

DESIGN ENVELOPE EXPRESS PUMP 4300 |

0408-010.0 | SUBMITTAL

File No: 100.3042 Date: DECEMBER 24, 2015 Supersedes: 100.3042 Date: SEPTEMBER 22, 2015

| Job: | | Repres | sentative: | |
|--|----------------------|---------------|--|--|
| | | Order | No: | Date: |
| Engineer: | | Submitted by: | | Date: |
| Contractor: | | Appro | ved by: | Date: |
| PUMP DESIGN DATA | | | CONTROLS DATA | EXPRESS |
| No. of pumps: | Tag: | | Sensorless Control: | Standard |
| Capacity:USgpm (L/s) Liquid: | | | Minimum system pressure to be maintained: | ft (m)* |
| Temperature: °F (°C) | Specific gravity: | | Orientation: | L1 |
| Suction: 4" (100mm) | Discharge: 4" (100mr | n) | Protocol: | BACnet TM |
| OSHPD Seismic Certification OSP-0422-10 | | | Enclosure: | Indoor - UL TYPE 12 |
| UL STD 778 & CSA STD C22.2 NO.1 | o8 certified | | EMI/RFI control: | Integrated filter designed to meet EN61800-3 |
| MOTOR DESIGN DATA HP: 10 RPM: 1800 Frame size: 215 Enclosure: TEFC | | | Harmonic suppression: | Dual Dc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements** |
| HP: 10 RPM: 1800 Frame size: 215 Enclosure: TEFC Volts: □ 230V □ 460V □ 575V Hertz: 60 Hz | | | Cooling: | Fan-cooled through back channel |
| Phase: 3 Efficiency: NEMA premium 12.12 | | | Ambient temperature: | -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft) |
| MAXIMUM PUMP OPERATING CONDITIONS | | | Analog ı/o: | Two current or voltage inputs, one current output |
| ANSI 125 175 psig at 150°F (12 bars at 65°C) | | | Digital ı/o: | Six programmable inputs (two can be configured as outputs) |
| 100 psig at 300°F (7 bars at 150°C) | | | Pulse inputs: | Two programmable |
| ANSI 250 | | | Relay outputs: | Two programmable |
| 375 psig at 150°F (26 bars at 65°C) 260 psig at 300°F (21 bars at 150°C) | | | Communication port: | 1-RS485, 1-USB |

**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 • For exact installation, data please write factory for 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.

 $^{\star}\text{If minimum maintained}$ system pressure is not known: Default to 40% of design head

MECHANICAL SEAL DESIGN DATA

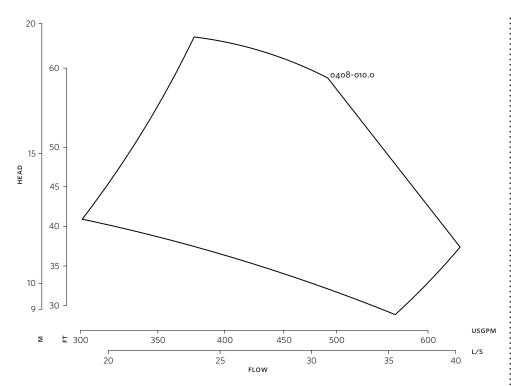
certified dimensions

• Tolerance of ±0.125" (±3 mm) should be used

See file no. 43.50 for standard mechanical seal details as indicated below

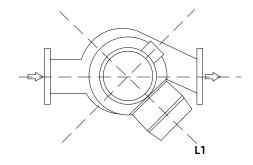
Armstrong seal reference number: c1 (a)

2



 $\label{performance curves are for reference only.} \\$

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



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

SHANGHAI

+86 21 3756 6696

ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934

DIMENSION DATA

| | INDOOR |
|-------------|-------------------|
| | (UL TYPE 12/TEFC) |
| Frame size: | 215 |
| Size: | 4×4×8 |
| HP: | 10 |
| RPM: | 1800 |
| AB: | 31.89(810) |
| В: | 8.00(203) |
| c: | 6.31(160) |
| D: | 11.00(279) |
| E: | 14.73(374) |
| P: | 12.13(308) |
| F: | 28.73(730) |
| s: | 14.00(356) |
| SD: | 25.00(635) |
| T: | 8.00(203) |
| XY: | 28.19(716) |
| Weight: | 396(179.6) |
| | |

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

