

## **DESIGN ENVELOPE** 4380 VIL | 1506-003.0 |

SUBMITTAL

certified dimensions

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

**MECHANICAL SEAL DATA** 

Stationary seat: Silicone carbide

**Rotating hardware:** Stainless steel

File No: 100.4302

Date: JANUARY 14, 2016

Supersedes: 100.4302

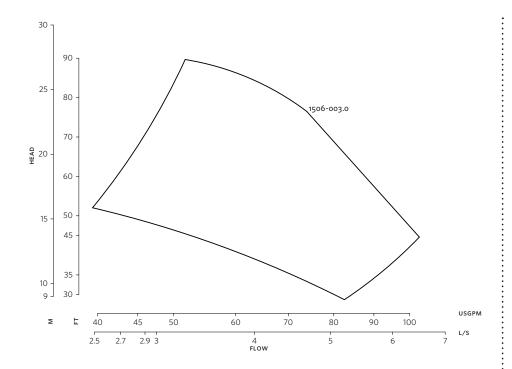
Date: AUGUST 14, 2015

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	to be maintained:	ft (m)*		
Liquid: Viscosity:	Orientation	□ L1 (default) □ L2 □ L3 □ L4		
Temperature:°F (°C) Specific gravity: Suction: 1.5" (38mm) Discharge: 1.5" (38m	i i i otocoi (Standard)	<ul> <li>Modbus rtu</li> <li>BACnet™ MS/TP</li> <li>Johnson® N2</li> <li>Siemens® FLN</li> </ul>		
OSHPD Seismic Certification OSP-0422-10	Protocol (optional):	$\square$ LonWorks $^{\circledR}$		
UL STD 778 & CSA STD C22.2 NO.108 certified	Enclosure:	Enclosure: ☐ Indoor – UL TYPE 12 ☐ Outdoor – UL TYPE 4X with weather shield		
MOTOR DESIGN DATA		☐ 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 CONDITIO		Dual Dc-link reactors (equivalent: 5% Ac line reactor) supporting IEEE 519-1992 requirements**		
		Fan-cooled through back channel		
<b>ANSI 125</b> 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 <b>250</b>	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		
<ul> <li>For exact installation, data please write factory for</li> </ul>	: Communication port:	I-RS485, 1-USB		

<sup>\*</sup>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



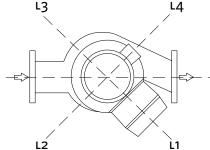
Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

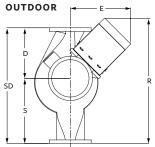
### **DIMENSION DATA**

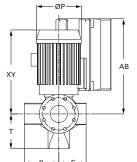
	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)		
Frame size:	145	182		
Size:	1.5×1.5×6	1.5×1.5×6		
HP:	3	3		
RPM:	3600	3600		
AB:	21.32(542)	27.78(706)		
в:	3.86(98)	3.86(98)		
C: D: E: P: F:	3.78(96)	3.78(96)		
	7.25(184)	7.25(184)		
	11.87(301)	17.83(453)		
	8.63(219)	9.50(241)		
	18.85(479)	24.83(631)		
s:	7.00(178)	7.00(178)		
SD:	14.25(362)	14.25(362)		
T:	4.25(108)	4.25(108)		
XY:	17.22(437)	19.97(507)		
Weight:	216(98.0)	255(115.7)		

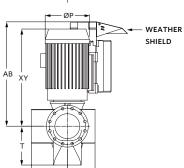
Dimensions - inch (mm) Weight - lbs (kg)



# INDOOR D SD







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