

Pump Performance Datasheet

Customer	:	Sulzer Reference ID	:
Inquiry Number/ID	:	Type / Size	: CPT 22-1 (2x1x10) (LF)
Item number	: Default	Stages	: 1
Service	:	Based on curve number	: K60522 Rev 3
Quantity	: 1	Date of Last Update	: 05/02/2016 11:55 PM

Operating Conditions		Liquid	
Flow, rated	: 31.59 USgpm	Liquid type	: Water
Differential head / pressure, rated (requested)	: 92.29 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		Material	
Speed, rated	: 1770 rpm	Fluid density, rated / max	: 1.000 / 1.000 SG
Impeller diameter, rated	: 9.13 in	Viscosity, rated	: 1.00 cP
Impeller diameter, maximum	: 10.00 in	Vapor pressure, rated	: 0.34 psi.a
Impeller diameter, minimum	: 7.00 in	Material	
Efficiency	: 21.93 %	Material selected	: 41 / J0265 ASTM A890 3A - Duplex SS
NPSH (3% head drop) / margin required	: 6.48 / 0.00 ft	Pressure Data	
nq (imp. eye flow) / S (imp. eye flow)	: 6 / 45 Metric units	Maximum casing/bowl working pressure	: 47.56 psi.g
MCSF	: 5.10 USgpm	Maximum allowable working pressure	: 289.9 psi.g
Head, maximum, rated diameter	: 109.9 ft	Maximum allowable suction pressure	: N/A
Head rise to shutoff	: 19.09 %	Hydrostatic test pressure	: 435.1 psi.g
Flow, best eff. point	: 31.59 USgpm	Driver & Power Data	
Flow ratio, rated / BEP	: 100.00 %	Driver sizing specification	: Rated power
Diameter ratio (rated / max)	: 91.25 %	Margin over specification	: 0.00 %
Head ratio (rated dia / max dia)	: 75.32 %	Service factor	: 1.00
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, hydraulic	: 0.74 hp
Selection status	: Acceptable	Power, rated	: 3.36 hp
		Power, maximum, rated diameter	: 3.47 hp
		Minimum recommended motor rating	: 5.00 hp / 3.73 kW

