

SUBMITTAL

Quote ID: 3302-220120-019:0:1 QTY: 1 VIT-CAFM 12CHC, 5 Stages

PERFORMANCE ON DESIGN CURVE AT 1770 RPM

		· · · · · · · · · · · · · · · · · · ·	A		
	Shut Off	Design [2]	Run Out [5]		
Flow (USGPM)	0.0	1021.0	1493.0	Best Efficiency	86,70 % at 1083.0 USgpm
TDH-Bowl (ft)	464.0	394.0	278.0	Design Flow % BEP	94.28 %
TDH-Disch Flange (ft)	458.4	387.8	271.1	Pump Efficiency	86.15 %
Bowl Efficiency (%)	-	86.60	76.80	Overall Efficiency	80.90 %
Guaranteed Bowl Efficiency (%)	4444	82.27		NOL Power	136.0 Hp at 1493.0 USgpm
Power (Hp)	56.5	117.0	136.0	Specified NPSH Ratio	1.1
Guaranteed Power (Hp)		126.4		Thrust Load Power Loss	0.41103 Hp
NPSHr (ft) [1]	-	12.8	22.2	Total Flow Derate Factor	1.00
NPSH Margin (ft) [1]		23.4	14.0	Total Head Derate Factor	1:00
Hydraulic Thrust(lb)	3478.0	2956.0	2087.0	Total Efficiency Derate Factor	1.00
Thrust (lb)	3713.8	3177.4	2284.5	Actual Submergence	44.50 in
Pressure-Bowl (psi)	200.9	170.6	120.3	Shaft Friction Power Loss	0.04 Hp
Pressure-Disch Flange (psi)	198.4	167.9	117.4	Min Flow (MCSF)	271.0 USgpm
Min Submergence (Inch) [3]	-	26.52	33.47	kWh per 1000 gal	1.48655
Friction Loss (ft) [4]	÷	0.60	1.28	Impeller Running Clearance	0.13 in
Lineshaft Elongation (Inch)	0.00255	0.00217	-		
Column Elongation (Inch)	0.00074	0.00062			
Lateral (Inch)	0.13182	0.13155	-		

[1] at 1st impeller eye

[2] rated values

[3] from pump suction inlet

[4] from bowl to disch flange

[5] per published data

OPERATING CONDITIONS

OI LIMING CONDITIONS	
Specified Flow	1021.00 USgpm
Specified TDH	383.00 ft
Rated Speed	1770 RPM
Atmospheric Pressure	14.70 psi
TPL	9.00 ft
Pumping Level	5.00 ft
NPSHa at 1st Impeller	36.2 ft
NPSHa at Grade	34.0 ft
Operational Design	Constant Speed

FLUID CHARACTERISTICS

	Density	62 lb	s/ft³
sď	Vapor Pressure		
	Viscosity		17 cP
	Specific Gravity	1.00	
	Fluid Temperature	68.0	
	Fluid	Wate	

MATERIALS & DIMENSIONS

Cast Iron with Glass Enamel
316SS
416SS
Taper Lock
Carbon Steel
Bell
Cast Iron
316SS
Chrome Plated Iron
Chrome Plated Iron

Bowl Data Impeller Trim 8.63 in **Bowl Pressure Limit** 380 psi Model Max Sphere Size 0.94 in Available Lateral 0.75 in

Bowl Shaft Diameter 1 11/16 in [42.9 mm] Manufacturer's Standard Impeller Balance Impeller Design Enclosed **Bowl Shaft Power Limit** 374.47 Hp

Bowl Assembly Provided By Xylem

Bowl Specials

Column Data Column Data 8 in [203 mm] Column Type Flanged **Column Diameter**

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Column Data

Lineshaft Diameter Column Bolting Column Pipe Material Lineshaft Material Lineshaft Coupling Type **Lineshaft Coupling Material**

Column Loss Column Velocity Column Flange

1 1/2 in [38.1 mm] Carbon Steel Carbon Steel 416SS Threaded

0.08 ft 6.79 ft/s Carbon Steel

416SS

Column Data

Bearing Retainer Design Maximum Bearing Spacing Max Column Section Length Column Wall Thickness Lubrication Method

Lineshaft Power Limit Column Assembly Provided By Not Included

5 ft [1.5 m] Spacing 60 in

0.32 in (Open LS) Product Lube

255 Hp Xylem

Column Specials

Head Data

Head Type **Discharge Flange Rating Disch Flange Pressure Limit Head Design** Discharge Head Material **Headshaft Material Headshaft Coupling Type Headshaft Coupling Material**

Headshaft Diameter Discharge Head Size Discharge Head BD

CA (Cast Iron A)

125 # 175 psi One Piece Head Cast Iron 416SS

Threaded 416SS 1.50 in 8 in [203 mm] 16.5 in [419 mm] Head Data

Sealing Method Packing Material Stuffing Box Material Stuffing Box / Seal Hsg Bolt Stuffing Box / Seal Hsg Brg Head Loss

Head Bolting Split Gland Head Assembly Provided By Packing

Acrylic Yarn and Graphite

Cast Iron 316SS

Chrome Plated Iron

0.52 ft 316SS 316SS **Xylem**

Head Specials

Motor Data

Driver Type Manufacturer **HP Rating** Speed [Poles]

Voltage Phase / Frequency **Enclosure** Efficiency / Config

Motor Efficiency Motor Frame BD BX / U

Vertical Hollow Shaft Motor

ÚS 150 Hp

1800 rpm [4 pole]

460 V 3 PH / 60 Hz TEFC Corro-Duty

Premium 95.80 % 447TP

16.5 in 1.50 in

Enamel

Motor Data

Thrust Level Thrust Capacity Inverter Duty Steady Bushing Coupling

SF** / Insulation Mfg Catalog Number

Motor Part Number Motor Provided By Motor Mounted By

100% HT 9300 lbs Yes Yes

NRR w/ Steady Bushing

1.15 H

CHT150V2CLG

H150C2A1GE-CVRU-100A0C000

Xylem Customer

Motor Specials

Coating Data

Bowl OD

Goulds Water Technology Blue

Coating Data

Column OD

Head OD

Goulds Water Technology Blue

Enamel

Goulds Water Technology Blue

Enamel

Testing Data

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Engineering Services			Engineering Services Notes
Miscellaneous Specials	- 21 - 11 - 11 - 11 - 11 - 11 - 11 - 11		
Assembly and Crating Assembly Crating	Fully / Export	Assembled Skid	Assembly and Crating Notes In general, pumps are crated and shipped fully assembled* via standard freight methods (LTL/LCL) if overall crated length is 25 ft or less and weight is 2500 lbs or less. Up to 45 ft and 4000 lbs can still be fully assembled but will ship via dedicated freight methods (FTL/FCL/flatbed/air/special). Otherwise, each sub-assembly (bowl, column, and head) is crated separately ("column loose"). *Motors, suction cans, mechanical seals, spare parts, and other special items
Weight Data Total Bowl Weight	759 lb		are crated separately. Coordinate specific expectations with the factory at time of order. Weight Data Motor Weight 2300 lbs Total Weight 3699 lbs
Total Column Weight Head Weight	180 lb 460 lb		Total Weight 3699 lbs
Comments Duplicate of S/N 601941	new standard 316	SSS impellers	
INFO. WARNING & ERRI	OR MESSAGES		
Discharge Flange Rating	Invalid	for more options.	ge) is greater than 175 psi. There are no Flange Ratings available. Change the Head Type
	Warning	The Shut Off Pressure (Disch Flang Discharge Flange Rating	ge) 198.4 psi is greater than the Discharge Flange Pressure Limit 175 psi. Select a valid
Our offer does not include spe design specifications. Should and provide copies for review a	any Statutory or Re	gulatory requirements need to be	gulatory Requirements, and the offer is limited to the requirements of the reviewed and incorporated, then the Customer is responsible to identify those
	ordance with our co		d in our proposal and governed by our standard terms and conditions of sale –

For units requiring a factory performance test, all performance tests will be conducted per ANSI/HI 14.6 standards unless otherwise noted. As a standard, test results for the primary design point meeting grade 2B tolerances for pumps with a rated shaft power of 134 hp or less and grade 1B for greater than 134 hp will be considered passing. If secondary or tertiary design points are required to be tested, these will be subject to grade 3B tolerances. For testing of more than 3 points, consult the factory. Other acceptance grades are available and must be clearly noted and mutually agreed upon between the Customer and Xylem before release to manufacture.

Holding shipment for testing approval allows 2 weeks of production lead time for the approval process, after which Xylem reserves the right to ship passing pumps without explicit approval. For approval processes exceeding 2 weeks, please consider that additional lead time and coordinate expectations with the factory. For faster shipment, select "No" to the hold shipment for testing approval option.

For units not requiring a factory performance test, product performance can be expected to meet 3B tolerances primarily due to the variability of field conditions. Field-measured performance may vary from factory-measured performance or published data as a result of unknown or unpredictable system conditions and measurement variability. If field performance testing is required after installation, factory performance testing before shipment is strongly recommended. Field performance test results do not constitute a warranty claim unless verified by Xylem.

The information provided in this submittal is published data nominally representative of the selected pump model's performance characteristics. If factory

performance testing is included, actual as-tested performance curves for each tested pump will be provided after testing is complete. Impeller trim diameter is subject to change to meet intended design conditions.

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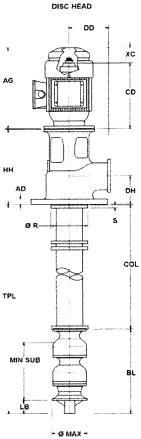


OUTLINE DRAWING

Quote ID: 3302-220120-019:0:1 QTY: 1 VIT-CAFM 12CHC, 5 Stages

"J" DIA "K"PLCS EQ SP ON "H" BC





K [Mounting Hole Places] H [Mounting Flange Bolt Circle] 21.25 AG [Motor Height] 51.63 CD [Motor Coupling Height] 46.00 XC [Top Hdshft to top VHS Motor] 4.63 BD [Motor Base Dia] 16.50 Discharge Head Size 8.00 BD Head [Discharge Head Base Dia] 16.50 HH [Head Height] 17.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Stickout] 7.50 S [Hanger Flange Stickdown 1.00 Length] 7.50 S [Hanger Flange OD] 12.25 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	Dim G [Mounting Flange Dia]:	23.50 ii
H [Mounting Flange Bolt Circle] 21.25 AG [Motor Height] 51.63 CD [Motor Coupling Height] 46.00 XC [Top Hdshft to top VHS Motor] 4.63 BD [Motor Base Dia] 16.50 Discharge Head Size 8.00 BBD Head [Discharge Head Base Dia] 16.50 Dia] 17.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Stickout] 7.50 S [Hanger Flange Stickdown 1.00 Length] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	J [Mounting Flange Hole Dia]	0.75 ii
AG [Motor Height] 51.63 CD [Motor Coupling Height] 46.00 XC [Top Hdshft to top VHS Motor] 4.63 BD [Motor Base Dia] 16.50 Discharge Head Size 8.00 BBD Head [Discharge Head Base Dia] 16.50 Dia] 16.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Stickout] 7.50 S [Hanger Flange Stickdown 1.00 Length] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	K [Mounting Hole Places]	
CD [Motor Coupling Height] 46.00 XC [Top Hdshft to top VHS Motor] 4.63 BD [Motor Base Dia] 16.50 Discharge Head Size 8.00 BD Head [Discharge Head Base Dia] 16.50 HH [Head Height] 17.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Height] 7.50 S [Hanger Flange Stickdown 1.00 Length] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	H [Mounting Flange Bolt Circle]	21.25 ii
XC [Top Hdshft to top VHS Motor] 4.63 BD [Motor Base Dia] 16.50 Discharge Head Size 8.00 BD Head [Discharge Head Base Dia] 16.50 Dia] 16.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Stickout] 7.50 S [Hanger Flange Stickdown	AG [Motor Height]	51.63 li
BD [Motor Base Dia] 16.50 Discharge Head Size 8.00 BD Head [Discharge Head Base Dia] 16.50 BD Head [Discharge Head Base Dia] 16.50 HH [Head Height] 17.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Height] 7.50 S [Hanger Flange Stickdown 1.00 Length] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	CD [Motor Coupling Height]	46.00 ii
Discharge Head Size	XC [Top Hdshft to top VHS Motor]	4.63 i
BD Head [Discharge Head Base Dia] HH [Head Height] 17.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Height] 7.50 S [Hanger Flange Stickdown 1.00 Length] 1.00 R [Hanger Flange OD] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	BD [Motor Base Dia]	16.50 ii
Dia] 16.50 HH [Head Height] 17.50 AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Height] 7.50 S [Hanger Flange Stickdown 1.00 Length] 1.225 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	Discharge Head Size	8.00 ii
AD [Mounting Flange Thickness] 1.88 DD [Disch Flange Stickout] 13.00 DH [Disch Flange Stickout] 7.50 S [Hanger Flange Stickdown 1.00 Length] 1.2.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	BD Head [Discharge Head Base Dia]	16.50 ii
DD [Disch Flange Stickout] 13.00	HH [Head Height]	17.50 i
DH [Disch Flange Height] 7.50 S [Hanger Flange Stickdown 1.00 Length] 1.25 R [Hanger Flange OD] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	AD [Mounting Flange Thickness]	1.88 i
S [Hanger Flange Stickdown 1.00 Length] 1.25 R [Hanger Flange OD] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	DD [Disch Flange Stickout]	13.00 i
Length] 1.00 R [Hanger Flange OD] 12.25 Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	DH [Disch Flange Height]	7.50 i
Column Length (COL) 42.62 COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	S [Hanger Flange Stickdown Length]	1.00 i
COL [Column Diameter] 8.00 TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	R [Hanger Flange OD]	12.25 i
TPL [Total Pump Length] 108.00 MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	Column Length (COL)	42.62 i
MIN SUB [Minimum Submergence] 26.52 LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	COL [Column Diameter]	8.00 i
LB [Length to Bottom] 3.50 MAX [Max Assembly OD] 12.25	TPL [Total Pump Length]	108.00 i
MAX [Max Assembly OD] 12.25	MIN SUB [Minimum Submergence]	26.52 i
ins or [max7.000mb] OD]	LB [Length to Bottom]	3.50 i
	MAX [Max Assembly OD]	12.25 i
- 100. Example 1	BL [Bowl Assembly Length]	65.38 i
SU [Shaft Stickup] 8.00	SU [Shaft Stickup]	8.00 i

PUMP DATA

Column Diameter	8 in [203 mm]
Lineshaft Diameter	1 1/2 in [38.1 mm]
Specified Flow	1021.00 USgpm
Specified TDH	383.00 ft
Pumping Level	5.00 ft
Motor Manufacturer	US
Driver Type	Vertical Hollow Shaft Motor
Selected Motor Power	150.00 Hp
Motor Speed	1770 RPM
Phase / Frequency	3 PH / 60 Hz
Voltage	460 V

WEIGHTS

Total Bowl Weight	759 lbs
Total Column Weight	180 lbs
Head Weight	460 lbs
Motor Weight	2300 lbs
Total Weight	3699 lbs

NOTES

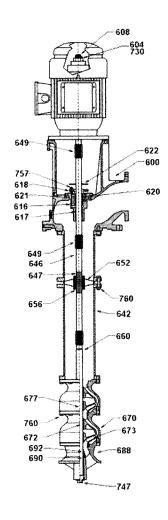
- 1 Total Pump Length ± 1.0 inch.
- Tolerance on all dimensions is .12 or ± .12 inch per 5 ft, whichever is greater.
- 3 All dimensions shown are in inches unless otherwise specified.
- 4 Drawing not to scale.
- 5 1/2" NPT Gauge Conn (plugged)
- 6 Driver may be rotated at 90° intervals about vertical centerline for details refer to driver dimension drawing.
- 7 Refer to product IOM for impeller setting requirements.
- This assembly has been designed so that its natural frequency responses avoid the specific operating speeds by an adequate safety margin. The design has assumed the foundation to be rigid.

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CROSS SECTION DRAWING

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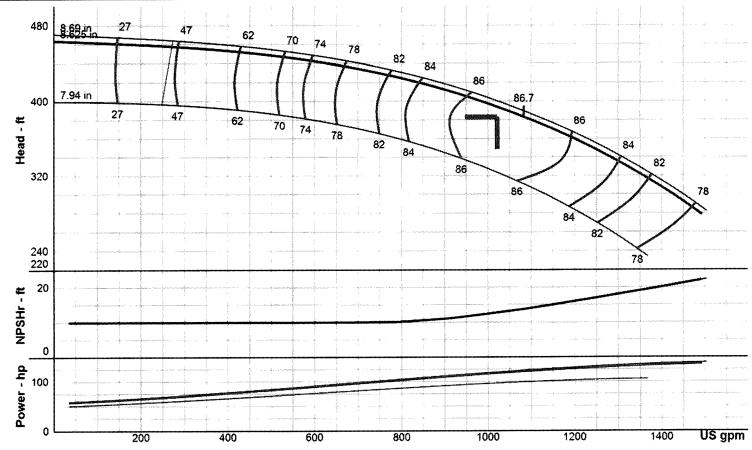
	E	BILL OF M	IATERIALS	
ITE	M PART NAME	COD	E MATERIAL	ASTM#
Hea	nd Assembly			
608	Headshaft	2227	SST 416	A582 S41600
600	Head - Discharge	1003	Cast Iron CL 30	A48 CLASS 30B
604	Nut - Adjusting	2242	Carbon Steel 1018	A108
616	Box - Stuffing	1003	Cast Iron CL 30	A48 CLASS 30B
617	Bearing - Seal Housing	6714	Cast Iron Chrome PL	6714 REV 0
618	Gland - Split	1203	SST 316	A744M
620	Packing	5026	Graphite Packing	ML402-99
621	O-Ring	5302	Nitrile Buna N	D4322
622	Slinger	5121	Rubber EPDM	D3568
649	Coupling - Headshaft	2265	SST 416	A582M
730	Key - Motor Gib	2242	Carbon Steel 1018	A108
757	Screw - Gland Adj	2229	SST 316	A276
760	Capscrew - Hex	2229	SST 316	A276
Col	umn Assembly			
637	Flange - Column	9645	Carbon Steel Fab	A53
642	Pipe - Column	9645	Carbon Steel Fab	A53
646	Lineshaft	2227	SST 416	A582 S41600
649	Coupling - Lineshaft	2265	SST 416	A582M
Bo	wl Assembly			
660	Bowlshaft	2227	SST 416	A582 S41600
670	Bowl - Intermediate	6911	Cast Iron CL 30 Enamel	A48
672	Bearing - Intermediate Bowl	6714	Cast Iron Chrome PL	6714 REV 0
673	Impeller	1203	SST 316	A744M
677	Taperlock - Impeller	2242	Carbon Steel 1018	A108
688	Suction	1003		A48 CLASS 30B
690	Bearing - Suction	6714	Cast Iron Chrome PL	6714 REV 0
760	Capscrew - Hex	2229	SST 316	A276

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PERFORMANCE CURVE

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Curve & hydraulic data presented is nominal performance based on ANSI/HI 14 6 acceptance grade 2B.

Design values are guaranteed within the following tolerances: Flow ± 8%. Head ± 5% and optionally either Power + 8% or Efficiency - 5% at manufacturer's discretion

Specified Flow	1021.00 USgpm	Shut Off Pressure (Bowl)	200.9 psi	Driver Size Criteria	NOL Power Across
Specified TDH	383.00 ft	Shut Off Pressure (Disch Flange)	198.4 psi		Design Curve
Rated Speed	1770 RPM	Run Out Flow	1493.0 USgpm	Allow Service Factor	No
Atmospheric Pressure	14.70 psi	Run Out TDH (Bowl)	278.0 ft	kWh per 1000 gal	1.48655
Pumping Level	5.00 ft	Run Out TDH (Disch Flange)	271.1 ft	NPSHr at Design	12.8 ft
NPSHa at Grade	34.0 ft	Run Out Pressure (Bowl)	120.3 psi	NPSH Margin at Design	23.4 ft
NPSHa at 1st impeller	36.2 ft	Run Out Pressure (Disch Flange)	117.4 psi	Min Submergence at Design	26.52 in
Fluid	Water	Bowl Efficiency at Design	86.60 %	Actual Submergence	44.50 in
Fluid Temperature	68.0 °F	Guaranteed Bowl Efficiency	82.27 %	Thrust K-Factor	7.5 lbpft
Specific Gravity	1,0000	Best Efficiency	86.70 %	Thrust at Design	3177.4 lb
Viscosity	1,0017 cP	BEP Flow	1083.0 USapm	Thrust at Shut Off	3713.8 lb
Vapor Pressure	0.3393 psi	Design Flow % BEP	94.28 %	Thrust at Run Out	2284.5 lb
Density	62 lbs/ft ³	Pump Efficiency	86.15 %	Bowl Material	Cast Iron with Glass
Design Flow	1021.0 USgpm	Motor Efficiency	95.80 %		Enamel
Min Flow (MCSF)	271.0 USapm	Overall Efficiency	80.90 %	Bowl Material Derate Factor	1,00
Design TDH (Bowl)	394.0 ft	Friction Loss at Design	0.60 ft	Impeller Material	316SS
Design TDH (Disch Flange)	387.8 ft	Power at Design	117.0 Hp	Impeller Matl Derate Factor	1.00
Design Pressure (Bowl)	170.6 psi	Guaranteed Power	126.4 Hp	Total Flow Derate Factor	1.00
Design Pressure (Disch Flange)	167.9 psi	NOL Power	136.0 Hp	Total Head Derate Factor	1.00
Shut Off TDH (Bowl)	464.0 ft	Max Power (NOL) Flow	1493.0 USgpm	Total Efficiency Derate Factor	1.00
Shut Off TDH (Disch Flange)	458.4 ft	Recommended Power	150.00 Hp		

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