

# DESIGN ENVELOPE 4280 END SUCTION

1506-001.0 | SUBMITTAL

• For exact installation, data please write factory for

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

certified dimensions

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

**MECHANICAL SEAL DATA** 

File No: 100.3506

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

	Order No:	Date:				
Engineer:	Submitted by:	Date:				
Contractor:	Approved by:	Date:				
PUMP DESIGN DATA	CONTROLS DATA					
No. of pumps: Tag:	Sensorless control	: Standard				
Capacity:USgpm (L/s) Head:f _iquid: Viscosity:		:ft (m)*				
remperature:°F(°C) Specific gravity:	Duata and (atau day d)	: ☐ Modbus RTU ☐ BACnet <sup>TM</sup> MS/TP☐ Johnson® N2 ☐ Siemens® FLN				
Suction: 3" (75mm) Flanged	Protocol (optional)	: □ LonWorks®				
Discharge: 1.5" (40mm) Flanged	Enclosure	□ Indoor – UL TYPE 12				
OSHPD Seismic Certification OSP-0422-10	Fused disconnect switch					
JL STD 778 & CSA STD C22.2 NO.108 certified	EMI/RFI control	: Integrated filter designed to meet EN61800-3				
MOTOR DESIGN DATA  HP: 1 RPM: 1800 Frame size: 143JM		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	: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)				
MAXIMUM PUMP OPERATING CONDITI	ONS Analog 1/0	Two current or voltage inputs, one current output				
ANSI 125 75 psig at 150°F (12 bars at 65°C)	Digital 1/0	: Six programmable inputs (two can be configured as outputs)				
40 psig at 250°F (10 bars at 121°C)	Pulse inputs	Two programmable				
	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				
Tolerance of ±0.125" (±3 mm) should be used		guaranty performance to any system wide harmonic specification or the costs to meet				

Representative: \_\_

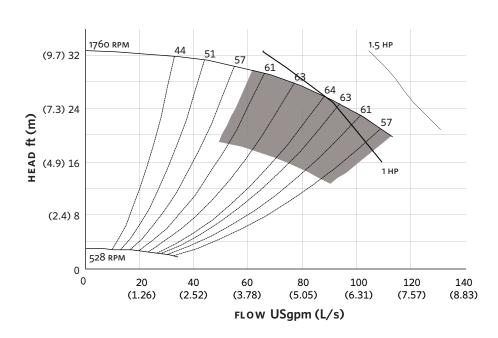
FLUID TYPE	ALL GLYCOLS >	30% WT CONC	ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded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

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.

Confirm current performance data with Armstrong ACE Online selection software.

# **DIMENSION DATA**

#### INDOOR (UL TYPE 12/ODP)

Frame size: 143JM

**Size:** 3×1.5×6

**HP:** 1

**RPM:** 1800

**A:** 5.50 (140)

**B:** 5.91 (150)

**CMAX:** 19.69 (500)

**D1:** 5.25 (133)

**D2:** 3.50 (89)

**2E:** 7.09 (180)

... 7.07 (100)

**F:** 4.00 (102) **H:** 0.40 (10)

**HD:** 5.71 (145)

ні: 22.32 (567)

**HV:** 12.28 (312)

**N:** 5.78 (147)

**NaN1:** 6.00 (152)

**x:** 6.50 (165)

**y:** 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 219 (99.3)

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

#### INDOOR



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MANCHESTER

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

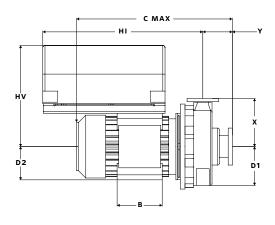
+91 (0) 80 4906 3555

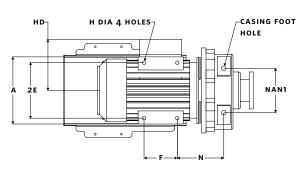
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