

DESIGN ENVELOPE 4380 VIL

certified dimensions

Seal type: 2A

MECHANICAL SEAL DATA

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

Secondary seal: EPDM

Spring: Stainless steel

SINGLE PHASE | 0206-001.5 | SUBMITTAL

File No: 100.4366 **Date:** OCTOBER 27, 2014 Supersedes: NEW Date: NEW

Job:		Representative:				
		Order No:	Date:			
Engineer:		Submitted by:	Date:			
		Approved by:	Date:			
PUMP DESIGN DATA		CONTROLS DATA				
No. of pumps:	Tag:	Power supply	: Volts: 200-240VAC			
Capacity:USgpm (L/s)	Head:ft (m)		Freq: 50/60Hz Phase: 1			
Liquid:	Viscosity:	Sensorless control				
Temperature:°F (°C)		Minimum system pressure	e :ft (m)*			
Suction: 2" (50mm)	Discharge: 2" (50mm)	Orientation	: ☐ L1 (default) ☐ L2 ☐ L3 ☐ L4			
		: Protocol (standard):	: □ Modbus RTU □ BACnet™ MS/TP			
MOTOR DESIGN DATA		:	☐ Johnson® N2 ☐ Siemens® FLN			
HP: 1.5 RPM: 1740	Frame size:	Protocol (optional):	: □ LonWorks®			
		Enclosure	: □ Indoor – UL TYPE 12			
Enclosure:Volts: 208	Freq: 60 Hz		Outdoor - UL TYPE 4x with weather shield			
Phase: 3 Efficiency: NEM	MA premium 12.12	Discount and and take	Outdoor - UL TYPE 4X less weather shield			
		Disconnect switch				
MAXIMUM PUMP OPER	ATING CONDITIONS	EMI/RFI CONTROL	: 1-phase IVS102 units do not meet the EN61800-3 directive			
ANSI 125		: Harmonic sunnression	Harmonic suppression: Dual pc-link reactors (equivalent: 5%			
175 psig at 150°F (12 bars at 65°C)	: Harmonic suppression	Ac line reactor) supporting IEEE			
140 psig at 250°F (10 bars at 121°	C)		519-1992 requirements**			
ANSI 250		Cooling	: Fan-cooled through back channel			
300 psig at 150°F (20 bars at 65°	C)	Ambient temperature	e: -10°C to +45°C up to 1000 meters above			
250 psig at 250°F (17 bars at 121°		:	sea level (-14°F to +113°F, 3300 ft)			
		Analog I/O	: Two current or voltage inputs,			
• Tolerance of ±0.125" (±3 mm)	should be used	.	one current output			
 For exact installation, data ple 	ase write factory for	Digital I/o	: Six programmable inputs (two can be			

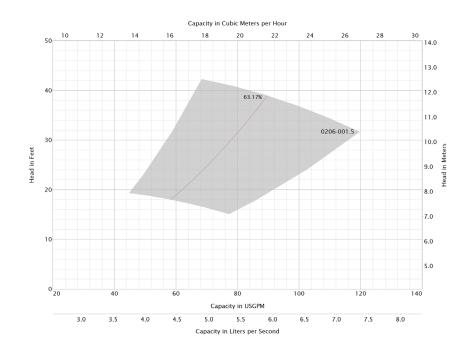
 $^{\star}\text{If minimum maintained}$ system pressure is not known: Default to 40% of design head **The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not guaranty performance to any system wide harmonic specification or the costs to meet a system wide specification. 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.

Pulse inputs: Two programmable Relay outputs: Two programmable

Communication port: 1-RS485, 1-USB

configured as outputs)

FLUID TYPE	ALL GLYCOLS >	30% WT CONC	ALL OTHER NO	N-POTABLE FLUIDS	POTABLE (DRII	NKING) 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 (0-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



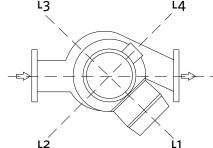
Performance curves are for reference only.

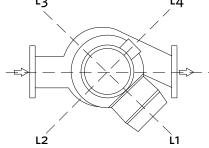
 $Confirm\ current\ performance\ data\ with\ Armstrong\ ACE\ Online\ selection\ software.$

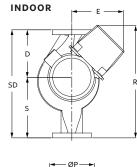
DIMENSION DATA

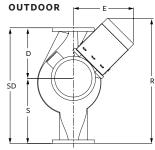
	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)		
Frame size:	145	145		
Size:	2×2×6	2×2×6		
HP:	1.5	1.5		
RPM:	1740	1740		
AB:	22.15(563)	28.18(716)		
в:	4.63(118)	4.63(118)		
c:	4.50(114)	4.50(114)		
D:	7.00(178)	7.00(178)		
E:	12.04(306)	17.20(437)		
F:	12.04(306)	17.20(437)		
P:	8.63(219)	7.83(199)		
s:	8.00(203)	8.00(203)		
SD:	15.00(381)	15.00(381)		
T:	4.88(124)	4.88(124)		
XY:	17.25(438)	17.00(432)		
Weight:	199(90.3)	207(93.9)		

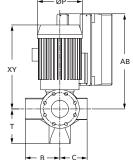
Dimensions - inch (mm) Weight - lbs (kg)

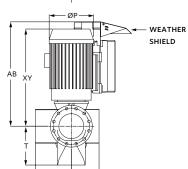












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ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934