

DESIGN ENVELOPE 4300 VIL 5020-001.1 SUBMITTAL

File No: 100.4026UK Date: AUGUST 14, 2015 Supersedes: 100.4026UK Date:SEPTEMBER 11, 2013

Jop:	Representative:	
	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:

PUMP DESIGN DATA

No. of pumps:		Tag:
Liquid:		Viscosity:
Temperature:	°C (°F)	Specific gravity:
Suction: 50mm (2")		Discharge: 50mm (2")

DE PUMPING UNIT CAPACITY

OPERATING POINT	LPS	m³∕h	METERS
Full capability at maximum efficiency	6.0	21.6	12.2
Design point			
Average part load based on default load profile			

MOTOR DESIGN DATA

Power: 1.1 kW	Speed: 4-POLE	Enclosure: TEFC
Volts:	_Hertz: 50 Hz	Phase: 3
Efficiency: 🗆 IE2	Frame size:	

MAXIMUM PUMP OPERATING CONDITIONS

PN 16

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) 21 bars at 150°c (260 psig at 300°F)

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

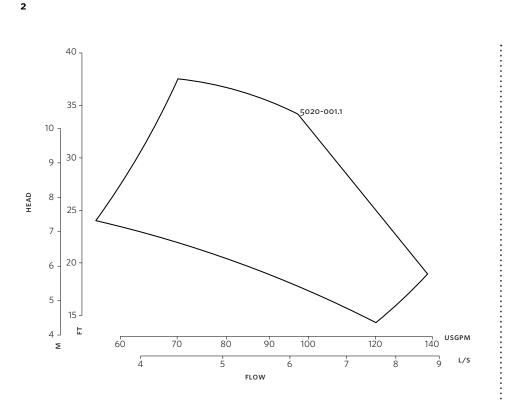
rlace Control Standar

Sensorless Control:	Standard
Minimum system pressure to be maintained:	m (ft)*
Orientation:	🗆 L1 (default) 🗆 L2 🗆 L3 🗆 L4
Protocol (standard):	□ Modbus rtu □ bacnet [™] ms/tp □ Johnson [®] N2 □ Siemens [®] FLN
Protocol (optional):	\Box LonWorks [®]
Enclosure:	□ Indoor - 1P55 □ Outdoor - 1P66
Fused disconnect switch:	N/A
EMI/RFI control:	Integrated filter designed to meet EN61800-3
Harmonic suppression:	Dual oc-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 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
Communication port:	1-rs485, 1-usb

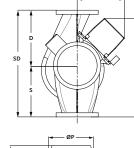
*If minimum maintained system pressure is not known: Default to 40% of design head ** The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not guarantee performance to any system wide harmonic specification or the costs to meet a system wide specification. If supplied with 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.



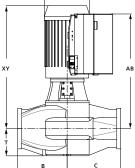
Design Envelope 4300 VIL



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



INDOOR



DIMENSION DATA

	INDOOR (IP55)	OUTDOOR (IP66)
Frame size:	90S	90S
Size:	5020-001.1	5020-001.1
kW:	1.1	1.1
RPM:	1500	1500
AB:	506(19.92)	506(19.92)
в:	133(05.23)	133(05.23)
C:	126(05.05)	126(05.05)
D:	216(08.50)	216(08.50)
E:	151(05.94)	151(05.94)
F:	151(05.94)	
P:	190(07.48)	190(07.48)
s:	241(09.57)	241(09.57)
SD:	457(18.08)	457(18.08)
т:	129(05.07)	129(05.07)
XY:	521(20.51)	521(20.51)
Weight:	88.00(194)	88.00(194)

• Dimensions - mm (inch)

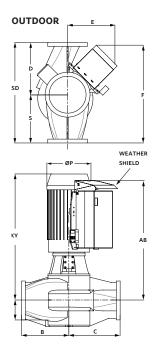
• Weight – kg (lbs)

• Tolerance of ±3 mm (±0.125") should be used

For exact installation, data please write factory

for certified dimensions

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