



**Oil -Gas**

**OH2**  
**Chemical process pump**  
**Model**  
**FS-ZE40-4400**  
**((4-P26 A/B))**  
**SR. NO. FS-ZE 19811016**

EBARA pumps Europe S.P.A  
SEDE LEGALE  
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PART. IVA IT 01234660221  
R.E.A.N. 124581 TRENTO

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Oil -Gas

**P-26 A/B**

Requested flow rate	10.47 m <sup>3</sup> /h
Requested developed head	108.88 m
Pumped medium	C2, C3
Temperature	39.98 ° C
Fluid density	402.1 kg/m <sup>3</sup>
Fluid viscosity (cP)	0.06
Vapour pressure	32.81 kg/cm <sup>2</sup> a
Suction pressure max.	32.00 kg/cm <sup>2</sup> g
Efficiency	23.00%
Power Absorbed	15
Pump speed of rotation	2900rpm
NPSH required	2m
Discharge press.	35 kg/cm <sup>2</sup> . g
Stuffing box press.	VTA
Shutoff head	125m
Shutoff pressure	37kg/cm <sup>2</sup>
Differential pressure	3 kg/cm <sup>2</sup>
NPSH available	10.16 m
Ratio Q/Q <sub>bep</sub>	95.00%
Max. power on curve	7KW
low for continuous stab	VTA
Suction Flange Size & Rating	DN50 5MPa
Discharge Flange Size & Rating	DN25 5MPa
Shaft seal	As Per API 682
Shaft seal manufacture	EBARA
Sealing plan	API plan 11 (VTC)
Bearing bracket size	No. 3 bearing box
Coupling Manufacturer	EBARA
Coupling type	Diaphragm coupling
Spacer length	140mm
Driver type	Electric Motor
Drive standard mech.	3-phase Electric Motor
Motor const. type	IBM-160M2-2-15
Motor speed	2985
Frequency	50 Hz
Rated voltage	380
Rated power P2	15KW
Type of protection	EEx de IIC T4
Motor enclosure	IP55
Volute casing (102)	Cast Steel
Casing cover (161)	Cast Steel
Shaft (210)	2Cr13
Impeller (230)	Cast Steel

EBARA pumps Europe S.P.A



User Name :	
Device Name :	
4-P26 A/B	Quantity : 1
Equipment Name: Chemical Process Pumps	Pump Manufacturer : Ebara oil-Gas
Pump Model:FS-ZE40-4400	

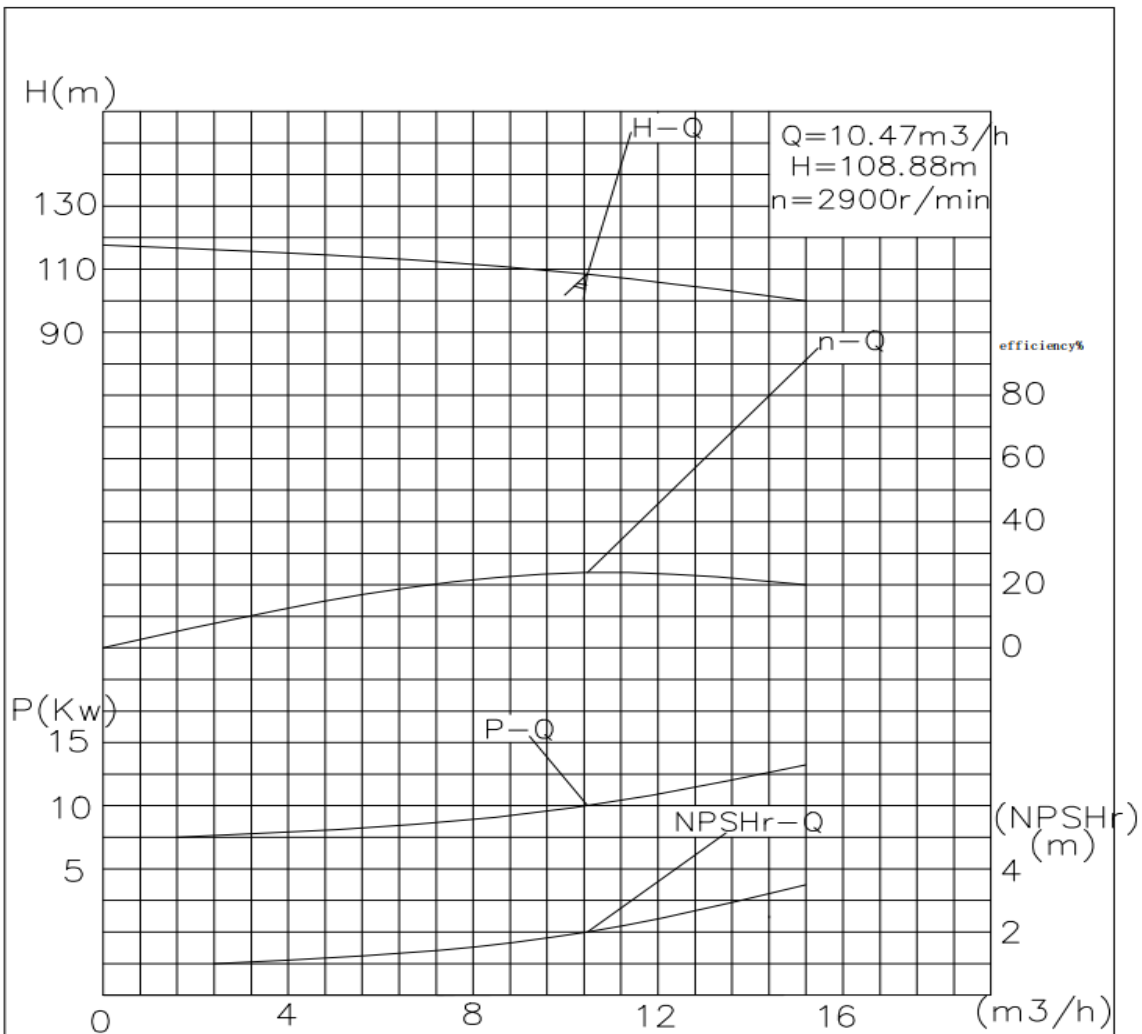
Working Conditions		Material(s)	
Flow rate: 10.47	m3/h	Pump body: Cast steel	Impeller: Cast steel
Inlet gauge pressure: (rated/maximum)	MPa.G	Shaft: 2Cr13	
Outlet gauge pressure:	MPa.G	Mechanical seal flushing plan: PLAN11	
Lift(H, m) 108.8 m	(NPSH)a : 10.16 m	Bearing: SKF	Brand: SKF
Usage : <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> intermittent(Number of starts/per day)		Coupling: 180	
Medium			
Name: C2, C3			
Working temperature: 39.98 °C			
Medium density: 402.1 kg/m3			
Viscosity (CP): 0.06			
H2S (Hydrogen Sulfide) Concentration (PPM)		Medium Characteristics: <input type="checkbox"/> Corrosive <input type="checkbox"/> Abrasive <input type="checkbox"/> Toxic	
Pump performance and structure			
Pump speed of rotation:2985rpm	Efficiency: 23 %	Shaft power: 10kW	
Impeller diameter (rated): 350mm		Impeller diameter (maximum): 400 mm	
Impeller diameter (minimum): 300 mm			
MCSF: 5 m3/h NPSHr: 2 m			
Maximum head at rated diameter: 115 m			
From rated head to shutoff head: 94%		Head ratio (rated/maximum): 96%	
Flow rate (Best Efficiency Point, BEP): 12 m3/h		Flow ratio (rated/BEP): 92 %	
Installation form: <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal			
Impeller form: <input checked="" type="checkbox"/> Closed <input type="checkbox"/> Open <input checked="" type="checkbox"/> Semi-open			
Pump Casing Split: Axial <input checked="" type="checkbox"/> Radial			

Pump casing type: <input checked="" type="checkbox"/> Single volute <input type="checkbox"/> Double volute <input type="checkbox"/> Guide casing (guide vane)							
Flange standard: GB9111.1-2000	caliber mm	Flange pressure rating	Sealing Face Type	Orientation position	Electric Motor		
					Model: <input checked="" type="checkbox"/>	IBM-280S-2-15	
Suction port	80	5MPa	RF	Horizontal	Explosion-Proof High-Voltage Motor		
Discharge port	40	5MPa	RF	Vertical	Rated power: 15kW	Maximum power:	
Drain port	/	/	/	/	Number of Poles: 2	Speed 2985 rpm	Frequency: 50 Hz
Pump casing design pressure: 5 MPa		Pump Casing Hydrostatic Test: 7.5 MPa		Voltage: 380 V		Number of phases : 3 PH	Frequency: 50 Hz
Maximum working pressure: 1.2MP		Maximum permissible suction pressure: 3.8MPa Maximum permissible working pressure: 5MPa		Protection Rating: IP55		Explosion proof grade: BT4	Insulation grade: F
Bearing type: <input type="checkbox"/> Sliding bearing <input checked="" type="checkbox"/> Radial rolling				Incoming line of junction box:		Method:	Number:
Bearing Lubrication: <input checked="" type="checkbox"/> Oil Bath/Grease <input checked="" type="checkbox"/> Oil Slinger							

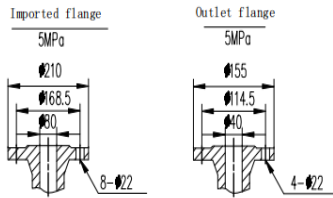
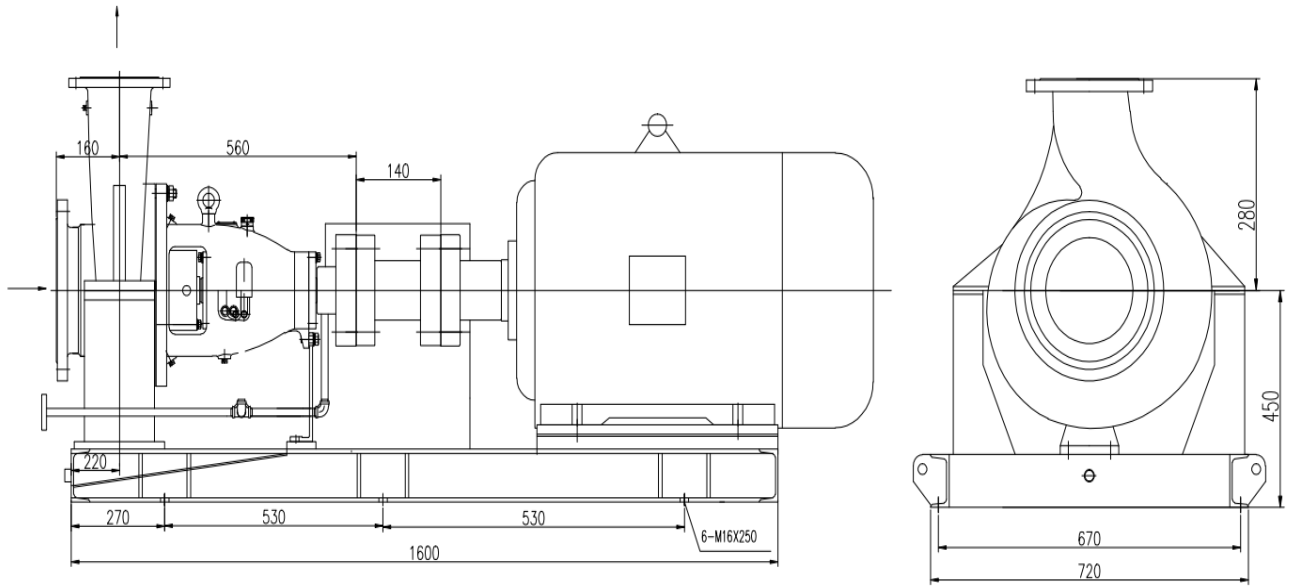


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**Oil - Gas**



P-26 A/B	(OH2) Chemical Process Pump	FS_ZB40-4400	10.47	108.88	2	API610 standard production, mechanical seal meets API682 standard, material: cast steel, cartridge mechanical seal, mechanical seal flushing plan PLAN 11 () SKF bearings, supply scope pump head + base + diaphragm coupling.
	Explosion -proof motor	IBM-280S-2-15	15KW	2985r/min	2	*Drive standard machine: three-phase motor Motor model: IBM-280S-2-15 Motor speed: 2985 Frequency: 50 Hz Rated voltage: 380V Rated power: 15KW Protection level: Ex de IIB T4 Motor protection level: IP55



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