

DESIGN ENVELOPE 4392 TWIN | 0206-001.0 | SUBMITTAL

File No: 100.4902

Date: OCTOBER 30, 2015

Supersedes: 100.4902

Date: AUGUST 14, 2015

Job:	Representative:	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	to be maintained:	ft (m)*			
Liquid: Viscosity: Temperature: °F (°C) Specific gravity:	; Protocol (Standard):	□ Modbus RTU □ BACnet™ MS/TP □ Johnson® N2 □ Siemens® FLN			
Suction: 2" (50mm) Discharge: 2" (50mm)					
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 certified	Enclosure	: ☐ 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:					
Volts: Hertz: 60 Hz Phase: 3	емі/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 above 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	Pulse inputs:	Two programmable			
certified dimensions	•	Two programmable			
	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 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 (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

MECHANICAL SEAL DATA

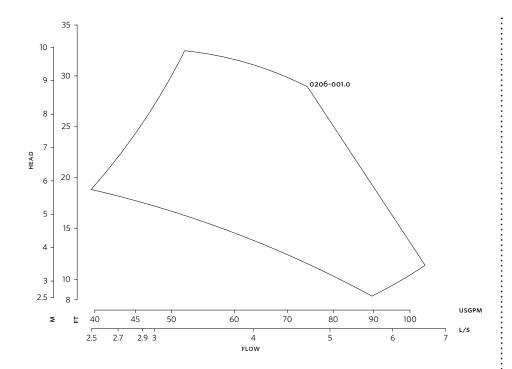
Stationary seat: Silicon carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel



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

DIMENSION DATA

	INDOOR	OUTDOOR
	(UL TYPE 12/ODP)	(UL TYPE 4X/TEFC)
Frame size:	143	143
Size:	2×2×6	2×2×6
HP:	1	1
RPM:	1800	1800
AB:	20.84(529)	26.80(681)
B1:	7.87(200)	7.87(200)
B2:	7.87(200)	7.87(200)
C1:	12.34(314)	12.34(314)
C2:	12.34(314)	12.34(314)
D1:	7.28(185)	7.28(185)
D2:	7.28(185)	7.28(185)
E:	6.13(156)	6.13(156)
F:	12.65(321)	18.50(470)
P:	8.63(219)	7.83(199)
SD:	12.99(330)	12.99(330)
T:	5.30(135)	5.30(135)
XY:	17.25(438)	17.00(432)
Weight:	348(157.9)	352(159.7)

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

ESTABLISHED 1934

SHANGHAI

+86 21 3756 6696

