

Pump Performance Datasheet



Company Name	2M COMPANY INC OR CLACKAMAS SHIP [185978]
Company contact number	
Quote Number	2145195
Project name	Default

Model/Order No.	475 GPM 8" 75 HP SS SR Sub-Turbine
Stages	7
Quantity of pumps in parallel	1
Based on curve number	475SR60F86-0786
Saved Date	10 Jan 2025 6:37 PM

Operating Conditions

Flow, rated	: 500.0 USgpm
Head, rated (requested)	: 435.0 ft
Head, rated (actual)	: 437.3 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed	: 3450 rpm
Impeller dia.	: 8.00 in
Impeller diameter, maximum	: 8.00 in
Impeller diameter, minimum	: 8.00 in
Efficiency	: 79.98 %
PEI (CL)	: 0.00
NPSH required / margin required	: 19.35 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 3,450 / 8,394 US Units
MCSF	: 348.2 USgpm
Head max.	: 726.6 ft
Head rise to shutoff	: 65.46 %
Flow, best eff. point	: 497.5 USgpm
Flow ratio, rated / BEP	: 100.50 %
Diameter ratio (rated / max)	: 100.00 %
Head ratio (rated dia / max dia)	: 100.00 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids concentration, by volume	: 0.00 %
Temperature	: 68.00 deg F
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

Material

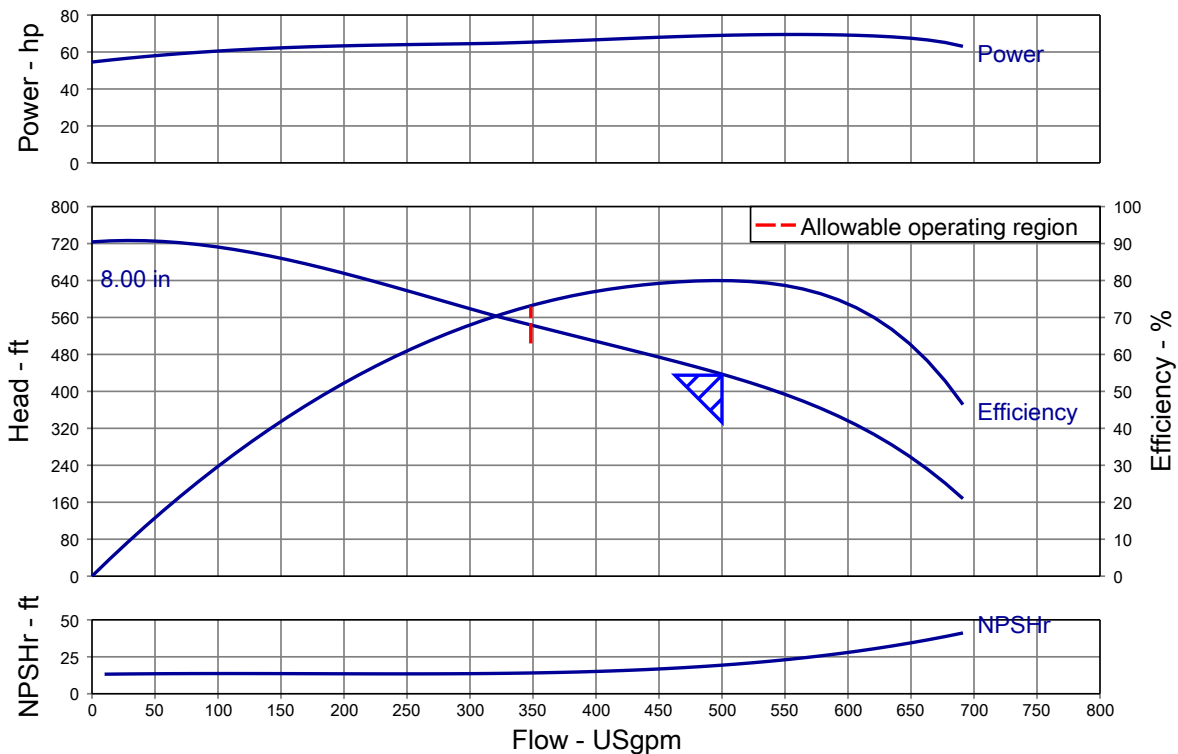
Material selected	: Standard
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Pressure Data

Shut off pressure	: 314.4 psi.g
Maximum allowable working pressure	: N/A
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.15 (used)
Power, hydraulic	: 55.20 hp
Power, rated	: 69.02 hp
Power, maximum	: 69.49 hp
Motor rating	: 75.00 hp / 55.93 kW (Fixed)

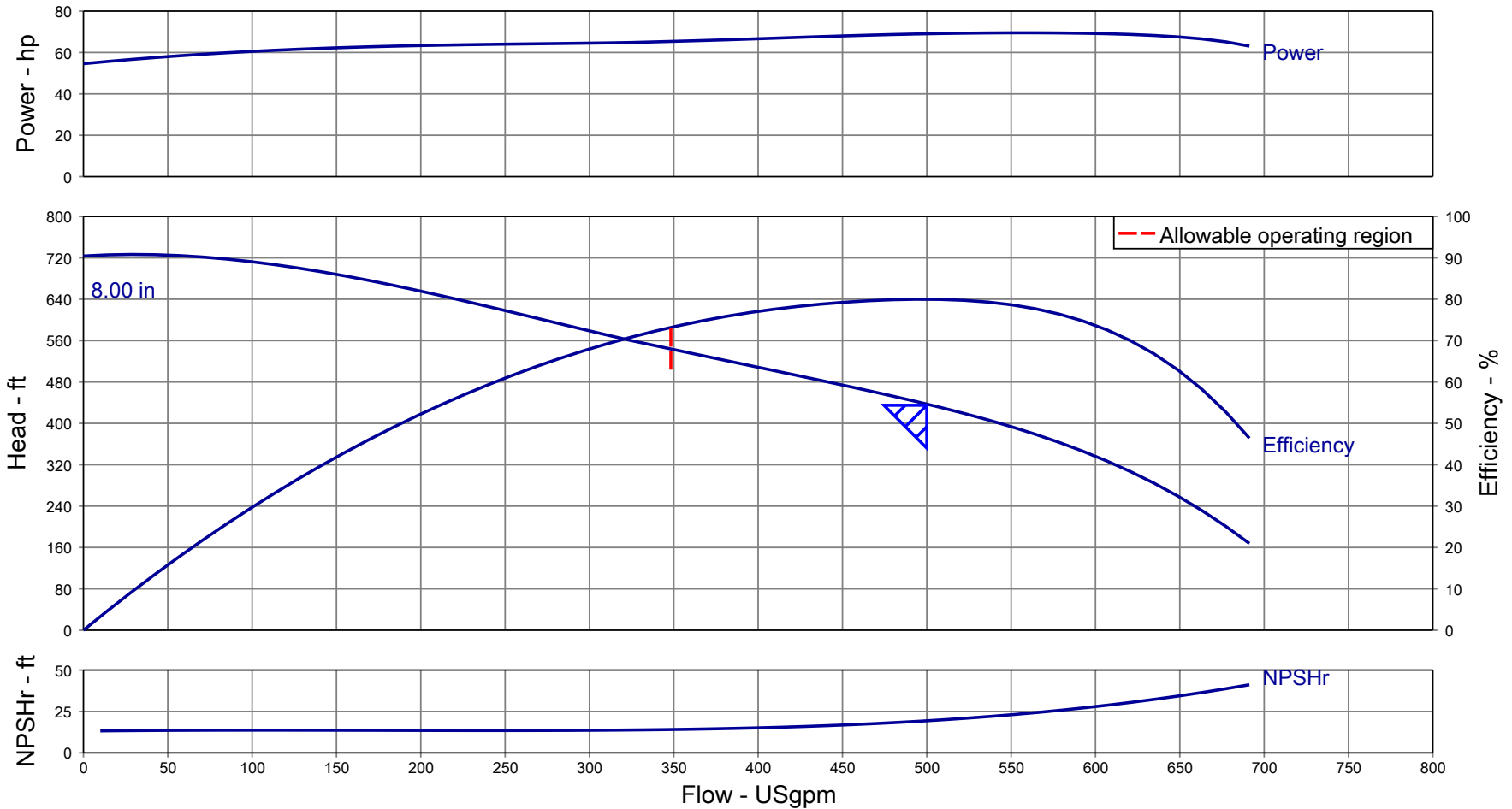


Pump Performance Curve



Company Name	2M COMPANY INC OR CLACKAMAS SHIP [185978]
Company contact number	

Quote Number	2145195
Quote Date	27 Jan 2024
Project name	Default



Description	: 475 GPM 8" 75 HP SS SR Sub-Turbine
Stages	: 7
Flow, rated	: 500.0 USgpm
Head, rated	: 435.0 ft

Speed	: 3450 rpm
Based on curve number	: 475SR60F86-0786
Efficiency	: 79.98 %
Power, rated	: 69.02 hp

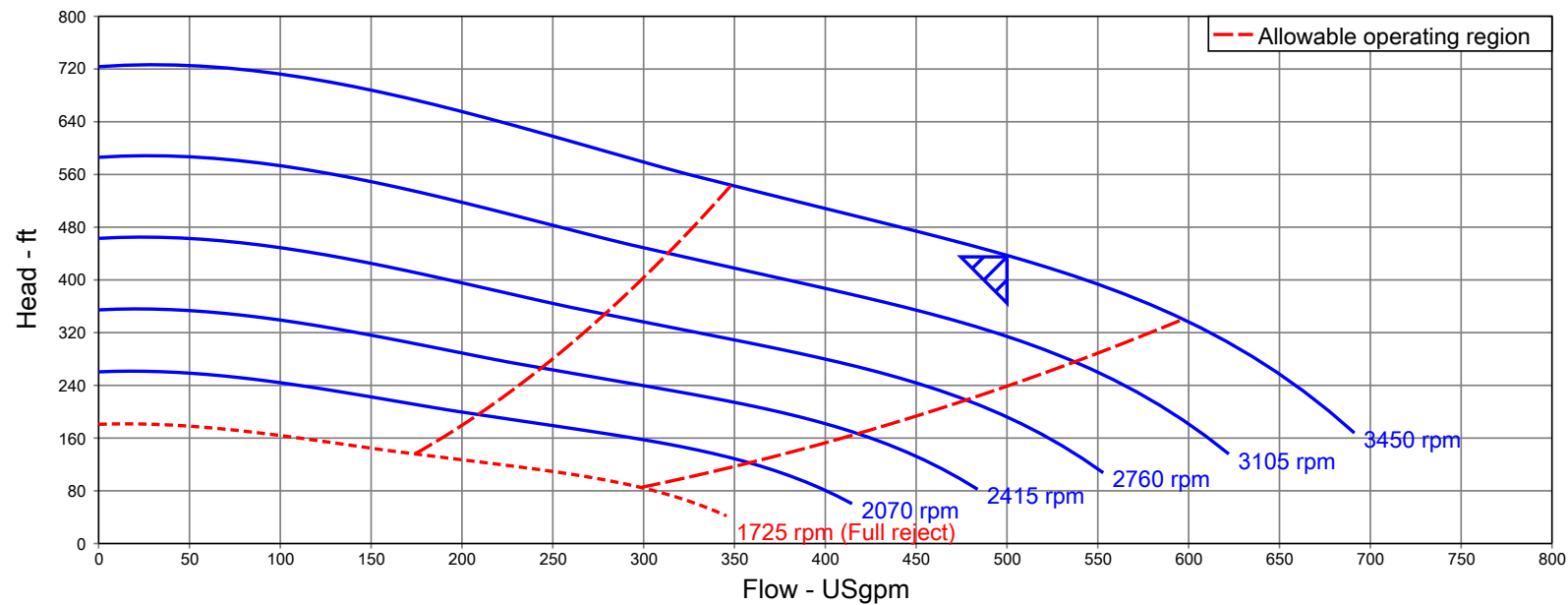
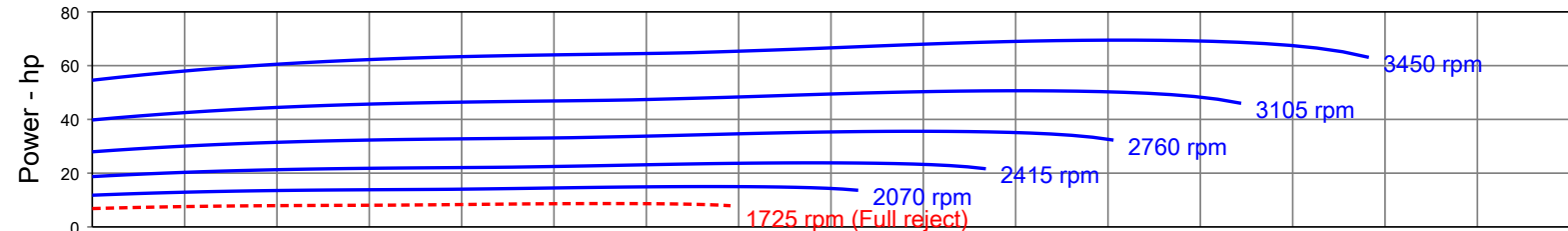
NPSH required	: 19.35 ft
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
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Multi-Speed Performance Curve



Company Name	2M COMPANY INC OR CLACKAMAS SHIP [185978]
Company contact number	

Quote Number	2145195
Quote Date	27 Jan 2024
Project name	Default



Description	: 475 GPM 8" 75 HP SS SR Sub-Turbine
Stages	: 7
Flow, rated	: 500.0 USgpm
Head, rated	: 435.0 ft

Speed	: 3450 rpm
Based on curve number	: 475SR60F86-0786
Efficiency	: 79.98 %
Power, rated	: 69.02 hp
Impeller dia.	: 8.00 in

NPSH required	: 19.35 ft
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
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