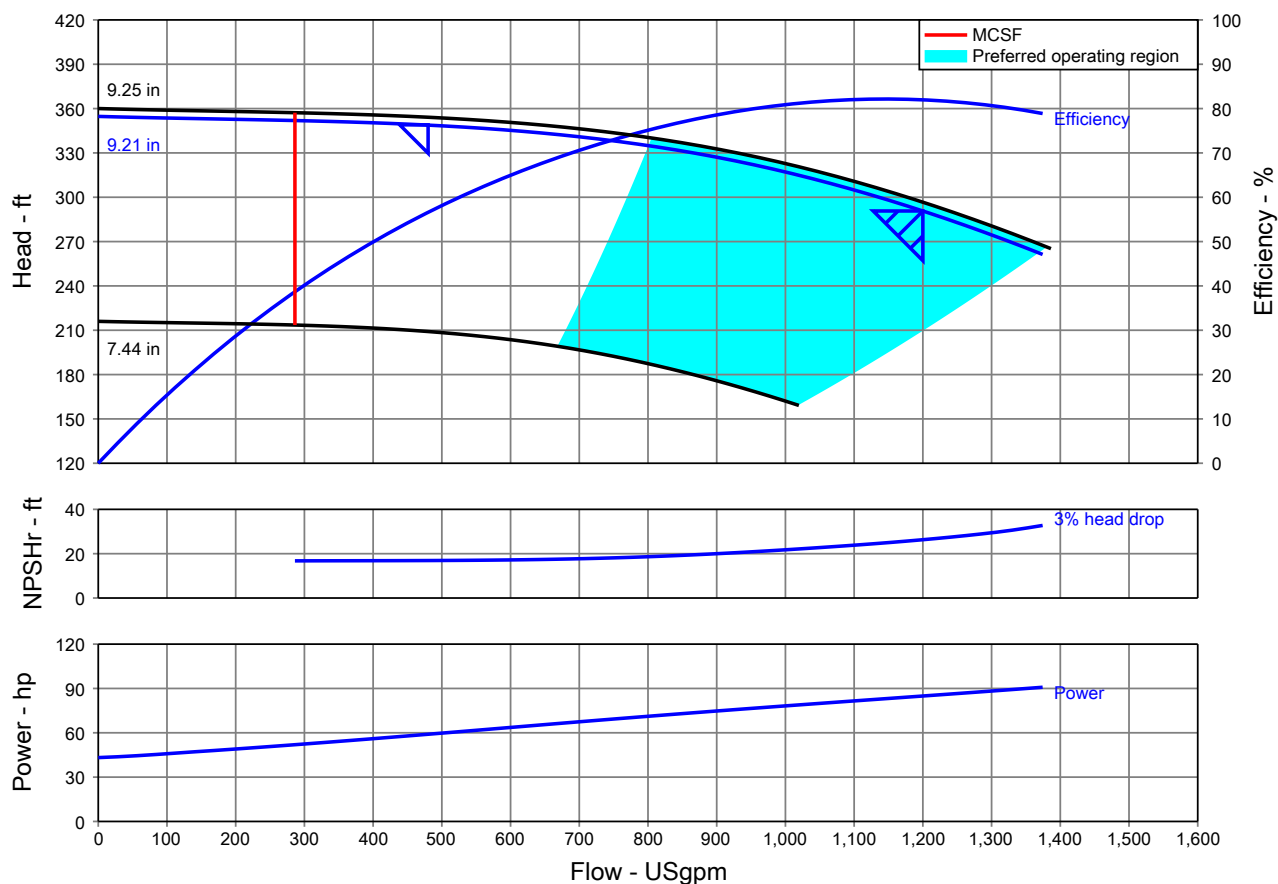


Pump Performance Datasheet

Customer	: AIR PRODUCTS AND CHEMICALS	Sulzer Reference ID	: USA.5539-AME.22.7766-F0
Inquiry Number/ID	: WEP Renewables - API 610 Centrifugal Pumps F	Type / Size	: OHH-4x6x9-1
Item number	: 18-P-1880 A/B_Rev. C1	Stages	: 1
Service	: Diesel Product Loading Pumps	Based on curve number	: OHH 37-1-1-02
Quantity	: 2	Date of Last Update	: 21 Sep 2022 8:10 PM

Operating Conditions		Liquid	
Flow, rated	: 1,200.0 USgpm	Liquid type	: Other
Differential head / pressure, rated (requested)	: 290.7 ft	Additional liquid description	: Renewable Diesel
Suction pressure, rated / max	: -2.20 / 19.00 psi.g △	Solids diameter, max	: 0.00 in
NPSH available, rated	: 36.7 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	: 0.790 / 0.790 SG
Speed criteria	: Synchronous	Viscosity, rated	: 2.70 cP
Speed, rated	: 3550 rpm	Vapor pressure, rated	: 0.01 psi.a
Impeller diameter, rated	: 9.21 in	Material	
Impeller diameter, maximum	: 9.25 in	Material selected	: API S-6
Impeller diameter, minimum	: 7.44 in	Pressure Data	
Efficiency	: 82.0 %	Maximum casing/bowl working pressure	: 140.3 psi.g
NPSH (3% head drop) / margin required	: 26.3 / 0.0 ft	Maximum allowable working pressure	: 705.2 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,654 / 10,768 US Units	Maximum allowable suction pressure	: 583.9 psi.g
MCSF	: 286.2 USgpm	Hydrostatic test pressure	: 1,057.8 psi.g
Head, maximum, rated diameter	: 354.7 ft	Driver & Power Data (@Max density)	
Head rise to shutoff	: 22.02 %	Driver sizing specification	: Maximum power
Flow, best eff. point	: 1,145.4 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 104.77 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 99.57 %	Power, hydraulic	: 69.59 hp
Head ratio (rated dia / max dia)	: 97.99 %	Power, rated	: 84.89 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, maximum, rated diameter	: 90.81 hp
		Minimum recommended motor rating	: 100 hp / 74.57 kW



Test tolerances as per API 610 11th edition and A8KM-PP-000-50626-A △