GRISWOLD 311LF

ANSI CENTRIFUGAL PUMPS FOR LOW FLOW APPLICATIONS

PERFORMANCE DARE TO **COMPARE**

GRISWOLD ANSI PROCESS PUMPS DESIGNED FOR LOW FLOW SERVICES. Ft. 180-**INCREASED CAPABILITY** FOR REDUCED VOLUMES LF 2x1-10 @3560 RPM Standard ANSI pumps (with expanding 150 **811LF** PERFORMANCE: style volute casing) are not designed for low flow, high head applications: the With a traditional ANSI pump, throttling or recirculatexcessive radial loads and shaft vibration ing flow to attain low flow conditions causes excessive 120 experienced can shorten bearing and seal radial load and shaft deflection-all of which can result life. Griswold's Model 811LF series is in premature failure to bearings and mechanical seals. designed with a circular concentric cas-Griswold 811LF pumps feature flow capacities as low ing in conjunction with a radial vane LF 11/3×1-8 @3560 RPM as 4 GPM, and heads as high as 550'-low flow/high impeller to reduce those excessive radial A 10 10 head performance you can count on to further extend loads and minimize shaft deflection, thus your MTBPM. extending MTBPM. LF 2x1-30 **CIRCULAR CONCENTRIC VOLUTE CASING:** capacity (60Hz) The fully machined concentric volute reduces excessive radial loads experienced in low flow, high head applications. Shaft vibration and deflection is mini-FOUR 811LF MODELS mized, extending bearing and mechanical seal life. Class 150 raised face flanges are standard LF 11/2 x 1- 8@ 1750 RPM with the Model 811LF series for positive seal-LF 11/2 x 1-8@ 3500 RPM ing. Class 300 raised face flanges are available LF 2 x 1-10 @ 1750 RPM as an option. LF 2 x 1-10 @ 3500 RPM 811LF CAPACITIES 4 GPM to 70 GPM Heads to 550' LOW FLOW RADIAL VANE IMPELLER: Griswold's radial vane impellers are specially designed to reduce the thrust load and seal chamber pressure normally associated with low flow applications. When operating in **RETROFITTING:** reduced volume conditions, the low flow impeller's vanes provide better hydraulic con-Griswold Model 811LF pumps are ANSI dimensional, trol than traditional ANSI impellers. Balance so they can be installed without piping or base changes holes reduce both axial thrust and seal chamto existing equipment. In fact, since all other parts and ber pressure, extending bearing and seal life. features are identical/interchangeable within the entire 811 ANSI line, the 811LF case and impeller can be easily retrofitted to an existing Griswold pump as well as 100,000s of other ANSI pumps already in service!

GRISWOLD



GRISWOLD PUMP COMPANY

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PUMP DATA SHEET

Griswold Pump Company

Selection list: ---

Search Criteria:

Flow: --- US gpm Head: --- ft Tolerance: --- % of head

Fluid: Water

Temperature: 60 °F SG: 1 Viscosity: 1.105 cP Vapor pressure: 0.2563 psi a Atm pressure: 14.7 psi a

NPSHa: --- ft

Advanced Criteria:

Preferred Operating Area: ---Secondary Operating Point: ---Max temperature: --- °F Max suction pressure: --- psi g Max sphere size: --- in Max power: --- bhp Max suction specific speed: --- (Nss) Min trim: --- % of max diameter Min head rise: --- % to shutoff

Curve Corrections: none

Head: 70 ft

Eff: 23%

Power: 1.59 bhp

Shutoff Head: 83 ft

-- Max Curve --Max Pwr: 1.66 bhp

NPSHr: 2.94 ft

BEP: 23% eff

Sphere size: --- in Power: --- bhp Motor: 2 hp Speed: 1800

Pump: 1.5x1-8 AA Type: 811-LF

Dia: 8 in

Specific Speeds

Suction: 1.5 in

Temperature: --- °F

Pressure: --- psi g

Ns: ---

Dimensions:

Pump Limits:

Synch speed: 1800 rpm

Speed: 1750 rpm

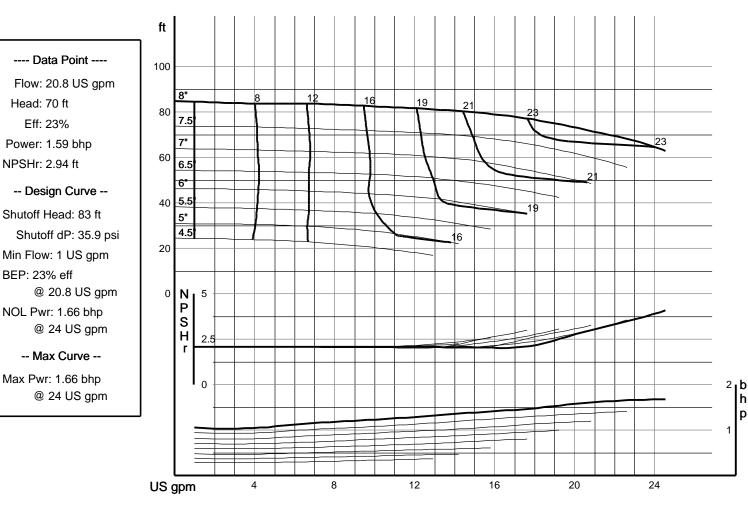
Curve no.: GLF-1804

Frame: 145T Standard: NEMA Enclosure: TEFC Sizing criteria: Max Power on Design Curve

Catalog: Griswold Pump Company 60hz 1.3 vers 1.3

Nss: ---

Discharge: 1 in



PUMP DATA SHEET

h p

Griswold Pump Company

Selection list: ---

Search Criteria:

Flow: --- US gpm Head: --- ft Tolerance: --- % of head

Fluid: Water

Temperature: 60 °F SG: 1 Viscosity: 1.105 cP Vapor pressure: 0.2563 psi a Atm pressure: 14.7 psi a

NPSHa: --- ft

Advanced Criteria:

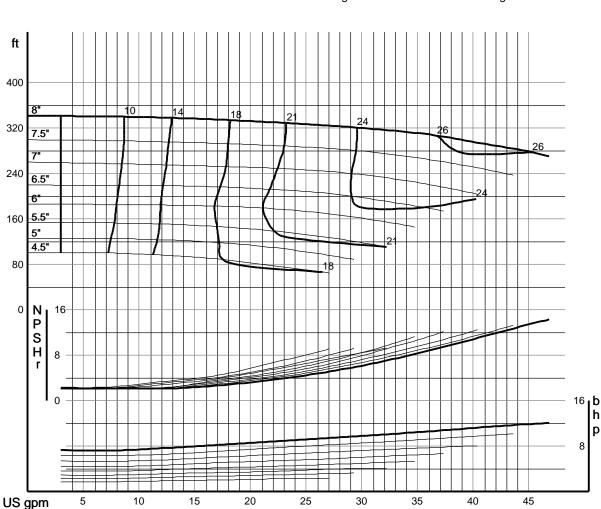
Preferred Operating Area: ---Secondary Operating Point: ---Max temperature: --- °F Max suction pressure: --- psi g Max sphere size: --- in Max power: --- bhp Max suction specific speed: --- (Nss) Min trim: --- % of max diameter Min head rise: --- % to shutoff

Curve Corrections: none

---- Data Point ----Flow: 40.8 US gpm Head: 285 ft Eff: 26% Power: 11.3 bhp NPSHr: 11.1 ft -- Design Curve --Shutoff Head: 335 ft Shutoff dP: 145 psi Min Flow: 3 US gpm BEP: 26% eff @ 40.8 US gpm NOL Pwr: 11.9 bhp

@ 46.5 US gpm -- Max Curve --

Max Pwr: 11.9 bhp @ 46.5 US gpm



Catalog: Griswold Pump Company 60hz 1.3 vers 1.3

Nss: ---

Discharge: 1 in

Pump: 1.5x1-8 AA Type: 811-LF Synch speed: 3600 rpm Speed: 3500 rpm Dia: 8 in Curve no.: GLF-3604

Specific Speeds

Ns: ---

Dimensions: Suction: 1.5 in

Pump Limits: Temperature: --- °F Pressure: --- psi g Sphere size: --- in Power: --- bhp

Motor: 15 hp

Speed: 3600 Frame: 254T Standard: NEMA Enclosure: TEFC Sizing criteria: Max Power on Design Curve

PUMP DATA SHEET

Griswold Pump Company

Selection list: ---

Search Criteria:

Flow: --- US gpm Head: --- ft Tolerance: --- % of head

Fluid: Water

Temperature: 60 °F SG: 1 Viscosity: 1.105 cP Vapor pressure: 0.2563 psi a Atm pressure: 14.7 psi a

NPSHa: --- ft

Advanced Criteria:

Preferred Operating Area: ---Secondary Operating Point: ---Max temperature: --- °F Max suction pressure: --- psi g Max sphere size: --- in Max power: --- bhp Max suction specific speed: --- (Nss) Min trim: --- % of max diameter Min head rise: --- % to shutoff

Curve Corrections: none

Head: 119 ft

Eff: 25%

Power: 3.91 bhp

NPSHr: 2.57 ft

BEP: 25% eff

Catalog: Griswold Pump Company 60hz 1.3 vers 1.3

Nss: ---

Pump: 2x1-10 A05 Type: 811-LF Synch speed: 1800 rpm Speed: 1750 rpm Dia: 9.75 in Curve no.: GLF-1810

Specific Speeds

Ns: ---

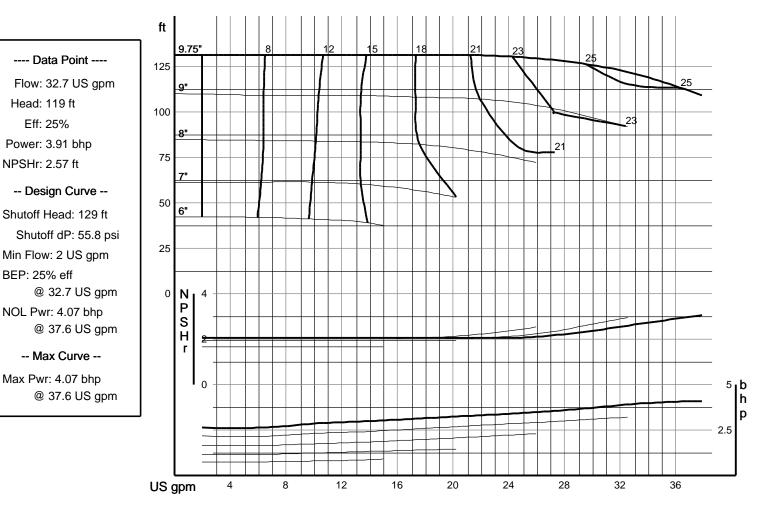
Dimensions: Suction: 2 in

Discharge: 1 in

Pump Limits: Temperature: --- °F Pressure: --- psi g Sphere size: --- in Power: --- bhp

Motor: 5 hp

Speed: 1800 Frame: 184T Standard: NEMA Enclosure: TEFC Sizing criteria: Max Power on Design Curve



PUMP DATA SHEET Griswold Pump Company

Selection list: ---

Search Criteria:

Flow: --- US gpm Head: --- ft Tolerance: --- % of head

Fluid: Water

Temperature: 60 °F SG: 1 Viscosity: 1.105 cP Vapor pressure: 0.2563 psi a Atm pressure: 14.7 psi a

NPSHa: --- ft

Advanced Criteria:

Preferred Operating Area: ---Secondary Operating Point: ---Max temperature: --- °F Max suction pressure: --- psi g Max sphere size: --- in Max power: --- bhp Max suction specific speed: --- (Nss) Min trim: --- % of max diameter Min head rise: --- % to shutoff

Curve Corrections: none

---- Data Point ----

Flow: 65.8 US gpm

Head: 497 ft

Eff: 30%

Power: 27.4 bhp

-- Design Curve --

Shutoff Head: 537 ft Shutoff dP: 232 psi

Min Flow: 9 US gpm BEP: 30% eff

NOL Pwr: 28.6 bhp

-- Max Curve --Max Pwr: 28.6 bhp

@ 72.6 US gpm

NPSHr: 7.16 ft

Catalog: Griswold Pump Company 60hz 1.3 vers 1.3

Nss: ---

Discharge: 1 in

Pump: 2x1-10 A05 Type: 811-LF Synch speed: 3600 rpm Speed: 3560 rpm Dia: 9.75 in Curve no.: GLF-3610

Specific Speeds

Ns: ---

Dimensions: Suction: 2 in

Pump Limits: Temperature: --- °F Pressure: --- psi g Sphere size: --- in Power: --- bhp

Motor: 30 hp

Speed: 3600 Frame: 286TS Standard: NEMA Enclosure: TEFC Sizing criteria: Max Power on Design Curve

