

DESIGN ENVELOPE 4280 END SUCTION

SINGLE PHASE | 0308-002.0 | SUBMITTAL

MECHANICAL SEAL DATA

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

File No: 100.3624

Date: APRIL 18, 2016

Supersedes: NEW

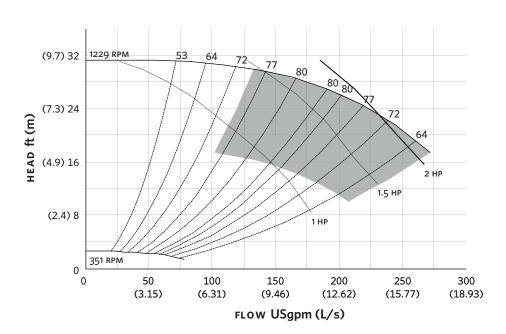
Date: NEW

Jop:		Representative:				
			Order No:	[Date:	
Engineer:			Submitted by:	[
			Approved by:			
PUMP DESIGN	I DATA		CONTROLS DATA			
		Tag:ft (m)	i olici suppiy	Volts: 200-240\		
		Viscosity:	•	Freq: 50/60Hz	Phase: 1	
		Specific gravity:	<u>.</u>	Staffuaru		
Suction: 4" (100m		Specific gravity.	to be maintained	:	ft (m)*	
Discharge: 3" (75mm) Flanged			•	: ☐ Modbus RTU ☐ BACnet™ MS/TP ☐ Johnson® N2 ☐ Siemens® FLN		
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 certified			Protocol (optional):	: □ LonWorks®		
			Enclosure	:: □ Indoor - UL TYPE 12		
MOTOR DESIGN DATA			Disconnect switch	: □ Non-fused		
HP: 2 Enclosure: TEFC		Freq: 60 Hz	EMI/RFI control: Harmonic suppression:	EN61800-3 direc		
Phase: 3 Efficiency: NEMA premium 12.12 MAXIMUM PUMP OPERATING CONDITIONS			s	AC line reactor) supporting IEEE 519-1992 requirements**		
			Cooling	Fan-cooled through back channel		
ANSI 125 175 psig at 150°F (12 bars at 65°C)				: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)		
140 psig at 250°F (10 bars at 121°C)			Analog I/o	: Two current or voltage inputs,		
ANSI 250			: Disital (o)	one current out		
300 psig at 150°F (20 bars at 65°C)			Digital 1/0:	: Six programmable inputs (two can be configured as outputs)		
250 psig at 250°F (17 bars at 121°C)			Pulse inputs	Pulse inputs: Two programmable		
• Tolerance of ±0.125" (±3 mm) should be used			Relay outputs	: Two programmable		
For exact installation, data please write factory for certified dimensions			Communication port	t: 1-RS485, 1-USB		

^{*}If minimum maintained system pressure is not known: Default to 40% of design head
**The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not
guaranty performance to any system wide harmonic specification or the costs to meet
a system wide specification. If supplied with the system electrical details, Armstrong
will run a computer simulation of the system wide harmonics. If system harmonic
levels are exceeded Armstrong can also recommend additional harmonic mitigation
and the costs for such mitigation.

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (0-ring)
Material code	SCsc L EPSS 2A	SCsc o epss 2A	C-SC L EPSS 2A	ACsc o epss 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

EXTENDED SPEED



Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

DIMENSION DATA

INDOOR (UL TYPE 12/ODP)

Frame size: 184JM

Size: $4 \times 3 \times 8$

HP: 2

RPM: 1200

A: 9.08 (231)

B: 7.09 (180)

CMAX: 21.09 (536)

D1: 6.63 (168)

D2: 4.50 (114)

2E: 7.50 (191)

F: 5.50 (140)

H: 0.47 (12)

HD: 6.89 (175)

HI: 24.13 (613)

HV: 16.23 (412)

N: 6.30 (160)

NaN1: 6.00 (152)

x: 11.00 (279)

Y: 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 325 (147.4)

Dimensions - inch (mm) Weight - lbs (kg)

INDOOR



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BUFFALO

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BIRMINGHAM

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MANCHESTER

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BANGALORE

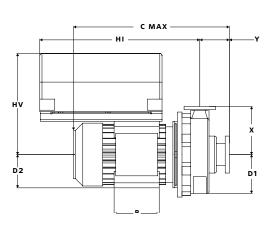
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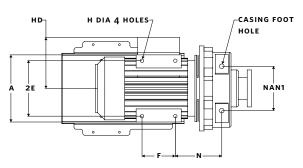
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