

DESIGN ENVELOPE 4312 TWIN | 0206-001.0 | SUBMITTAL

File No: 100.4702

Date: JANUARY 14, 2016

Supersedes: 100.4702

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)	Head:ft (m	Minimum system pressure	ft (m)*	
Temperature:°F (°C)	Specific gravity:	5 1 14 1 15	☐ Modbus RTU ☐ BACnet TM MS/TP☐ Johnson® N2 ☐ Siemens® FLN	
-	Discharge: 2" (50mm)	Protocol (optional):	□ LonWorks®	
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 Weather Shield ☐ Outdoor - UL TYPE 4X less	
MOTOR DESIGN DATA		Fused disconnect switch:	Weather Shield	
HP: RPM: Frame si		Duty/standby pre-wired bridge:	П	
Volts: Hertz: 6	_		Integrated filter designed to meet	
Efficiency: NEMA premium 12.1	2	EWII/ RFI CONCIOI.	EN61800-3	
MAXIMUM PUMP OPERA	TING 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)	
 Tolerance of ±0.125" (±3 mm) should be used For exact installation, data please write factory for certified dimensions 		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	
MECHANICAL CEAL DECICE DATA		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		guaranty performance to any syste	guaranty performance to any system wide harmonic specification or the costs to meet	

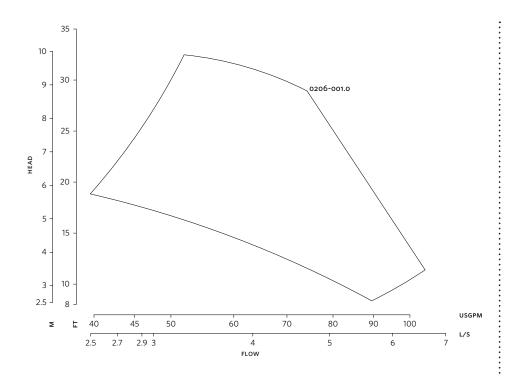
☐ c1 (a)

☐ 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 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.

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Performance curves are for reference only.

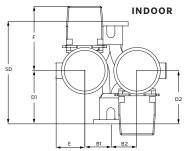
 $Confirm\ current\ performance\ data\ with\ Armstrong\ {\tt ACE}\ Online\ selection\ software.$

ESTABLISHED 1934

DIMENSION DATA

	INDOOR	OUTDOOR
	(UL TYPE 12/ODP)	(UL TYPE 4X/TEFC)
Frame size:	143TC	143TC
Size:	2×2×6	2×2×6
HP:	1	1
RPM:	1800	1800
AB:	24.00(610)	29.96(761)
B1:	7.87(200)	7.87(200)
B2:	7.87(200)	7.87(200)
C1:	12.34(314)	12.34(314)
C2:	12.34(314)	12.34(314)
D1:	7.28(185)	7.28(185)
D2:	7.28(185)	7.28(185)
E:	4.13(105)	6.09(155)
F:	12.58(319)	18.50(470)
P:	8.63(219)	7.28(185)
SD:	12.99(330)	12.99(330)
T:	5.30(135)	5.30(135)
XY:	22.03(560)	20.53(521)
Weight:	386 (175.1)	400(181.4)

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



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