ARMSTRONG

SERIES 4380 | VERTICAL IN-LINE PUMPS
CLOSED-COUPLED | 6 × 6 × 13H | SUBMITTAL

File No: 43.747
Date: NOV. 26, 2014
Supersedes: 43.747
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: 6"(150mm) Discharge: 6"(150mm)

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	☐ BF	☐ 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
Secondary seal: EPDM
Spring: Stainless steel
Stationary seat: Silicone carbide
Rotating hardware: Stainless steel

OPTIONAL EQUIPMENT

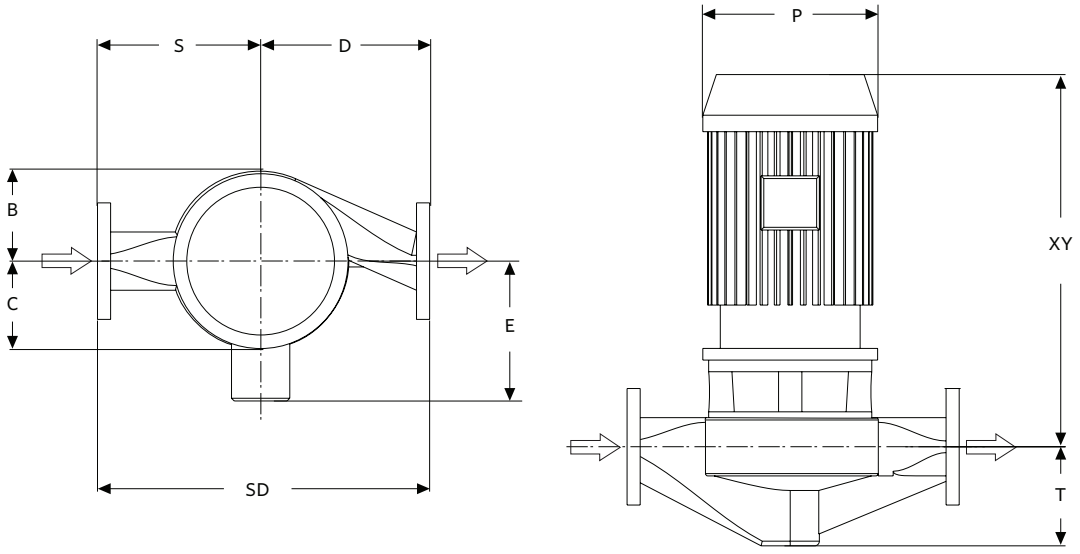
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			ASSEMBLY WEIGHT* lbs (kgs)	
FRAME	1800	1200	E	P	XY	ODP	TEFC
256	—	10	9.94 (252)	14.19 (360)	28.28 (718)	590 (267.6)	628 (284.9)
284	—	15	10.81 (275)	13.38 (340)	33.90 (861)	717 (325.2)	732 (332.0)
286	30	20	10.81 (275)	13.38 (340)	33.90 (861)	772 (350.2)	790 (358.3)
324	40	25	10.81 (275)	14.19 (360)	35.90 (912)	863 (391.5)	848 (384.6)
326	50	—	10.81 (275)	14.19 (360)	35.90 (912)	929 (421.4)	892 (404.6)

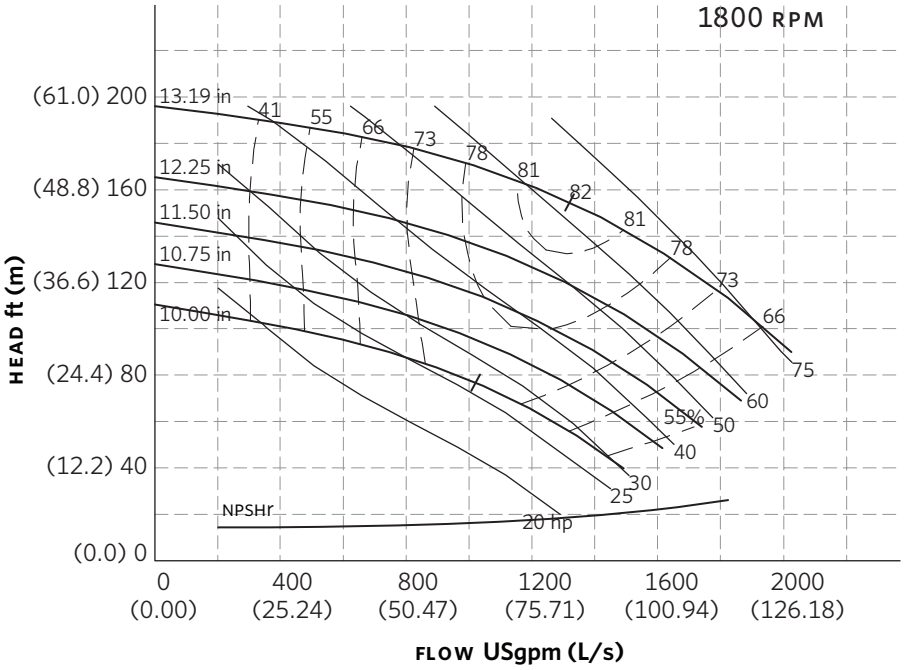
PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
12.60	10.03	17.00	19.00	36.00	10.25
(320)	(255)	(432)	(483)	(914)	(260)

*Assembly weight combines pump and motor.



SERIES 4380 PERFORMANCE CURVES



Curve number
PT596-0-0-1800

Series
4300
4380

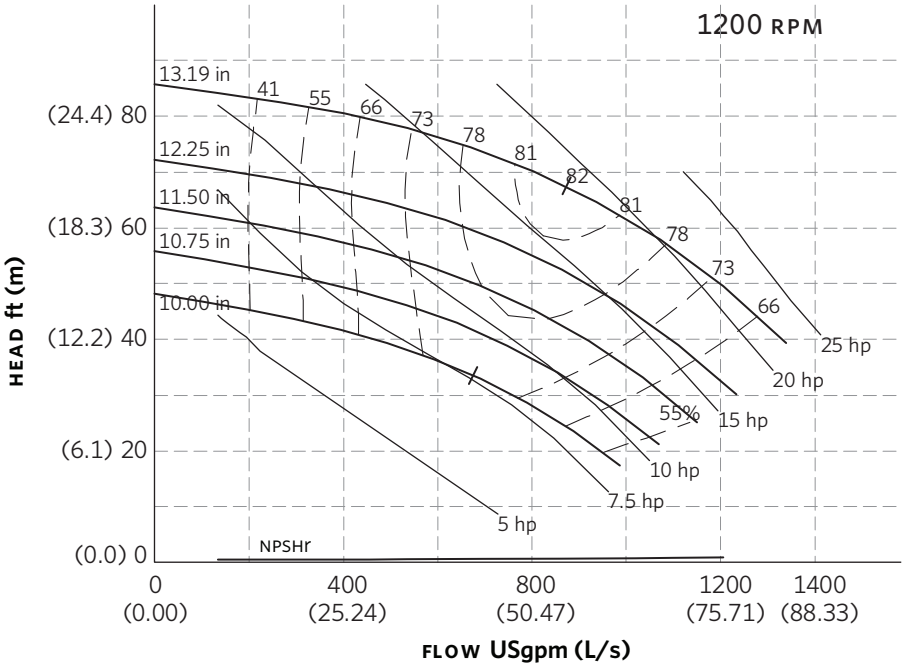
Size
6 × 6 × 13H

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
PT596-0-0-1170

Series
4300
4380

Size
6 × 6 × 13H

RPM
1200

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

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

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