

DESIGN ENVELOPE 4380 VIL | 0306-002.0 | SUBMITTAL

File No: 100.4318

Date: JANUARY 14, 2016

Supersedes: 100.4318

Date: AUGUST 14, 2015

JOD:	K	epresentative:	
	C	Order No:	Date:
Engineer:	S	ubmitted by:	Date:
Contractor:		pproved 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)*
Liquid: Viscosity		Orientation:	□ L1 (default) □ L2 □ L3 □ L4
Temperature:°F (°C) Specific g		Protocol (standard):	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Suction: 3" (75mm) Discharge		: Protocol (optional):	
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 cert	ified	•	☐ Indoor - UL TYPE 12 ☐ Outdoor - UL TYPE 4X with weather shield ☐ Outdoor - UL TYPE 4X less weather shield
np: rpm:Frame size: Enc	closure:	Fused disconnect switch:	
Volts: Hertz: 60 Hz	Phase: 3	емі/RFI control:	Integrated filter designed to meet EN61800-3
Efficiency: NEMA premium 12.12 MAXIMUM PUMP OPERATING C	ONDITIONS	Harmonic suppression:	Dual DC-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements**
		Cooling:	Fan-cooled through back channel
ANSI 125 175 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 ı/o:	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)		•	Two programmable
• Tolerance of ±0.125" (±3 mm) should be		•	Two programmable
 For exact installation, data please write f certified dimensions 	actory for	Communication port:	1-RS485, 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 (0-ring)	EPDM (L-cup)	EPDM (O-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

MECHANICAL SEAL DATA

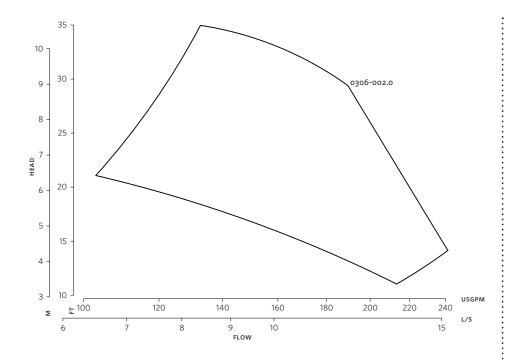
Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

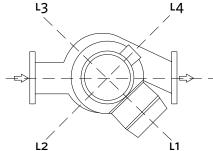


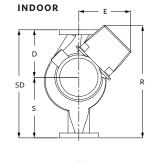
Performance curves are for reference only. $Confirm\ current\ performance\ data\ with\ Armstrong\ ACE\ Online\ selection\ software.$

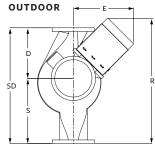
DIMENSION DATA

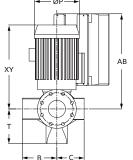
	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	145	145
Size:	3×3×6	3×3×6
HP:	2	2
RPM:	1800	1800
AB:	21.35(542)	27.31(694)
в:	5.80(147)	5.80(147)
c:	4.65(118)	4.65(118)
D:	8.25(210)	8.25(210)
E:	11.87(301)	17.12(435)
P:	8.63(219)	7.83(199)
F:	21.60(549)	26.87(682)
s:	9.75(248)	9.75(248)
SD:	18.00(457)	18.00(457)
T:	6.00(152)	6.00(152)
XY:	17.25(438)	17.00(432)
Weight:	235(106.6)	239(108.4)

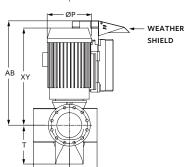
Dimensions - inch (mm) Weight - lbs (kg)











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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