

DESIGN ENVELOPE 4300 VIL

FLOW READOUT ACCURACY

The Design Envelope model selected will provide flow reading

on the controls local keypad & digitally for the вмs. The model

readout will be factory tested to ensure ±5% accuracy.

32-125 (1.25×1.25×5) | 3212-001.1 | SUBMITTAL

File No: 101.5405IEC

Date: MARCH 25, 2021

Supersedes: 101.5405IEC

Date: SEPTEMBER 30, 2019

Job:	Represe	entative:	
	Order N	No:	Date:
Engineer: Submi Contractor: Appro		ted by:	Date:
		red by:	Date:
PUMP DESIGN DATA		DEPM MOTOR AND CO	ONTROL DATA
No. of pumps:	Tag:	kW:	1.1
Capacity:L/s (USgpm)	Head:m (ft)	RPM:	3600
Liquid:		Motor enclosure:	TEFC
Temperature: °C (°F)	•	Volts:	
	Discharge: 32 mm (1.25")	Phase:	3
	2.00a.go. 32 mm (1.2) /	Efficiency:	IE5
MEI ≥ 0.70		•	□ L5 (default) □ L6
		Protocol (standard):	
		•	☐ BACnet [™] TCP/IP
MATERIALS OF CONSTRUCTION			☐ Modbus RTU
□ PN 16		Control enclosure:	
CONSTRUCTION: LPDEBF			Outdoor - IP 66
E-coated ductile iron A 536 Gr	565-45-12, bronze fitted	Fused disconnect switch:	Integrated filter designed to
		EMIT RELEGITION.	meet EN61800-3
		: Harmonic suppression:	Equivalent: 5% Ac line reac-
MAXIMUM PUMP OPERATIN	IG CONDITIONS		tor - Supporting IEEE 519-1992
□ PN 16		•	requirements**
16 bars at 49°c (232 psig at 120	0°F)	Cooling:	Fan-cooled, surface cooling
7 bars at 150°c (100 psig at 30)	O°F)	Ambient temperature:	-10°C to $+45$ °C up to 1000 meters above sea level ($+14$ °F to $+113$ °F, 3300 ft)
MECHANICAL SEAL DESIGN	DATA	Analog ı/o:	Two inputs, one output. Output
		•	can be configured for voltage
See file no. 43.50 for standard mechanical seal details as indicated below		•	or current
		Digital ı/o:	Two inputs, two outputs. Out-
Armstrong seal reference number			puts can be configured as inputs
□ c1 (a) □ Others:		•	Two programmable
		Communication port:	1-RS485
		•	

^{**} 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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OPTIONS

SENSORLESS BUNDLE (STANDARD)



Operation of pump without a remote sensor. Includes:

- Sensorless control
- Flow readout
- Constant flow
- Constant pressure

Minimum system pressure to be maintained m (ft)

* If minimum maintained system pressure is not known: Default to 40% of design head

□ PARALLEL SENSORLESS



Operation of multiple pumps without a remote sensor

Minimum system pressure to be maintained m (ft)

* If minimum maintained system pressure is not known: Default to 40% of design head

☐ ENERGY PERFORMANCE BUNDLE



Provides energy savings on oversized systems by adjusting pump parameters to on-site conditions. Includes:

- Auto-flow balancing Automatically determines control curve between design flow at on-site system head, and minimum (zero-head) flow for energy savings
- Maximum flow control Limits flow rate to pre-set maximum for potential energy savings

Maximum flow rate L/s (gpm)

☐ PROTECTION BUNDLE



Protects other flow sensitive equipment by setting limits of pump operation. Includes:

- Minimum flow control Attempts to maintain flow rate to pre-set minimum to protect equipment in system
- Bypass valve control Actuates a bypass valve to protect flow sensitive equipment if pre-set minimum flow rate is reached

Minimum flow rate L/s (gpm)

☐ DUAL SEASON SETUP



Pre-sets heating and cooling parameters for pumps in 2-pipe systems

Cooling

Outy point	L/s (gpm) at m (ft)
	essure to be maintained (ft)
Heating	
Outy point	L/s (gpm) at m (ft)
Minimum system pre	essure to be maintained m (ft)

OPTIONAL SERVICES

ON-SITE PUMP COMMISSIONING



PUMP MANAGER



Online service for sustained pump performance and enhanced reliability.

Available in 3 or 5 year terms

- * Requires an internet connection to be provided by building
- * Includes an extended warranty for parts and labour (wearable parts excluded)

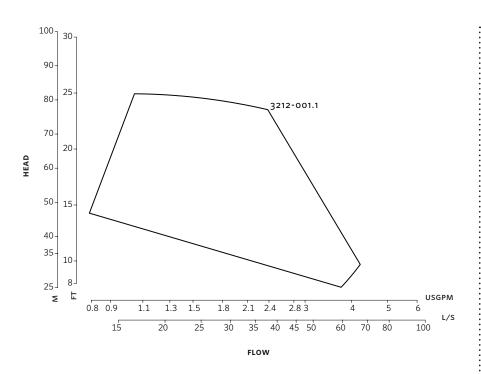
^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

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DIMENSION DATA

	INDOOR (IP55/TEFC)	OUTDOOR (IP66/TEFC)
	()), . = . = /	
Size:	32-125	32-125
κW:	1.1	1.1
RPM:	3600	3600
Frame:	905	905
AB:	535 (21.05)	591 (23.27)
в:	89 (3.51)	89 (3.51)
c:	81 (3.20)	81 (3.20)
CI:	_	127 (5.00)
D:	132 (5.20)	132 (5.20)
E:	208 (8.20)	219 (8.62)
s:	148 (5.83)	148 (5.83)
SD:	280 (11.02)	280 (11.02)
T:	76 (3.00)	76 (3.00)
Weight:	33.0 (73)	33.0 (73)

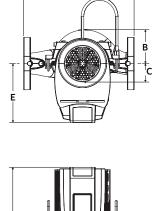
Dimensions - mm (inch) Weight - kg (lbs)

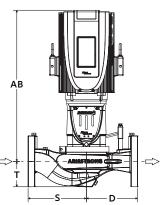
- Tolerance of ± 3 mm (± 0.125 ") should be used
- For exact installation, data please write factory for certified dimensions

Performance curves are for reference only.

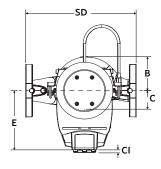
Confirm current performance data with Armstrong ADEPT Quote or ADEPT Select selection software.

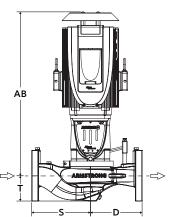
INDOOR



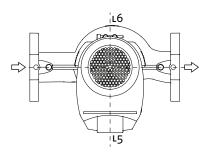


OUTDOOR





CONTROL ORIENTATIONS



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