

DESIGN ENVELOPE 4300 VIL | 2.5×2.5×5 (65–125)

2505-001.5 | SUBMITTAL

indicated below

☐ c1 (a)

Armstrong seal reference number

☐ Others:

Date: NOVEMBER 08, 202'
Supersedes: NEW

ı			
Job:	R	lepresentative:	
	C	Order No:	Date:
Engineer:		ubmitted by:	Date:
		Approved by:	Date:
PUMP DESIGN DATA		DEPM MOTOR AND CO	ONTROL DATA
No. of pumps:	Tag:	:	1.5
Capacity:USgpm (L/s)	_	•	3000
Liquid:		:	
Temperature: °F (°C)		- :	□ 200-240V/1ph □ 380-480V/3ph
Suction: 2.5" (65 mm)		- :	For 200-240V/3ph or 575V/3ph, see File #: 101.5013
UL STD 778 & CSA STD C22.2 NO.1	o8 certified	Efficiency:	
Test report is supplied with each pump			□ L5 (default) □ L6
		•	☐ BACnet™ MS/TP ☐ BACnet™ TCP/IP
			☐ Modbus RTU
MATERIALS OF CONSTRUCTION		Control enclosure:	☐ Indoor – UL TYPE 12
☐ ANSI 125			☐ Outdoor – UL TYPE 12,
CONSTRUCTION: LPDESF	(= . = . a = . t = i = l = = f;tt = .		tested to TYPE 4X
E-coated ductile iron A536 Gr	65-45-12, Stainless fitted	:	
☐ ANSI 250		EMI/RFI control:	Integrated filter designed to meet
CONSTRUCTION: HPDESF		: Harmonic suppression:	EN61800-3 Equivalent: 5% AC line reactor - Sup-
E-coated ductile iron A536 Gr 120 - 90 - 2, stainless fitted		d : Harmonic suppression.	porting IEEE 519-1992 requirements**
		: Cooling:	Fan-cooled, surface cooling
MAXIMUM PUMP OPERATING CONDITIONS		•	-10°C to +40°C up to 1000 meters above
☐ ANSI 125			sea level (+14°F to +104°F, 3300 ft)
175 psig at 150°F (12 bar at 65°C)		Analog ı/o:	Two inputs, one output. Output can
100 psig at 300°F (7 bar at 150°C	<u></u>		be configured for voltage or current
☐ ANSI 250		Digital ı/o:	Two inputs, two outputs. Outputs can
375 psig at 150°F (26 bar at 65°C	<u>.</u>	Polay outpute	be configured as inputs Two programmable
260 psig at 300°F (21 bar at 150°C)		Communication port:	
MECHANICAL SEAL DESIGN DATA		of the system wide harmonics. If	ical details, Armstrong will run a computer simulation system harmonic levels are exceeded Armstrong can onic mitigation and the costs for such mitigation.
See file no. 43.50 for standard med	chanical seal details as	•	

FLOW READOUT ACCURACY

The Design Envelope model selected will provide flow reading on the controls local keypad & digitally for the BMS. The model readout will be factory tested to ensure $\pm 5\%$ accuracy.

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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 ft (m)

* 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 ft (m)

* 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 (zerohead) flow for energy savings
- Maximum flow control Limits flow rate to pre-set maximum for potential energy savings

Maximum flow rate gpm (L/s)

☐ 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	gpm (L/s
William How rate	gpiii (L/ .

□ DUAL SEASON SETUP



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

Cooling

Cooling		
Duty point	gpm (L/s) at	ft (m)
Minimum system	pressure to be maint	ained
-	_ ft (m)	
Heating		
Duty point	gpm (L/s) at	ft (m)
Minimum system	pressure to be maint	ained
	_ft (m)	

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)

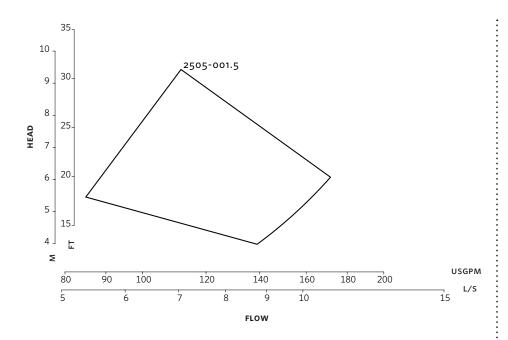
^{*}Only available if sensorless bundle is enabled

^{*}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 (UL TYPE 12/TEFC)	OUTDOOR (UL TYPE 12, TESTED TO TYPE 4X)
Size:	2.5×2.5×5	2.5×2.5×5
HP:	1.5	1.5
RPM:	3000	3000
Frame:	71	71
AB:	16.65 (423)	17.78 (452)
в:	4.73 (120)	4.73 (120)
c:	3.65 (93)	3.65 (93)
CI:	_	2.75 (70)
D:	7.16 (182)	7.16 (182)
E:	5.97 (152)	6.40 (162)
s:	8.16 (207)	8.16 (207)
SD:	15.32 (389)	15.32 (389)
T:	3.50 (89)	3.50 (89)
Weight:	70 (31.8)	70 (31.8)

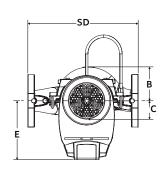
Dimensions - inch (mm) Weight - Ibs (kg)

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

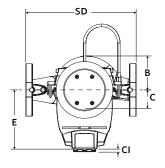
Performance curves are for reference only. Confirm current performance data with Ar

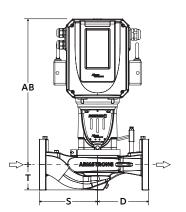
 $Confirm\ current\ performance\ data\ with\ Armstrong\ \textbf{ADEPT}\ \textbf{Quote}\ or\ \textbf{ADEPT}\ \textbf{Select}\ selection\ software.$

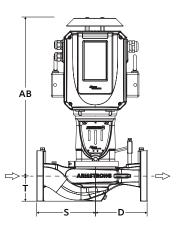
INDOOR



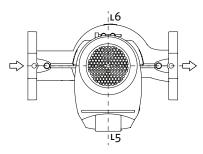








CONTROL ORIENTATIONS



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ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934