

DESIGN ENVELOPE 4382 DUALARM | 0408-001.5 | SUBMITTAL

File No: 100.4632 Date: OCTOBER 30, 2015 Supersedes: NEW Date: NEW

Job: Rej			Repres	resentative:			
			Order	No:	Date:		
Engineer:			Submi	itted by:	Date:		
Contractor:			Appro	oved by:	Date:		
PUMP DESIGN DAT	A			CONTROLS DATA			
No. of pumps: Tag:			Sensorless Control:	I: Standard			
Capacity:US				Minimum system pressure to be maintained:	ft (m)*		
Liquid: Temperature:				Protocol (standard):	☐ Modbus RTU ☐ BACnet TM MS/TP☐ Johnson® N2 ☐ Siemens® FLN		
Suction: 4" (100mm) Discharge: 4" (100mr			oomm)	Protocol (optional):	: □ LonWorks®		
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 certified MOTOR DESIGN DATA				Enclosure:	☐ Indoor - UL TYPE 12 ☐ Outdoor - UL TYPE 4x with Weather Shield ☐ Outdoor - UL TYPE 4x less Weather Shield		
				Fused disconnect switch:			
HP: FPM: F	rame size: _	Enclosure	:	Duty/standby pre-wired bridge:			
Volts: H	Hertz: 60 Hz	z Phase: 3		: -			
Efficiency: NEMA premium 12.12				EMI/RFI control: Integrated filter designed to meet EN61800-3			
MAXIMUM PUMP OPERATING CONDITIONS				Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**		
ANSI 125				Cooling:	Cooling: Fan-cooled through back channel		
175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)				Ambient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)		
ANSI 250				Analog I/o: Two current or voltage inputs, one current output			
250 psig at 150°F (17 bars at 65°C) 250 psig at 250°F (17 bars at 121°C)				Digital ı/o:	: Six programmable inputs (two can be configured as outputs)		
-				Pulse inputs:	Two programmable		
 Tolerance of ±0.125" (±3 mm) should be used For exact installation, data please write factory for certified dimensions 				Relay outputs:	Two programmable		
				Communication port:	1-RS485, 1-USB		
MECHANICAL SEAL DATA				*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			
Seal Type: 2A Stationary Seat: Silicon carbide			ide	a system wide specification. If supplied with the system electrical details, Armstrong			
Secondary Seal: EPDM Rotating Hardware: Stainless steel			s steel	will run a computer simulation of the system wide harmonics. If system harmonic			

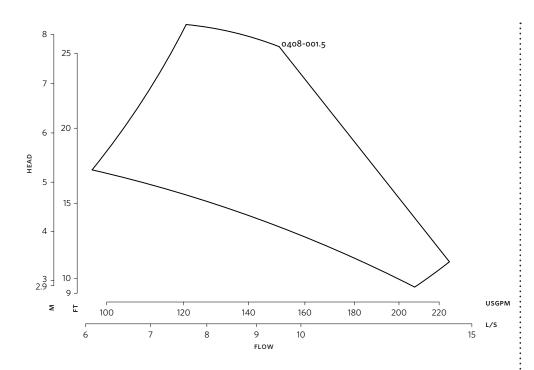
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C
Rotating Face	Silicon carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat Elastomer	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (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

and the costs for such mitigation.

Spring: Stainless steel

levels are exceeded Armstrong can also recommend additional harmonic mitigation

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Performance curves are for reference only.

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

ARMSTRONG FLUID TECHNOLOGY

ESTABLISHED 1934

DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	182	182
Size:	4×4×8	4×4×8
HP:	1.5	1.5
RPM:	1500	1500
AB:	21.87(555)	21.87(555)
B1:	8.75(222)	8.75(222)
B2:	8.75(222)	8.75(222)
C1:	15.09(383)	15.09(383)
C2:	15.63(397)	15.63(397)
D1:	14.84(377)	14.84(377)
D2:	14.84(377)	14.84(377)
E:	7.50(191)	7.50(191)
F:	13.66(347)	13.66(347)
P:	9.50(241)	9.50(241)
SD:	27.63(702)	27.63(702)
T:	6.28(160)	6.28(160)
XY:	20.01(508)	20.01(508)
Weight:	433(196.4)	455(206.2)

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

TORONTO

+1 416 755 2291

BUFFALO

+1 716 693 8813

BIRMINGHAM

+44 (0) 8444 145 145

MANCHESTER

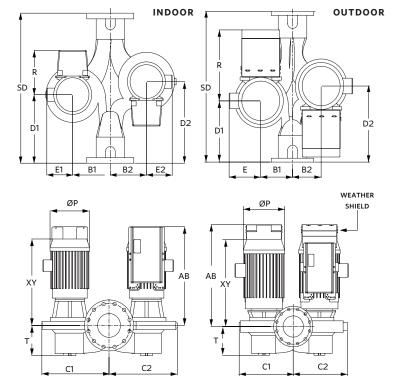
+44 (0) 8444 145 145

BANGALORE

+91 (0) 80 4906 3555

SHANGHAI

+86 21 3756 6696



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