

DESIGN ENVELOPE 4280 END SUCTION

2506-007.5 | SUBMITTAL

File No: 100.3520

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Engineer:		Order No:	Date:			
		Submitted by:	Date:			
		Approved by:	Date:			
PUMP DESIGN DATA		CONTROLS DATA				
No. of pumps:	Tag:	: Sensorless control:	Standard			
Capacity:USgpm (L/s) Liquid:		Minimum system pressure	ft (m)*			
Temperature:°F (°C)		Dustand (standaud).	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN			
Suction: 3" (75mm) Flanged		Protocol (optional):	□ LonWorks®			
Discharge: 2.5" (60mm) Flange	ed	Enclosure:	□ Indoor – UL TYPE 12			
OSHPD Seismic Certification OSP-042		Fused disconnect switch:				
UL STD 778 & CSA STD C22.2 NO.108	certified	ЕМІ/RFI control:	: Integrated filter designed to meet EN61800-3			
MOTOR DESIGN DATA HP: 7.5 RPM: 3600	Frame size: 213JM	Harmonic suppression:	Dual pc-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 abov sea level (-14°F to +113°F, 3300 ft)			
MAXIMUM PUMP OPERA	ATING CONDITIONS		: Two current or voltage inputs, one current output			
ANSI 125 175 psig at 150°F (12 bars at 65°C)		Digital ı/o:	Six programmable inputs (two can b configured as outputs)			
140 psig at 250°F (10 bars at 05°C)		Pulse inputs:	: Two programmable			
140 psig at 250 F (10 bat \$ at 121)	C)	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			

Representative: ___

Rotating hardware: Stainless steel

Secondary seal: EPDM
Spring: Stainless steel

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

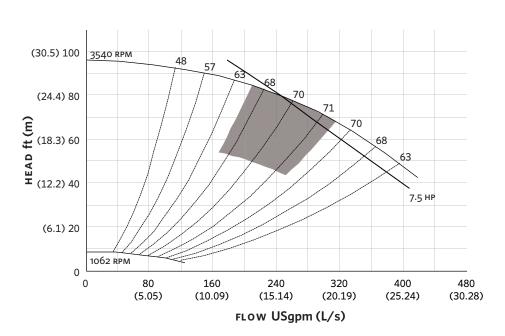
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded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

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

For exact installation, data please write factory for certified dimensions
 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.
 MECHANICAL SEAL DATA
 Seal type: 2A
 Stationary seat: Silicone carbide

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: 213JM

Size: 3×2.5×6

HP: 7.5

RPM: 3600

A: 10.27 (261)

B: 7.48 (190)

C MAX: 22.29 (566)

D1: 5.63 (143)

D2: 5.25 (133)

2E: 8.50 (216)

F: 5.50 (140)

H: 0.47 (12)

HD: 7.68 (195)

HI: 21.89 (556)

HV: 14.42 (366)

N: 7.23 (184)

NaN1: 6.00 (152)

x: 8.25 (210)

y: 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 289 (131.1)

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

INDOOR



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MANCHESTER

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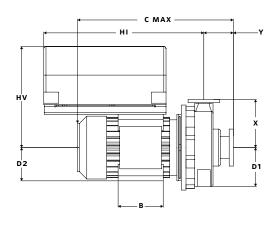
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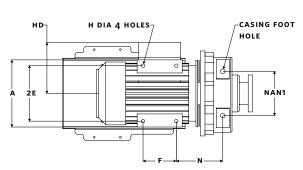
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ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934