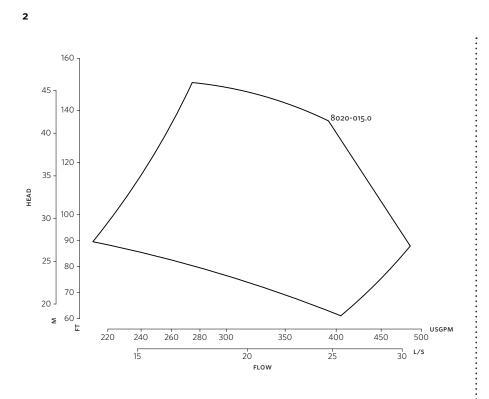


DESIGN ENVELOPE 4312 TWIN 8020-015.0 SUBMITTAL

File No: 100.4770IN Date: AUGUST 14, 2015 Supersedes: 100.4770IN Date: MAY 27, 2015

Job:		Representative:	
		Order No:	Date:
Engineer: Contractor:		Submitted by:	Date:
		Approved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	Sensorless control:	Standard
Capacity: m ³ /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: 80mm (3")	Discharge: 80mm (3")	Protocol (optional):	□ LonWorks [®]
		Enclosure:	□ Indoor - 1P55 □ Outdoor - 1P66
MOTOR DESIGN DATA		Fused disconnect switch:	
kW: RPM: Volts: Hertz: 5		Duty/standby pre-wired bridge:	
Efficiency: IE2 Frame size:		ЕМІ/RFI control:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERAT	ING 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) PN 25 25 bars at 149°C (375 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)
		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 numb	ber	mitigation and the costs for such mi	tigation.
□ c1 (a) □ Others:		:	

Design Envelope 4312 twin



	INDOOR IP55		
Frame size:	160M		
Size:	8020-015.0		
kW:	15		
RPM:	3000		
AB:	935(36.81)		
B1:	250(10.28)		
B2:	250(10.28)		
C1:	412(16.22)		
C2:	412(16.22)		
D1:	200(07.96)		
D2:	230(09.14)		
E:	208(08.27)		
F:	430(16.92)		
Ρ:	315(12.40)		
SD:	400(15.74)		
т:	158(06.22)		
XY:	894(35.28)		
Weight:	220.45(486)		
Dimensional and the sha			

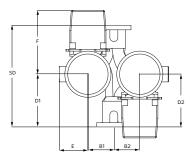
DIMENSION DATA

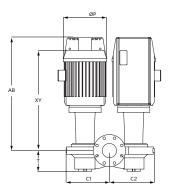
Dimensions – mm (inch) Weight – kg (lbs)

:

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

INDOOR





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