

DESIGN ENVELOPE 4300 VIL | 1217-250.0 SUBMITTAL

File No: 100.4224 Date: DECEMBER 17, 2015 Supersedes: 100.4170 Date: AUGUST 14, 2015

Job:	Representative:	
	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	_ Date:

PUMP DESIGN DATA

No. of pumps:	Tag:		
Capacity:USgpm (L/s)	Head:ft (m)		
Liquid:	Viscosity:		
Temperature: °F (°C)	Specific gravity:		
Suction: 12" (300 mm)	Discharge: 12" (300 mm)		
OSHPD Seismic Certification OSP-0422-10			

UL STD 778 & CSA STD C22.2 NO.108 certified

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____

Volts: ______ Hertz: 60 Hz Phase: 3

Efficiency: NEMA premium 12.12

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C) 100 psig at 300°F (7 bars at 150°C)

ANSI 250

375 psig at 150°F (26 bars at 65°C) 260 psig at 300°F (21 bars at 150°C)

• Tolerance of $\pm 0.125''$ ($\pm 3 \text{ mm}$) should be used

 For exact installation, data please write factory for certified dimensions

MECHANICAL SEAL DESIGN DATA

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

🗆 Others: _____

Armstrong seal reference number

CONTROLS DATA

Sensorless Control: N/A

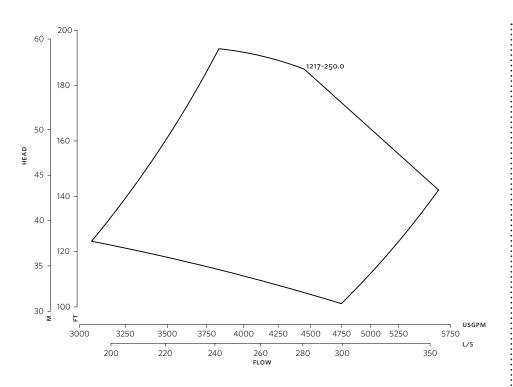
Minimum system pressure to be maintained:	ft (m)*	
Orientation:	: 🗆 L1 (default) 🗆 L2 🗆 L3 🗆 L4	
Protocol (standard):	□ Modbus rtu □ bacnet™ ms/tp □ Johnson® N2 □ Siemens® fln	
Protocol (optional):	\Box LonWorks [®]	
Enclosure:	□ Indoor – UL TYPE 12	
Fused disconnect switch:	N/A	
EMI/RFI control:	Integrated filter designed to meet EN61800-3	
Harmonic suppression:	Dual pc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**	
Cooling:	Fan-cooled through back channel	
Ambient temperature:	-10°c to +45°c up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)	
Analog ı/o:	Two current or voltage inputs, one current output	
Digital ı/o:	Six programmable inputs (two can be configured as outputs)	
Pulse inputs:	Two programmable	
Relay outputs:	Two programmable	
Communication port:	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.



Design Envelope 4300 VIL





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:		
Size:	12×12×17	
HP:	250	
RPM:	1480	
AB:	64.87	
B:	17.50(445)	
с:	13.20(335)	
D:	27.00(686)	
E:	25.05(636)	
P:	22.44(570)	
F:	25.05(636)	
S:	25.00(635)	
SD:	52.00(1321)	
т:	13.80(351)	
XY:	64.83(1647)	
Weight:	4306(1953.2)	

Dimensions - inch (mm)

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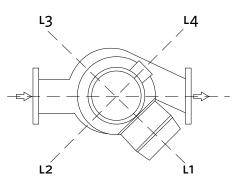
Weight – Ibs (kg)

INDOOR

SD

XY

:



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