

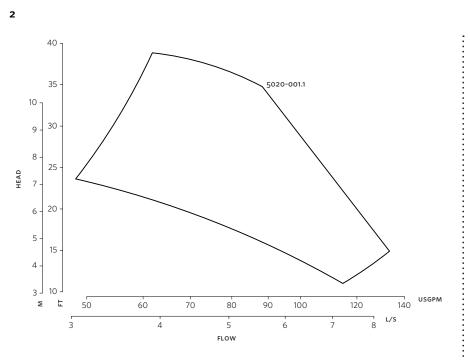
DESIGN ENVELOPE 4312 TWIN 5020-001.1 SUBMITTAL

File No: 100.4746IN Date: AUGUST 14, 2015 Supersedes: 100.4746IN Date: MAY 27, 2015

Job:		Representative:	
		Order No:	Date:
Engineer:		Submitted by:	Date:
Contractor:		Approved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	Sensorless control:	Standard
Capacity: m³/h(USgpm) Liquid:		Minimum system pressure to be maintained:	m (ft)*
Temperature:°C (°F)	Specific gravity:	Protocol (standard):	□ Modbus rtu □ bacnet [™] ms/tp □ Johnson [®] N2 □ Siemens [®] fln
Suction: 50mm (2")	Discharge: 50mm (2")	Protocol (optional):	□ LonWorks [®]
		Enclosure:	□ Indoor - 1P55 □ Outdoor - 1P66
MOTOR DESIGN DATA		Fused disconnect switch:	
kW: RPM: Volts: Hertz: <u>с</u>		Duty/standby pre-wired bridge:	
Efficiency: IE2 Frame size:		ЕМІ/RFI control:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERAT	TING CONDITIONS	Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**
PN 16		Cooling:	Fan-cooled through back channel
16 bars at 149°C (232 psig at 300°F) 7 bars at 150°C (100 psig at 300°F)		Ambient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
PN 25 25 bars at 149°C (375 psig at 300°F)		Analog ı/o:	Two current or voltage inputs, one current output
21 bars at 150°C (260 psig at 300°F)		Digital ı/o:	Six programmable inputs (two can be configured as outputs)
 Tolerance of ±3 mm (±0.125") should be used For exact installation, data please write factory for certified dimensions 		Pulse inputs:	Two programmable
		Relay outputs:	Two programmable
		Communication port:	1-rs485, 1-usb
MECHANICAL SEAL DESIGN DATA See file no. 43.50 for standard mechanical seal details as indicated below		*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	
Armstrong seal reference number		mitigation and the costs for such mi	
□ c1 (a) □ Others:			



Design Envelope 4312 twin



DIMENSION DATA

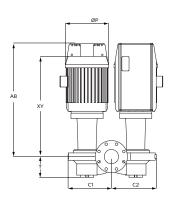
	INDOOR IP55	
Frame size:	905	
Size:	5020-001.1	
kW:	1.1	
RPM:	1500	
AB:	529(20.82)	
B1:	208(08.27)	
B2:	220(08.75)	
C1:	353(13.98)	
C2:	365(14.46)	
D1:	210(08.35)	
D2:	230(09.14)	
E:	133(05.23)	
F:	150(05.90)	
P:	190(07.57)	
SD:	400(15.74)	
т:	130(05.11)	
XY:	544(21.41)	
Weight:	88.00(194)	
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Dimensions – mm (inch) Weight – kg (lbs)

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Performance curves are for reference only.

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



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