

Pump Performance Datasheet

Customer	: AIR PRODUCTS AND CHEMICALS	Sulzer Reference ID	: USA.5539-AME.21.1857-F0
Inquiry Number/ID	: WEP Renewables - API 610 centrifugal pumps D	Type / Size	: OHH-3x4x8A-1
Item number	: 18-P-1805	Stages	: 1
Service	: T-10003 Recirculating Pump	Based on curve number	: OHH 72-1-1-03 Rev
Quantity	: 1	Date of Last Update	: 29 Jun 2021 18:18

Operating Conditions		Liquid	
Flow, rated	: 300.0 USgpm	Liquid type	: Other
Differential head / pressure, rated (requested)	: 151.0 ft	Additional liquid description	: Treated Feed Off Spec
Suction pressure, rated / max	: -1.20 / 9.60 psi.g	Solids diameter, max	: 0.00 in
NPSH available, rated	: 34.4 ft	Solids concentration, by volume	: 0.00 %
Site Supply Frequency	: 60 Hz	Temperature, rated / max	: 120.0 / 200.0 deg F
Performance		Fluid density, rated / max	: 0.900 / 0.900 SG
Speed criteria	: Synchronous	Viscosity, rated	: 26.20 cP
Speed, rated	: 3520 rpm	Vapor pressure, rated	: 0.34 psi.a
Impeller diameter, rated	: 6.77 in	Material	
Impeller diameter, maximum	: 8.20 in	Material selected	: API A-8
Impeller diameter, minimum	: 6.50 in	Pressure Data	
Efficiency	: 54.4 %	Maximum casing/bowl working pressure	: 84.63 psi.g
NPSH (3% head drop) / margin required	: 10.4 / 0.0 ft	Maximum allowable working pressure	: 580.2 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,253 / 10,165 US Units	Maximum allowable suction pressure	: 505.1 psi.g
MCSF	: 107.4 USgpm	Hydrostatic test pressure	: 870.2 psi.g
Head, maximum, rated diameter	: 192.6 ft	Driver & Power Data (@Max density)	
Head rise to shutoff	: 27.58 %	Driver sizing specification	: API 610 / ISO 13709
Flow, best eff. point	: 317.1 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 94.62 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 82.57 %	Power, hydraulic	: 10.3 hp
Head ratio (rated dia / max dia)	: 59.54 %	Power, rated	: 18.9 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 0.99 / 0.99 / 0.89 / 1.00	Power, maximum, rated diameter	: 19.3 hp
Selection status	: Acceptable	Minimum recommended motor rating	: 25.0 hp / 18.6 kW

