

DESIGN ENVELOPE 4372 TANGO

32-125 (1.25×1.25×3) 3212-00.75 SUBMITTAL

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Job: Ro		Representative:		
	Order N	lo:	Date:	
Engineer:	Submitt	ed by:	Date:	
Contractor:	Approv	ed by:	Date:	
PUMP DESIGN DATA		: DEPM MOTOR AND C	ONTROL DATA	
No. of pumps: Tag:			0.75	
Total system design flow:L/s		•	3600	
		Motor enclosure:	-	
Head: m (ft) Capacity split				
Flow per pump head:L/s		Phase:		
Parallel flow:L/s	(USgpm)	Efficiency:	IE5	
Liquid: Viscosity:		Orientation:	Standard	
Temperature: °C (°F) Specific gravity:		Protocol (standard):	☐ BACnet™ Ms/TP	
Suction: 32 mm (1.25") Discharge: 32 mm ((1.25")		☐ BACnet™ TCP/IP ☐ Modbus RTU	
MEI ≥ 0.70		Control enclosure:	☐ Indoor - IP 55☐ Outdoor - IP 66	
MATERIALS OF CONSTRUCTION		Fused disconnect switch:	Consult factory	
□ PN 16		EMI/RFI control:	Integrated filter designed to meet	
CONSTRUCTION: LPDESF			EN61800-3	
E-coated ductile iron A536 Gr 65-45-12, stainl PN 25	ess fitted	Harmonic suppression:	Equivalent: 5% AC line reactor - Supporting IEEE 519-1992	
CONSTRUCTION: HPDESF		Coolings	requirements**	
E-coated ductile iron A536 Gr 120 - 90 - 2, stain	less fitted	•	Fan-cooled, surface cooling -10°C to +45°C up to 1000 meters	
MAXIMUM PUMP OPERATING CONDITION	NS	Ambient temperature.	above sea level (+14°F to +113°F,	
 □ PN 16 16 bars at 49°C (232 psig at 120°F) 7 bars at 150°C (100 psig at 300°F) □ PN 25 		Analog ı/o:	3300 ft) Two inputs, one output. Output can be configured for voltage	
25 bars at 65°c (362 psig at 149°F) 21 bars at 150°c (304 psig at 300°F)		Digital ı/o:	or current Two inputs, two outputs. Outputs can be configured as inputs	
FLOW DEADOUT ACCURACY		Relay outputs:	Two programmable	
FLOW READOUT ACCURACY		Communication port:	1-RS485	
The Design Envelope model selected will provide flow on the controls local keypad & digitally for the BMS. T		* * If supplied with the system elec-	trical details. Armstrong will run a computer	

MECHANICAL SEAL DESIGN DATA

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

Seal type: 2A Stationary seat: Silicone carbide Secondary seal: EPDM Spring: Stainless steel Rotating hardware: Stainless steel

simulation of the system wide harmonics. If system harmonic levels are

and the costs for such mitigation.

exceeded Armstrong can also recommend additional harmonic mitigation

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 93°C / 200°F	over 93°C / 200°F	up to 93°c / 200°F	over 93°C / 200°F	up to 93°C / 200°F	over 93°C / 200°F
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (0-ring)
Material code	SCSC L EPSS 2A	SCsc o epss 2A	C-SC L EPSS 2A	ACsc o epss 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

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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)
Minimum system pre m (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)

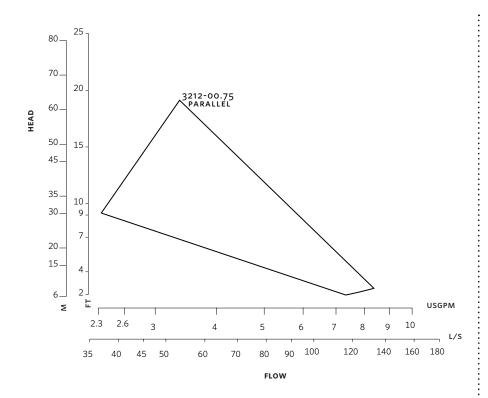
^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

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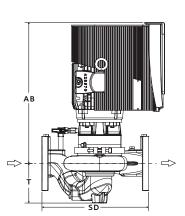


Performance curves are for reference only.

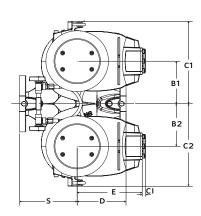
Confirm current performance data with Armstrong ADEPT Quote or ADEPT Select selection software.

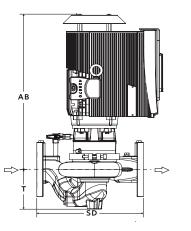
INDOOR

B1 B2 C2



OUTDOOR





DIMENSION DATA

INDOOR		OUTDOOR		
	(IP55/TEFC)	(IP66/TEFC)		
Size:	32-125	32-125		
kW:	0.75	0.75		
RPM:	3600	3600		
Frame:	90S	905		
AB:	467 (18.40)	523 (20.59)		
В1:	148 (5.83)	148 (5.83)		
B2:	148 (5.83)	148 (5.83)		
C1:	279 (11.00)	279 (11.00)		
C2:	279 (11.00)	279 (11.00)		
CI:	_	127 (5.00)		
D:	102 (4.00)	102 (4.00)		
E:	208 (8.20)	219 (8.62)		
s:	178 (7.02)	178 (7.02)		
SD:	280 (11.02)	280 (11.02)		
T:	89 (3.50)	89 (3.50)		
Weight:	49.0 (108)	49.0 (108)		

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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