

DESIGN ENVELOPE 4372 TANGO

32-125 (1.25×1.25×3) 3212-00.55 SUBMITTAL

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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

Job: [Representative:		
	Order N	lo:	Date:	
Engineer: Subn Contractor: Appr		ted by:		
		ed by:		
PUMP DESIGN DATA		: DEPM MOTOR AND C	ONTROL DATA	
No. of pumps: Tag:			0.75*	
Total system design flow:L		•	3600	
		Motor enclosure:		
Head: m (ft) Capacity split		•		
Flow per pump head:L		Phase:		
Parallel flow:L		Efficiency:	IE5	
Liquid: Viscosity:		Orientation:	Standard	
Temperature: °C (°F) Specific gravity: _		Protocol (standard):	☐ BACnet™ MS/TP	
Suction: 32 mm (1.25") Discharge: 32 mr	m (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		ЕМІ/RFI control:	Integrated filter designed to meet	
CONSTRUCTION: LPDESF		•	EN61800-3	
E-coated ductile iron A536 Gr 65-45-12, sta ☐ PN 25	inless fitted	Harmonic suppression:	Equivalent: 5% AC line reactor - Supporting IEEE 519-1992 requirements**	
CONSTRUCTION: HPDESF	dalaa ee Curaal	Cooling:	Fan-cooled, surface cooling	
E-coated ductile iron A536 Gr 120-90-2, sta	iiniess tittea	•	-10°C to +45°C up to 1000 meters	
MAXIMUM PUMP OPERATING CONDITI	ONS		above sea level (+14°F to +113°F,	
□ PN 16		•	3300 ft)	
16 bars at 49°C (232 psig at 120°F)		Analog ı/o:	Two inputs, one output. Output	
7 bars at 150°C (100 psig at 300°F) PN 25		•	can be configured for voltage	
25 bars at 65°C (362 psig at 149°F)		•	or current	
21 bars at 150°c (304 psig at 300°F)		Digital ı/o:	Two inputs, two outputs. Outputs	
		Dalamana d	can be configured as inputs	
FLOW READOUT ACCURACY		•	Two programmable	
The Design Envelope model selected will provide fl	ow reading	Communication port: * Maximum power draw = 0.55 kW	· -	
on the controls local keypad & digitally for the BMS		** If supplied with the system electrical details, Armstrong will run a computer		

MECHANICAL SEAL DESIGN DATA

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

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

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 bond	led carbon
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-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)
* .	essure to be maintained
m ((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)

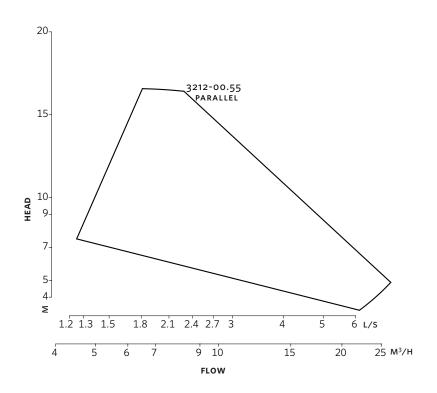
^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

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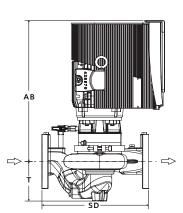


Performance curves are for reference only.

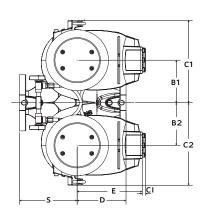
Confirm current performance data with Armstrong ADEPT Quote or ADEPT Select selection software.

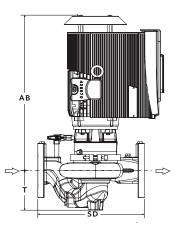
INDOOR

B1 B2 C2



OUTDOOR





DIMENSION DATA

	INDOOR	OUTDOOR	
	(IP55/TEFC)	(IP66/TEFC)	
Size:	32-125	32-125	
kW:	0.55	0.55	
RPM:	3600	3600	
Frame:	90S	90S	
AB:	467 (18.40)	523 (20.59)	
B1:	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:	47.0 (104)	47.0 (104)	

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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