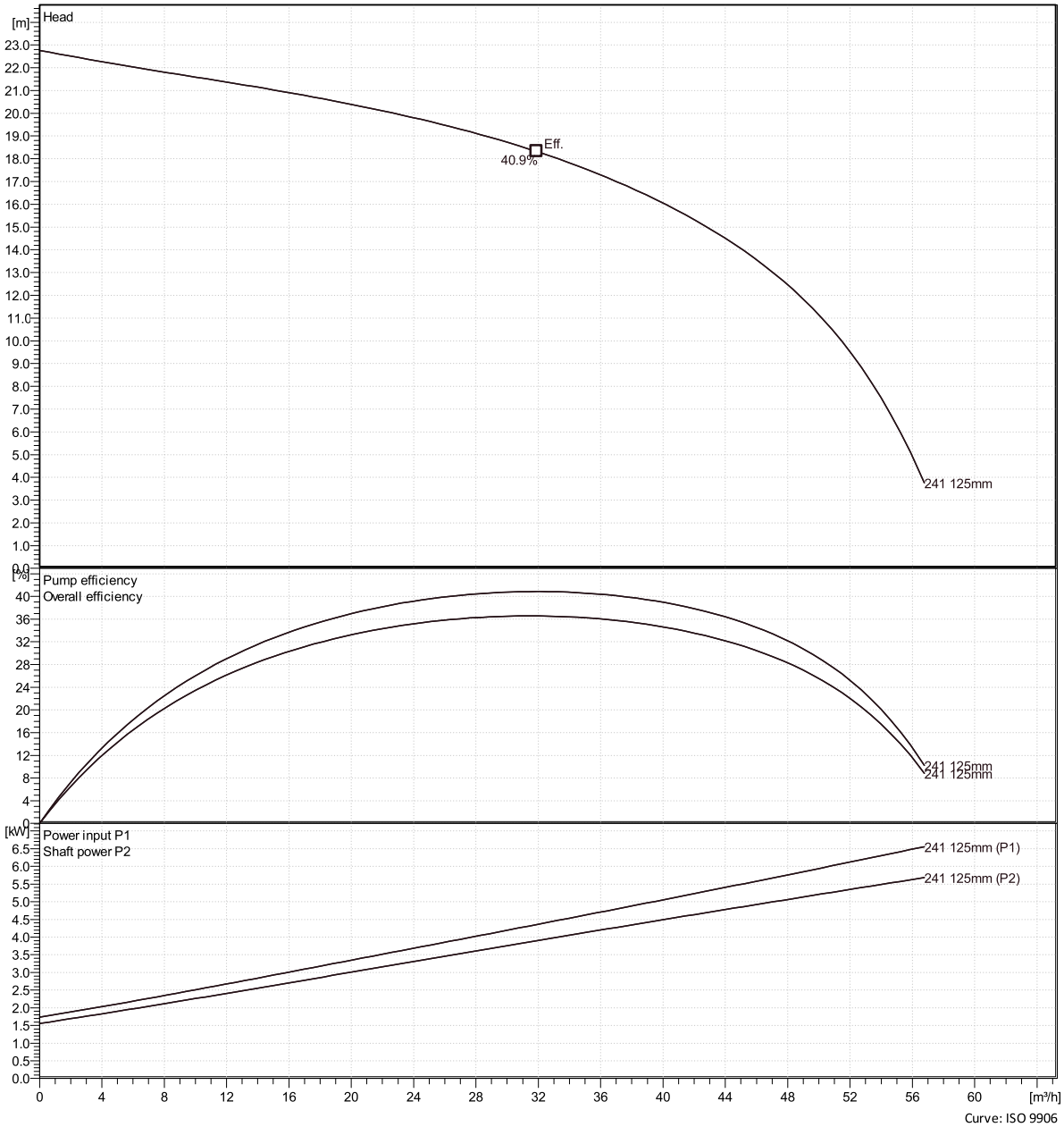
Performance curve

Duty point

Flow	Head

Curves according to: Water [100%],4 °C,999.9 kg/m³,1.569 mm²/s



Curve: ISO 9906

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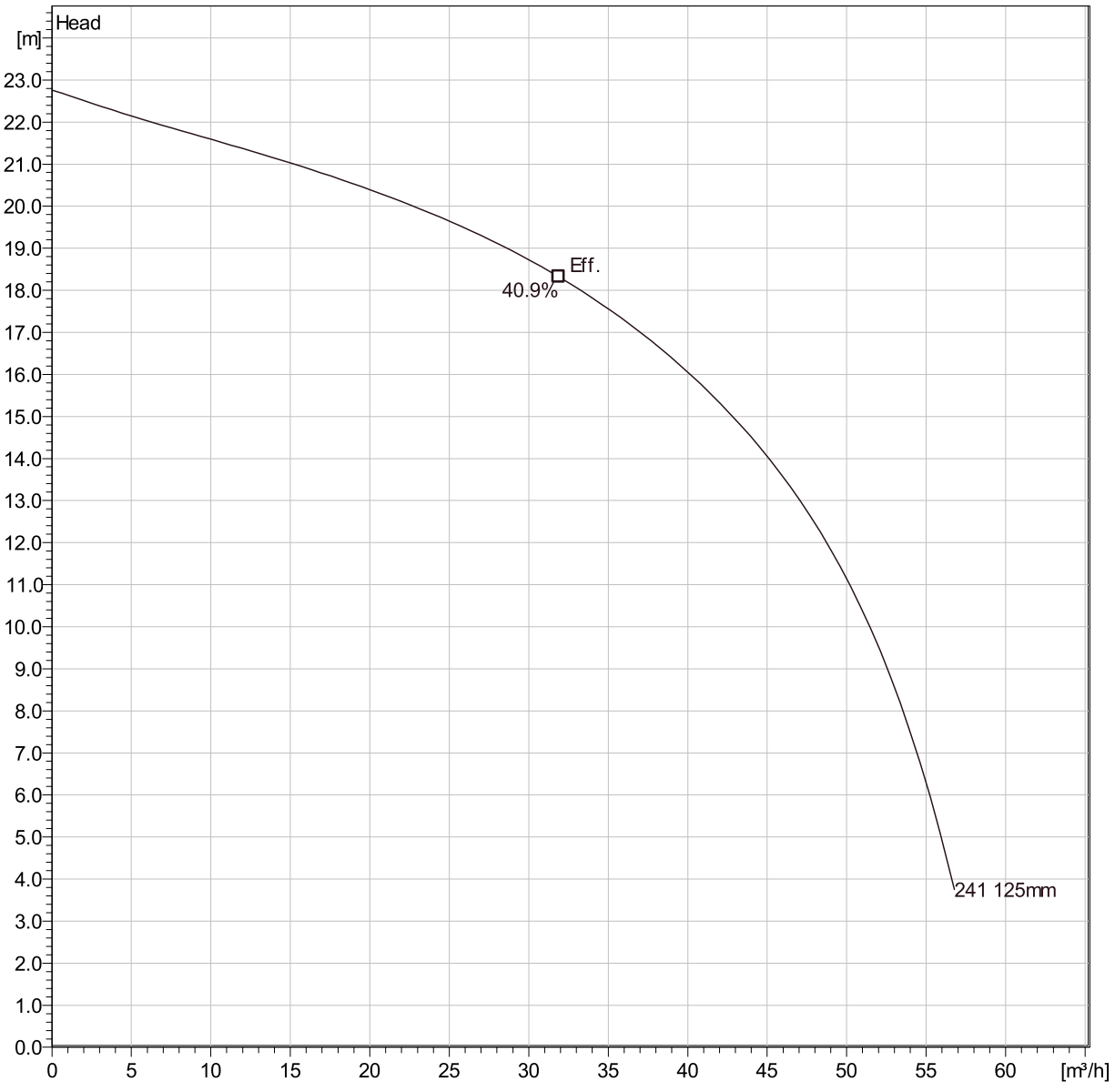
Duty Analysis

Curves according to: Water [100%],4 °C,999.9 kg/m³,1.569 mm²/s



Curve: ISO 9906

Operating characteristics

Pumps/Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHr

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Dimensional drawing

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