



VOIGT-ABERNATHY

Centrifugal Pump Data Sheet

Rev. No.: _____ Rev. Date: _____

Voigt-Abernathy
www.voigt.com

Usage key— data provided by: Purchaser Supplier Supplier if not by purchaser

1 Issued for: Proposal Purchase As built

2 Facility name / location: _____

3 Item name: _____ Purchaser / location: _____

4 Item tag number: _____ Job number: _____

5 Service: _____ Purchaser order number: _____

6 Unit: _____ Supplier / location: _____

7 P&ID number: _____ Supplier order / serial numbers: _____ / _____

● GENERAL

9 No. of pumps req.: _____ Motor item number: _____

10 ▲ Pump size: _____ Motor provided by: _____

11 ▲ Pump model: _____ Motor mounted by: _____

12 ▲ Pump type: _____ Variable speed operation: Yes No

● Operating Conditions

Point #:	Additional duty points (max., min., or VS)					
	Rated	1	2	3	4	
15						(gpm)
16						(ft)
17						(ft)
18						(psig)
19						(rpm)

22 System design:

23 Suction pressure: min. / max.: _____ / _____ (psig)

24 Suction temperature: min. / max.: _____ / _____ (°F)

25 Stand-alone operation

26 Parallel operation with item no.: _____

27 Series operation with item no.: _____

28 Service:

29 Continuous Intermittent: _____ starts/day

30 System control method:

31 Speed Throttle System Resistance Only

● Pumped Fluid

35 Pumped fluid: _____

	RATED	MAX.	NORMAL	MIN.
37 Pumping temperature: _____ (°F)				
<i>*At pumping temperatures designated above</i>				
39 Specific gravity*:				
40 Vapor pressure*:				
41 Viscosity*:				
42 Specific heat*:				

43 Atm pressure boiling point: _____ (°F) @ _____ (psia)

44 Liquid: Hazardous Flammable pH: _____

45 Other: _____

47 Corrosion / erosion caused by: _____

48 % solids: _____ Max. particle size: _____ (in.)

49 Other: _____

■ Performance

Performance curve number: _____ ▲ Speed: _____ (rpm)

Total differential head @ rated impeller: _____ (ft)

Maximum differential head @ rated impeller: _____ (ft)

Point #:	1	2	3	4	5
18 NPSHR:					

(ft)

Minimum continuous stable flow: _____ (gpm)

Allowable operating region: _____ to: _____ (gpm)

Best efficiency point for rated impeller: _____ (gpm)

Suction specific speed: _____

Impeller diameter: Rated: _____ Max.: _____ Min.: _____ (in.)

Pump rated power: _____ (BHP) Efficiency: _____ (%)

Maximum power with rated impeller: _____ (BHP)

Case pressure rating:

Maximum allowable working pressure: _____ (psig) @ _____ (°F)

Hydrostatic test pressure: _____ (psig)

● Site Conditions and Utilities

Location:

Indoor Outdoor Altitude: _____ (ft)

Range of ambient temperatures: min. / max.: _____ / _____ (°F)

Electrical area classification: NONHAZARDOUS

Cl.: _____ Div. or Zone: _____ Gr.: _____ T Code: _____

Electricity	Voltage	Phase	Hertz
Drivers			
Heating			

Cooling water: Source: _____

Supply temp.: _____ (°F) Max. return temp.: _____ (°F)

Supply pressure: _____ (psig) Design press.: _____ (psig)

Min. return press. _____ (psig) Max. allow. D.P. _____ (psig)

Chloride concentration: _____ (ppm)

● General Remarks

Number	Date	Data Revision Description	By	Approved
50				
51				
52				
53				



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Mechanical Data

▲ **Impeller Type:**
 Closed Open Semi-open

▲ **Casing Mounting:**
 Foot Centerline
 Vertical in-line

■ **Bearings:**
 ▲ Bearing manufacturer: _____
 Radial bearing type: _____ No.: _____
 Thrust bearing type: _____ No.: _____
 ▲ Bearing isolators: Labyrinth (standard)
 Magnetic seal
 Manufacturer: _____

▲ **Lubrication:**
 Flood Pure mist Shielded (grease)
 Grease Purge mist Sealed (grease)
 Magnetic drain plug in housing required
 ▲ Oil cooler required
 ■ Oil viscosity: ISO grade: _____ Other: _____

Nozzle Connections:
 ▲ Size ▲ Rating ▲ Facing

Suction:			
Discharge:			

● **Aux. case connection:**
 Drain required
 ▲ Size: _____ (in.)
 Threaded Welded and flanged

▲ **Material**

Material class code: _____

Casing: _____

Impeller: _____

Cover: _____

Shaft: _____

Shaft sleeve: _____

Baseplate: _____

Casing gasket: _____

Impeller gasket: _____

Casing fasteners: _____

Gland fasteners: _____

Bearing housing: _____

Bearing housing adapter: _____

Bearing isolators: _____

Coupling guard: _____

Mechanical seal materials — see page 3

▲ **Coupling Between Pump and Driver**

Specification: _____

Manufacturer: _____

Type: _____

Size: _____

Model: _____

Spacer length: _____ (in.)

Coupling guard type:
 Pump supplier's standard
 Baseplate mounted
 Non-spark coupling guard required

Remarks: _____

▲ **Driver**

Power rating: _____ (hp) Speed: _____ (rpm)
 Drive hp selected for max. S.G.: _____ & max. visc.: _____ (cP)
 Driver specification: _____
 Driver manufacturer: _____
 Driver enclosure: _____ Driver frame: _____
 Remarks: _____

● **Baseplate**

Type: Grouted
 Pregouted
 Ungouted (anchored)
 Free standing ▲ Pump CL to foundation _____ (in.)
 Vertical in-line pump case support bracket

Design: Purchaser specification _____
 Pump supplier's standard

Remarks: _____

● **Paint, Shipment, and Storage Preparation**

Paint:
 Pump supplier's standard
 Other: _____

Shipment:
 Domestic Export Export boxing required

Storage:
 Outside Under roof Environmentally controlled
 Short term Long term (>6 months)

Environment:
 Supplier's standard preservation specification
 Purchaser storage specification: _____

■ **Unit shipping weight:** _____ (lb)

● **Tests and Inspections**

Test:	Unwitnessed	Witnessed	Certificate
Hydrostatic (ref. 7.2.1.1):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leak (ref. 7.2.1.4):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NPSHR (ref. 7.2.1.5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Performance (ref. 7.2.1.2):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opt. perf. acceptance criteria:	<input type="checkbox"/> Power	<input type="checkbox"/> Efficiency	<input type="checkbox"/> Neither
Additional data (ref. 7.2.1.3):	<input type="checkbox"/> Vibration	<input type="checkbox"/> Bearing temp.	
<input type="checkbox"/> Other perf. data: _____			
<input type="checkbox"/> Final inspection required Days notification required: _____			
<input type="checkbox"/> Dismantle and inspect after test			
<input type="checkbox"/> Casting repair procedure approval required			

Material certification required:
 Casing Cover Impeller Shaft
 Other: _____

Inspection required for connection welds:
 Manufacturer's standard Visual inspection

Inspection required for castings:
 Manufacturer's standard Visual inspection
 Other: _____

● **Manufacturer Documentation Required**

For supplier data requirements, refer to: _____

Remarks: _____

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1 **▲ Shaft Sealing** Mechanical seal Packing
 2 Furnished by: Supplier Purchaser
 3 Installed by: Supplier Purchaser

4 **▲ Seal Chamber** Taper bore Large cylindrical bore
 5 Universal cover Packing box
 6 Throat bushing: None Fixed bushing
 7 Floating bushing
 8 Throat bushing material: _____
 9 Jacketed seal chamber/packing box: Yes No
 10 For: Heating Cooling
 11 Remarks: _____
 12

13 **▲ Mechanical Seal** Cartridge Component
 14 (ref. Mand. App. II) Arrangement 1 (single seal)
 15 Arrangement 2 (dual unpressurized seal)
 16 Arrangement 3 (dual pressurized seal)
 17 Flexible element: Rotating Stationary
 18 B73.1 Mand. App. II configuration code: _____
 19 API 682 Category 1: Yes No
 20 Manufacturer: _____
 21 Model: _____
 22 Manufacturer code: _____
 23 Drawing number: _____
 24 Remarks: _____
 25

26 **▲ Seal Materials — Single or Inner Seal**
 27 Seal faces: Rotating face: _____
 28 Stationary face: _____
 29 Secondary seals: Rotating face: _____
 30 Stationary face: _____
 31 Sleeve: _____
 32 Springs: _____ Bellows: _____
 33 Metal parts: _____
 34 Remarks: _____
 35

36 **▲ Seal Materials — Outer Seal**
 37 Seal faces: Rotating face: _____
 38 Stationary face: _____
 39 Secondary seals: Rotating face: _____
 40 Stationary face: _____
 41 Sleeve: _____
 42 Springs: _____ Bellows: _____
 43 Metal parts: _____
 44 Remarks: _____
 45

46 **▲ Seal Gland** Material: _____
 47 Ports: Flush Drain Vent Quench
 48 Buffer/barrier fluid inlet Buffer/barrier fluid outlet
 49 Throttle bushing: Yes No
 50 Throttle bushing material: _____
 51 Remarks: _____

▲ Flush Plan — Single or Inner Seal
 Piping plan number(s) (ref. 5.6.1): _____
 External flush fluid: _____
 Supply temperature: Min. _____ Max. _____ (°F)
 Specific gravity: _____ Specific heat: _____
 Vapor pressure: _____ psia @ _____ (°F)
 Flow rate required: Min. _____ Max. _____ (gpm)
 Maximum flow rate allowed by process: _____ (gpm)
 Pressure required: Min. _____ Max. _____ (psig)
 Maximum pressure allowed by process: _____ (psig)
 Temperature required: Min. _____ Max. _____ (°F)
 Inner seal flush plan piping: Tube Pipe
 Other: _____
 Tube/pipe size: _____
 Tube/pipe material: 316SS Other _____
 Tube/pipe specification: _____
 Tube/pipe connections: Threaded Socket weld
 Unions Butt weld Tube fitting
 Other: _____
 Furnished by: Supplier Purchaser
 Remarks: _____

▲ Flush Plan — Outer Seal
 Piping plan number(s) (ref. 5.6.1): _____
 External flush fluid: _____
 Supply temperature: Min. _____ Max. _____ (°F)
 Specific gravity: _____ Specific heat _____
 Vapor pressure: _____ psia @ _____ (°F)
 Flow rate required: Min. _____ Max. _____ (gpm)
 Maximum flow rate allowed by process: _____ (gpm)
 Pressure required: Min. _____ Max. _____ (psig)
 Maximum pressure allowed by process: _____ (psig)
 Temperature required: Min. _____ Max. _____ (°F)
 MAWP flush plan: _____ psig @ min. temp. _____ (°F)
 _____ psig @ max. temp. _____ (°F)
 Outer seal flush plan piping: Tube Pipe
 Other: _____
 Tube/pipe size: _____
 Tube/pipe material: 316SS Other _____
 Tube/pipe specification: _____
 Tube/pipe connections: Threaded Socket weld
 Unions Butt weld Tube fitting
 Other: _____
 Furnished by: Supplier Purchaser
 Remarks: _____

▲ Quench Yes No
 Quench fluid: _____
 Flow rate: _____
 Remarks: _____



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▲ Auxiliary Equipment

Reservoir: Yes No

Furnished by: Supplier Purchaser

Drawing number: _____

Material: 316SS Other _____

Operating pressure: _____ (psig)

Operating temperature: _____ (°F)

MAWP of reservoir: _____ psig @ min. temp. _____ (°F)
 _____ psig @ max. temp. _____ (°F)

Code specification: _____

Code stamped: Yes No

Size: 3 gal 5 gal Other _____

Internal cooling coils: Yes No

Stand required: Yes No

Baseplate mounted: Yes No

Seal cooler: Yes No
 Water cooled Air cooled

Manufacturer: _____

Model: _____

API 682 design: Yes No

Splash shield: Yes No

Remarks: _____

▲ Heating and Cooling

Heating required Cooling required

Piping plan designation (ref. 5.6.1): _____

Piping plan furnished by: Supplier Purchaser

Fluid: _____

Temperature: Inlet: _____ Outlet: _____ (°F)

Maximum allowable differential temperature: _____ (°F)

Rated flow rate: _____ (gpm)

Supply pressure: _____ (psig)

Type: Tube Pipe Other _____

Tube/pipe size: _____

Tube/pipe material: 316SS Galvanized carbon steel
 Other _____

Tube/pipe specification: _____

Tube/pipe connections: Threaded Socket weld
 Unions Butt weld Tube fittings
 Other _____

Remarks: _____

▲ Remarks

▲ Instrumentation

Inner seal:	Indicator	Switch	Transmitter
Flow rate:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pressure:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remarks:	_____		
Outer seal:	Indicator	Switch	Transmitter
Flow rate:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pressure:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remarks:	_____		
Heating or cooling:	Indicator	Switch	Transmitter
Flow rate:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remarks:	_____		

▲ Packing

Packing code (P1-P4): _____ Number of rings: _____

Material: _____

Manufacturer: _____

Manufacturer style number: _____

Packing construction: _____

Sleeve hard surfacing: Yes No

Lantern ring: Yes No

Lantern ring port: Yes No

Remarks: _____