

DESIGN ENVELOPE 4382 DUALARM | 0406-001.5 | SUBMITTAL

Date: OCTOBER 30, 2015 Supersedes: 100.4612 Date: AUGUST 14, 2015

Job: Rep			Repres	resentative:			
			Order	No:	Date:		
Engineer: S			Submi	itted by:	Date:		
Contractor:			Appro	oved by:	Date:		
PUMP DESIGN DAT	A			CONTROLS DATA			
No. of pumps:		Tag:		Sensorless Control:	Standard		
Capacity:US				Minimum system pressure to be maintained:	ft (m)*		
Liquid: Temperature:				Protocol (standard):	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN		
Suction: 4" (100mm) Discharge: 4" (100mm			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 premi	ium 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	s at 6E°C)			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)		
T. I				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			

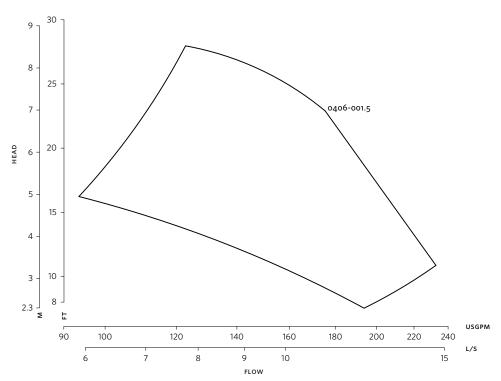
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C
Rotating Face	Silicon carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded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

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.

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

ARMSTRONG FLUID TECHNOLOGY

ESTABLISHED 1934

DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)		
Frame size:	145	145		
Size:	4×4×6	4×4×6		
HP:	1.5	1.5		
RPM:	1800	1800		
AB:	12.65(321)	18.50(470)		
B1:	6.81(173)	6.81(173)		
B2:	6.81(173)	6.81(173)		
C1:	12.14(308)	12.14(308)		
C2:	12.63(321)	12.63(321)		
D1:	13.84(352)	13.84(352)		
D2:	13.84(352)	13.84(352)		
E:	6.13(156)	6.13(156)		
P:	8.63(219)	7.83(199)		
F:	24.19(614)	30.15(766)		
SD:	26.63(676)	26.63(676)		
T:	5.80(147)	5.80(147)		
XY:	17.25(438)	17.00(432)		
Weight:	432(196.0)	440(199.6)		

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

C1

C2

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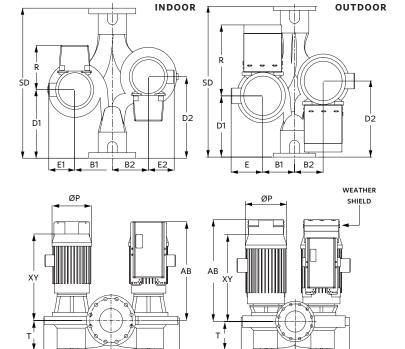
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