

## Pump Performance Datasheet

Customer	:	Sulzer Reference ID	: P-B100
Inquiry Number/ID	:	Type / Size	: CPT 21-3 (4x3x8A) (O)
Item number	: Default	Stages	: 1
Service	: Biodiesel Loadout pump	Based on curve number	: K17574 Rev 1
Quantity	: 1	Date of Last Update	: 06/01/2015 9:10 PM

Operating Conditions		Liquid	
Flow, rated	: 413.0 USgpm	Liquid type	: Water
Differential head / pressure, rated (requested)	: 107.5 ft	Additional liquid description	:
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids diameter, max	: 0.00 in
NPSH available, rated	: Ample	Solids concentration, by volume	: 0.00 %
Frequency	: 60 Hz	Temperature, rated / max	: 68.00 / 68.00 deg F
Performance		Fluid density, rated / max	: 0.802 / 0.876 SG
Speed, rated	: 3,550 rpm	Viscosity, rated	: 1.00 cP
Impeller diameter, rated	: 6.50 in	Vapor pressure, rated	: 0.34 psi.a
Impeller diameter, maximum	: 8.50 in	Material	
Impeller diameter, minimum	: 5.50 in	Material selected	: 41 / J0265 ASTM A890 3A - Duplex SS
Efficiency	: 71.57 %	Pressure Data	
NPSH (3% head drop) / margin required	: 16.43 / 0.00 ft	Maximum casing/bowl working pressure	: 58.17 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 28 / 139 Metric units	Maximum allowable working pressure	: 290.0 psi.g
MCSF	: 34.11 USgpm	Maximum allowable suction pressure	: 290.1 psi.g
Head, maximum, rated diameter	: 153.4 ft	Hydrostatic test pressure	: 435.1 psi.g
Head rise to shutoff	: 42.08 %	Driver & Power Data	
Flow, best eff. point (BEP)	: 413.3 USgpm	Driver sizing specification	: Rated power
Flow ratio (rated / BEP)	: 99.92 %	Margin over specification	: 0.00 %
Diameter ratio (rated / max)	: 76.47 %	Service factor	: 1.00
Head ratio (rated dia / max dia)	: 40.74 %	Power, hydraulic	: 9.82 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, rated	: 13.73 hp
Selection status	: Acceptable	Power, maximum, rated diameter	: 14.09 hp
		Minimum recommended motor rating	: 20.00 hp / 14.91 kW

