

# DESIGN ENVELOPE 4312 TWIN | 0608-010.0 | SUBMITTAL

File No: 100.4788

Date: JANUARY 14, 2016

Supersedes: 100.4788

Date: AUGUST 14, 2015

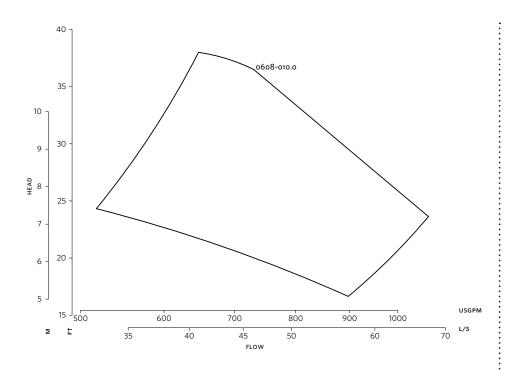
Job:		Representative:	
		Order No:	Date:
Engineer: Su  Contractor: Ap		Submitted by:	Date:
		Approved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps: Tag:		Sensorless Control:	Standard
Capacity:USgpm (L/s) Hea	d:ft (m	Minimum system pressure	ft (m)*
Temperature:oF(oC) Spec	cific gravity:	5 1 14 1 15	☐ Modbus RTU ☐ BACnet <sup>TM</sup> MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Suction: 6" (150mm) Disc		Protocol (optional):	$\square$ LonWorks $^{\circledR}$
OSHPD Seismic Certification OSP-0422-10 UL STD 778 & CSA STD C22.2 NO.108 certified		Enclosure:	☐ Indoor – UL TYPE 12 ☐ Outdoor – UL TYPE 4X with
MOTOR DESIGN DATA		Fused disconnect switch:	Weather Shield  ☐ Outdoor - UL TYPE 4X less  Weather Shield
HP: RPM: Frame size:	Enclosure:	- Duty/standby	
Volts: Hertz: 60 Hz	Phase: 3	pre-wired bridge:	
Efficiency: NEMA premium 12.12		EMI/RFI control:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERATING	CONDITIONS	Harmonic suppression:	Dual Dc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**
ANSI 125		Cooling:	Fan-cooled through back channel
175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)		Ambient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
<ul> <li>Tolerance of ±0.125" (±3 mm) should be used</li> <li>For exact installation, data please write factory for certified dimensions</li> </ul>		Analog ı/o:	Two current or voltage inputs, one current output
		Digital ı/o:	Six programmable inputs (two can be configured as outputs)
		Pulse inputs:	Two programmable
		Relay outputs:	Two programmable
MECHANICAL SEAL DESIGN DATA		Communication port:	1-RS485, 1-USB
See file no. 43.50 for standard mechanical seal details as indicated below		•	sure is not known: Default to 40% of design head drive via built-in pc line reactors. This does not
Armstrong seal reference number			m wide harmonic specification or the costs to meet

☐ c1 (a)

☐ Others: \_

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 mee 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.

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Performance curves are for reference only.

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

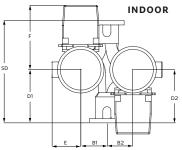
ARMSTRONG FLUID TECHNOLOGY

ESTABLISHED 1934

## **DIMENSION DATA**

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	213TC	213TC
Size:	6×6×8	6×6×8
HP:	10	10
RPM:	1800	1800
AB:	32.57(827)	38.36(974)
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:	7.59(193)	8.25(210)
F:	16.66(423)	20.25(514)
P:	12.13(308)	11.25(286)
SD:	27.56(700)	27.56(700)
T:	8.78(223)	8.78(223)
XY:	28.62(727)	29.75(756)
Weight:	952(431.8)	1036(469.9)

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



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## BIRMINGHAM

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#### MANCHESTER

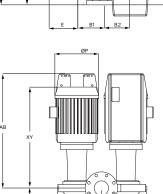
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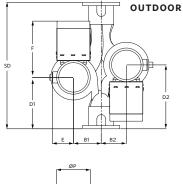
### BANGALORE

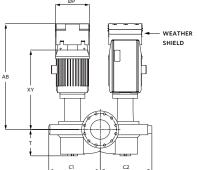
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## SHANGHAI

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