

Pump Performance Datasheet

Customer	: Stuart Group	Quote number	: 204983
Customer enquiry	: Kirlokar Replacement Pump	Size	: DSM 125/40
Item number	: 15-069	Stages	: 2
Usage - Tertiary	:	Based on curve number	: HA17290017 Rev 0
Quantity	: 1	Date last saved	: 02 Apr 2015 3:57 PM

Operating Conditions		Liquid	
Flow, rated	: 228.9 m3/h	Liquid type	: User Defined Liquid
Differential head / pressure, rated (requested)	: 170.0 m	Additional liquid description	:
Differential head / pressure, rated (actual)	: 171.5 m	Solids diameter, max	: 0.00 mm
Suction pressure, rated / max	: 0.00 / 0.00 bar.g	Solids/Bagasse/Stock consistency by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 20.00 deg C
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 kg/dm3
Performance		Viscosity, rated	: 1.00 cSt
Speed, rated	: 1,785 rpm	Vapor pressure, rated	: 0.02 bar.a
Impeller diameter, rated (approx.)	: 410 mm	Material	
Impeller diameter, maximum	: 410 mm	Material selected	: 01 MOC-CI260(012)/CI260(012)/CS 40C8(053)
Impeller diameter, minimum	: 310 mm	Pressure Data	
Efficiency	: 76 %	Maximum working pressure	: 17.83 bar.g
NPSH required / margin required	: 4.09 / 0.50 m	Maximum allowable working pressure	: 20.09 bar.g
nq (imp. eye flow) / S (imp. eye flow)	: 18 / 144 Metric units	Maximum allowable suction pressure	: 1.96 bar.g
Minimum Continuous Safe Flow (MCSF)	: 73.86 m3/h	Hydrostatic test pressure	: 23.54 bar.g
Head, maximum, rated diameter (approx.)	: 181.8 m	Driver & Power Data	
Head rise to shutoff (approx.)	: 6.01 %	Driver sizing specification	: Maximum power
Flow, best eff. point (BEP)	: 281.7 m3/h	Margin over specification	: 0.00 %
Flow ratio (rated / BEP)	: 81.25 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 100.00 %	Power, hydraulic	: 107 kW
Head ratio (rated dia / max dia)	: 100.00 %	Power, rated	: 140 kW
Cq/Ch/Ce/Cn [HI2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, maximum, rated diameter	: 249 kW
Selection status	: Acceptable	Minimum recommended motor rating	: 250 kW / 335 hp

