

DESIGN ENVELOPE 4380 VIL | 0408-005.0 | SUBMITTAL

File No: 100.4348

Date: JANUARY 14, 2016

Supersedes: 100.4343

Date: AUGUST 14, 2015

Job:	Representative:	Representative:			
	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:ft	to be maintained	:ft (m)*			
Liquid: Viscosity:	: Orientation	: ☐ L1 (default) ☐ L2 ☐ L3 ☐ L4			
Temperature:°F (°C) Specific gravity:		: ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN			
Suction: 4" (100mm) Discharge: 4" (100r	nm) : : Protocol (optional)				
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 certified MOTOR DESIGN DATA		☐ Indoor - UL TYPE 12 ☐ Outdoor - UL TYPE 4X with weather shield ☐ Outdoor - UL TYPE 4X less weather shield			
hp: rpm:Frame size: Enclosure:	— Fused disconnect switch	: □			
Volts: Hertz: 60 Hz Phase: 3	EMI/RFI control	Integrated filter designed to meet EN61800-3			
Efficiency: NEMA premium 12.12 MAXIMUM PUMP OPERATING CONDITION		: 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)	Ambient temperature	-10°c to +45°c up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)			
140 psig at 250°F (10 bars at 121°C)	Analog 1/0	 Two current or voltage inputs, one current output 			
ANSI 250 300 psig at 150°F (20 bars at 65°C)	Digital ı/o	Six programmable inputs (two can be configured as outputs)			
250 psig at 250°F (17 bars at 121°C)	Pulse inputs	Pulse inputs: Two programmable			
• Tolerance of ±0.125" (±3 mm) should be used	•	Two programmable			
 For exact installation, data please write factory for 	Communication port	: 1-RS185 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.

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

certified dimensions

Seal type: 2A

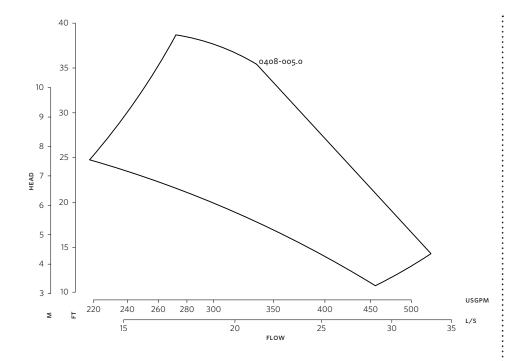
Secondary seal: EPDM

Spring: Stainless steel

MECHANICAL SEAL DATA

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

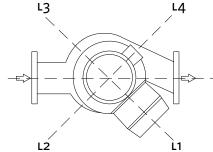


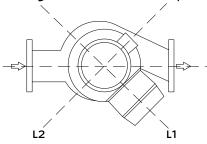
Performance curves are for reference only. $Confirm\ current\ performance\ data\ with\ Armstrong\ {\tt ACE}\ Online\ selection\ software.$

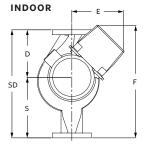
DIMENSION DATA

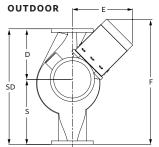
) R E 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)		
	184		
3	4×4×8 5 1500		
(559)	22.02(559)		
226)	8.89(226)		
173)	6.80(173)		
(279)	11.00(279)		
(321)	12.64(321)		
(321)	12.64(321)		
(264)	9.50(241)		
(356)	14.00(356)		
(635)	25.00(635)		
203)	8.00(203)		
(493)	20.17(512)		
42.9)	353(160.1)		
	226) 173) (279) (321) (321) (321) (3264) (356) (635) (203) (493) (42.9)		

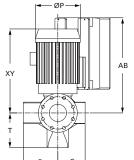
Dimensions - inch (mm) Weight - lbs (kg)

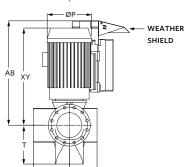












TORONTO

+1 416 755 2291

BUFFALO

+1 716 693 8813

BIRMINGHAM

+44 (0) 8444 145 145

MANCHESTER

+44 (0) 8444 145 145

BANGALORE

+91 (0) 80 4906 3555

SHANGHAI

+86 21 3756 6696

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