

# DESIGN ENVELOPE 4392 TWIN | 0608-003.0 | SUBMITTAL

File No: 100.4944

Date: OCTOBER 30, 2015

Supersedes: NEW

Date: NEW

Job:		Representative:			
	(	Order No:	Date:		
Engineer:		Submitted by:			
		Approved by:			
PUMP DESIGN DATA		CONTROLS DATA			
No. of pumps: Tag:		Sensorless control:	Standard		
Capacity:USgpm (L/s) Head: _ Liquid: Viscosit		•	ft (m)*		
Temperature:°F(°C) Specific		:	☐ Modbus rtu ☐ BACnet™ мs/тр ☐ Johnson® N2 ☐ Siemens® FLN		
Suction: 6" (150mm) Dischar	ge: 6" (150mm)	Protocol (optional):			
оѕнрр Seismic Certification osp-0422-	10	Enclosure:	☐ Indoor – UL TYPE 12 ☐ Outdoor – UL TYPE 4X with		
UL STD 778 & CSA STD C22.2 NO.108 certified			weather shield  Outdoor - UL TYPE 4X less weather shield		
MOTOR DESIGN DATA		Fused disconnect switch:			
hp: rpm:Frame size: Er	nclosure:	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	CONDITIONS	Cooling:	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 I/o:	Two current or voltage inputs, one current output		
• Tolerance of ±0.125" (±3 mm) should be	e used	Digital ı/o:	Six programmable inputs (two can be configured as outputs)		
• For exact installation, data please write		Pulse inputs:	Two programmable		
certified dimensions		: Relay outputs:	Two programmable		

Communication port: 1-RS485, 1-USB

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 (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: Silicon carbide

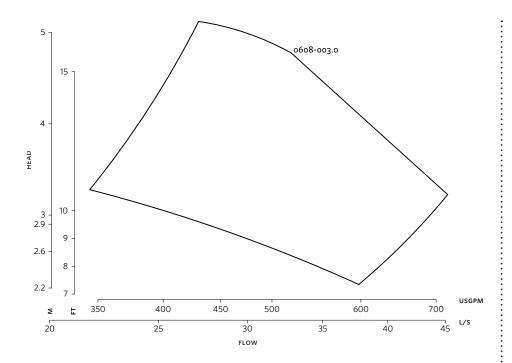
Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

<sup>\*</sup>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.



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:	213	215 6×6×8		
Size:	6×6×8			
HP:	3	3		
RPM:	1500	1500		
AB:	29.22(742)	29.22(742)		
B1:	11.81(300)	11.81(300)		
B2:	11.81(300)	11.81(300)		
C1:	20.37(517)	20.37(517)		
C2:	20.90(531)	20.90(531)		
D1:	12.60(320)	12.60(320)		
D2:	17.32(440)	17.32(440)		
E:	8.25(210)	8.25(210)		
F:	16.77(426)	16.77(426)		
P:	11.25(286)	11.25(286)		
SD:	27.56(700)	27.56(700)		
T:	8.78(223)	8.78(223)		
XY:	27.20(691)	27.20(691)		
Weight:	947(429.6)	994(451.0)		

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

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