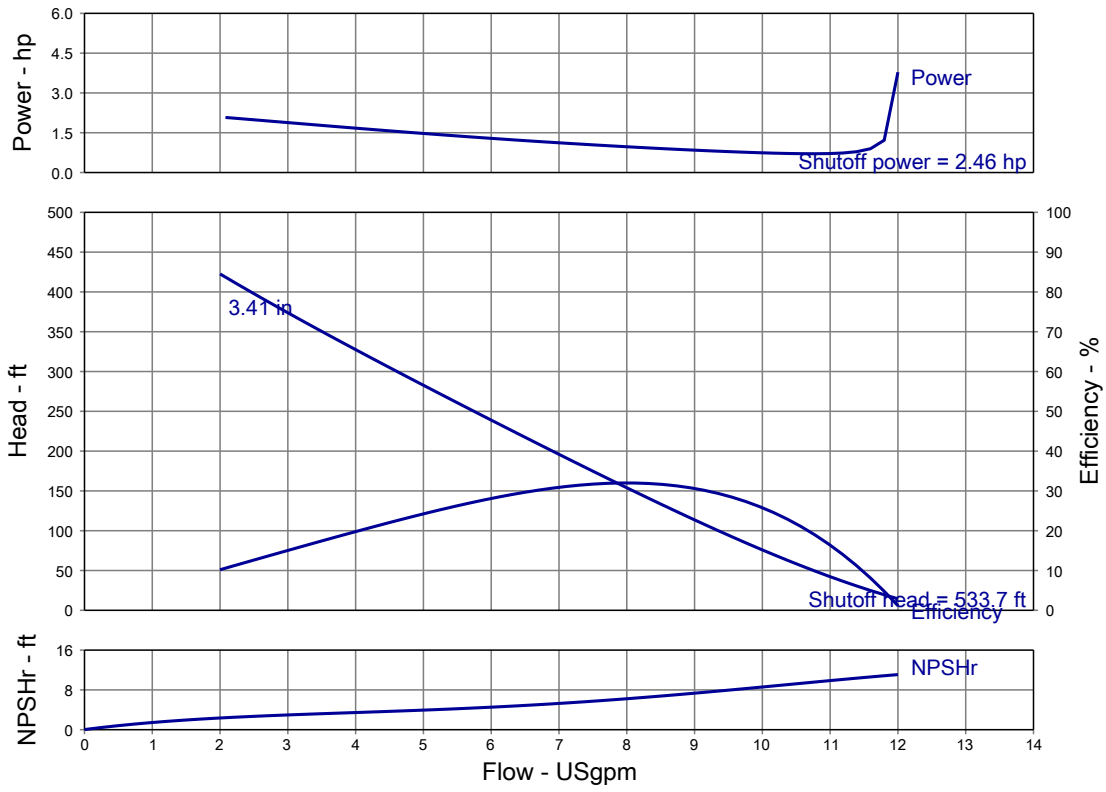
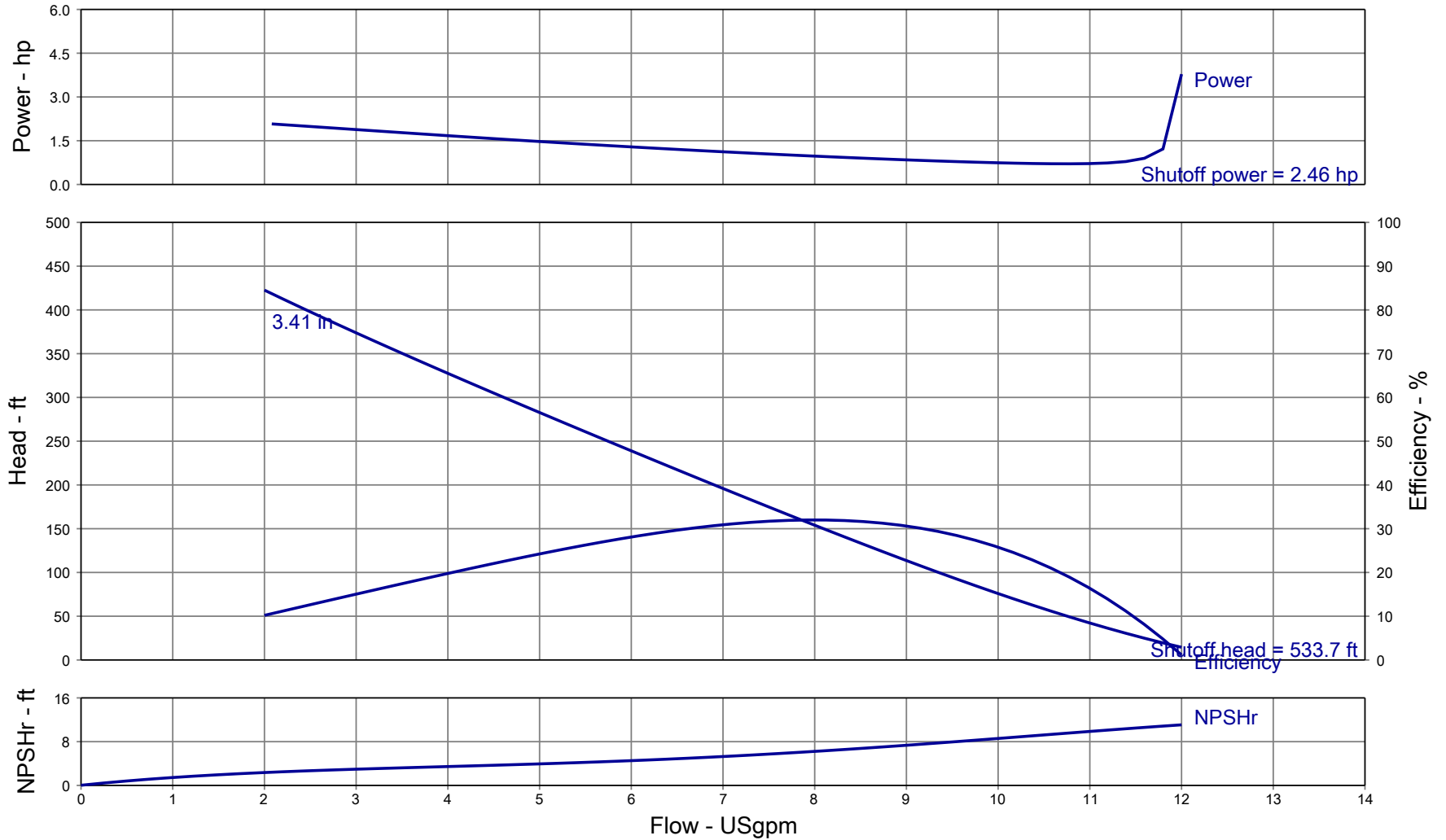




Item number	: 001	Size	: C-4 2P
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: C-4 2P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 9:59 PM

Operating Conditions		Liquid	
Flow, rated	: 8.00 USgpm	Liquid type	: Water
Head, rated (requested)	: 154.0 ft	Additional liquid description	:
Head, rated (actual)	: 154.0 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 3500 rpm	Material	
Impeller dia.	: 3.41 in	Material selected	: Standard
Impeller diameter, maximum	: 3.41 in	Pressure Data	
Impeller diameter, minimum	: 3.41 in	Maximum working pressure	: 182.9 psi.g
Efficiency	: 32.00 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 13.65 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 6.22 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 226 / 2,513 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 422.6 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 246.66 %	Service factor	: 1.00
Flow, best eff. point	: 8.00 USgpm	Power, hydraulic	: 0.31 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 0.97 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 3.78 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 1.00 hp / 0.75 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		





Item number	: 001	Size	: C-4 2P	Flow, rated	: 8.00 USgpm
Service	:	Stages	: 1	Head, rated	: 154.0 ft
Quantity	: 1	Speed	: 3500 rpm	NPSH required	: 6.22 ft
Quote number	: 25068	Based on curve number	: C-4 2P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 9:59 PM	Efficiency	: 32.00 %	Viscosity	: 1.00 cP
		Power, rated	: 0.97 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: C-4TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: C-4 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:04 PM

Operating Conditions

Flow, rated	: 4.69 USgpm
Head, rated (requested)	: 83.95 ft
Head, rated (actual)	: 83.95 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed	: 1750 rpm
Impeller dia.	: 3.41 in
Impeller diameter, maximum	: 3.41 in
Impeller diameter, minimum	: 3.41 in
Efficiency	: 43.37 %
True Weighted Efficiency	: 16.54 %
NPSH required / margin required	: 2.25 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 230 / 2,064 US Units
MCSF	: -
Head max.	: 252.7 ft
Head rise to shutoff	: 257.29 %
Flow, best eff. point	: 4.69 USgpm
Flow ratio, rated / BEP	: 100.00 %
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

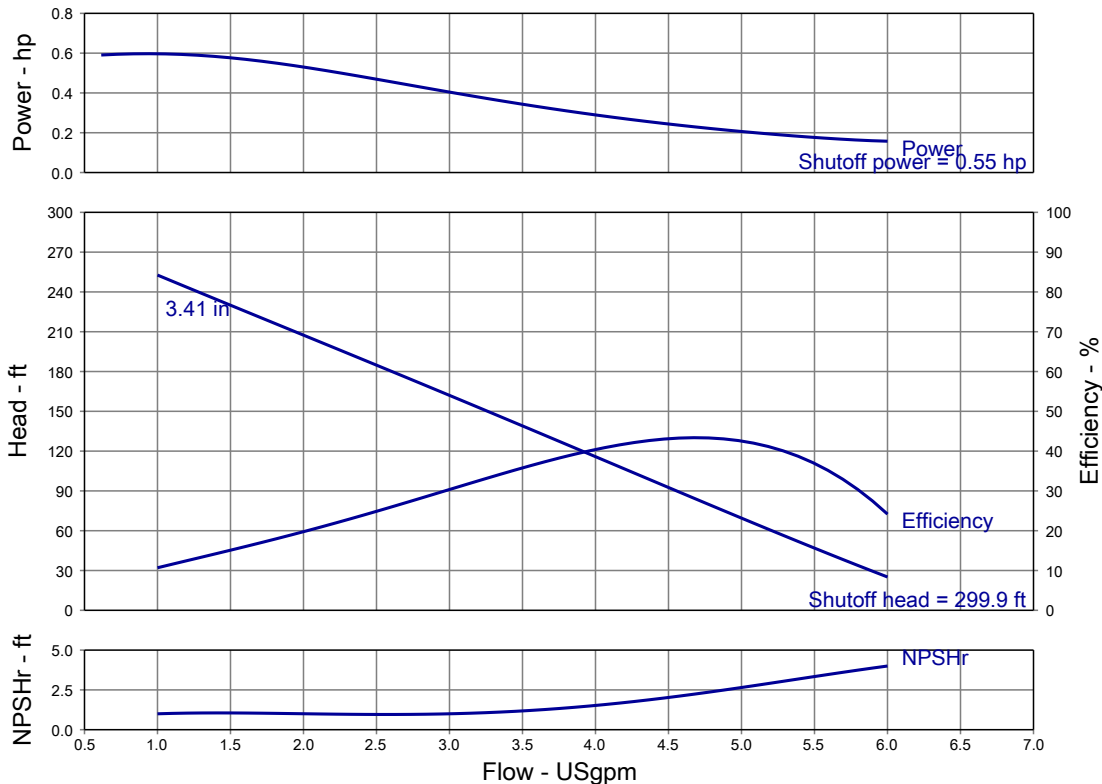
Material selected	: Standard
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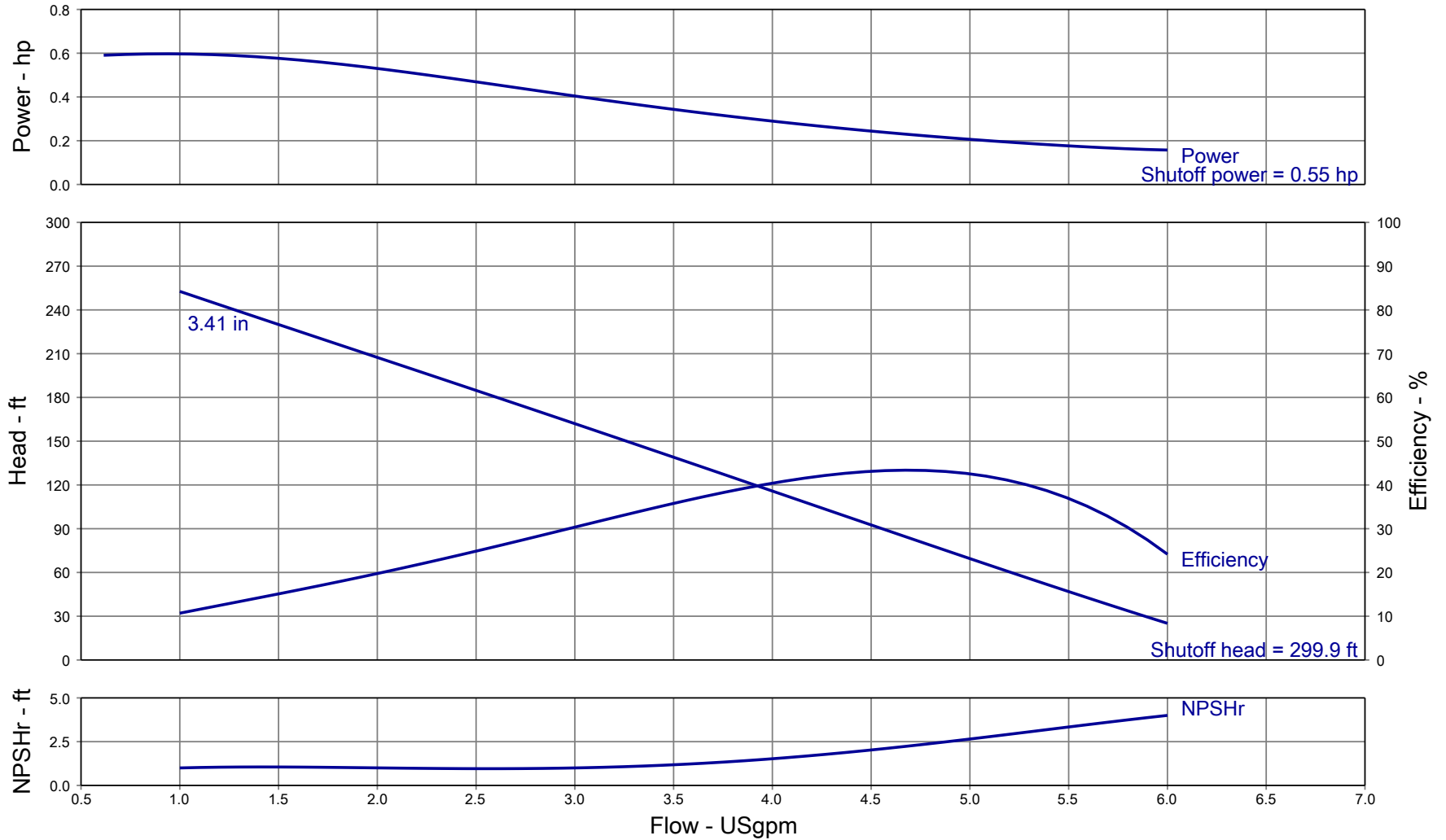
Pressure Data

Maximum working pressure	: 109.4 psi.g
Maximum allowable working pressure	: 300.0 psi.g
Maximum allowable suction pressure	: 175.0 psi.g
Hydrostatic test pressure	: 284.0 psi.g

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 0.10 hp
Power, rated	: 0.23 hp
Power, maximum	: 0.60 hp
Motor rating	: 0.25 hp / 0.19 kW



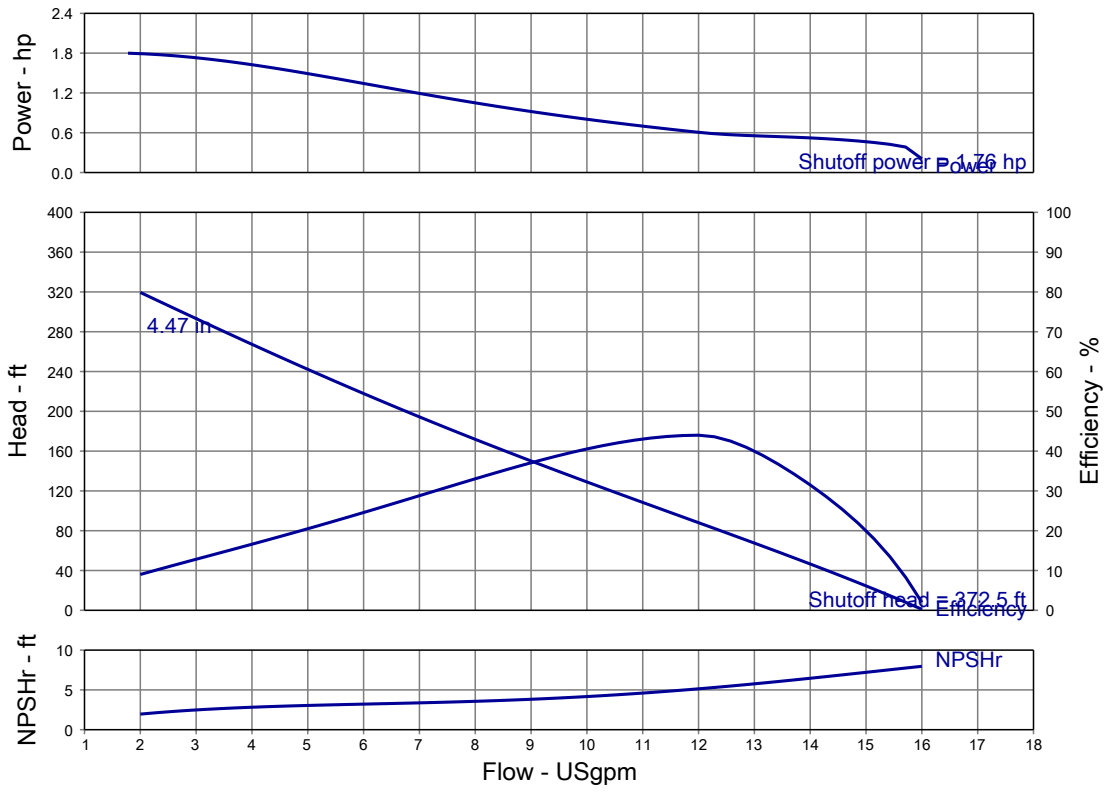


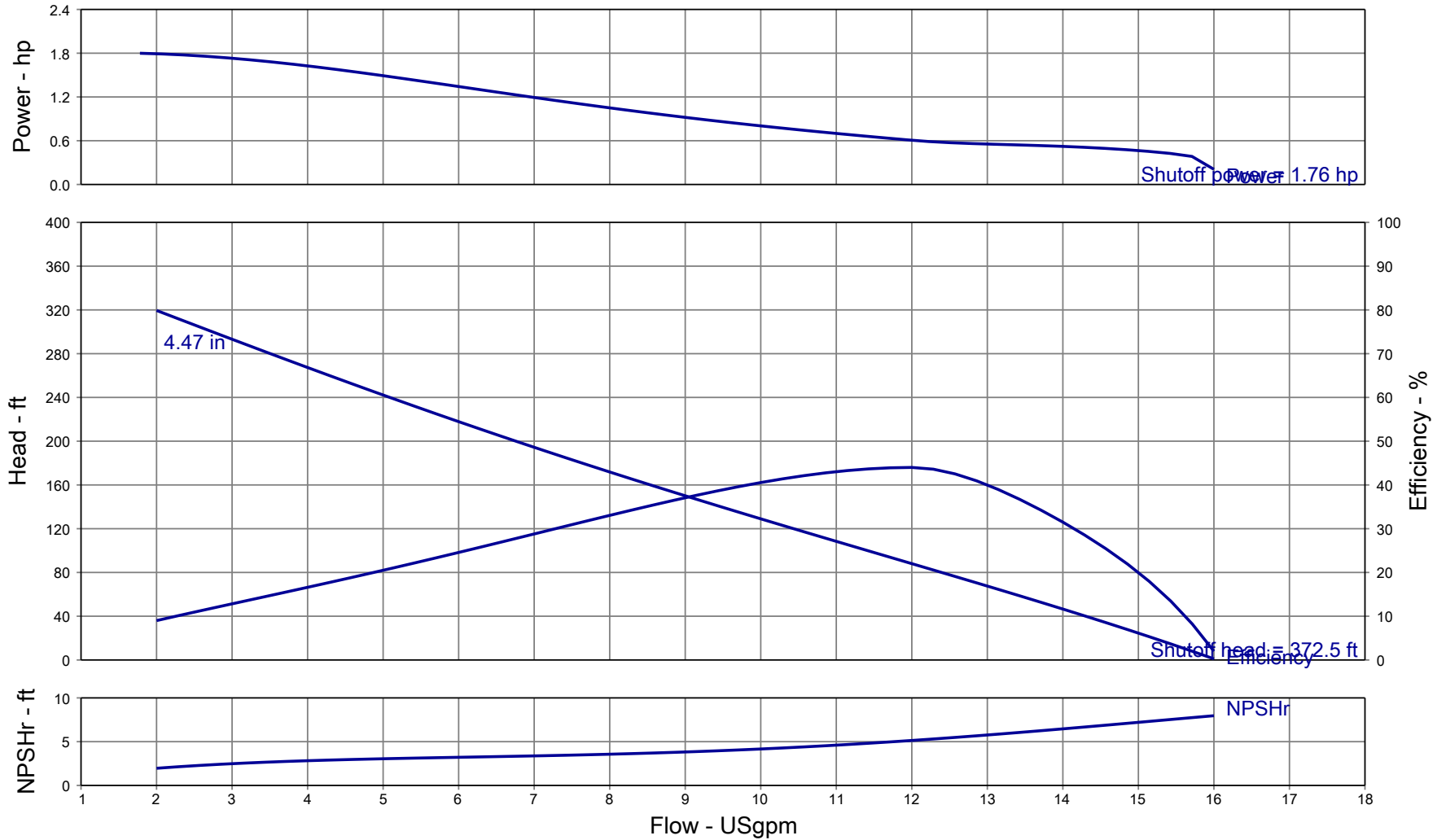
Item number	: 001	Size	: C-4TRL	Flow, rated	: 4.69 USgpm
Service	:	Stages	: 2	Head, rated	: 83.95 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 2.25 ft
Quote number	: 25068	Based on curve number	: C-4 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:04 PM	Efficiency	: 43.37 %	Viscosity	: 1.00 cP
		Power, rated	: 0.23 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: G-4 4P
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: G-4 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:02 PM

Operating Conditions		Liquid	
Flow, rated	: 12.00 USgpm	Liquid type	: Water
Head, rated (requested)	: 88.05 ft	Additional liquid description	:
Head, rated (actual)	: 88.05 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 4.47 in	Material selected	: Standard
Impeller diameter, maximum	: 4.47 in	Pressure Data	
Impeller diameter, minimum	: 4.47 in	Maximum working pressure	: 138.3 psi.g
Efficiency	: 44.00 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 17.06 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 5.14 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 210 / 1,778 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 319.5 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 323.02 %	Service factor	: 1.00
Flow, best eff. point	: 12.00 USgpm	Power, hydraulic	: 0.27 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 0.61 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 1.79 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 0.75 hp / 0.56 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

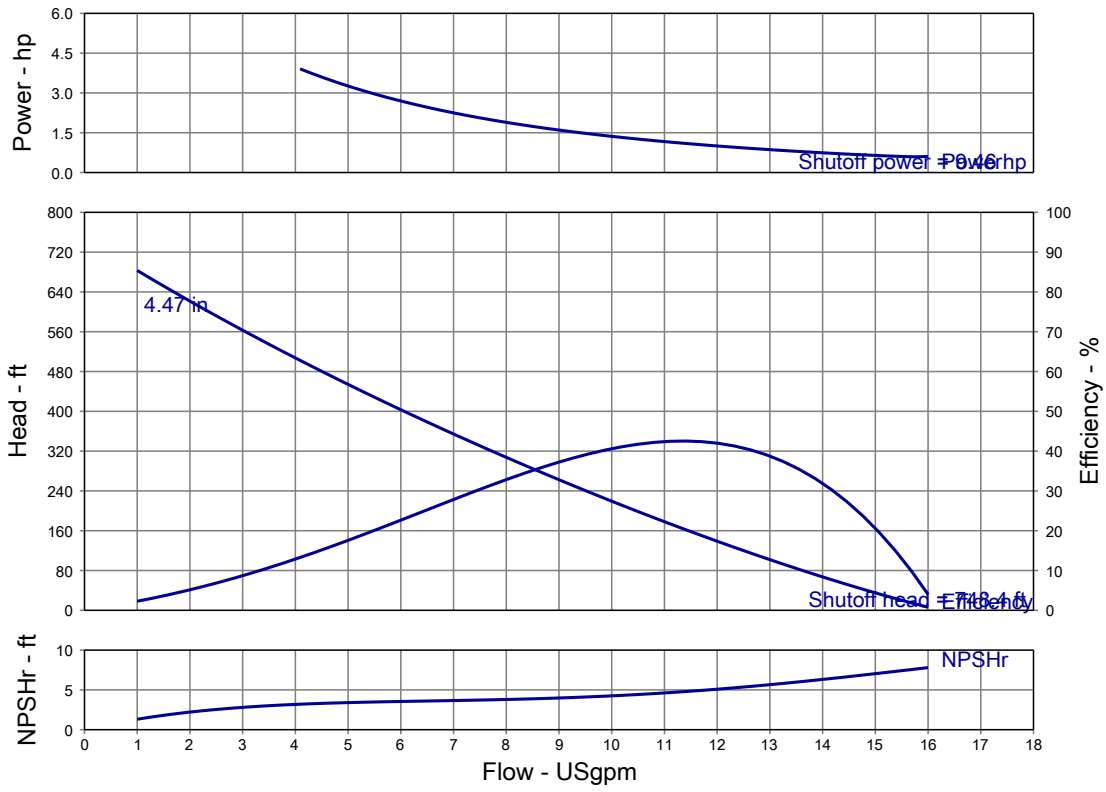


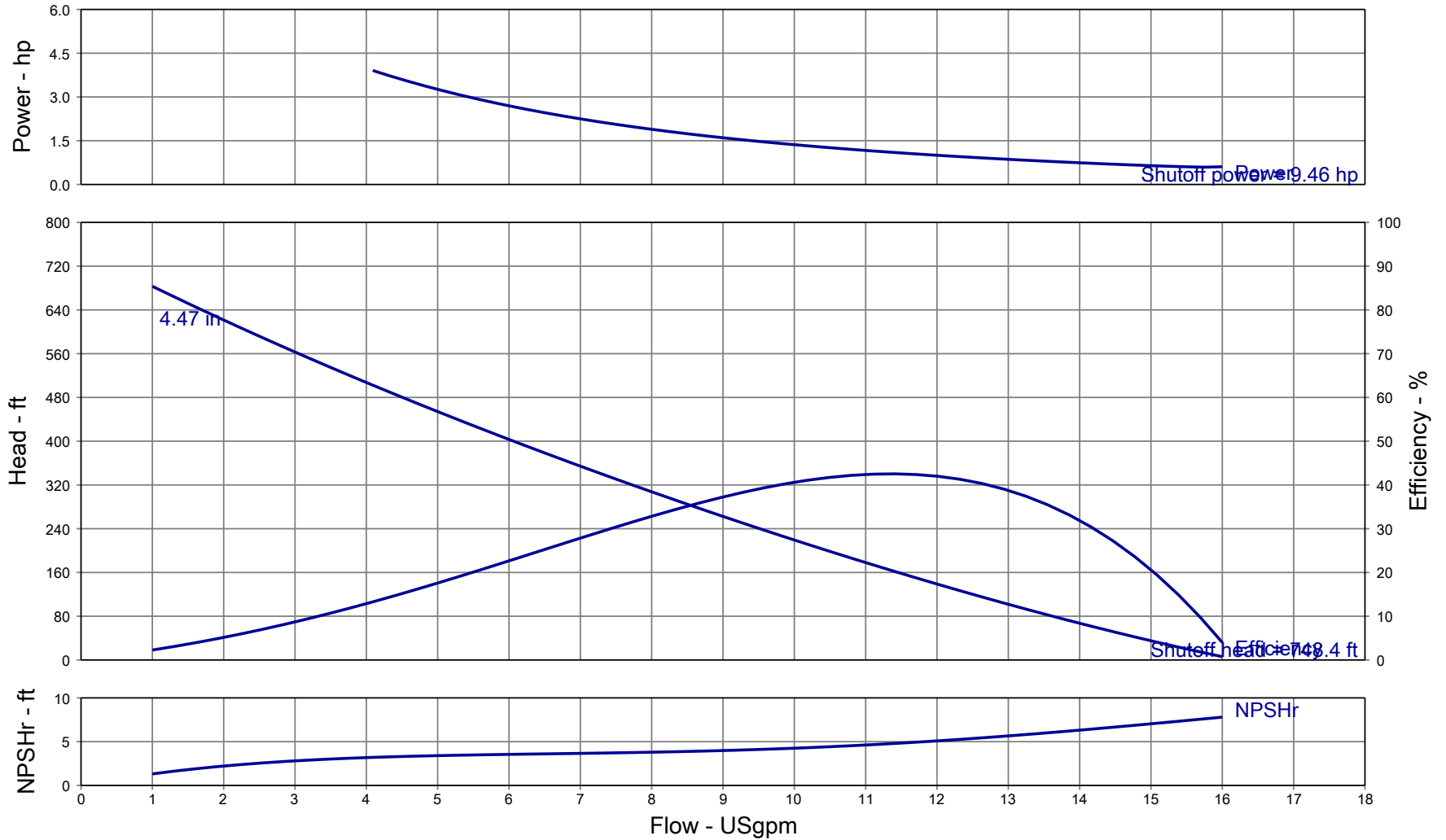


Item number	: 001	Size	: G-4 4P	Flow, rated	: 12.00 USgpm
Service	:	Stages	: 1	Head, rated	: 88.05 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 5.14 ft
Quote number	: 25068	Based on curve number	: G-4 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:02 PM	Efficiency	: 44.00 %	Viscosity	: 1.00 cP
		Power, rated	: 0.61 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Item number	: 001	Size	: G-4TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: G-4 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:05 PM

Operating Conditions		Liquid	
Flow, rated	: 11.35 USgpm	Liquid type	: Water
Head, rated (requested)	: 164.1 ft	Additional liquid description	:
Head, rated (actual)	: 164.1 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 4.47 in	Material selected	: Standard
Impeller diameter, maximum	: 4.47 in	Pressure Data	
Impeller diameter, minimum	: 4.47 in	Maximum working pressure	: 295.7 psi.g
Efficiency	: 42.54 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 11.32 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 4.77 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 216 / 1,827 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 683.1 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 356.15 %	Service factor	: 1.00
Flow, best eff. point	: 11.35 USgpm	Power, hydraulic	: 0.47 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 1.11 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 7.59 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 1.50 hp / 1.12 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		



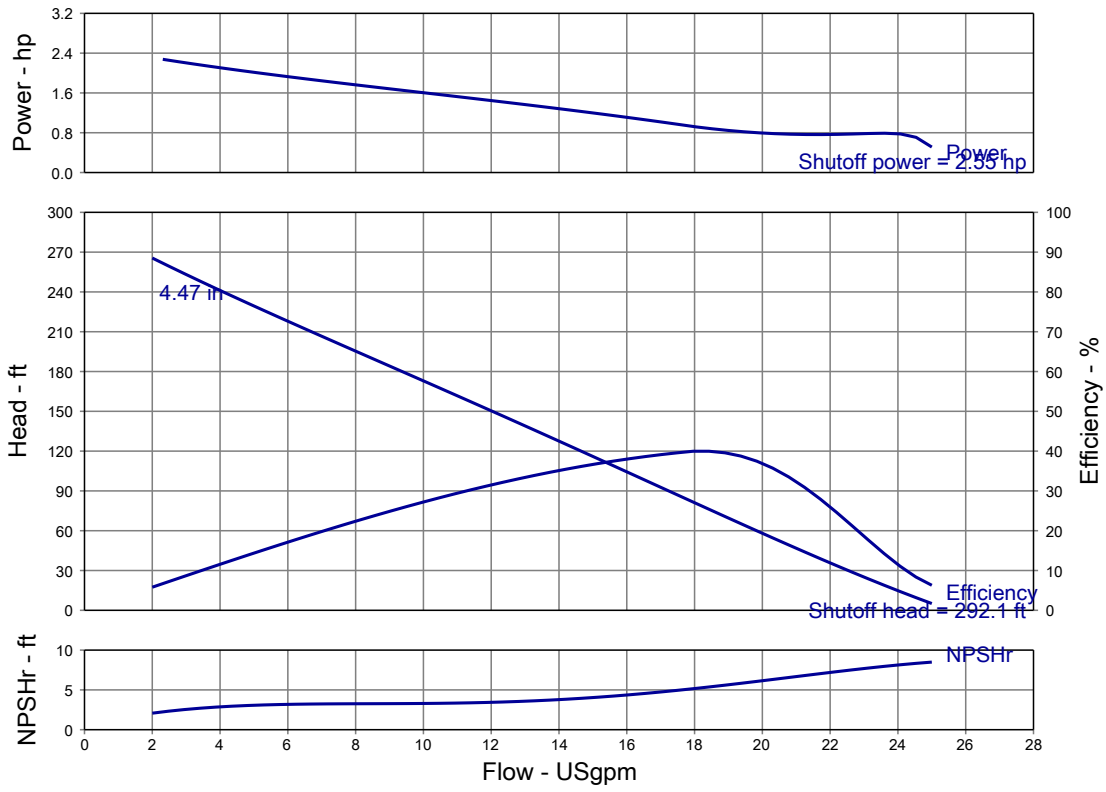


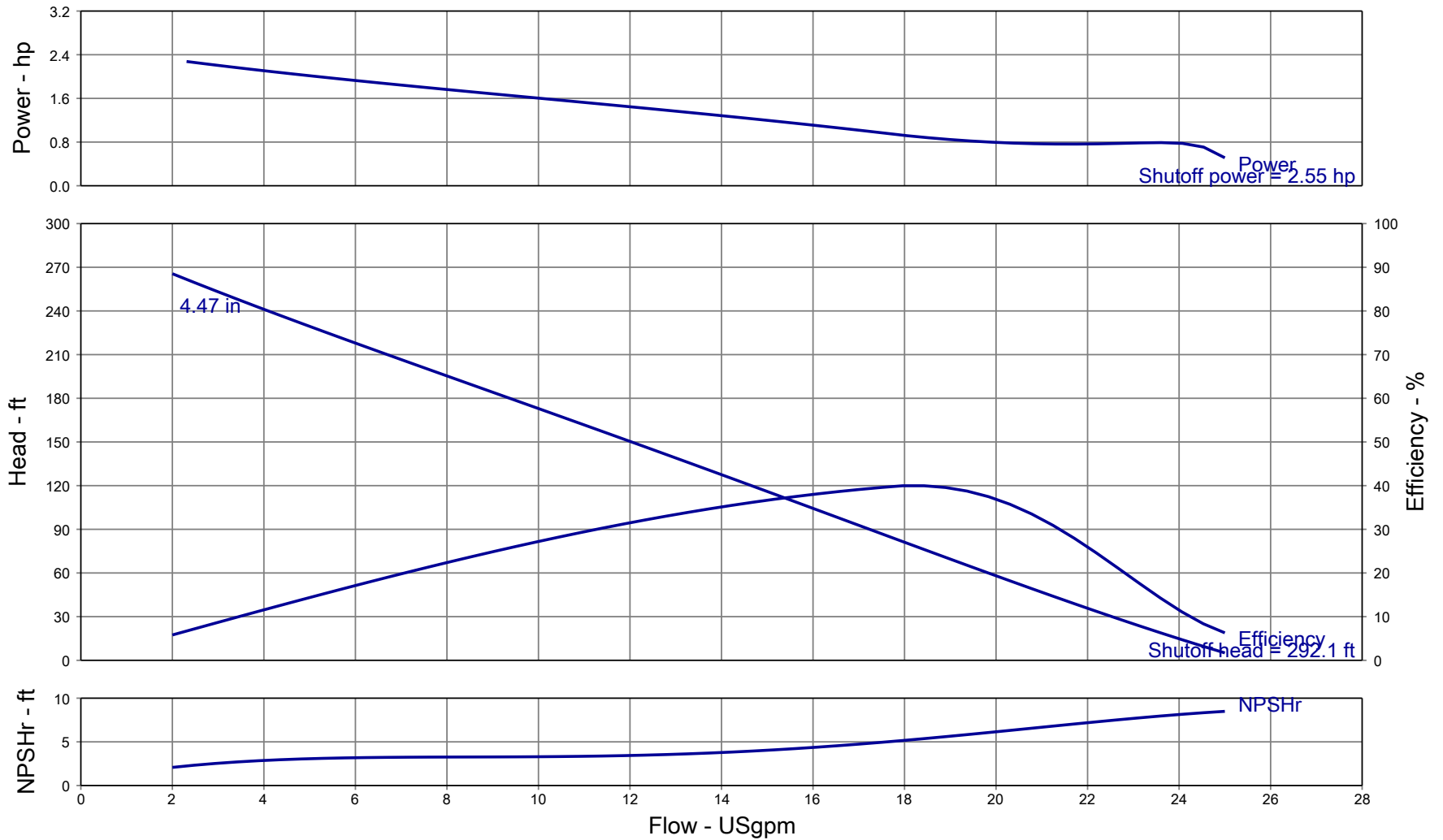
Item number	: 001	Size	: G-4TRL	Flow, rated	: 11.35 USgpm
Service	:	Stages	: 2	Head, rated	: 164.1 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 4.77 ft
Quote number	: 25068	Based on curve number	: G-4 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:05 PM	Efficiency	: 42.54 %	Viscosity	: 1.00 cP
		Power, rated	: 1.11 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: I-4 4P
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: I-4 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:03 PM

Operating Conditions		Liquid	
Flow, rated	: 18.17 USgpm	Liquid type	: Water
Head, rated (requested)	: 79.16 ft	Additional liquid description	:
Head, rated (actual)	: 79.16 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Material	
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material selected	: Standard
Impeller dia.	: 4.47 in	Pressure Data	
Impeller diameter, maximum	: 4.47 in	Maximum working pressure	: 114.9 psi.g
Impeller diameter, minimum	: 4.47 in	Maximum allowable working pressure	: 300.0 psi.g
Efficiency	: 40.02 %	Maximum allowable suction pressure	: 175.0 psi.g
True Weighted Efficiency	: 17.36 %	Hydrostatic test pressure	: 284.0 psi.g
NPSH required / margin required	: 5.25 / 0.00 ft	Driver & Power Data (@Max density)	
Ns (imp. eye flow) / Nss (imp. eye flow)	: 281 / 2,151 US Units	Driver sizing specification	: Rated power
MCSF	: -	Margin over specification	: 0.00 %
Head max.	: 265.6 ft	Service factor	: 1.00
Head rise to shutoff	: 268.98 %	Power, hydraulic	: 0.36 hp
Flow, best eff. point	: 18.17 USgpm	Power, rated	: 0.91 hp
Flow ratio, rated / BEP	: 100.00 %	Power, maximum	: 2.31 hp
Diameter ratio (rated / max)	: 100.00 %	Motor rating	: 1.00 hp / 0.75 kW
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		





Item number	: 001	Size	: I-4 4P	Flow, rated	: 18.17 USgpm
Service	:	Stages	: 1	Head, rated	: 79.16 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 5.25 ft
Quote number	: 25068	Based on curve number	: I-4 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:03 PM	Efficiency	: 40.02 %	Viscosity	: 1.00 cP
		Power, rated	: 0.91 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Item number	: 001	Size	: I4-TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: I-4 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:31 PM

Operating Conditions

Flow, rated	: 16.91 USgpm
Head, rated (requested)	: 198.4 ft
Head, rated (actual)	: 198.4 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed	: 1750 rpm
Impeller dia.	: 4.47 in
Impeller diameter, maximum	: 4.47 in
Impeller diameter, minimum	: 4.47 in
Efficiency	: 40.30 %
True Weighted Efficiency	: 15.33 %
NPSH required / margin required	: 5.07 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 228 / 2,131 US Units
MCSF	: -
Head max.	: 446.4 ft
Head rise to shutoff	: 139.40 %
Flow, best eff. point	: 16.91 USgpm
Flow ratio, rated / BEP	: 100.00 %
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

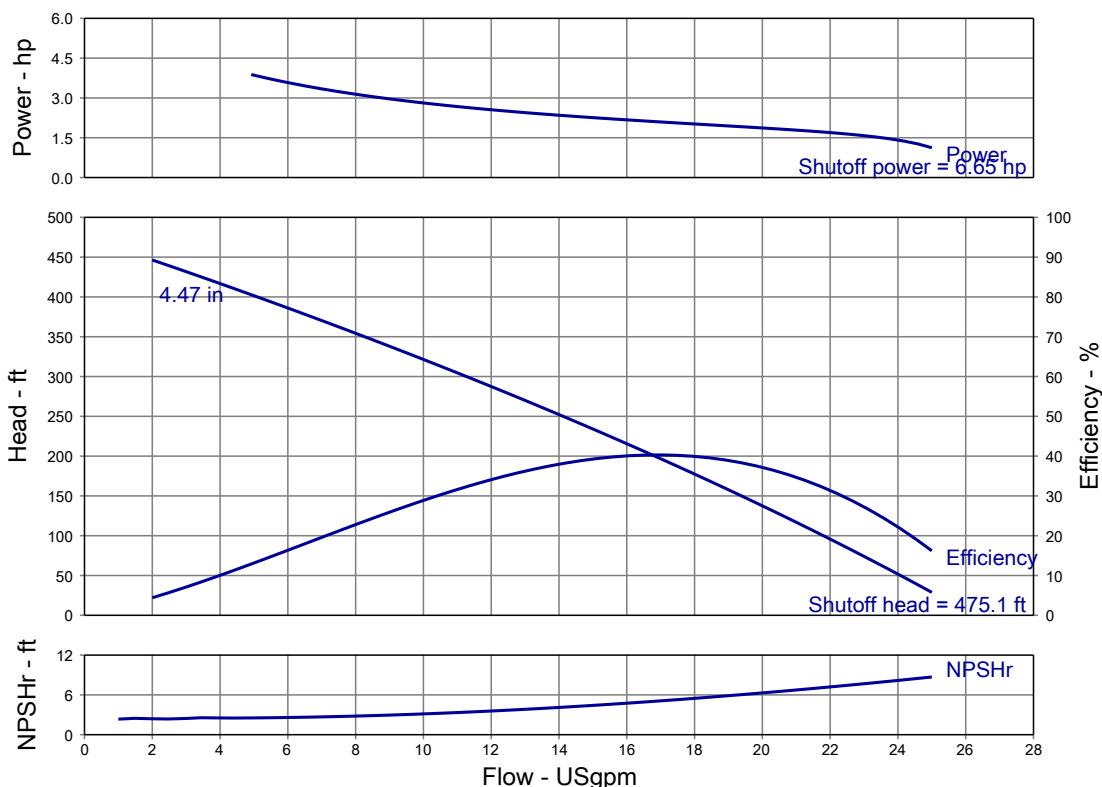
Material selected	: Standard
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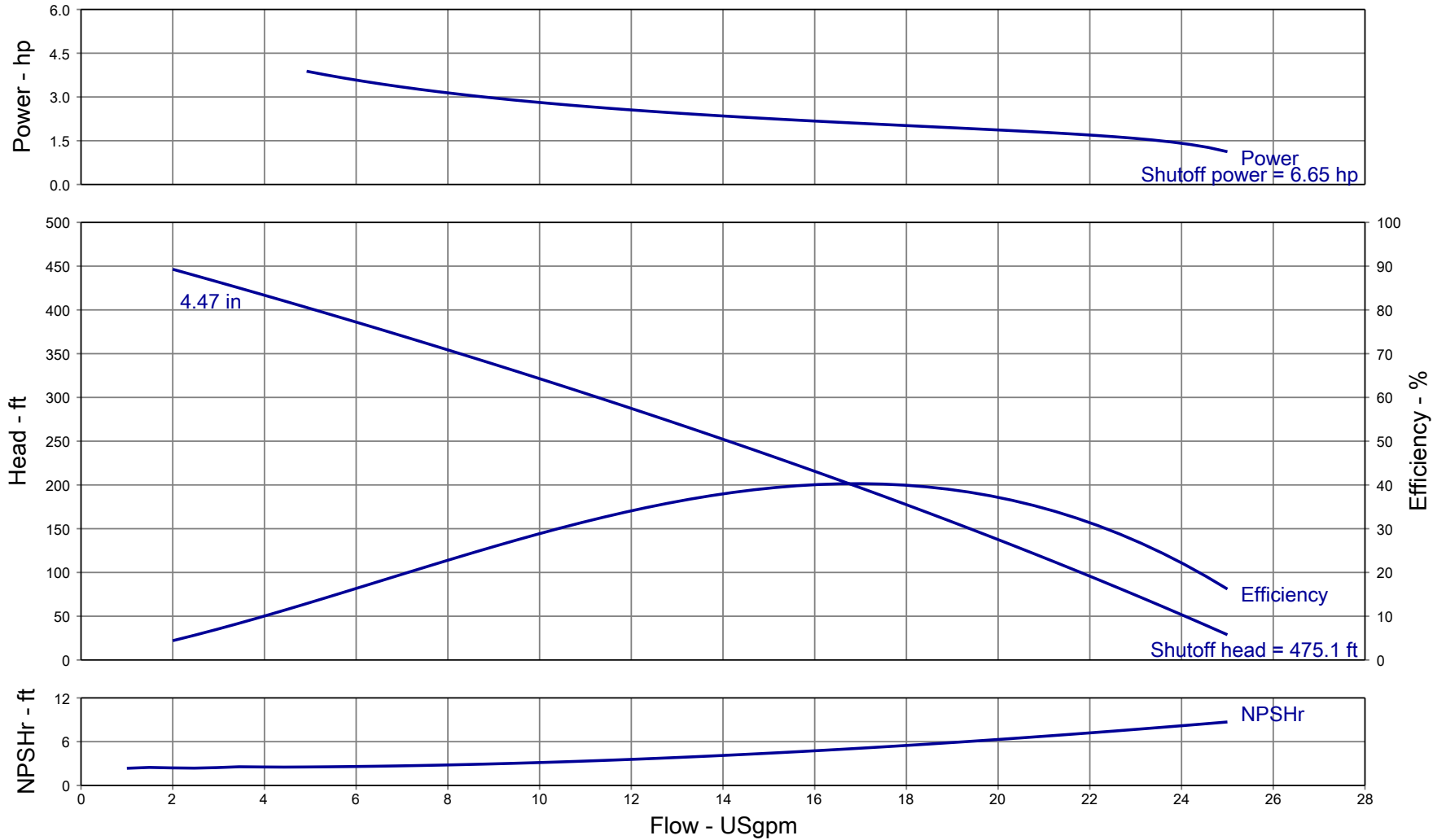
Pressure Data

Maximum working pressure	: 193.2 psi.g
Maximum allowable working pressure	: 300.0 psi.g
Maximum allowable suction pressure	: 175.0 psi.g
Hydrostatic test pressure	: 284.0 psi.g

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 0.85 hp
Power, rated	: 2.10 hp
Power, maximum	: 5.11 hp
Motor rating	: 3.00 hp / 2.24 kW



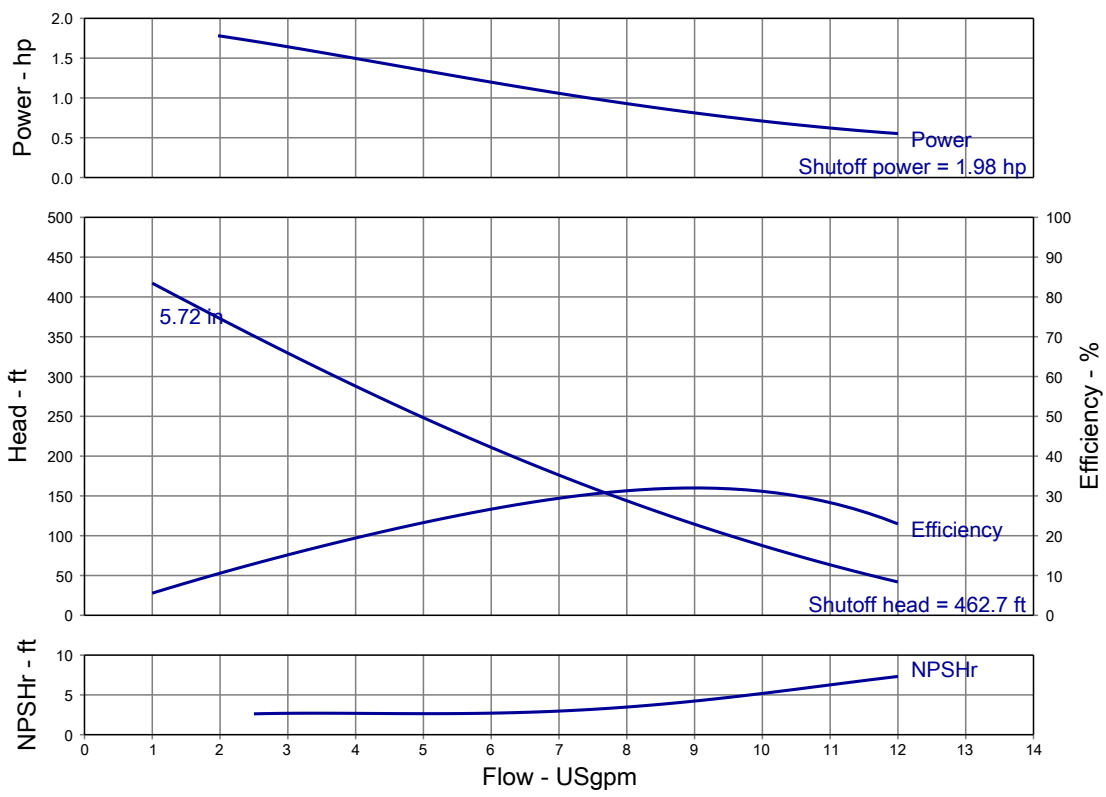


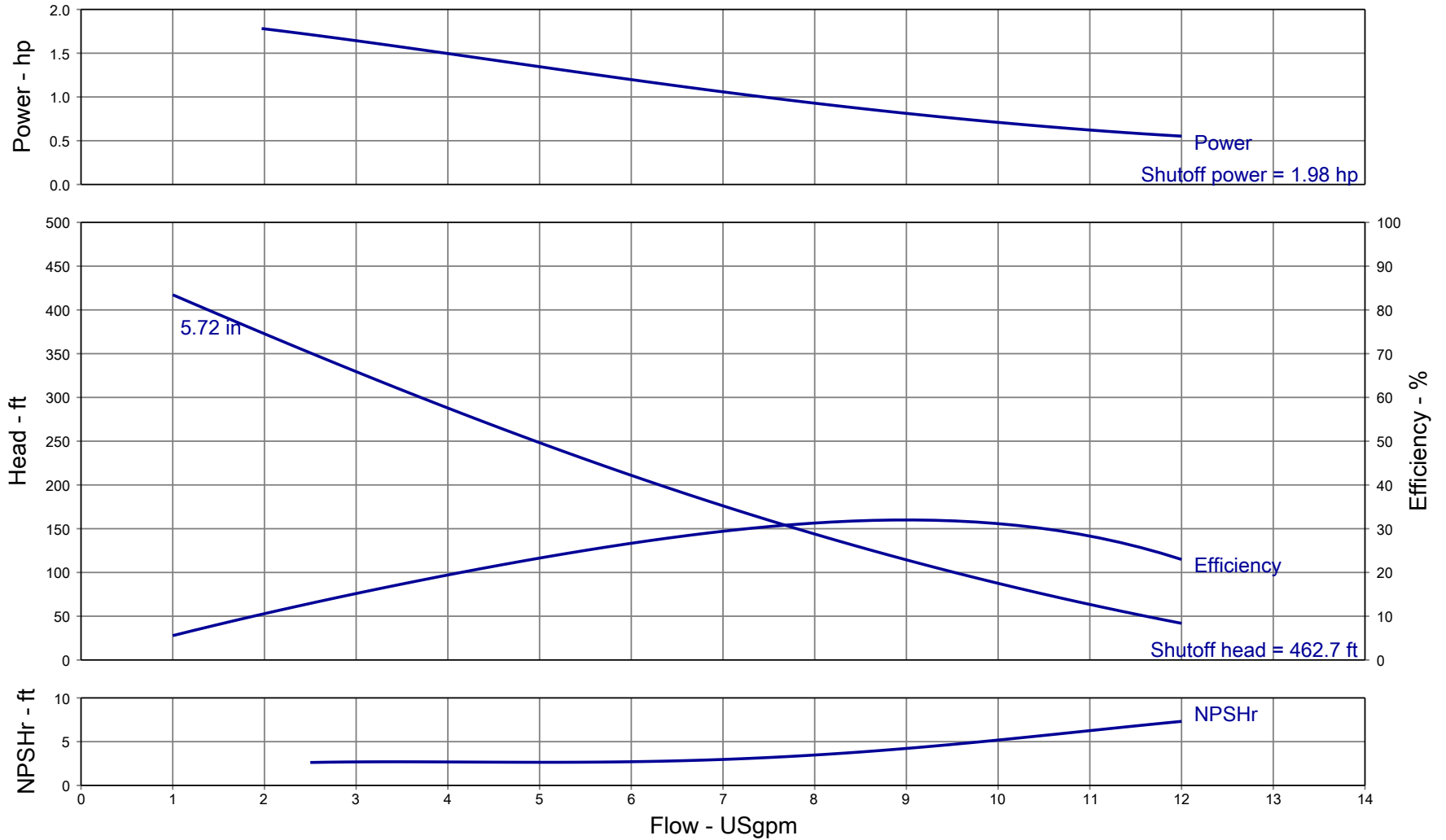
Item number	: 001	Size	: I4-TRL	Flow, rated	: 16.91 USgpm
Service	:	Stages	: 2	Head, rated	: 198.4 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 5.07 ft
Quote number	: 25068	Based on curve number	: I-4 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:31 PM	Efficiency	: 40.30 %	Viscosity	: 1.00 cP
		Power, rated	: 2.10 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: E-5
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: E-5 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:39 PM

Operating Conditions		Liquid	
Flow, rated	: 9.00 USgpm	Liquid type	: Water
Head, rated (requested)	: 114.4 ft	Additional liquid description	:
Head, rated (actual)	: 114.4 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 5.72 in	Material selected	: Standard
Impeller diameter, maximum	: 5.72 in	Pressure Data	
Impeller diameter, minimum	: 5.72 in	Maximum working pressure	: 180.6 psi.g
Efficiency	: 32.00 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 15.17 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 4.23 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 150 / 1,783 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 417.3 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 304.52 %	Service factor	: 1.00
Flow, best eff. point	: 9.00 USgpm	Power, hydraulic	: 0.26 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 0.81 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 1.89 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 1.00 hp / 0.75 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		





Item number	: 001	Size	: E-5	Flow, rated	: 9.00 USgpm
Service	:	Stages	: 1	Head, rated	: 114.4 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 4.23 ft
Quote number	: 25068	Based on curve number	: E-5 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:39 PM	Efficiency	: 32.00 %	Viscosity	: 1.00 cP
		Power, rated	: 0.81 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Item number	: 001	Size	: E-5TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: E-5 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:42 PM

Operating Conditions

Flow, rated	: 10.00 USgpm
Head, rated (requested)	: 176.1 ft
Head, rated (actual)	: 176.1 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed	: 1750 rpm
Impeller dia.	: 5.72 in
Impeller diameter, maximum	: 5.72 in
Impeller diameter, minimum	: 5.72 in
Efficiency	: 33.00 %
True Weighted Efficiency	: 12.41 %
NPSH required / margin required	: 4.17 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 192 / 1,899 US Units
MCSF	: -
Head max.	: 527.6 ft
Head rise to shutoff	: 313.95 %
Flow, best eff. point	: 10.00 USgpm
Flow ratio, rated / BEP	: 100.00 %
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

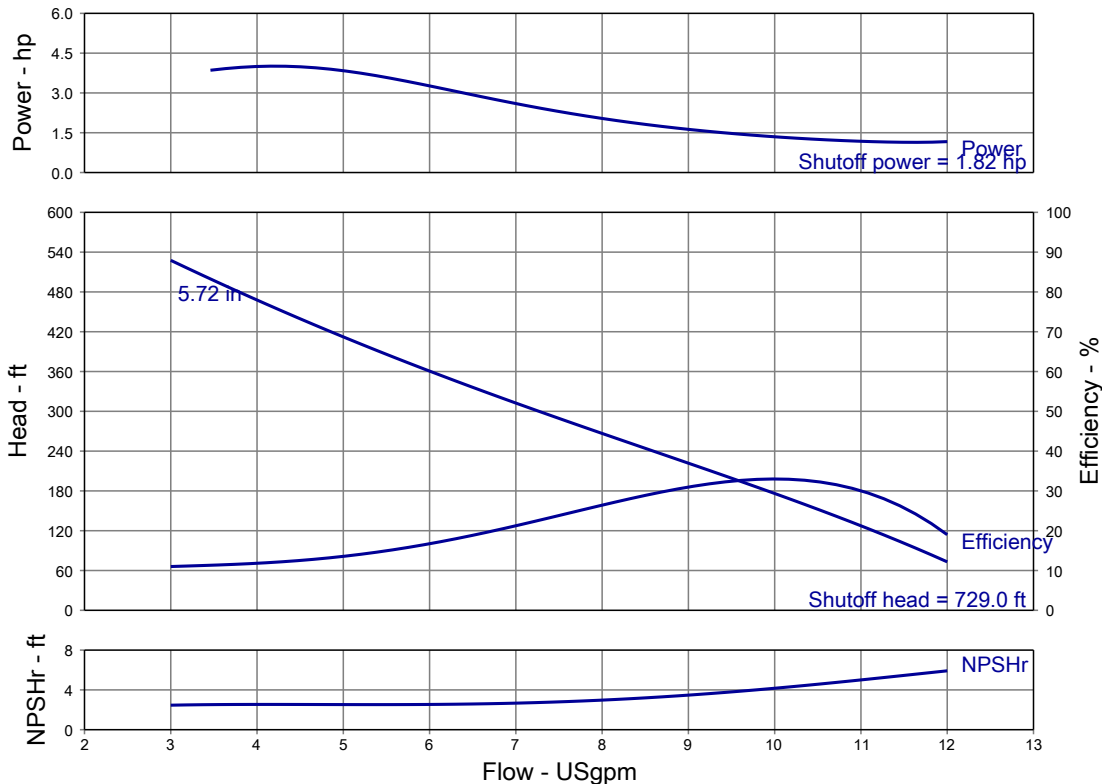
Material selected	: Standard
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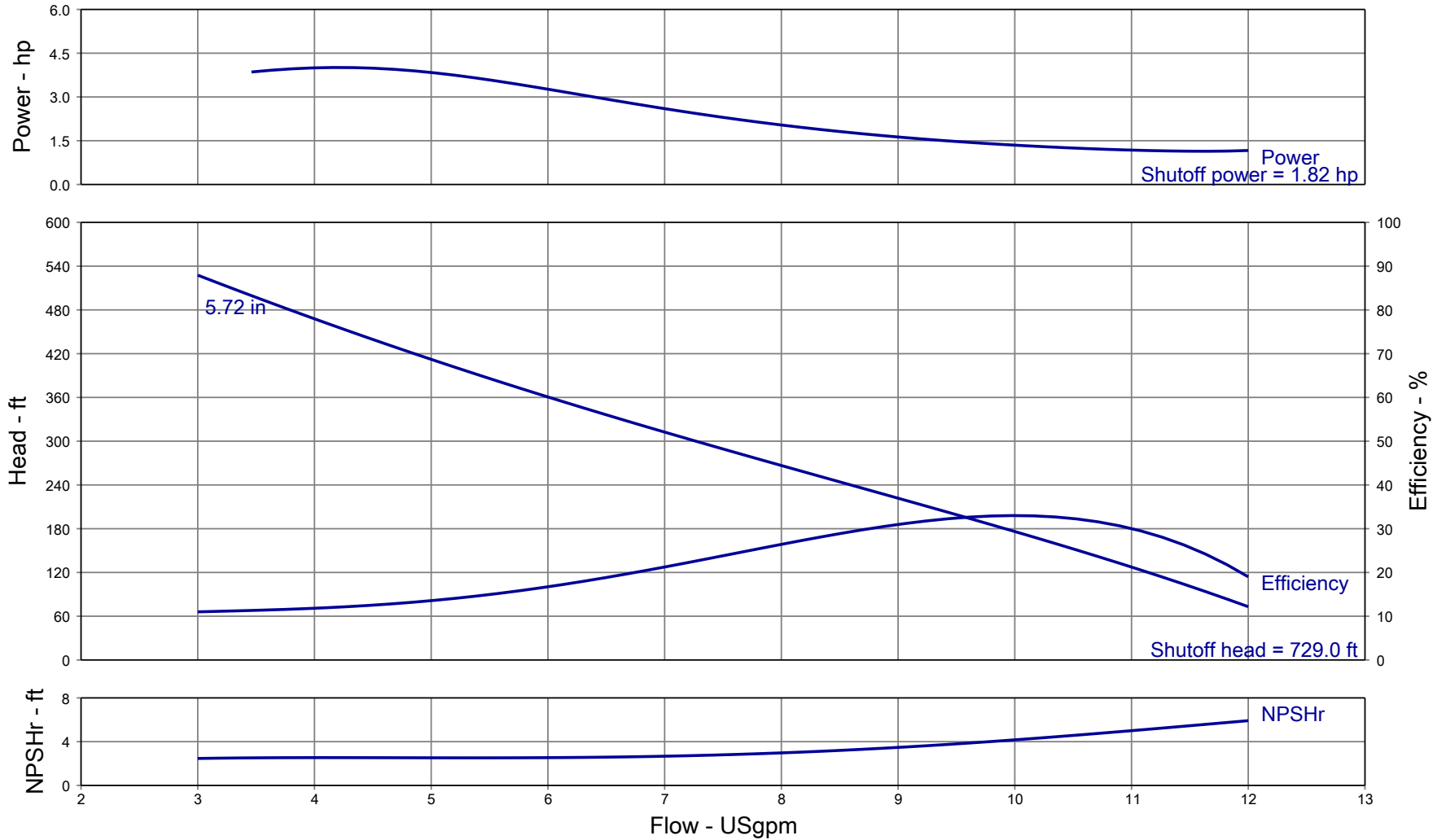
Pressure Data

Maximum working pressure	: 228.4 psi.g
Maximum allowable working pressure	: 300.0 psi.g
Maximum allowable suction pressure	: 175.0 psi.g
Hydrostatic test pressure	: 284.0 psi.g

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 0.44 hp
Power, rated	: 1.35 hp
Power, maximum	: 4.01 hp
Motor rating	: 1.50 hp / 1.12 kW



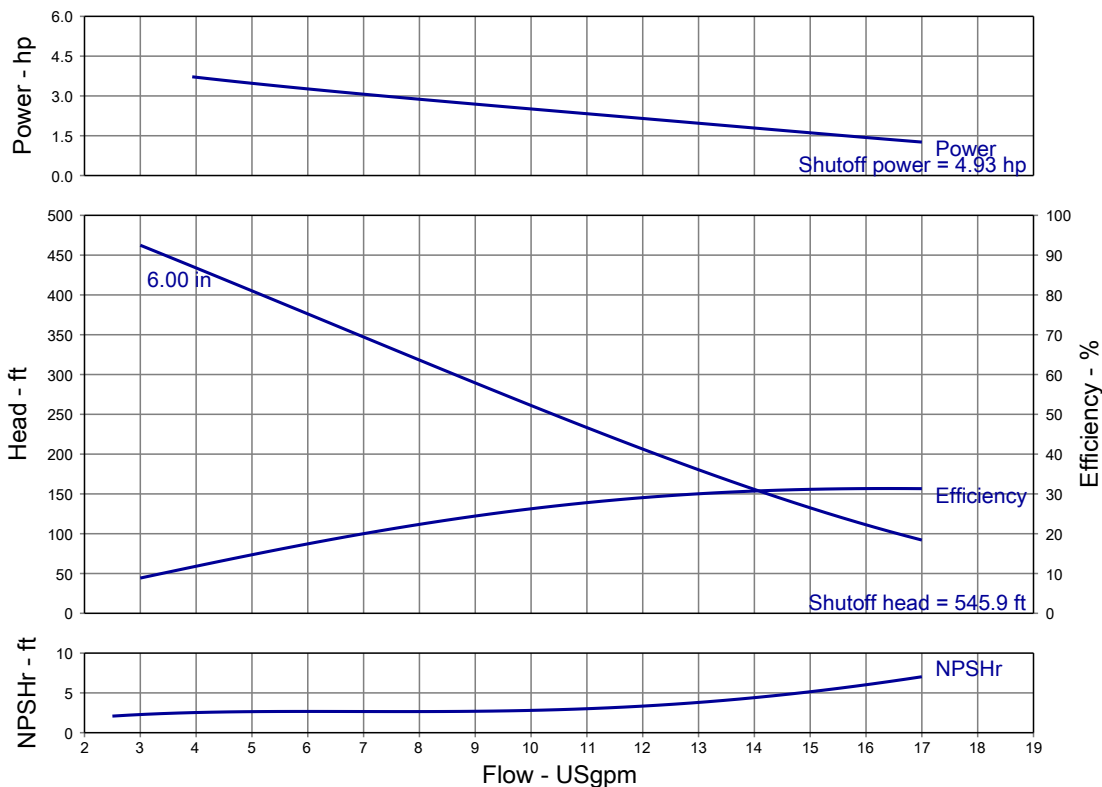


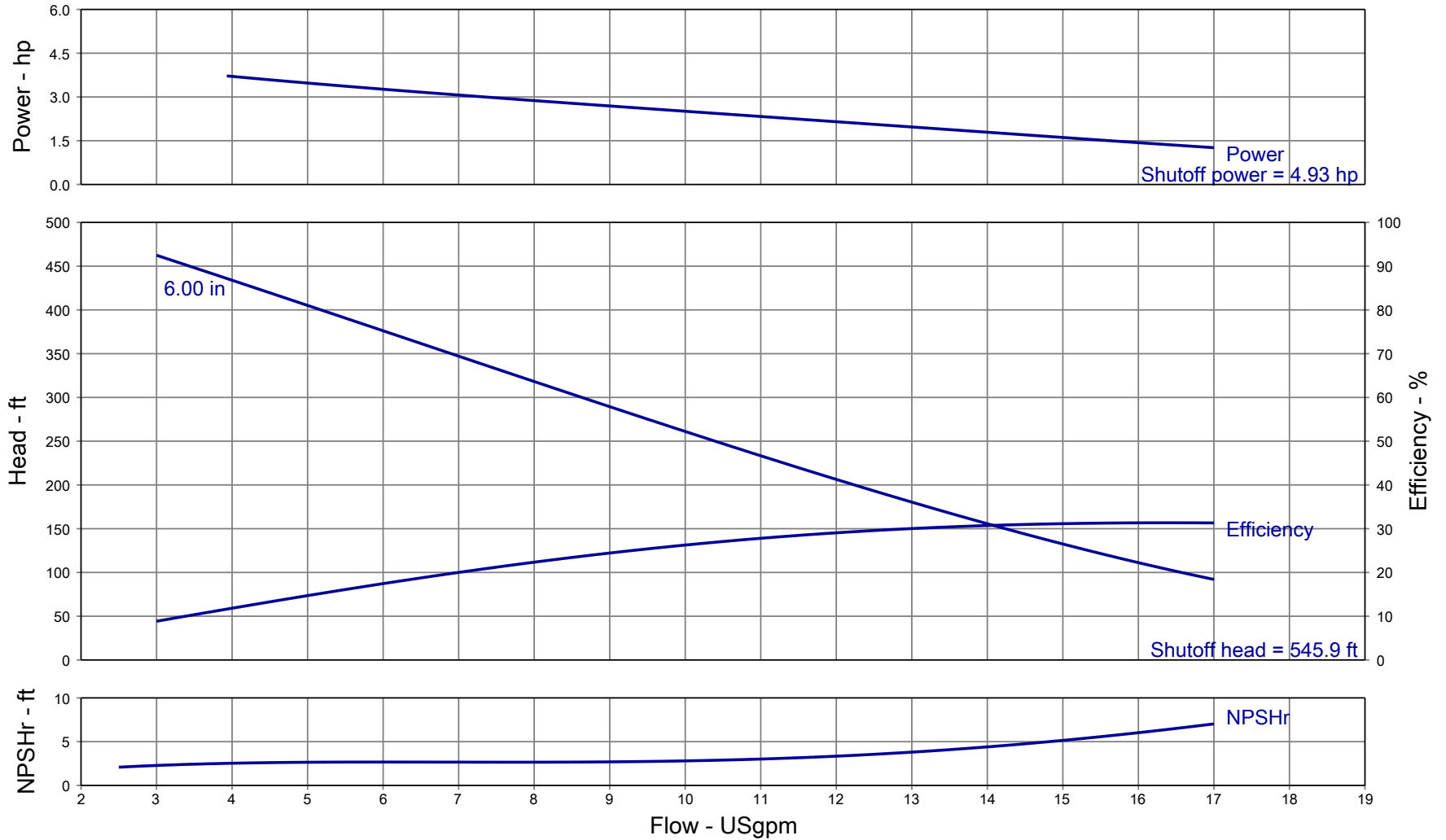
Item number	: 001	Size	: E-5TRL	Flow, rated	: 10.00 USgpm
Service	:	Stages	: 2	Head, rated	: 176.1 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 4.17 ft
Quote number	: 25068	Based on curve number	: E-5 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:42 PM	Efficiency	: 33.00 %	Viscosity	: 1.00 cP
		Power, rated	: 1.35 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: G-5
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: G-5 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:41 PM

Operating Conditions		Liquid	
Flow, rated	: 16.39 USgpm	Liquid type	: Water
Head, rated (requested)	: 103.5 ft	Additional liquid description	:
Head, rated (actual)	: 103.5 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 6.00 in	Material selected	: Standard
Impeller diameter, maximum	: 6.00 in	Pressure Data	
Impeller diameter, minimum	: 6.00 in	Maximum working pressure	: 200.1 psi.g
Efficiency	: 31.36 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 15.43 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 6.40 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 218 / 1,762 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 462.4 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 427.60 %	Service factor	: 1.00
Flow, best eff. point	: 16.39 USgpm	Power, hydraulic	: 0.43 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 1.37 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 3.96 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 1.50 hp / 1.12 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

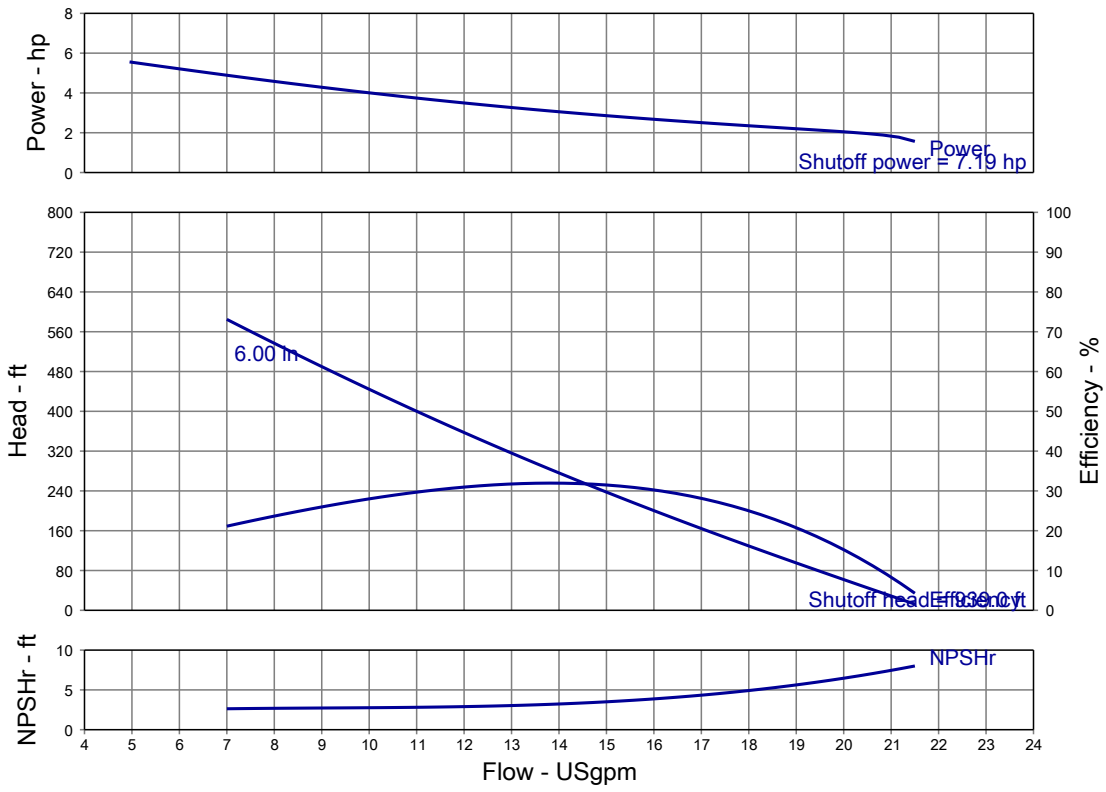


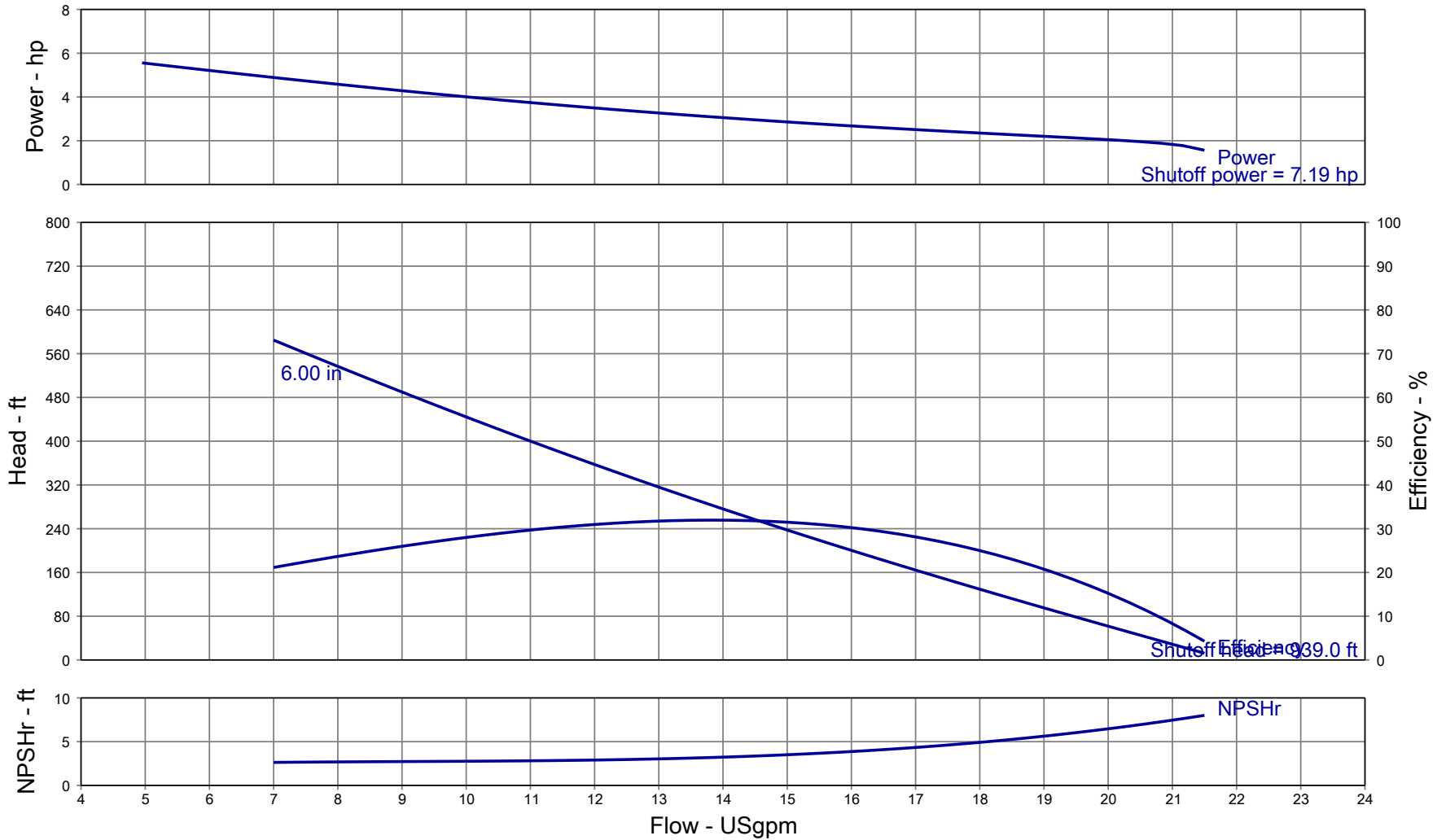


Item number	: 001	Size	: G-5	Flow, rated	: 16.39 USgpm
Service	:	Stages	: 1	Head, rated	: 103.5 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 6.40 ft
Quote number	: 25068	Based on curve number	: G-5 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:41 PM	Efficiency	: 31.36 %	Viscosity	: 1.00 cP
		Power, rated	: 1.37 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Item number	: 001	Size	: G-5TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: G-5 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:43 PM

Operating Conditions		Liquid	
Flow, rated	: 13.83 USgpm	Liquid type	: Water
Head, rated (requested)	: 282.8 ft	Additional liquid description	:
Head, rated (actual)	: 282.8 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 6.00 in	Material selected	: Standard
Impeller diameter, maximum	: 6.00 in	Pressure Data	
Impeller diameter, minimum	: 6.00 in	Maximum working pressure	: 253.1 psi.g
Efficiency	: 31.96 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 14.55 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 3.19 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 158 / 2,726 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 584.8 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 232.00 %	Service factor	: 1.00
Flow, best eff. point	: 13.83 USgpm	Power, hydraulic	: 0.99 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 3.09 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 4.89 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 5.00 hp / 3.73 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		





Item number	: 001	Size	: G-5TRL	Flow, rated	: 13.83 USgpm
Service	:	Stages	: 2	Head, rated	: 282.8 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 3.19 ft
Quote number	: 25068	Based on curve number	: G-5 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:43 PM	Efficiency	: 31.96 %	Viscosity	: 1.00 cP
		Power, rated	: 3.09 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Item number	: 001	Size	: I-5
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: I-5 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:42 PM

Operating Conditions

Flow, rated	: 29.64 USgpm
Head, rated (requested)	: 99.12 ft
Head, rated (actual)	: 99.12 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed	: 1750 rpm
Impeller dia.	: 6.00 in
Impeller diameter, maximum	: 6.00 in
Impeller diameter, minimum	: 6.00 in
Efficiency	: 39.94 %
True Weighted Efficiency	: 22.05 %
NPSH required / margin required	: 11.49 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 304 / 1,525 US Units
MCSF	: -
Head max.	: 336.3 ft
Head rise to shutoff	: 647.53 %
Flow, best eff. point	: 29.64 USgpm
Flow ratio, rated / BEP	: 100.00 %
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

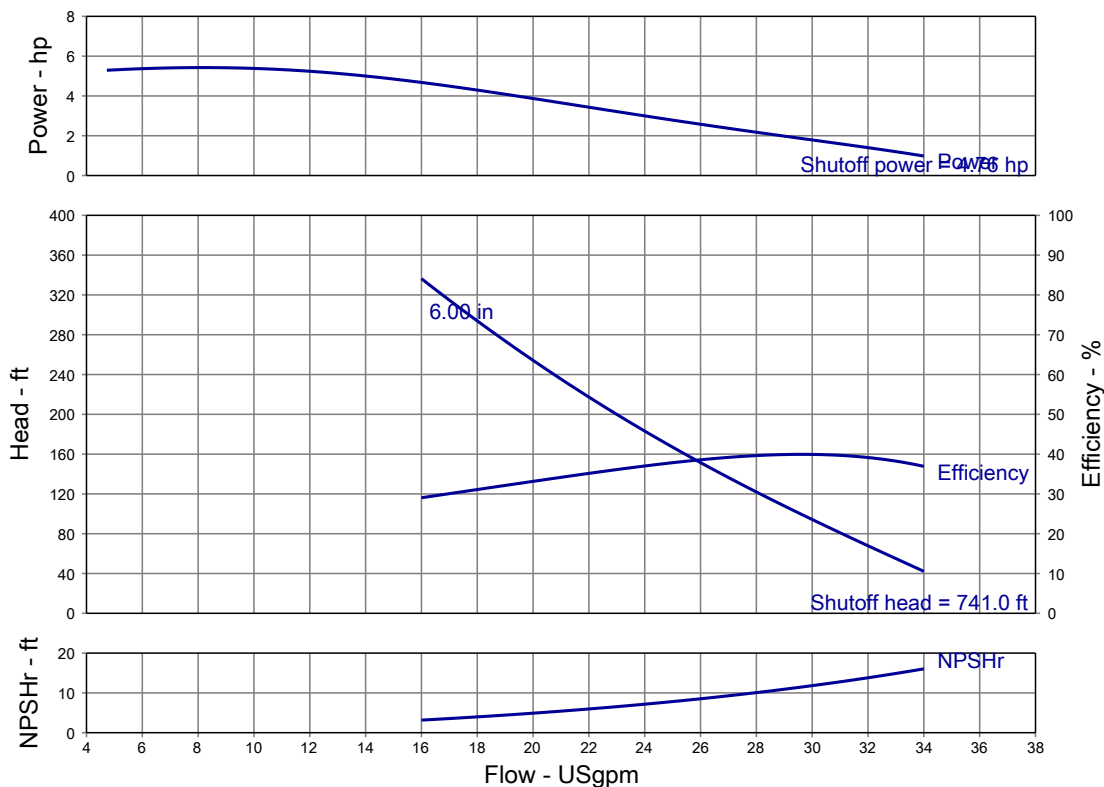
Material selected	: Standard
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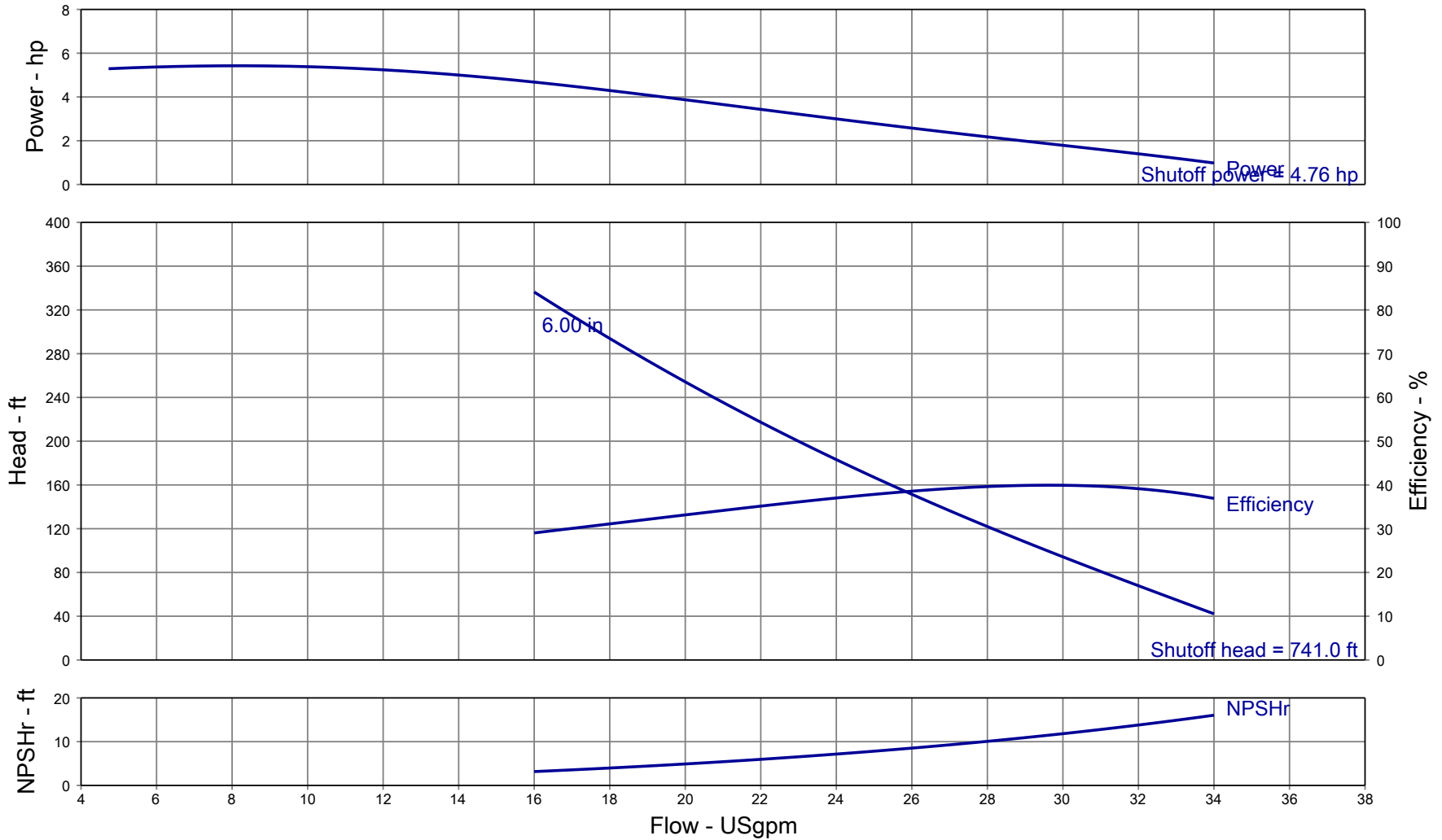
Pressure Data

Maximum working pressure	: 145.6 psi.g
Maximum allowable working pressure	: 300.0 psi.g
Maximum allowable suction pressure	: 175.0 psi.g
Hydrostatic test pressure	: 284.0 psi.g

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 0.74 hp
Power, rated	: 1.86 hp
Power, maximum	: 4.68 hp
Motor rating	: 2.00 hp / 1.49 kW



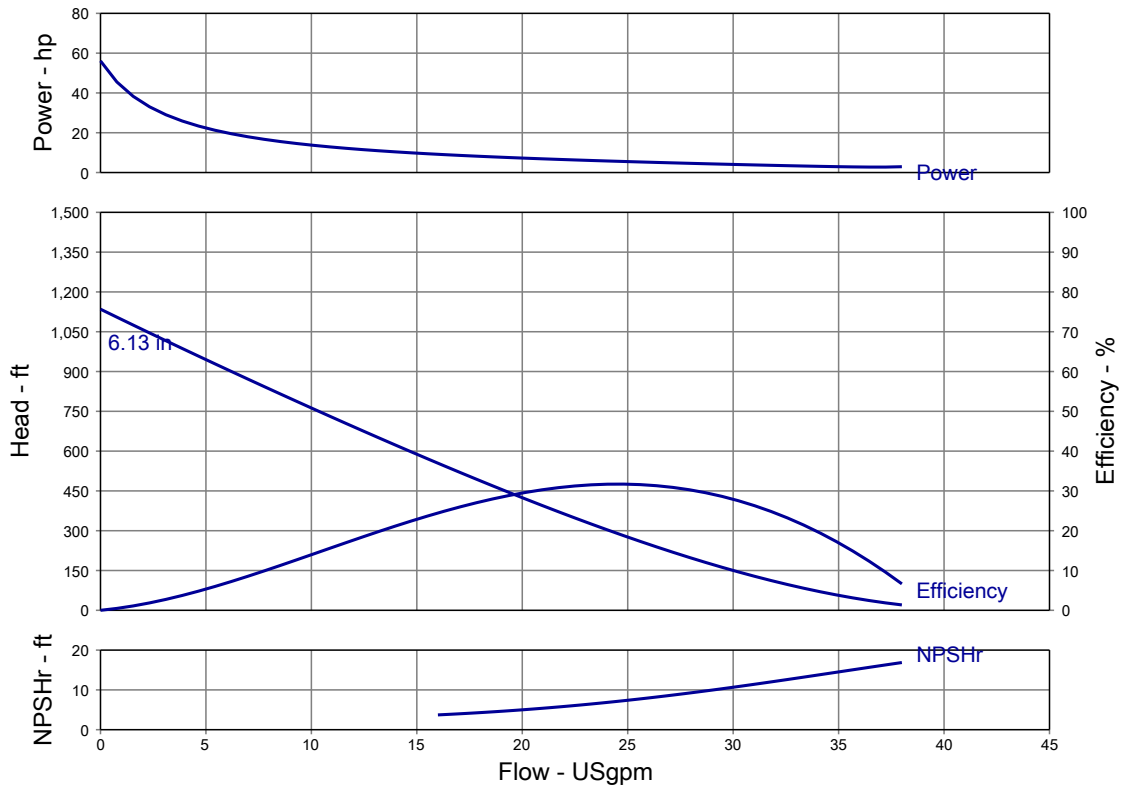


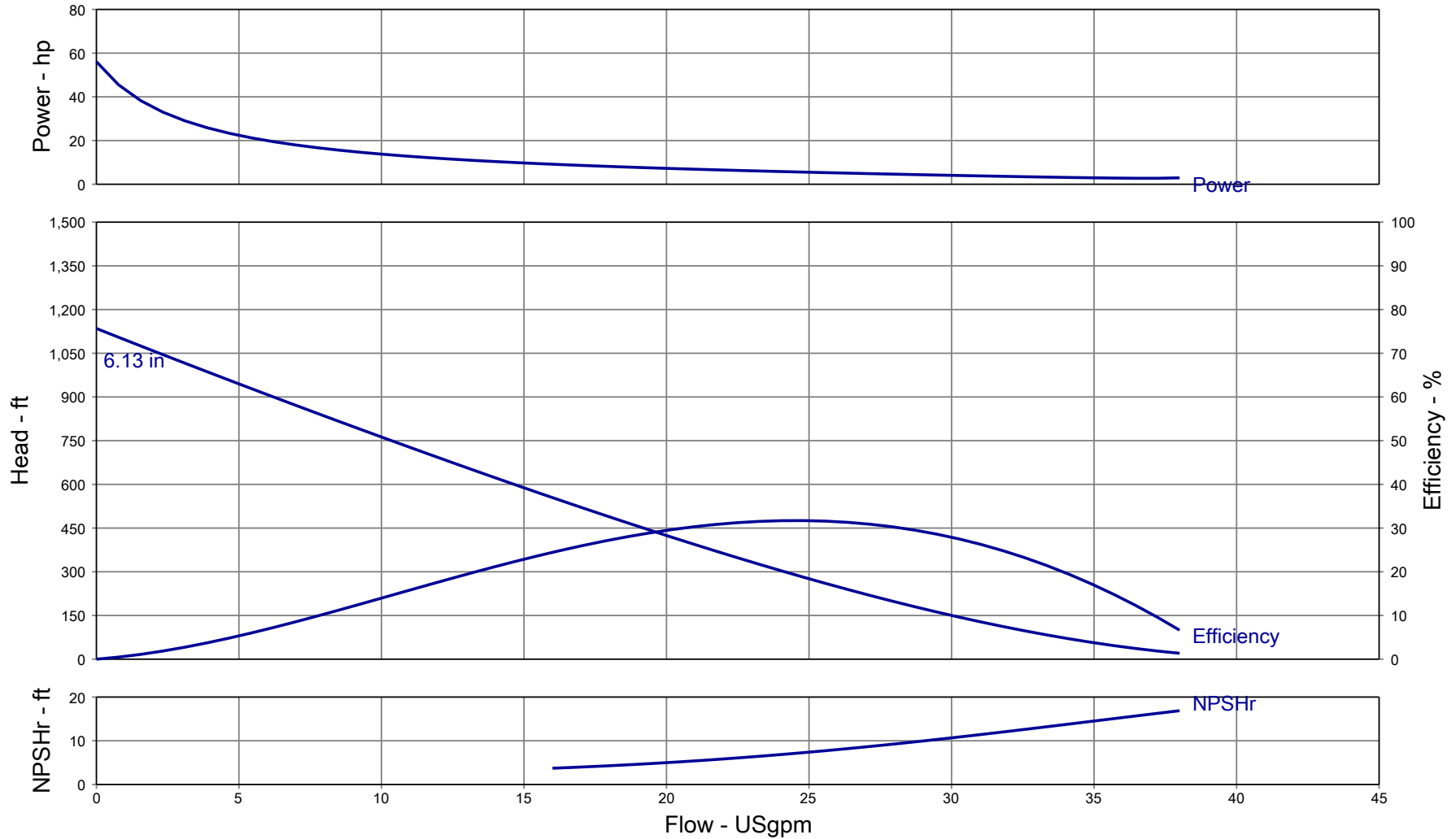
Item number	: 001	Size	: I-5	Flow, rated	: 29.64 USgpm
Service	:	Stages	: 1	Head, rated	: 99.12 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 11.49 ft
Quote number	: 25068	Based on curve number	: I-5 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:42 PM	Efficiency	: 39.94 %	Viscosity	: 1.00 cP
		Power, rated	: 1.86 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: I-5TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: I-5 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:44 PM

Operating Conditions		Liquid	
Flow, rated	: 24.54 USgpm	Liquid type	: Water
Head, rated (requested)	: 289.0 ft	Additional liquid description	:
Head, rated (actual)	: 289.0 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 6.13 in	Material selected	: Standard
Impeller diameter, maximum	: 6.13 in	Pressure Data	
Impeller diameter, minimum	: 6.13 in	Maximum working pressure	: 491.2 psi.g
Efficiency	: 31.72 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 9.79 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 7.13 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 208 / 1,986 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 1,135.0 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 292.76 %	Service factor	: 1.00
Flow, best eff. point	: 24.54 USgpm	Power, hydraulic	: 1.79 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 5.64 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 56.10 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 7.50 hp / 5.59 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Near miss		



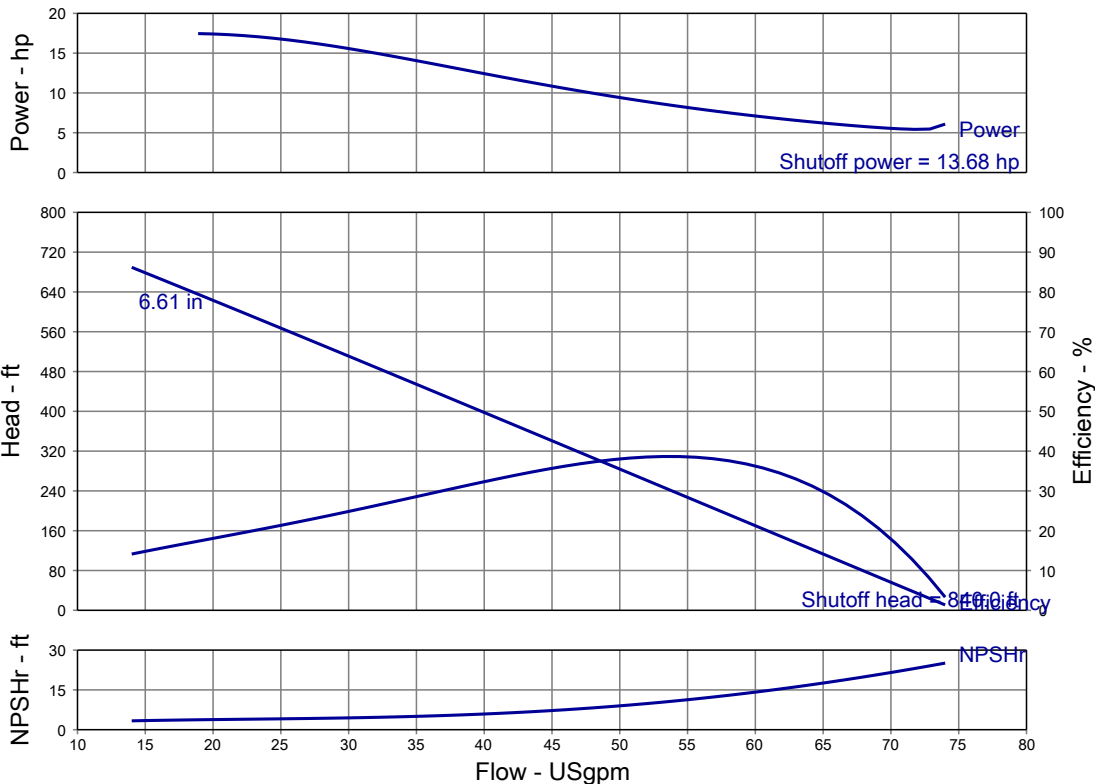


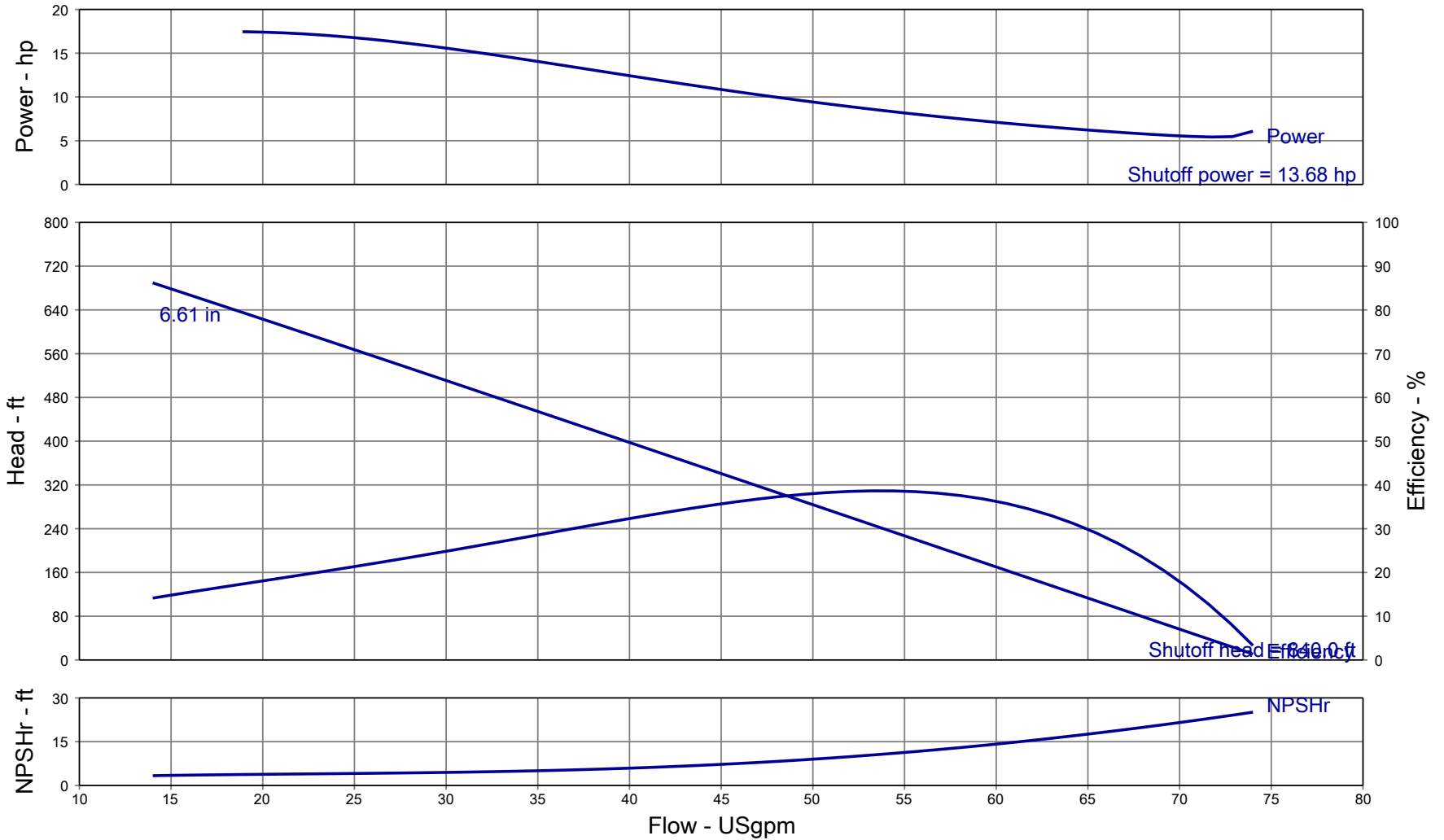
Item number	: 001	Size	: I-5TRL	Flow, rated	: 24.54 USgpm
Service	:	Stages	: 2	Head, rated	: 289.0 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 7.13 ft
Quote number	: 25068	Based on curve number	: I-5 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:44 PM	Efficiency	: 31.72 %	Viscosity	: 1.00 cP
		Power, rated	: 5.64 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: F-6TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: F-6 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:45 PM

Operating Conditions		Liquid	
Flow, rated	: 53.69 USgpm	Liquid type	: Water
Head, rated (requested)	: 241.8 ft	Additional liquid description	:
Head, rated (actual)	: 241.8 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 6.61 in	Material selected	: Standard
Impeller diameter, maximum	: 6.61 in	Pressure Data	
Impeller diameter, minimum	: 6.61 in	Maximum working pressure	: 298.4 psi.g
Efficiency	: 38.66 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 17.63 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 10.64 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 353 / 2,173 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 689.4 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 247.38 %	Service factor	: 1.00
Flow, best eff. point	: 53.69 USgpm	Power, hydraulic	: 3.28 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 8.48 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 17.47 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 10.00 hp / 7.46 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		





Item number	: 001	Size	: F-6TRL	Flow, rated	: 53.69 USgpm
Service	:	Stages	: 2	Head, rated	: 241.8 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 10.64 ft
Quote number	: 25068	Based on curve number	: F-6 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:45 PM	Efficiency	: 38.66 %	Viscosity	: 1.00 cP
		Power, rated	: 8.48 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Item number	: 001	Size	: J-6TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: J-6 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:46 PM

Operating Conditions

Flow, rated	: 119.6 USgpm
Head, rated (requested)	: 218.7 ft
Head, rated (actual)	: 218.7 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed	: 1750 rpm
Impeller dia.	: 6.13 in
Impeller diameter, maximum	: 6.13 in
Impeller diameter, minimum	: 6.13 in
Efficiency	: 45.39 %
True Weighted Efficiency	: 19.73 %
NPSH required / margin required	: 10.21 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 566 / 3,352 US Units
MCSF	: -
Head max.	: 528.1 ft
Head rise to shutoff	: 146.48 %
Flow, best eff. point	: 119.6 USgpm
Flow ratio, rated / BEP	: 100.00 %
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

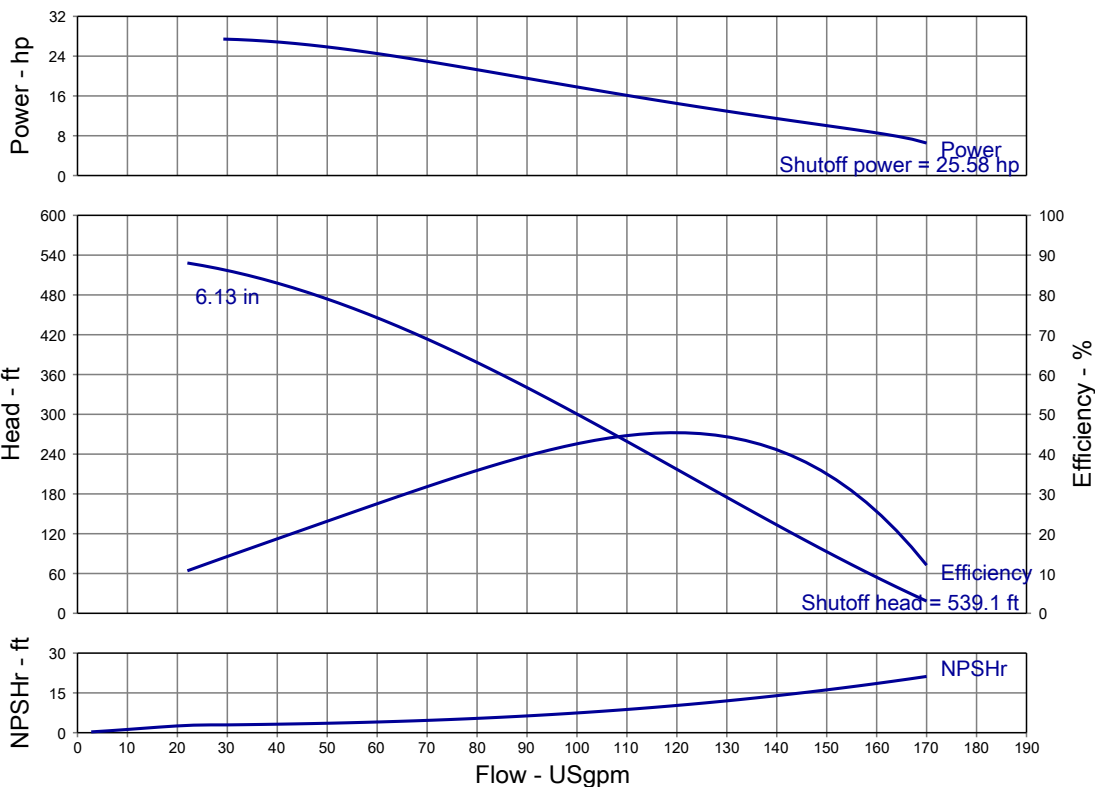
Material selected	: Standard
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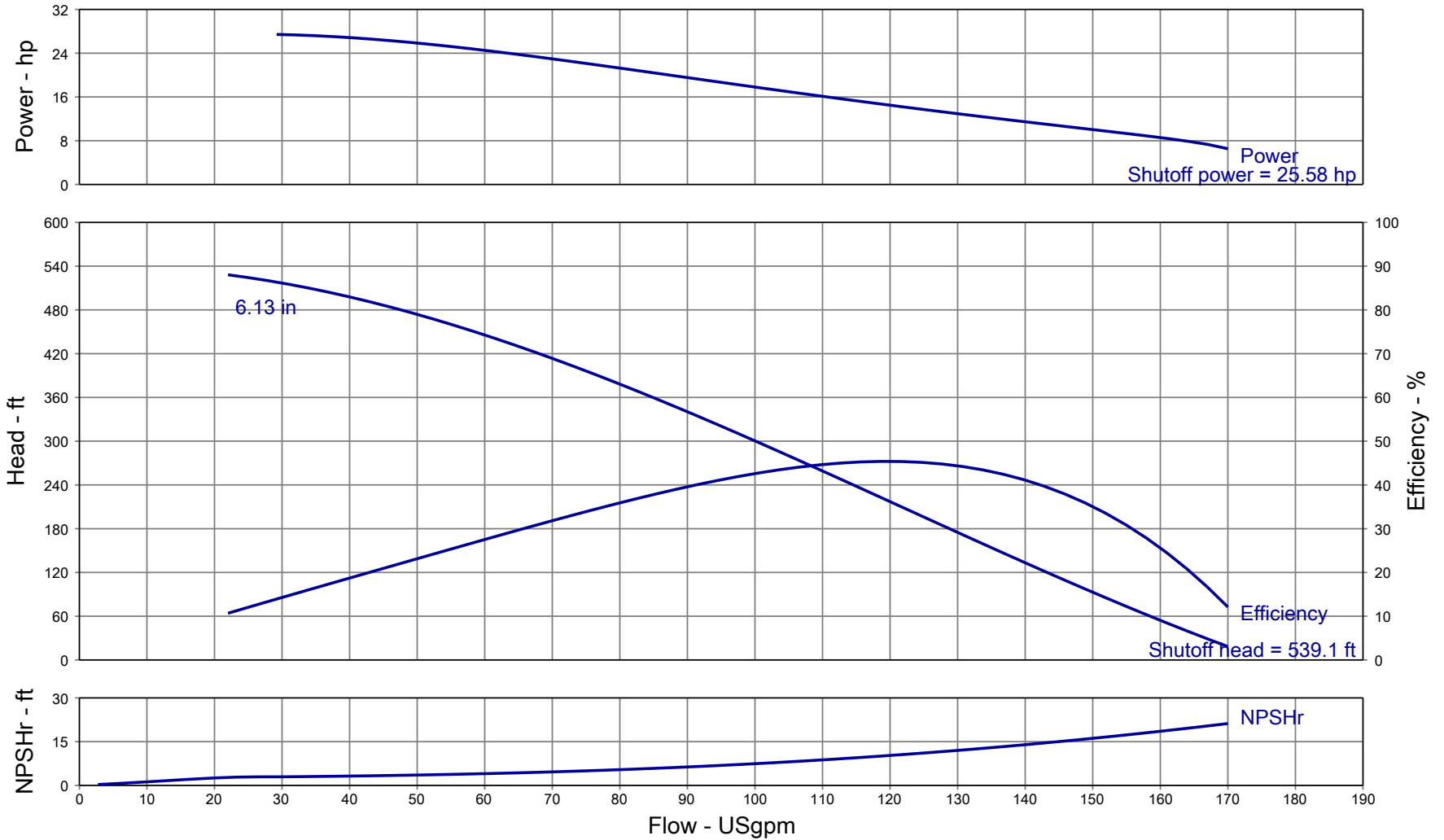
Pressure Data

Maximum working pressure	: 228.6 psi.g
Maximum allowable working pressure	: 300.0 psi.g
Maximum allowable suction pressure	: 175.0 psi.g
Hydrostatic test pressure	: 284.0 psi.g

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 6.60 hp
Power, rated	: 14.55 hp
Power, maximum	: 27.49 hp
Motor rating	: 15.00 hp / 11.19 kW



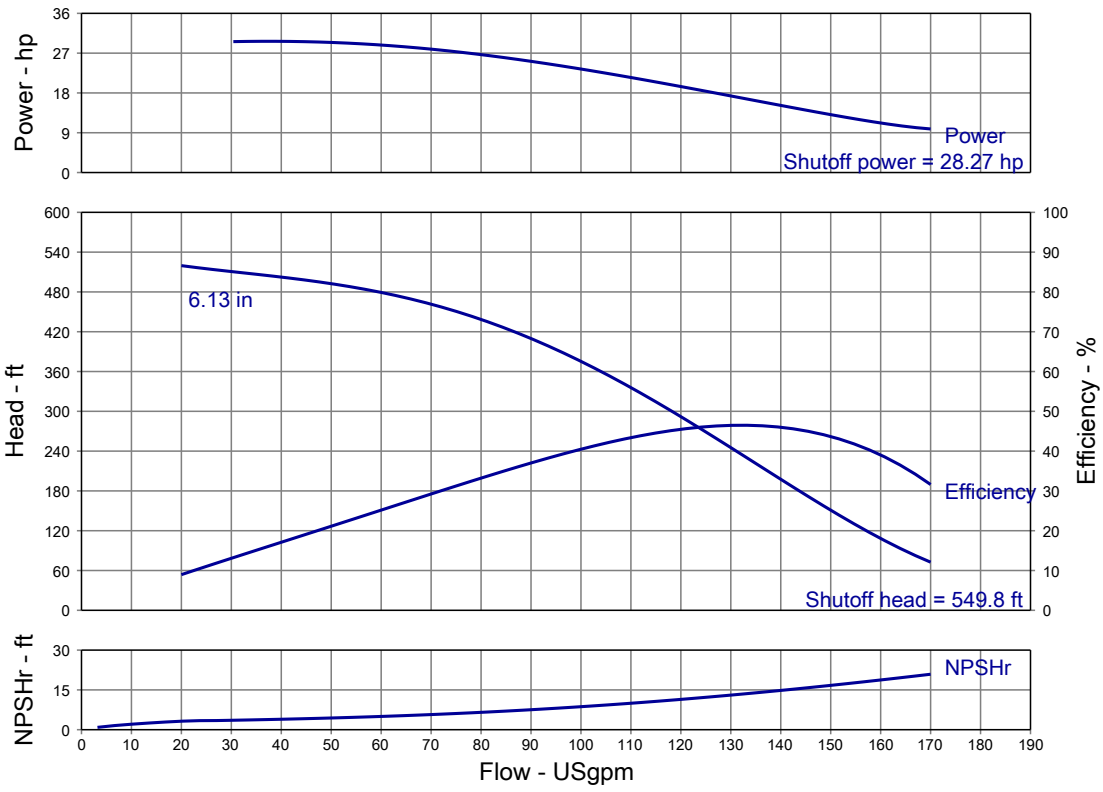


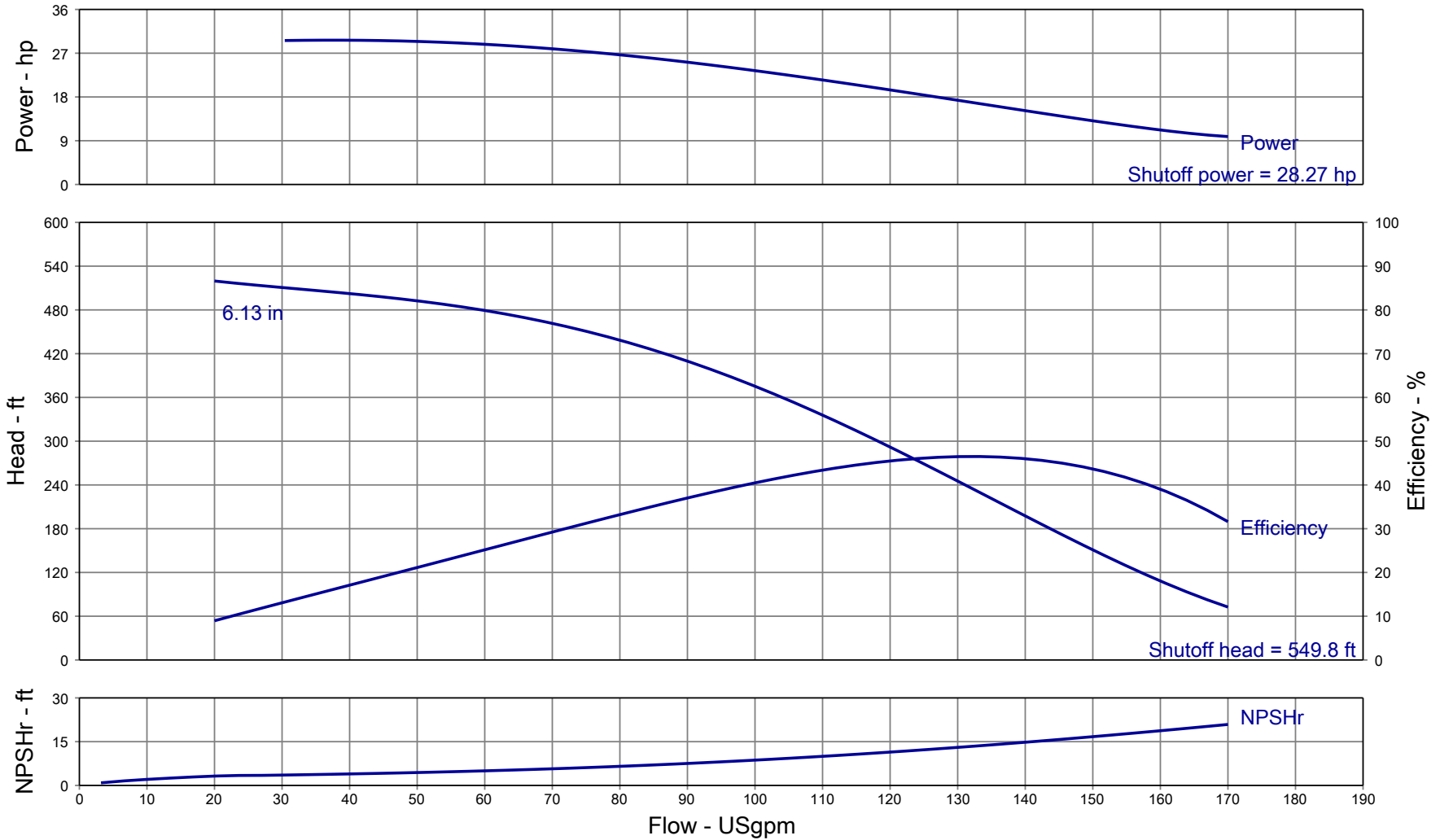
Item number	: 001	Size	: J-6TRL	Flow, rated	: 119.6 USgpm
Service	:	Stages	: 2	Head, rated	: 218.7 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 10.21 ft
Quote number	: 25068	Based on curve number	: J-6 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:46 PM	Efficiency	: 45.39 %	Viscosity	: 1.00 cP
		Power, rated	: 14.55 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00



Item number	: 001	Size	: K-6TRL
Service	:	Stages	: 2
Quantity	: 1	Based on curve number	: K-6 TRL 4P Rev 0.0
Quote number	: 25068	Date last saved	: 27 Oct 2022 10:47 PM

Operating Conditions		Liquid	
Flow, rated	: 132.1 USgpm	Liquid type	: Water
Head, rated (requested)	: 235.1 ft	Additional liquid description	:
Head, rated (actual)	: 235.1 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available	: Ample	Temperature	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density	: 1.000 / 1.000 SG
Performance		Viscosity	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.34 psi.a
Speed	: 1750 rpm	Material	
Impeller dia.	: 6.13 in	Material selected	: Standard
Impeller diameter, maximum	: 6.13 in	Pressure Data	
Impeller diameter, minimum	: 6.13 in	Maximum working pressure	: 224.9 psi.g
Efficiency	: 46.50 %	Maximum allowable working pressure	: 300.0 psi.g
True Weighted Efficiency	: 20.21 %	Maximum allowable suction pressure	: 175.0 psi.g
NPSH required / margin required	: 13.40 / 0.00 ft	Hydrostatic test pressure	: 284.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 564 / 2,872 US Units	Driver & Power Data (@Max density)	
MCSF	: -	Driver sizing specification	: Rated power
Head max.	: 519.6 ft	Margin over specification	: 0.00 %
Head rise to shutoff	: 133.83 %	Service factor	: 1.00
Flow, best eff. point	: 132.1 USgpm	Power, hydraulic	: 7.84 hp
Flow ratio, rated / BEP	: 100.00 %	Power, rated	: 16.87 hp
Diameter ratio (rated / max)	: 100.00 %	Power, maximum	: 29.68 hp
Head ratio (rated dia / max dia)	: 100.00 %	Motor rating	: 20.00 hp / 14.91 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		





Item number	: 001	Size	: K-6TRL	Flow, rated	: 132.1 USgpm
Service	:	Stages	: 2	Head, rated	: 235.1 ft
Quantity	: 1	Speed	: 1750 rpm	NPSH required	: 13.40 ft
Quote number	: 25068	Based on curve number	: K-6 TRL 4P Rev 0.0	Fluid density	: 1.000 / 1.000 SG
Date last saved	: 27 Oct 2022 10:47 PM	Efficiency	: 46.50 %	Viscosity	: 1.00 cP
		Power, rated	: 16.87 hp	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00