

# DESIGN ENVELOPE 4300 VIL 0308-003.0

File No: 100.4044 Date: DECEMBER 17, 2015 Supersedes: 100.4050 Date: AUGUST 14, 2015

Job:	Representative:	
	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:
PUMP DESIGN DATA	CONTROLS DATA	
No. of pumps: Tag:	Sensorless Control: Stand	ard

Capacity:USgpm (L/s) Head:ft (m) Liquid: Viscosity:	Minimum system pressure to be maintained:	ft (m)*
Temperature: °F (°C) Specific gravity:	Orientation:	□ L1 (default) □ L2 □ L3 □ L4
Suction: 3" (75mm) Discharge: 3" (75mm)	Protocol (standard):	□ Modbus rtu □ bacnet™ ms/tp □ Johnson® n2 □ Siemens® fln
OSHPD Seismic Certification OSP-0422-10	Protocol (optional):	□ LonWorks <sup>®</sup>
UL STD 778 & CSA STD C22.2 NO.108 certified MOTOR DESIGN DATA	Enclosure:	□ Indoor - UL TYPE 12 □ Outdoor - UL TYPE 4x with Weather Shield □ Outdoor - UL TYPE 4x less Weather Shield
нр: RPM: Frame size: Enclosure:	Fused disconnect switch:	
Volts: Hertz: 60 Hz Phase: 3	:	—
Efficiency: NEMA premium 12.12	EMI/RFI control:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERATING CONDITIONS	Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**
ANSI 125	Cooling:	Fan-cooled through back channel
175 psig at 150°F (12 bars at 65°C) 100 psig at 300°F (7 bars at 150°C)	-	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
<b>ANSI 250</b> 375 psig at 150°F (26 bars at 65°C)	Analog ı/o:	Two current or voltage inputs, one current output
260 psig at 300°F (21 bars at 150°C)	Digital ı/o:	Six programmable inputs (two can be configured as outputs)
• Tolerance of $\pm 0.125''$ ( $\pm 3$ mm) should be used	Pulse inputs:	Two programmable
<ul> <li>For exact installation, data please write factory for certified dimensions</li> </ul>	Relay outputs:	Two programmable
	Communication port:	1-RS485, 1-USB
MECHANICAL SEAL DESIGN DATA		
See file no. 43.50 for standard mechanical seal details as		ure is not known: Default to 40% of design head Irive via built-in ɒc line reactors. This does not

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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.

See file no. 43.50 for standard mechanical seal details as indicated below

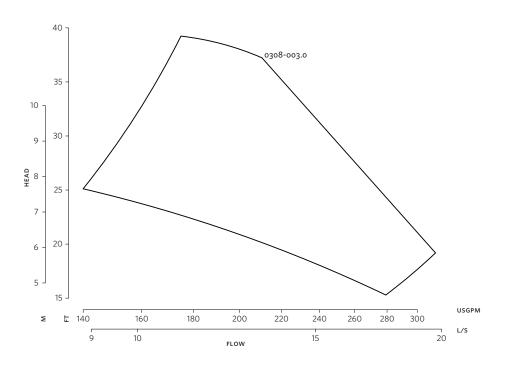
Armstrong seal reference number

□ c1 (a) □ Others: \_



Design Envelope 4300 VIL





### DIMENSION DATA

INDOOR (UL TYPE 12/ODP)         OUTDOOR (UL TYPE 4X)           Frame size:         182           Size:         3×3×8           HP:         3           RPM:         1800	
Size: 3×3×8 3×3×8 HP: 3 3	/TEFC)
HP: 3 3	
<b>DDM:</b> 1800 1800	
<b>KPIM.</b> 1000 1000	
<b>AB:</b> 27.55(700) 33.51(85	1)
<b>B:</b> 6.75(171) 6.75(171)	)
<b>c:</b> 5.80(147) 5.80(147)	)
<b>D:</b> 10.00(254) 10.00(25	4)
<b>E:</b> 12.56(319) 17.83(45)	3)
<b>P:</b> 10.38(264) 9.56(243	)
<b>F:</b> 24.56(624) 29.83(75	8)
<b>s:</b> 12.00(305) 12.00(30	5)
<b>SD:</b> 22.00(559) 22.00(55	9)
<b>T:</b> 6.31(160) 6.31(160)	)
<b>XY:</b> 26.54(674) 26.42(67	1)
Weight: 279(126.6) 310(140.	6)

Dimensions – inch (mm) Weight – Ibs (kg)

SD

AB AB

XY

R

- ØP-

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WEATHER

SHIELD

OUTDOOR

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ØР

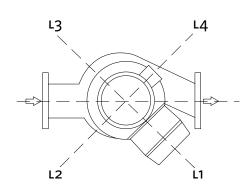
INDOOR

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SD

хγ

Performance curves are for reference only. Confirm current performance data with Armstrong ACE Online selection software.



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