

# **DESIGN ENVELOPE** 4300 VIL 1013-075.0 SUBMITTAL

Armstrong seal reference number

☐ Others: \_\_

□ c1 (a)

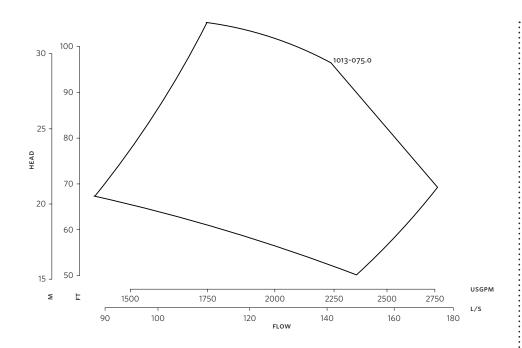
File No: 100.4148 **Date:** DECEMBER 17, 2015 Supersedes: 100.4146 Date: AUGUST 14, 2015

Job:	Rep	resentative:	
	Ord	er No:	Date:
Engineer: Subr		mitted by:	Date:
Contractor:	Арр	roved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	: Sensorless Control:	Standard
Capacity:USgpm (L/s)	Head:ft (m)	4 - 1	ft (m)*
Temperature: °F (°C)		•	☐ L1 (default) ☐ L2 ☐ L3 ☐ L4
Suction: 10" (250mm)	Discharge: 10" (250mm)	:	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN
OSHPD Seismic Certification OSP-0422-10		: Protocol (optional):	☐ LonWorks®
MOTOR DESIGN DATA  HP: RPM: Frame size: Enclosure:		Enclosure:	☐ Indoor - UL TYPE 12 ☐ Outdoor - UL TYPE 4X with Weather Shield ☐ Outdoor - UL TYPE 4X less Weather Shield
Volts: Hertz: 60 H		Fused disconnect switch:	
Efficiency: NEMA premium 12.12	12 Filase. 3	EMI/RFI control:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERATING CONDITIONS		Harmonic suppression:	Dual pc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**
<b>ANSI 125</b> 175 psig at 150°F (12 bars at 65°C)		Cooling:	Fan-cooled through back channel
1/5 psig at 150°F (12 bars at 65°C) 100 psig at 300°F (7 bars at 150°C)		Ambient temperature:	-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)
<ul> <li>Tolerance of ±0.125" (±3 mm) should be used</li> <li>For exact installation, data please write factory for certified dimensions</li> </ul>		Pulse inputs:	Two programmable
		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 indicated below		**The IVS 102 drive is a low harmonic o	ure is not known: Default to 40% of design head Irive via built-in DC line reactors. This does not n wide harmonic specification or the costs to meet

a system wide specification. If supplied with the system electrical details,  $\mbox{\sc Armstrong}$ 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

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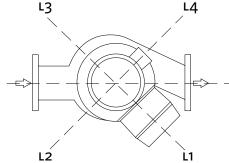
Performance curves are for reference only.  $Confirm\ current\ performance\ data\ with\ Armstrong\ {\tt ACE}\ Online\ selection\ software.$ 

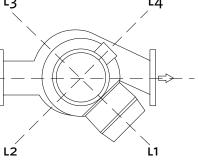
#### **DIMENSION DATA**

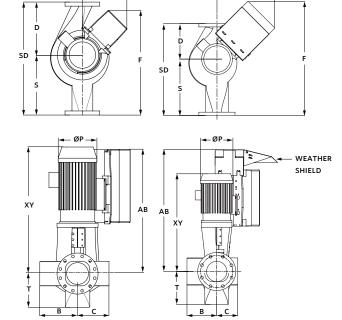
	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	365	365
Size:	10×10×13	10×10×13
HP:	75	75
RPM:	1800	1800
AB:	45.90(1166)	51.29(1303)
в:	13.55(344)	13.55(344)
c:	10.67(271)	10.67(271)
D:	21.00(533)	21.00(533)
E:	19.90(505)	24.13(613)
P:	17.63(448)	19.03(483)
F:	45.90(1166)	50.13(1273)
s:	26.00(660)	26.00(660)
SD:	47.00(1194)	47.00(1194)
T:	11.55(293)	11.55(293)
XY:	43.18(1097)	45.74(1162)
Weight:	1694(768.4)	2071(939.4)

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

OUTDOOR







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INDOOR