

DESIGN ENVELOPE 4380 VIL | 1508-001.0 **SUBMITTAL**

Tolerance of ±0.125" (±3 mm) should be used
For exact installation, data please write factory for

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

certified dimensions

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

MECHANICAL SEAL DATA

File No: 100.4324

Date: JANUARY 14, 2016

Supersedes: 100.4324

Date: AUGUST 14, 2015

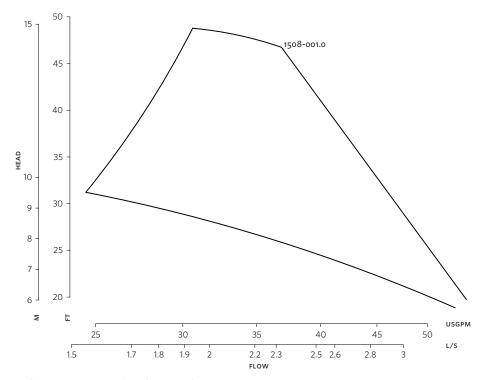
Job:	Representative:		
	Order No:	Date:	
Engineer:	Submitted by:	Date:	
Contractor:	Approved by:	Date:	
PUMP DESIGN DATA	CONTROLS DATA		
No. of pumps: Tag:	Sensorless control:	Standard	
Capacity:USgpm (L/s) Head:ft (m)	Minimum system pressure to be maintained:	ft (m)*	
_iquid:Viscosity:	: Orientation:	□ L1 (default) □ L2 □ L3 □ L4	
Temperature:°F (°C) Specific gravity:	· · · · · · · · · · · · · · · · · · ·	☐ Modbus RTU ☐ BACnet TM MS/TP☐ Johnson [®] N2 ☐ Siemens [®] FLN	
Suction: 1.5" (38mm) Discharge: 1.5" (38mm)) : Protocol (optional):		
DSHPD 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	
np: rpm:Frame size: Enclosure:	: Tused 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 CONDITIONS		Dual DC-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements**	
ANSI 125	•	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) ANSI 250	Analog ı/o:	Two current or voltage inputs, one current output	
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:	Two programmable	
• Tolerance of ±0.125" (±3 mm) should be used	Relay outputs:	Two programmable	

*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.

Communication port: 1-RS485, 1-USB

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 (O-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



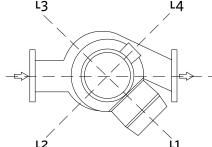
Performance curves are for reference only.

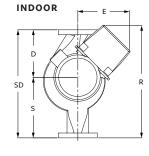
 $Confirm\ current\ performance\ data\ with\ Armstrong\ ACE\ Online\ selection\ software.$

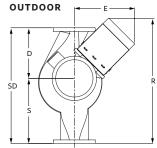
DIMENSION DATA

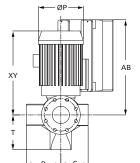
	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)		
Frame size:	143	143		
Size:	1.5×1.5×8	1.5×1.5×8		
HP:	1	1		
RPM:	1800	1800		
AB:	21.36(543)	27.32(694)		
в:	5.72(145)	5.72(145)		
c:	5.72(145)	5.72(145)		
D:	8.00(203)	8.00(203)		
E: P:	11.85(301)	17.12(435)		
	8.63(219)	7.83(199)		
F:	19.85(504)	25.12(638)		
s:	8.00(203)	8.00(203)		
SD:	16.00(406)	16.00(406)		
T:	4.59(117)	4.59(117)		
XY:	17.26(438)	17.01(432)		
Weight:	227(103.0)	231(104.8)		

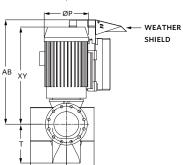
Dimensions - inch (mm) Weight - lbs (kg)











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