

Centrifugal Pump Datasheet

Customer:	World Energy Paramount World Energy Renewables Project	Sulzer Reference ID:	USA.5539-AME.21.7465-F0			
Project name:		Inquiry Date:				
Inquiry Number/ID:	ANSI PUMPS	Bid Submitted Date:				
Item number:	18-P-1824/25/26/27	Date of Last Update:	2021-11-17 15:58:43			
Service:	Rail Car Unloading Pump	Quantity:	4			
Operating Conditions		Pump Design Data				
Liquid type:	Other	Pump Type:	CPE			
Temperature, Rated / Max:	122.0 deg F / 140 deg F	Product Line:	CPE			
Fluid density, rated / max:	0.903 SG / 0.925 SG	Pump Size / No. of Stages:	CPE 32-6G (8x6x15) O / 1			
Vapor pressure, rated:	1.50 psi.a	Rotation (viewed from drive end):	Clockwise			
Viscosity, rated:	24.90 cP	Impeller type:	Semi-Open			
Consistency:	-	Casing mounting:	Foot			
Air Content:	-	Casing split:	Radial			
Discharge Flow, Rated:	1,925.0 USgpm	Casing Type:	Single volute			
Differential Head, Rated / Actual:	219.5 ft / 220.6 ft	Nozzle	Size	Rating	Face	Position
Suction pressure, rated / max:	-1.00 psi.g / 7.00 psi.g	Suction	NPS 8	150#	RF	End
NPSH Available:	31.1 ft	Discharge	NPS 6	150#	RF	Top
Performance		Lineshaft Diameter:	-			
Performance Curve No.(s):	CPE32-6G_O_1800	Bearing Type, Radial:	Cylindrical roller bearing NUP 317			
Pump speed:	1785 rpm	Lineshaft Bearing / Bowl Bearing (Vert. pumps only):	-			
Frequency:	60 Hz	Bearing Type, Thrust:	2 x Angular contact ball bearing 7315			
Fixed / Variable Speed:	Variable Speed	Bearing lubrication:	Oil bath equipped with oil slinger			
Impeller diameter, rated:	14.70 in	Baseplate type:	304300208 (NR) BASEPLATE PIP, PLAN 62, IEC280SM75			
Impeller diameter, maximum:	15.00 in	Materials				
Impeller diameter, minimum:	11.95 in	API Material Class:	-			
Efficiency:	79.47 %	Barrel / Can:	-			
NPSH (3% head drop):	14.9 ft / 0.0 ft	Case / Bowls:	Duplex CD6MN (ASTM A890 3A)			
Ns / Nss:	1,733 US: Ns (imp. eye flow) / / 10,455 US: Ns (imp. eye flow)	Column:	-			
Head, maximum, rated diameter:	243.2 ft	Discharge Head:	-			
Head rise to shutoff:	10.63 %	Impeller:	Duplex CD6MN (ASTM A890 3A)			
Flow, best eff. point:	2,686.6 USgpm	Case / Impeller Wear Rings:	Duplex CD6MN (ASTM A890 3A)			
Diameter ratio (rated / max):	98.03 %	Shaft:	Duplex 2205 (UNS S32205 / EN1.4462)			
Head ratio (rated dia / max dia):	94.72 %	Diffusers:	-			
Viscous Coefficients (CQ / CH / CE):	0.999102 / 0.999301 / 0.967883	Shaft Sealing, Flush & Cooling Piping Plans				
Pressure Data		Seal Size / Type:	John Crane 5610Q-1			
Maximum Working Pressure:	104.4 psi.g	Seal Manufacturer:	John Crane			
Working Pressure Limit:	263.0 psi.g	Seal Flush Piping, Primary:	Piping Plan 62			
Suction Pressure Limit:	263.0 psi.g	Seal Flush Piping, Secondary:	-			
Hydrostatic Test Pressure (Suction/Discharge):	394.5 psi.g	Cooling Water Piping:	N/A			
Suction pressure, rated / max:	-1.00 psi.g / 7.00 psi.g	Driver & Power Data				
Discharge pressure, rated:	84.80 psi.g	Driver Size:	200 hp			
Differential Pressure, Rated:	85.80 psi	Volts/ Phase / Hz:	460V / 3 / 60 Hz			
Equipment Weights (Approximate)		Service factor:	1.15			
Pump:	805.0 lb	Power, rated:	124 hp			
Driver:	2600 lb	Power, maximum, rated diameter:	157 hp			
Baseplate:	1350 lb	Enclosure:	Severe Duty / IP55			
Total Package	NA					
Accessories						
Driver:	ABB Motor 200HP,1800,447T,TEFC Div 1 group C&D					
Coupling:	Thomas XTSR71 1088					

Comments
1) MAWP @ 190 deg 2) 18-P-1824 Service: Rail Car unloading Common Spare 3) 18-P-1825 Service: Rail Car Spur #6 Unloading Pump 4) 18-P-1826 Service: Rail Car Track #1 Unloading Pump 5) 18-P-1827 Rail Car Track #2 Unloading Pump

- 1) MAWP @ 190 deg
- 2) 18-P-1824 Service: Rail Car unloading Common Spare
- 3) 18-P-1825 Service: Rail Car Spur #6 Unloading Pump
- 4) 18-P-1826 Service: Rail Car Track #1 Unloading Pump
- 5) 18-P-1827 Rail Car Track #2 Unloading Pump