

DESIGN ENVELOPE 4392 TWIN | 0408-003.0 | SUBMITTAL

File No: 100.4938
Date: OCTOBER 30, 2015
Supersedes: 100.4948
Date: AUGUST 14, 2015

Job: _____ Representative: _____

Order No: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ USgpm (L/s) Head: _____ ft (m)
Liquid: _____ Viscosity: _____
Temperature: _____ °F (°C) Specific gravity: _____
Suction: 4" (100mm) Discharge: 4" (100mm)

OSHPD Seismic Certification OSP-0422-10
UL STD 778 & CSA STD C22.2 NO.108 certified

MOTOR DESIGN DATA

hp: _____ rpm: _____ Frame size: _____ Enclosure: _____
Volts: _____ Hertz: 60 Hz Phase: 3
Efficiency: NEMA premium 12.12

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
175 psig at 150°F (12 bars at 65°C)
140 psig at 250°F (10 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- For exact installation, data please write factory for certified dimensions

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicon carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

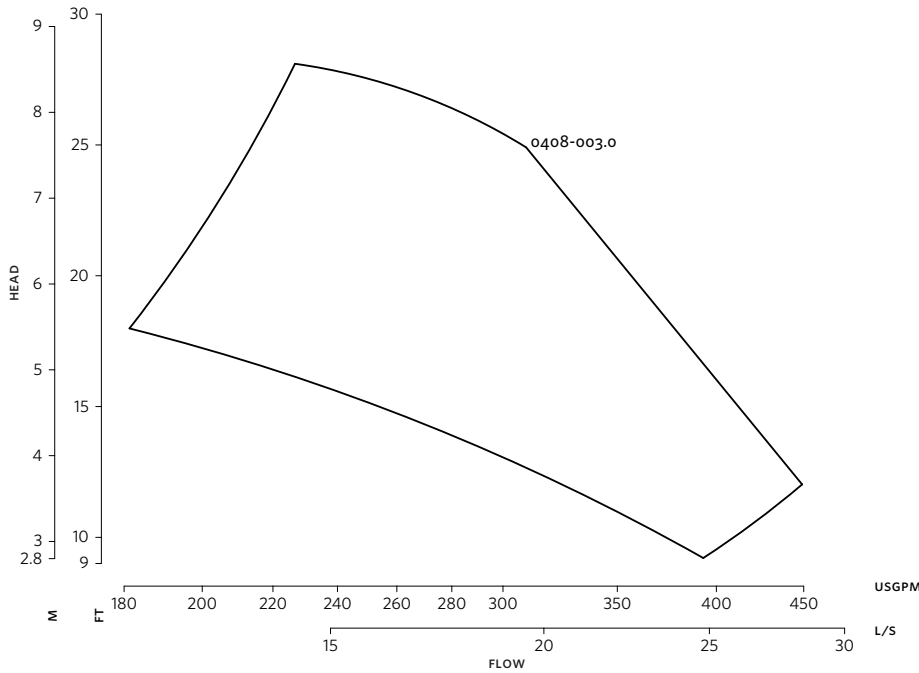
CONTROLS DATA

Sensorless control: Standard
Minimum system pressure to be maintained: _____ ft (m)*
Protocol (standard): Modbus RTU BACnet™ MS/TP
 Johnson® N2 Siemens® FLN
Protocol (optional): LonWorks®
Enclosure: Indoor - UL TYPE 12
 Outdoor - UL TYPE 4X with weather shield
 Outdoor - UL TYPE 4X less weather shield
Fused disconnect switch:
Duty/standby pre-wired bridge:
EMI/RFI control: Integrated filter designed to meet EN61800-3
Harmonic suppression: Dual DC-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements**
Cooling: Fan-cooled through back channel
Ambient temperature: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
Analog I/O: Two current or voltage inputs, one current output
Digital I/O: Six programmable inputs (two can be configured as outputs)
Pulse inputs: Two programmable
Relay outputs: 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 NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	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
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

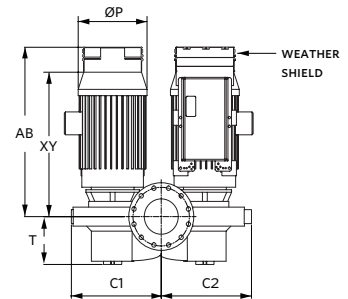
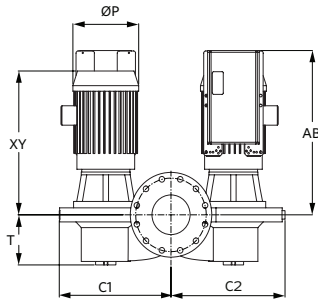
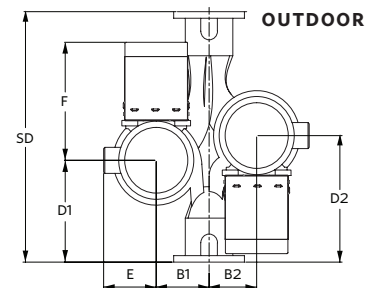
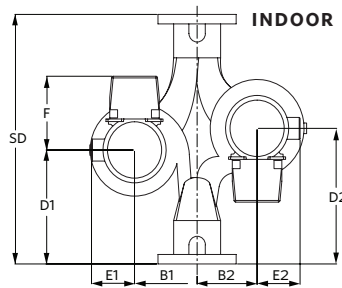


DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	182	182
Size:	4×4×8	4×4×8
HP:	3	3
RPM:	1500	1500
AB:	21.30(541)	27.26(692)
B1:	11.42(290)	11.42(290)
B2:	11.42(290)	11.42(290)
C1:	18.85(479)	18.85(479)
C2:	18.94(481)	18.94(481)
D1:	11.18(284)	11.18(284)
D2:	11.18(284)	11.18(284)
E:	7.50(191)	7.50(191)
F:	13.65(347)	19.50(495)
P:	10.38(264)	9.50(241)
SD:	20.00(508)	20.00(508)
T:	7.99(203)	7.99(203)
XY:	19.41(493)	20.16(512)
Weight:	522(236.8)	600(272.2)

Performance curves are for reference only.
Confirm current performance data with Armstrong ACE Online selection software.

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



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