

DESIGN ENVELOPE 4392 TWIN | 0308-003.0 | SUBMITTAL

File No: 100.4932

Date: OCTOBER 30, 2015

Supersedes: 100.4944

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	(m) Minimum system pressure	ft (m)*	
Liquid: Viscosity: Temperature:°F (°C) Specific gravity:	Frotocoi (Staliuaru).	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN	
Suction: 3" (75mm) Discharge: 3" (75mi			
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 certified		☐ Indoor - UL TYPE 12 ☐ Outdoor - UL TYPE 4X with weather shield ☐ Outdoor - UL TYPE 4X less weather shield	
MOTOR DESIGN DATA	Fused disconnect switch:		
hp:rpm:Frame size: Enclosure:	Duty/standby pre-wired bridge:		
Volts: Hertz: 60 Hz Phase: 3	EMI/RFI control:	Integrated filter designed to meet EN61800-3	
Efficiency: NEMA premium 12.12	Harmonic suppression:	Dual DC-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements**	
MAXIMUM PUMP OPERATING CONDITION		Fan-cooled through back channel	
ANSI 125	Ambient temperature:	-10°C to +45°C up to 1000 meters abov sea level (-14°F to +113°F, 3300 ft)	
175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)	Analog ı/o:	Two current or voltage inputs, one current output	
• Tolerance of ±0.125" (±3 mm) should be used	Digital ı/o:	Six programmable inputs (two can be configured as outputs)	
• For exact installation, data please write factory for	· · · · · · · · · · · · · · · · · · ·	: Two programmable	
certified dimensions	•	Two programmable	
	Communication port:	1-RS485, 1-USB	

	in minimum maintained system pressure is not known. Default to 40% of design nead
,	**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 NO	N-POTABLE FLUIDS	POTABLE (DRIN	IKING) 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 (O-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

MECHANICAL SEAL DATA

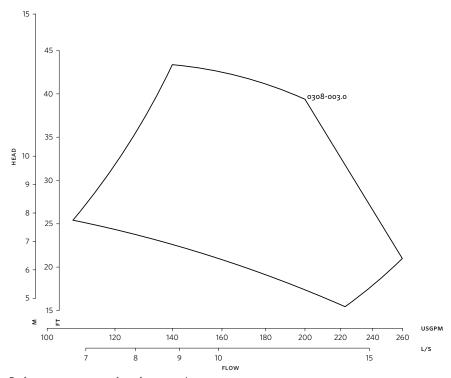
Stationary seat: Silicon carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel



Performance curves are for reference only.

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

ESTABLISHED 1934

DIMENSION DATA

	INDOOR	OUTDOOR
	(UL TYPE 12/ODP)	(UL TYPE 4X/TEFC)
Frame size:	182	182
Size:	3×3×8	3×3×8
HP:	3	3
RPM:	1800	1800
AB:	21.15(537)	27.11(689)
B1:	9.84(250)	9.84(250)
B2:	9.84(250)	9.84(250)
C1:	16.22(412)	16.22(412)
C2:	16.24(412)	16.24(412)
D1:	7.87(200)	7.87(200)
D2:	9.05(230)	9.05(230)
E:	7.50(191)	7.50(191)
F:	13.65(347)	19.50(495)
P:	10.38(264)	9.50(241)
SD:	15.75(400)	15.75(400)
T:	6.22(158)	6.22(158)
XY:	19.26(489)	20.01(508)
Weight:	472(214.1)	550(249.5)

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

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