ARMSTRONG

DESIGN ENVELOPE 4382 DUALARM | 0608-005.0
SUBMITTAL

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: 6" (150mm)   Discharge: 6" (150mm)

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)

ANSI 250

250 psig at 150°F (17 bars at 65°C)
250 psig at 250°F (17 bars at 121°C)

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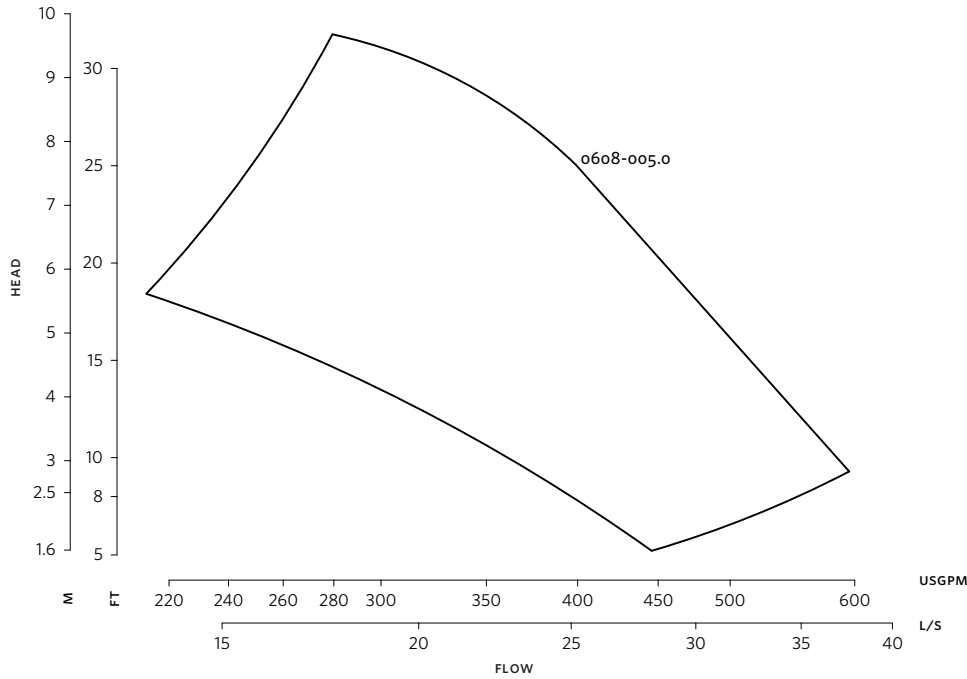
MECHANICAL SEAL DATA

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	
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

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

DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	184	184
Size:	6×6×8	6×6×8
HP:	5	5
RPM:	1500	1500
AB:	22.27(566)	22.27(566)
B1:	9.75(248)	9.75(248)
B2:	9.75(248)	9.75(248)
C1:	16.90(429)	16.90(429)
C2:	17.63(448)	17.63(448)
D1:	16.81(427)	16.81(427)
D2:	16.81(427)	16.81(427)
E:	7.50(190)	7.50(190)
F:	13.65(347)	13.65(347)
P:	10.38(264)	9.50(241)
SD:	33.94(862)	33.94(862)
T:	7.875(200)	7.875(200)
XY:	19.67(500)	20.42(519)
Weight:	618(280.3)	694(314.8)

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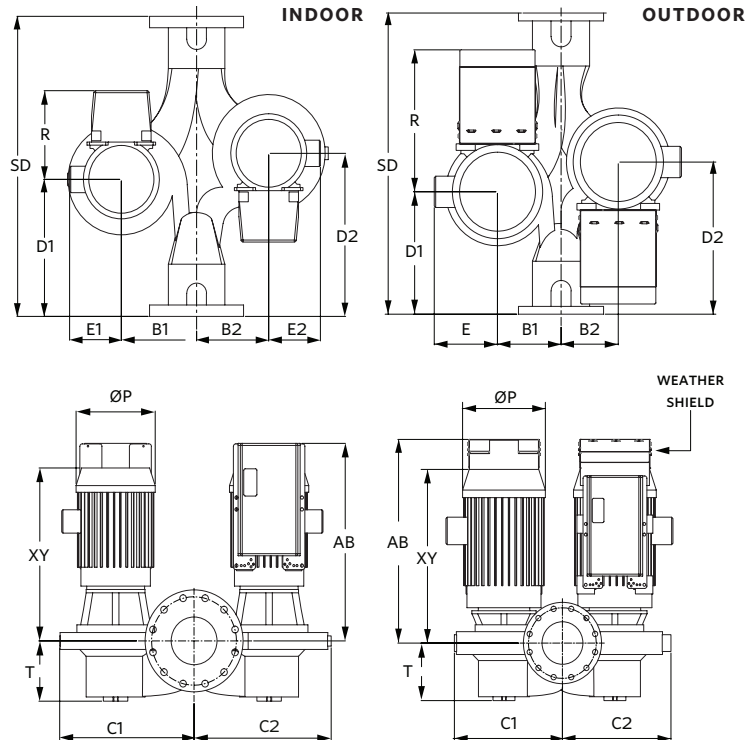
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