

DESIGN ENVELOPE 4280 END SUCTION

2506-001.5 | SUBMITTAL

• Tolerance of ±0.125" (±3 mm) should be used

certified dimensions

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

MECHANICAL SEAL DATA

• For exact installation, data please write factory for

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

File No: 100.3516

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

			Order No:	Date:		
Engineer:			Submitted by:	Date:		
			Approved by:	Date:		
PUMP DESIG	N DATA		CONTROLS DATA			
No. of pumps:		Tag:	: Sensorless control:	Standard		
		Head:ft (m) Viscosity:		ft (m)*		
Temperature:	°F (°C)	Specific gravity:		☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN		
Suction: 3" (75mm) Flanged			Protocol (optional):	: □ LonWorks®		
Discharge: 2.5" (60mm) Flanged			Enclosure:	: ☐ Indoor - UL TYPE 12		
OSHPD Seismic Certification OSP-0422-10			Fused disconnect switch:			
UL STD 778 & CSA S	TD C22.2 NO.108	certified	EMI/RFI control:	Integrated filter designed to meet EN61800-3		
MOTOR DESIGN DATA HP: 1.5 RPM: 1800 Frame size: 145JM			Harmonic suppression:	Dual DC-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements**		
Enclosure: TEFC	Volts:	Hertz: 60 Hz	Cooling:	Fan-cooled through back channel		
Phase: 3 Efficiency: NEMA premium 12.12			Ambient temperature:	nperature: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)		
MAXIMUM PUMP OPERATING CONDITIONS			Analog I/0:	 Two current or voltage inputs, one current output 		
ANSI 125			Digital ı/o:	: Six programmable inputs (two can be configured as outputs)		
175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)			Pulse inputs:	: Two programmable		
			Relay outputs:	Relay outputs: Two programmable		
ANSI 250			Communication port:	1-RS485, 1-USB		
300 psig at 150°F (20 bars at 65°C) 250 psig at 250°F (17 bars at 121°C)			*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			

Representative:

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

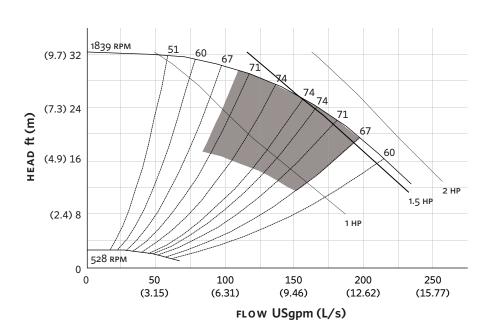
and the costs for such mitigation.

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

EXTENDED SPEED



Performance curves are for reference only.

 $\label{thm:confirm} \mbox{Confirm current performance data with Armstrong \ \mbox{ACE Online selection software}.$

DIMENSION DATA

INDOOR (UL TYPE 12/ODP)

Frame size: 145JM

Size: 3×2.5×6

HP: 1.5

RPM: 1800

A: 5.50 (140)

B: 5.91 (150)

CMAX: 19.68 (500)

D1: 5.63 (143)

D2: 3.50 (89)

2E: 7.09 (180)

F: 5.00 (127)

H: 0.40 (10)

HD: 5.71 (145)

HI: 22.31 (567)

HV: 12.28 (312)

N: 5.77 (146)

NaN1: 6.00 (152)

x: 8.25 (210)

y: 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 244 (110.7)

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

INDOOR



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MANCHESTER

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$\mathsf{B}\,\mathsf{A}\,\mathsf{N}\,\mathsf{G}\,\mathsf{A}\,\mathsf{L}\,\mathsf{O}\,\mathsf{R}\,\mathsf{E}$

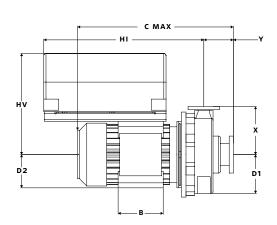
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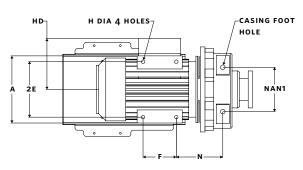
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