ARMSTRONG

DESIGN ENVELOPE 4312 TWIN | 0308-003.0 |
SUBMITTAL

File No: 100.4762
Date: JANUARY 14, 2016
Supersedes: 100.4762
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: 3" (75mm) Discharge: 3" (75mm)

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 DESIGN DATA

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

Armstrong seal reference number

☐ C1 (a) ☐ Others: _____

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)

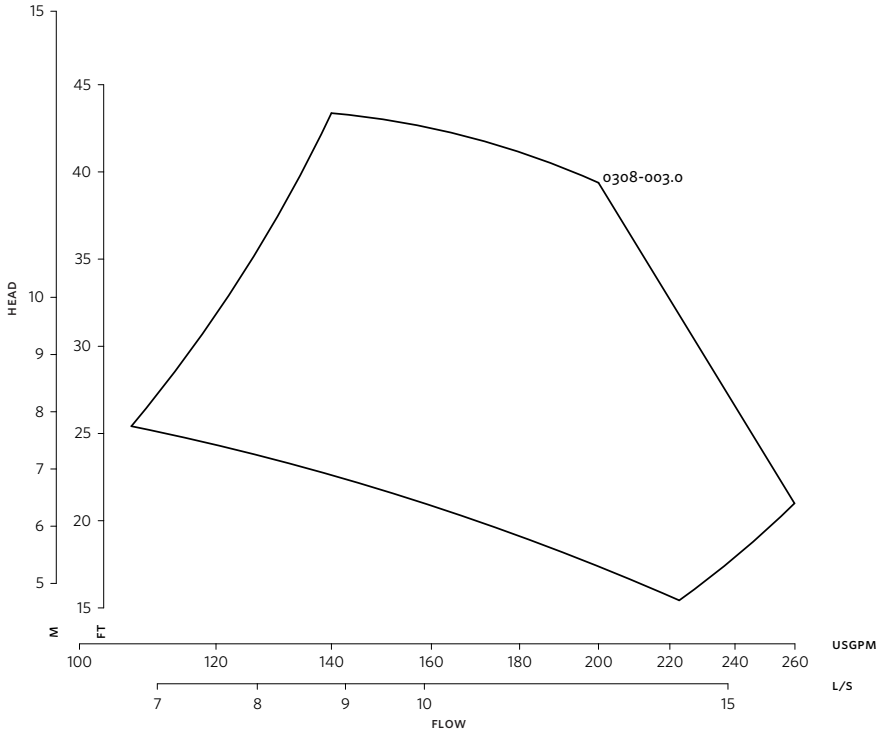
Pulse inputs: Two programmable

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.



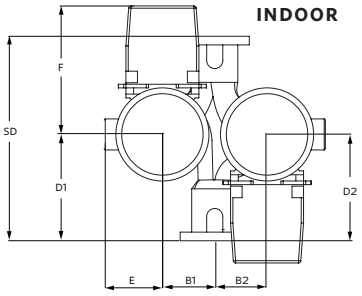
Performance curves are for reference only.
Confirm current performance data with Armstrong ACE Online selection software.

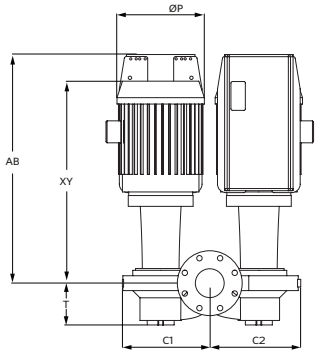
DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	182TC	182TC
Size:	3×3×8	3×3×8
HP:	3	3
RPM:	1800	1800
AB:	26.63(676)	32.59(828)
B1:	9.84(250)	9.84(250)
B2:	9.84(250)	9.84(250)
C1:	16.22(412)	16.22(412)
C2:	16.24(412)	16.24(412)
D1:	7.87(200)	7.87(200)
D2:	9.05(230)	9.05(230)
E:	6.84(174)	7.50(191)
F:	13.58(345)	19.50(495)
P:	10.38(264)	9.56(243)
SD:	15.75(400)	15.75(400)
T:	6.22(158)	6.22(158)
XY:	26.54(674)	26.42(671)
Weight:	520(235.9)	600(272.2)

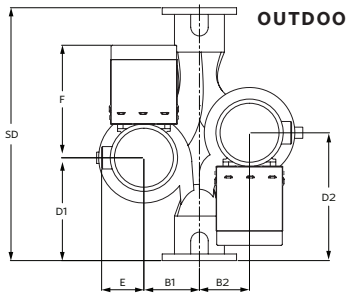
Dimensions – inch (mm)
Weight – lbs (kg)

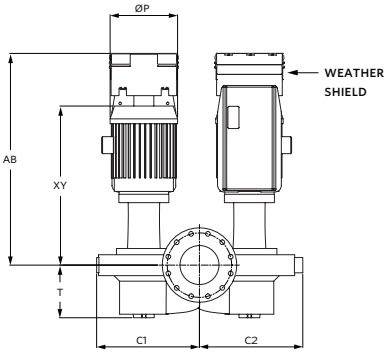
INDOOR





OUTDOOR





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