

SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 3 × 3 × 13 | SUBMITTAL

File No: 43-742
Date: NOV. 26, 2014
Supersedes: 43-742
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 3" (75mm) Discharge: 3" (75mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

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

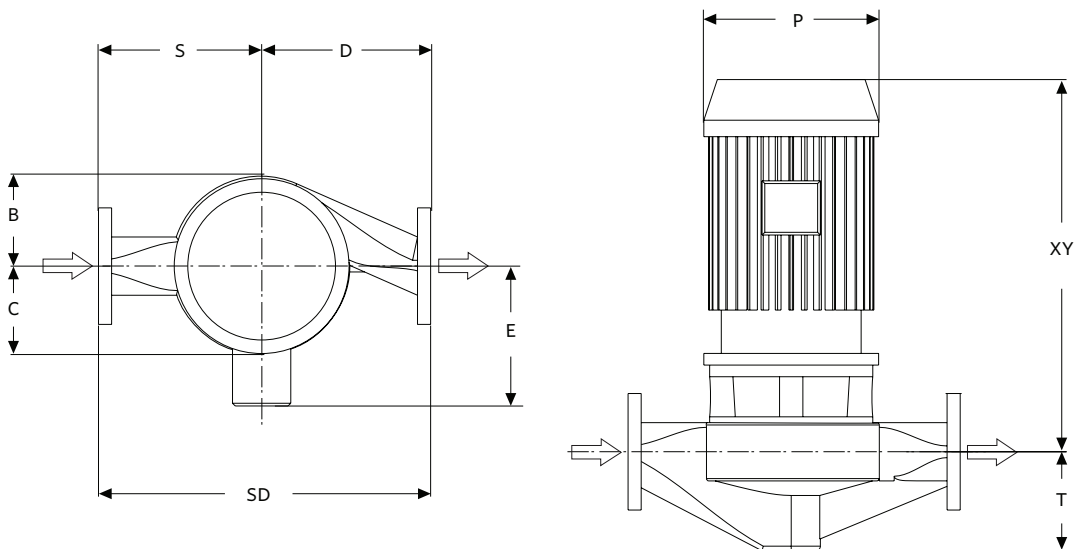
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-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

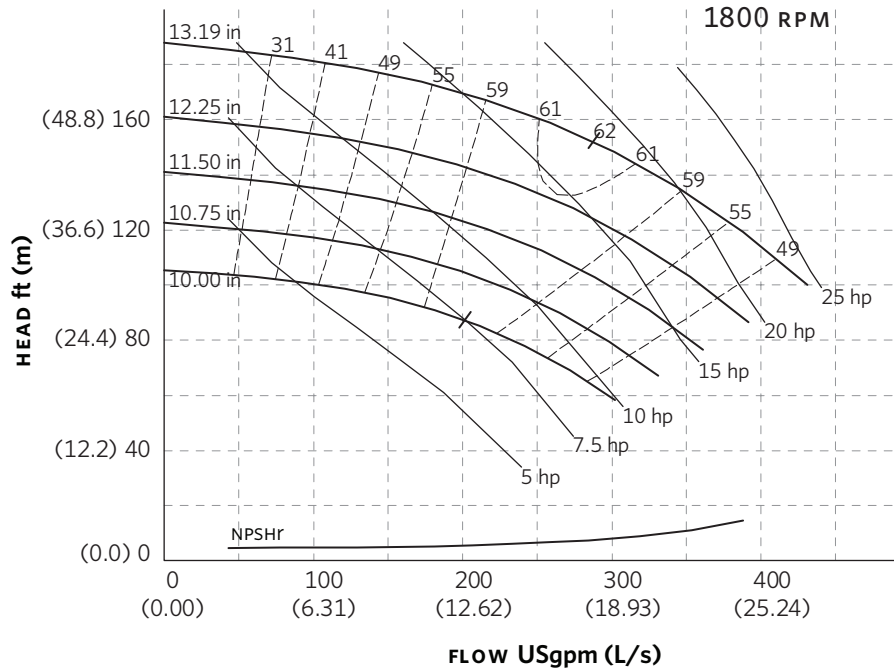
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
213	—	3	8.25 (210)	12.13 (308)	26.86 (682)	352 (159.7)	416 (188.7)
215	—	5	8.25 (210)	12.13 (308)	26.86 (682)	381 (172.8)	447 (202.8)
254	—	7.5	9.94 (252)	12.13 (308)	24.86 (631)	363 (164.7)	562 (254.9)
256	20	—	9.94 (252)	12.13 (308)	24.86 (631)	595 (269.9)	591 (268.1)
284	25	—	10.81 (275)	11.50 (292)	30.60 (777)	654 (296.6)	700 (317.5)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
3.00	3.00	8.82	8.02	12.00	13.50	25.50	6.63
(76)	(76)	(224)	(204)	(305)	(343)	(648)	(168)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT69-1-0-1800

Series
4300
4380

Size
3 × 3 × 13

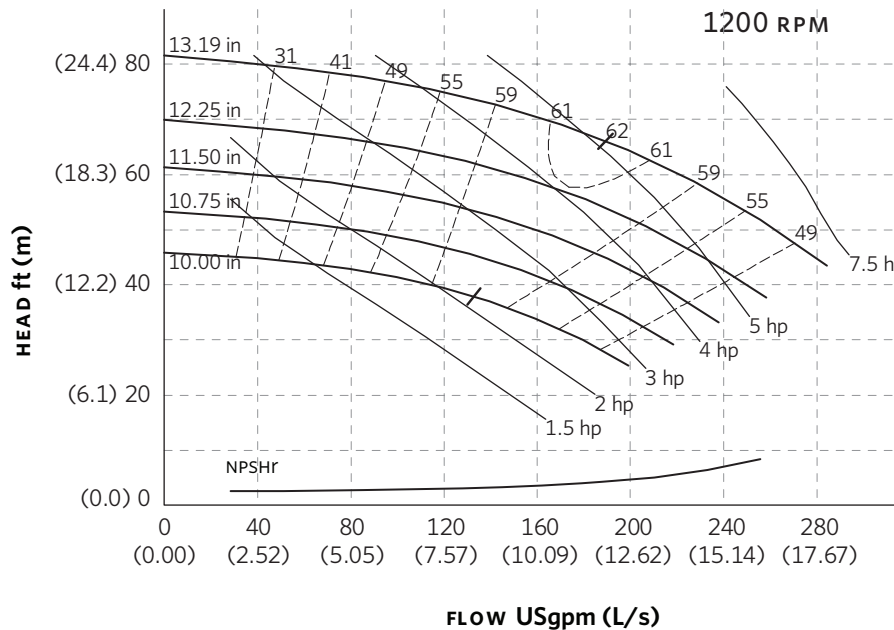
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000



Curve number
PT69-1-0-1200

Series
4300
4380

Size
3 × 3 × 13

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 FR 213 MIN.

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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