

**PERFORMANCE CURVE OF 8HSTD26 @1480 R.P.M**

8HSTD26/X/302154



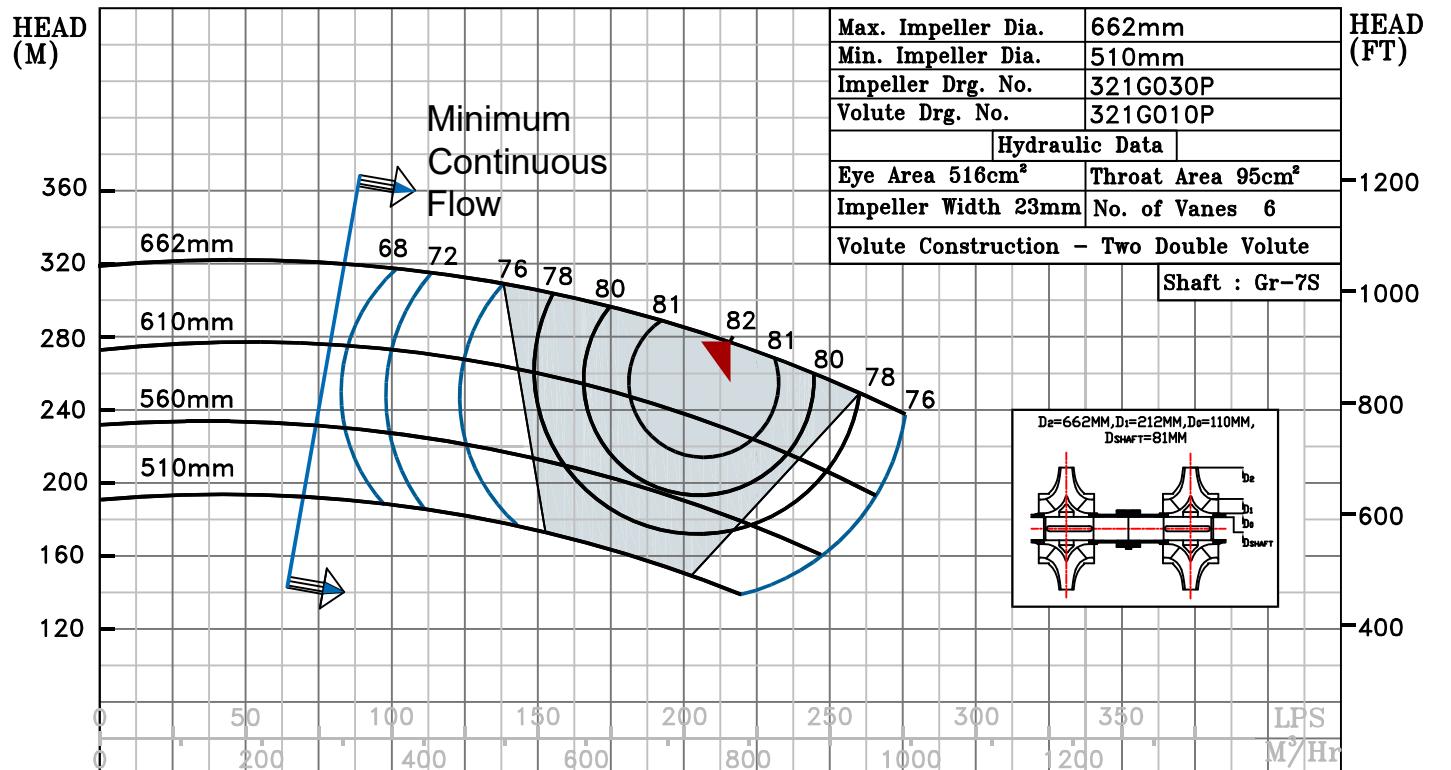
HST RANGE

<b>MODEL 8HSTD26</b>	WORKING PRESS. 35 bar
SIZE 250x200-662	TEST PRESS. 52.5 bar
<b>TYPE-AXIALLY SPLIT CASE TWO STAGE</b>	
<b>SPEED 1480 rpm</b>	

SHADED REGION ON THE H-Q CURVE REPRESENTS OPTIMUM SELECTION ZONE

DATE - 04.10.23

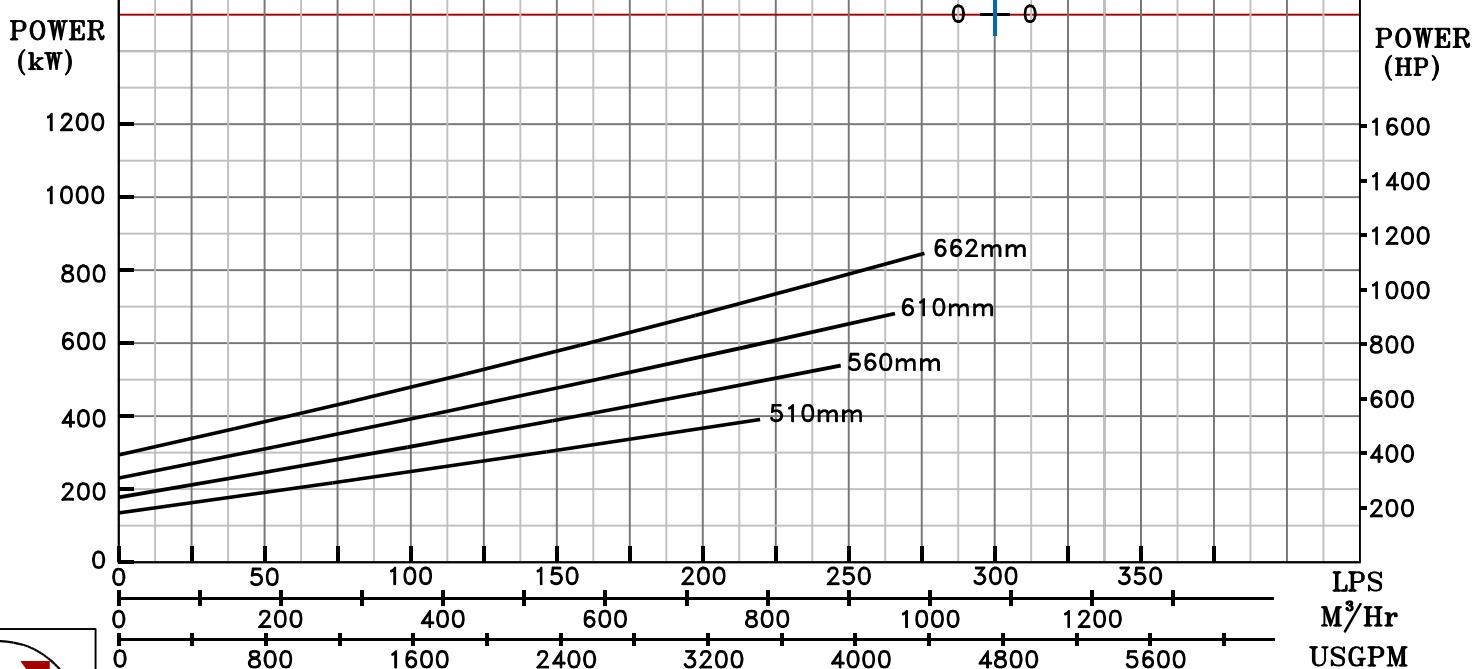
PUMP PERFORMANCE CHARACTERISTICS COMPUTED BASED ON CLEAN COLD WATER S.G 1.0



B.E.P Flow	777 M³/Hr.
B.E.P Head	277.2 M
Speed	1480 R.P.M
Ns : 880 US UNITS	

**NPSHr (M) (FT)**

10  
5  
0



1480 RPM

**PERFORMANCE CURVE OF 8HSTD26 @1780 R.P.M**

8HSTD26/X/302164



**PUMPSENSE**

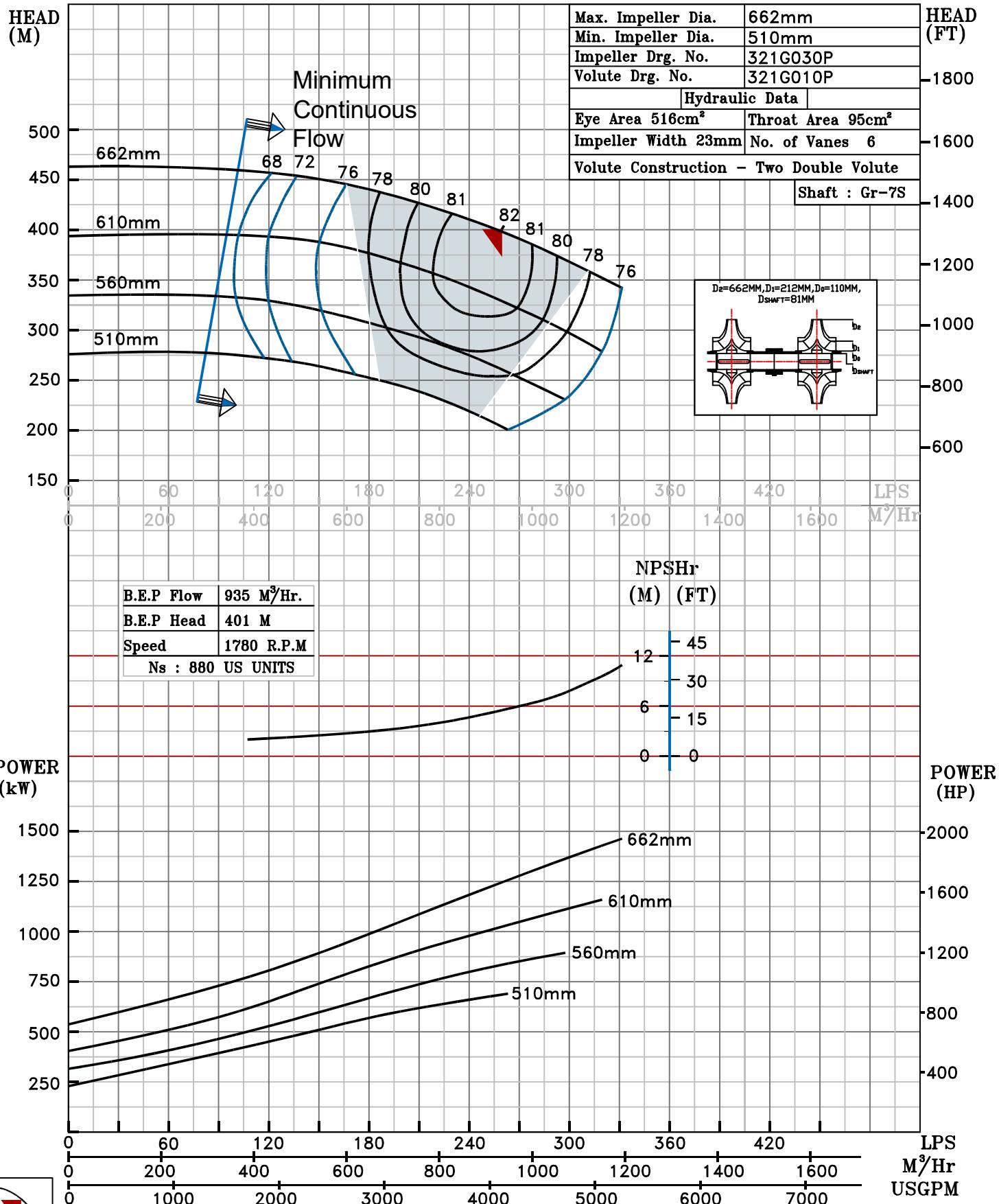
**HST RANGE**

<b>MODEL 8HSTD26</b>	WORKING PRESS. 50 bar
SIZE 250x200-662	TEST PRESS. 75 bar
<b>TYPE-AXIALLY SPLIT CASE TWO STAGE</b>	
<b>SPEED 1780 rpm</b>	

SHADED REGION ON THE H-Q CURVE REPRESENTS OPTIMUM SELECTION ZONE

DATE - 31.10.22

PUMP PERFORMANCE CHARACTERISTICS COMPUTED BASED ON CLEAN COLD WATER S.G 1.0



DRAWING NO.	REV.
321GA11Y	1

GENERAL ARRANGEMENT DRAWING FOR TWO STAGE AXIALLY SPHT-CASE PUMP MODEL - 8HSTD26

DO NOT SCALE, WORK TO DIMENSION  
DEBURN AND REMOVE SHARP EDGES.  
DIMENSIONS IN M.M., EXCEPT WHERE  
OTHERWISE STATED.

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GENERAL ARRANGEMENT DRAWING FOR TWO STAGE AXIALLY SPL-CASE PUMP MODEL = 8HS1226

THOSE WHO WILL NOT GO TO THE CHURCH OF CHRIST WILL NOT GO TO HEAVEN.

This technical cross-sectional diagram illustrates the internal components and dimensions of a pump unit. The vertical height of the pump body is indicated as 1145 mm. The horizontal width at the base is 670 mm. Key dimensions include:

- Vertical distance from the bottom flange to the top of the pump body: 980 mm.
- Vertical distance from the bottom flange to the top of the pump body, including a 200 mm pipe section: 1180 mm.
- Vertical distance from the bottom flange to the top of the pump body, including a 150 mm pipe section: 1330 mm.
- Horizontal distance from the centerline to the right side of the pump body: 30 mm.

The diagram shows the pump's internal structure, including the impeller, shaft, bearings, and various piping connections. A yellow dashed circle highlights a specific area near the right side of the pump body.

This technical cross-sectional diagram illustrates the internal components and dimensions of a pump assembly. The diagram is oriented vertically, with the top labeled 'SUCTION' and the bottom labeled 'DELIVERY'. Key dimensions include:

- Total width: 805 mm
- Delivery pipe diameter: Ø200 mm
- Suction pipe diameter: Ø250 mm
- Delivery pipe height: 580 mm
- Suction pipe height: 480 mm
- Shaft length: 430 mm
- Impeller diameter: 430 mm

Component labels include:

- PG (Pump Guard)
- ODS (Outer Dynamic Seal)
- IDS (Inner Dynamic Seal)
- PG (Pump Guard)

The diagram also shows various mechanical features such as bearings, a central shaft, and a housing structure.

A technical drawing of a rectangular frame divided into a grid of 12 smaller rectangles. The overall width is labeled as 690 and the overall height is labeled as 6120. A vertical dimension line indicates a height of 520 from the bottom to the center of a top row of holes. A horizontal dimension line indicates a width of 241 for the two columns of holes on the right. A callout line points to one of the holes with the text "6 HOLES 227 HOLE AS SHOWN THROUGH". The drawing uses solid lines for outer boundaries and dashed lines for internal grid lines.

VIEW FROM ARROW 'Z'

CONNECTIONS		SIZE(NPT)			
ITEM	DESCRIPTION				
GD	GLAND DRAIN		1"		
CG	COMPOUND GAUGE FOR SUCTION	3/8"			
PG	PRESSURE GAUGE FOR DELIVERY	3/8"			
AC	AIR COCK	3/8"			
PM	PRIMING		1-1/2"		
CDS	CASING DRAIN(SUCTION SIDE)	1/2"			
CDD	CASING DRAIN(DELIVERY SIDE)	1/2"			
NO. OFF.	DESCRIPTION	REF.	MATL.	DRG. NO.	WT. STORE NO.

**PUMPSENSE**

NOTE:  
 1. ALL DIMENSIONS ARE IN MM.  
 2. BARE PUMP WEIGHT APPROX. - 3050 KG.

TITLE—  
 GA DRG. FOR 8HSTD26



PIMPSENSE

# PUMPSENSE FLUID ENGINEERING PVT LTD

Datasheet For: 8HSTD26

	PARAMETERS	UNIT	VALUE
RATED DUTY	Capacity	M <sup>3</sup> /hr	935.0
	Total Head	Mt	401.0
	Speed	RPM	1780
	Type of Pump		Horizontal Two Stage Pump
	Liquid		Clear Water
	Specific Gravity		1
	Temperature	°C	32
	Driver		Diesel Engine
PUMP DETAILS	No. Off		1
	Make		PUMPSENSE
	Model No.		8HSTD26
	Stages		Two Stage
	Cross Over Design		External Cross Over Design
	Discharge	mm	200
	Flange Rating Discharge		PN 63 - BS EN 1092-2
	Suction	mm	250
	Suction Flange Rating		PN 63 - BS EN 1092-2
	Type of Casing		Double Volute
	Type of Impeller		Two Shrouded Double Entry
	Impeller Diameter Max	mm	662
	Impeller Diameter Min	mm	510
PERFORMANCE DETAILS AS RATED DUTY	Rotation		CW
	Efficiency	%	82
	Rated Speed	RPM	1780
	NPSH <sub>r</sub>	Mt	5
	Power Absorbed	kW	1245.9
	Recommended Driver Power	kW	1495
	Driver Details		Diesel Engine @ 1800 RPM
	Closed Valve Head (Approx.)	Mt	464
	Head Rise to Shut-Off Head	%	16
	Working Pressure	Bar	50
MECHANICAL DATA	Test Pressure	Bar	75
	Bare Pump Weight	kg	3050
	Shaft dia. at coupling	mm	94
	N.D.E. Bearing		2 X SKF BECBP 7319
	D.E. Bearing		1 X SKF 6319
	Packing Size		20 x 20 - Soft Packing
MATERIALS OF CONSTRUCTION	Casing		Ductile Iron GGG 50
	External Cross Over		Ductile Iron GGG 50
	Impeller		ASTM A743 Gr CF 8M
	Casing Wear Ring		Leaded Bronze BS 1400 LB2
	Shaft		ASTM A 276/ A 182 Type 410
	Shaft Sleeve & Nuts		Tin Bronze/ Zinc Free Bronze BS 1400 CT1
	Inter Stage Bush		Bronze SAE 660 ASTM B505
	Inter Stage Collar		ASTM A 276 Type 316
	Bearing Bracket		Cast Iron CI FG 260
	Split Gland		Leaded Gunmetal BS 1400 LG2
	Lantern Ring		Leaded Gunmetal BS 1400 LG2
	Stuffing Box		Gland Packed Fitted
	Packing		CARRARA Make Soft Packing Style R 4804
	Fastners		HTS GR. 10.9