	<b>Ce</b> Rev No.:	Centrifugal Pump Data Sheet Rev No.: Rev Date:			No	Issue Date November 2019			
ASIVIE D73	ASME Centrifugal Pumps (US Customary Units) ASME B73.1, ASME B73.2 Page				Page 1 o	f 4			
Usage key - data provided by:	O Purchaser	Su	pplier	∆ Supplie	r if not by pu	rchaser			
1 Issued for:	Proposal		Purchase		As built				
2 Facility name / location:			P&ID number:						
3 Item name:			Purchaser / location:						
4 Item tag number:			Job number:	. —					
			Purchaser order num	iber:					
7 Number of numps required:			Supplier / location.	l numbers:			1		
8		O GEN					,		
9 A Pump size:		0	Driver item number:						
10 🛆 Pump model:			Driver provided by:						
11 🛆 Pump type: 🔄 Horizontal End Sucti	ion	Repeller	Driver mounted by:						
12 Recessed Impeller	Self Priming	Low Flow	Variable speed opera	ation		YES	🗌 NO		
13 Operating Conditions			Performance						
14 Rated Maximum N	lormal Minimum Other		Performance curve n	umber:	<u>,                                     </u>		<b>—</b> —		
	mated above	(gpm)	Speed:	(rpr	n) 🛄 B73 adimanallari	curve speed		driver nam	ieplate
17 Head <sup>1.</sup>	gnated above	(#)	<sup>3</sup> at specified flow	Rated	ed impeller. Maximum	Normal	Minimum	(II) Othor	1
		(11)	Hood <sup>3</sup> .	Naleu	IVIAXIIIIUIII	Normai	VIIIIIIIIIIII	Other	(#)
19 Suct pres <sup>1</sup>		(IL) (psia)	NPSHR <sup>3.</sup>						(IL) (ft)
20		(poig)	Speed(if variable) <sup>3</sup> :						(rpm)
21 System design:			Minimum continuous	stable flow:		(g	jpm)		
22 Suction pressure: min. / max.:	/	(psig)	Allowable operating r	egion:		to:		(gpm)	
23 Suction temperature: min. / max.:	/	(°F)	Best efficiency point f	for rated imp	eller:		(gpm)		
24 Stand alone operation			Suction specific spee	ed:					
25 Parallel operation with item no.:			Impeller diameter	Rated:		Max:	Min	: 	_(in)
26 Series operation with item no.:		<u> </u>	Pump rated power:		(BH	P) Efficie	ency:		(%)
27 Service:			Maximum power with	rated impel	ler:	(E	BHP)		
28 Continuous Intermit	tent:starts/day		Case pressure ratin	g:					
29 System control method:			Maximum all	owable work	king pressure	: <u> </u>	(psig) @		(°F)
30 Speed Throttle	System Resistance	Only	Hydrostatic te	est pressure	:		(psig)		
31			◯ Site Conditions	and Utilitie	s				
32 O Pumped Fluid			Location: L Indo	oor 🗌	Outdoor	Altituc	le:		_(ft)
33 Pumped fluid:			Range of ambient ter	nperatures:	min. / ma	ax.:	/		_(°F)
34 Rated Ma	aximum Normal Minimum		Area classification:		Nonhazardo	ous	то	I	
$^{2}$ At pumping temperature:	emperatures designated above	(°F)	CI:		tage	Gr: Phase	Hertz	ode:	
37 Specific gravity <sup>2</sup> :		7	Drivers	101	lage	Thase	TICITZ		
38 Vapor pressure <sup>2</sup> :		(psia)	Heating						
39 Viscosity <sup>2</sup> :		(cP)	Cooling water:	J	Source:				
40 Specific heat <sup>2</sup> :		(Btu/lb °F)	Supply temp.:		(°F)	Max. return te	mp.:		(°F)
41 Atm pressure boiling point:	(°F) @(psia)		Supply pressure:		(psig)	Design press.	:		(psig)
42 Liquid: Hazardous	Flammable pH		Min. return press		(psig)	Max. allow. D.	P		(psi)
43 Other:			Chloride concent	ration:		(p	opm)		
Fluid Rating System: NFPA 704 HMIS General Remarks									
5 Health: Flammability: Instability:									
Corrosion / erosion caused by:									
% solids: % Volume % Weight									
8 Max. particle size: (III)									
He Ouldi.	a Povision Description		1				N/	٨٣٣	avod
51 Number Date Dat	a Revision Description						ру	Appro	JVEQ
52									
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ASME B73	ASME Centrifugal Pumps (US Customary Units) ASME B73.1, ASME B73.2		Page 2 of 4
Usage key - data provided by:	O Purchaser	Supplier $\triangle$ Supplier if not by purchaser	
1 Mechanical Data			
$2\Delta$ Impeller Type:		Power rating: (HP) Speed:	(man)
3 Closed Open	Semi-open	Drive HP selected for max S G & max visc	. (cP)
4 Casing Mounting:		Driver specification:	(0. )
5  Eoot  Centerline			
o Dearings:		Driver enclosure. Driver frame	
8 Radial bearing type:	No.:		
9 Thrust bearing type:	No.:	⊖ Baseplate	
10 $\triangle$ Bearing isolators: $\Box$ Labyrinth	(standard) Magnetic seal	Type: Grouted	
11 Manufacturer:		Concrete filled (non-metallic pedestal baseplat	e)
12 A Lubrication:		$\square Free standing \qquad \triangle Pump CL to four$	idation (in
13 Oil bath Pure mist	Shielded (grease)	Vertical in-line pump case support bracket	
14 Grease Durge mist	Sealed (grease)	Design: Purchaser specification	
15 Magnetic drain plug in housing		ASME B73 standard	
16 U Oil viscosity: ISO grade:	Other:	Industrial duty grouted fabricated steel	
17 Nozzle Connections: $\triangle$ Size	$\Delta_{\text{Rating}} \Delta_{\text{Facing}}$	Non-metallic	
18 Suction:		Cast iron	
19 Discharge:		Bemarks <sup>.</sup>	
	-		
20 Aux. case connection:			
		Paint, Snipment, and Storage Preparation	
	eaded U Weided and flanged		
23 A MATERIALS		Pump supplier's standard     Other:	
		Other.	
			ort boxing
27 Cover:		Storage:	
28 Shaft:		Under roof Env	ironmentally controlled
29 Shaft sleeve:		Short term Long term (>3 months)	
30 Baseplate:		Environment:	
31 Casing gasket:		Supplier's standard preservation specification	
32 Impeller o-ring / gasket:		Purchaser storage specification:	
33 Casing fasteners:		Unit shipping weight: (Ibs)	
34 Gland fasteners:		O Tests and Inspections	
35 Bearing housing:		Test: <u>Non-witnessed</u> <u>Witnessed</u>	Certificate
36 Bearing housing adapter:		Hydrostatic:	
37 Bearing isolators:		Leak:	
38 Coupling guard:		NPSHR:	
39 Mechanical seal materials - see page 3		Performance:	
$_{40}\Delta$ Coupling Between Pump and Driver		Opt perf acceptance criteria:	Efficiency Deither
41 Specification:		Additonal data:	Brg temp
42 Manufacturer:		Other perf. data:	
43 Type:		Final inspection Davs notification	required:
44 Model / Size:		Dismantle and inspect after test	·
45 Spacer length:	(in)		
	C6 3	Statement of Compliance	
	00.0		
4/ Straight bore hub with interference fit			01 - 11
48 Coupling guard type:		Casing Cover Impeller	Snatt
49 Pump supplier's standard ASME B73 G	Suard	Cher:	
50 Durchaser Specification:		Inspection required for connection welds and castings:	
51 Non-spark coupling guard		Manufacturer's standard Level 1	Level 2 Level 3
52 Remarks:		Other:	
53		Remarks:	
54			
55			
56			

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Usag	ge key - data provided by	/:	O Purchaser	Supplier $\triangle$ Supplier if not purchaser		
1 🛆 🖇	Shaft Sealing	Mechanical s	seal Dacking	$\Delta$ Flush Plan - Single or Inner Seal		
2 F	Furnished by	Supplier	Purchaser	Piping plan number(s):		
3 lı	nstalled by	Supplier	Purchaser	External flush fluid		
4 🛆 S	Seal Chamber	Taper bore	Large cylindrical bore	Supply temperature Min M	lax (°F)	
5		Universal co	ver Decking box	Specific gravity Specific heat	(Btu/lb °F)	
6 Т	Throat bushing	None None	Fixed bushing	Vapor pressure psia @	(°F)	
7	-	Floating bus	ning	Flow rate required Min M	lax (qpm)	
8 Т	Throat bushing material	Ū.	0	Maximum flow rate allowed by process	(gpm)	
ь 9 Ј	Jacketed seal chamber/r	acking box	Yes No	Pressure required Min N	lax (psig)	
10	For			Maximum pressure allowed by process	(psig)	
10 11 F	Remarks			Temperature required Min	lax (°F)	
12				Inner seal flush plan piping		
	Machanical Soal	Cartridge	Component			
13 <u> </u>						
14	(Iei. Annex II)					
15						
16						
17 F	-lexible element			Tube/pipe connections	Socket weld	
18 B	373.1 or B73.2 Mand. Ap	p. II configuration	i code:	Unions L Butt weld	U Tube fitting	
19 A	API 682 Category 1	L Yes	L No	U Other		
20 N	Manufacturer			Furnished by	Purchaser	
21 N	Model			Remarks		
22 N	Manufacturer code					
23 E	Drawing number			$\Delta$ Flush Plan - Outer Seal		
24 F	Remarks			Piping plan number(s):		
25				External flush fluid		
26 🛆 క	Seal Materials - Single	or Inner Seal		Supply temperature Min Min	lax (°F)	
27 S	Seal faces	Rotating face		Specific gravity Specific heat	(Btu/lb °F)	
28		Stationary fa	ce	Vapor pressure psia @	(°F)	
29 S	Secondary seals	Rotating face		Flow rate required Min N	lax (gpm)	
30		Stationary fa	ce	Maximum flow rate allowed by process	(gpm)	
31		Sleeve		Pressure required Min N	lax (psig)	
32 S	Springs		Bellows	Maximum pressure allowed by process	(psiq)	
33 N	Vetal parts			Temperature required Min N	lax (°F)	
34 F	Remarks			MAWP Flush plan psig @ min te	mp (°F)	
35				psig @ max te	emp (°F)	
36 A s	Soal Matorials - Outor S	al		Outer seal flush plan piping		
37 9	Seal faces	Rotating face	5			
38		Stationary fa	·			
30 20 C		Stationary la				
39 5	Secondary seals	Rotating face				
40		Stationary la				
41		Sleeve				
42 S	springs		Bellows			
43 N	vietal parts				7	
44 F				Furnished by Supplier	_ Purchaser	
45				Remarks		
46 🛆 S	Seal Gland	Material				
47 P	Ports Flush	Drain	Vent Quench	$\triangle$ Quench $\Box$ Yes $\Box$ No		
48	Buffer/b	arrier fluid inlet	Buffer/barrier fluid outlet	Quench fluid		
49 T	Throttle bushing	🗌 Yes	No No	Flow rate		
50 T	Throttle bushing material			Remarks		
51 F	Remarks					

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	Usage key - data provided by	O Purchaser	upplier $\triangle$ Supplier if not purchaser		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Usage key - data provided by  Auxiliary Equipment  Reservoir  Furnished by  Drawing number  Material  Operating pressure  Operating temperature  MAWP of reservoir  Code specification  Code stamped  Size  3 gallon  5 ga  Internal cooling coils  Stand required  Baseplate mounted  Seal cooler  Yes  Water c	O Purchaser         Su           □ No         □ Purchaser           Other	upplier	Purchaser  (°F) (°F) (gpm) (psig)  ized carbon steel  Socket weld Tube fittings	
18 19 20 21 22 23	Manufacturer Model API 682 design Yes Spray guard Yes Remarks:	□ No □ No	Remarks     Manufacturer Documentation Required     For supplier data requirements refer to:     Remarks:		
24 25 26 27 28	▲ Instrumentation         Inner seal       Indicato         Flow rate       □         Temperature       □	r Switch Transmitter			
29 30 31 32 33 34 35 36	Pressure	r Switch Transmitter	∠ Remarks		
37 38 39 40 41	Heating or cooling Indicato Flow rate Temperature Remarks	r Switch Transmitter			
42 43 44 45 46 47 48 49 50 51	Packing     Packing code (P1 - P4)     Material     Manufacturer     Manufacturer style number     Packing Construction     Sleeve hard surfacing     Lantern ring     Lantern ring port     Remarks	Number of Rings         Yes         No         Yes         No         Yes         No         Yes         No			