

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-2x3x7.5A-1
Item number	: 18-P-355A/B	Stages	: 1
Service	: Stripper Reflux Pump	Based on curve number	: OHH 52-1-1-11
Quantity	: 2	Date of Last Update	: 07 Jun 2021 10:51

Operating Conditions		Liquid	
Flow, rated	: 131.3 USgpm	Liquid type	: Other
Differential head / pressure, rated (requested)	: 201.1 ft	Additional liquid description	: Stripper Reflux
Suction pressure, rated / max	: 24.60 / 106.2 psi.g	Solids diameter, max	: 0.00 in
NPSH available, rated	: 14.4 ft	Solids concentration, by volume	: 0.00 %
Site Supply Frequency	: 60 Hz	Temperature, rated / max	: 110.0 / 160.0 deg F
Performance		Fluid density, rated / max	: 0.643 / 0.665 SG
Speed criteria	: Synchronous	Viscosity, rated	: 0.44 cP
Speed, rated	: 3520 rpm	Vapor pressure, rated	: 35.20 psi.a
Impeller diameter, rated	: 7.24 in	Material	
Impeller diameter, maximum	: 7.50 in	Material selected	: API S-8
Impeller diameter, minimum	: 4.50 in	Pressure Data	
Efficiency	: 47.6 %	Maximum casing/bowl working pressure	: 170.3 psi.g
NPSH (3% head drop) / margin required	: 5.9 / 0.0 ft	Maximum allowable working pressure	: 705.2 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 847 / 10,410 US Units	Maximum allowable suction pressure	: 641.1 psi.g
MCSF	: 32.56 USgpm	Hydrostatic test pressure	: 1,057.8 psi.g
Head, maximum, rated diameter	: 222.6 ft	Driver & Power Data (@Max density)	
Head rise to shutoff	: 10.75 %	Driver sizing specification	: API 610 / ISO 13709
Flow, best eff. point	: 160.3 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 81.89 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 96.59 %	Power, hydraulic	: 4.4 hp
Head ratio (rated dia / max dia)	: 90.68 %	Power, rated	: 9.3 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, maximum, rated diameter	: 11.3 hp
Selection status	: Acceptable	Minimum recommended motor rating	: 15.0 hp / 11.2 kW

