

SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 6 × 6 × 10 | SUBMITTAL

File No: 43-730
Date: NOV. 26, 2014
Supersedes: 43-730
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	<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	
	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

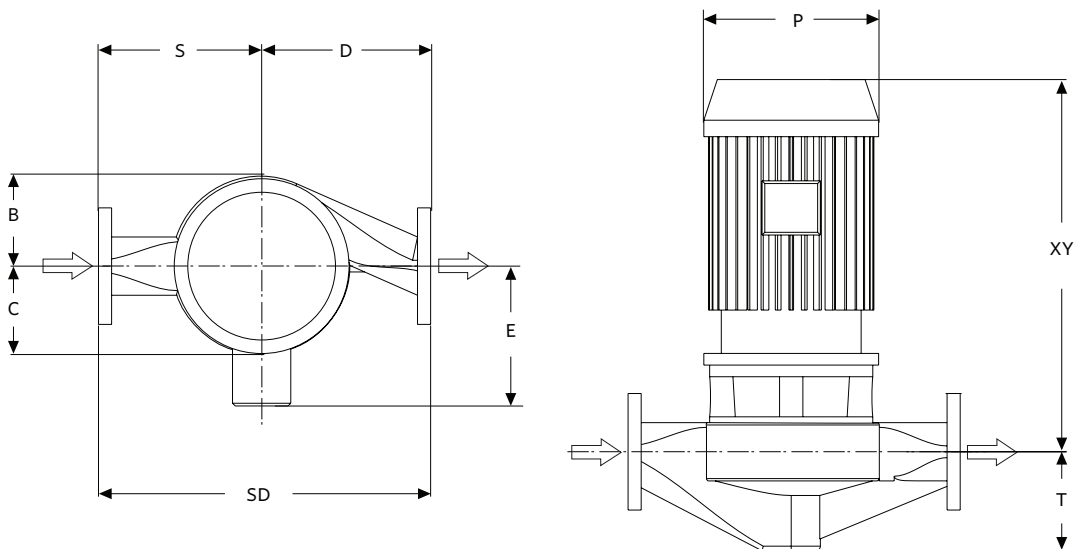
2

MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
182	—	1.5	7.50 (191)	10.38 (264)	19.39 (493)	394 (178.7)	431 (195.5)
184	5	2	7.50 (191)	10.38 (264)	19.39 (493)	411 (186.4)	447 (202.8)
213	7.5	3	8.25 (210)	12.13 (308)	25.58 (650)	429 (194.6)	505 (229.1)
215	10	5	8.25 (210)	12.13 (308)	25.58 (650)	451 (204.6)	523 (237.2)
254	15	7.5	9.94 (252)	12.13 (308)	24.95 (634)	626 (283.9)	623 (282.6)
256	20	—	9.94 (252)	12.13 (308)	24.95 (634)	667 (302.5)	663 (300.7)
284	25	—	10.81 (275)	11.50 (292)	30.71 (780)	731 (331.6)	777 (352.4)

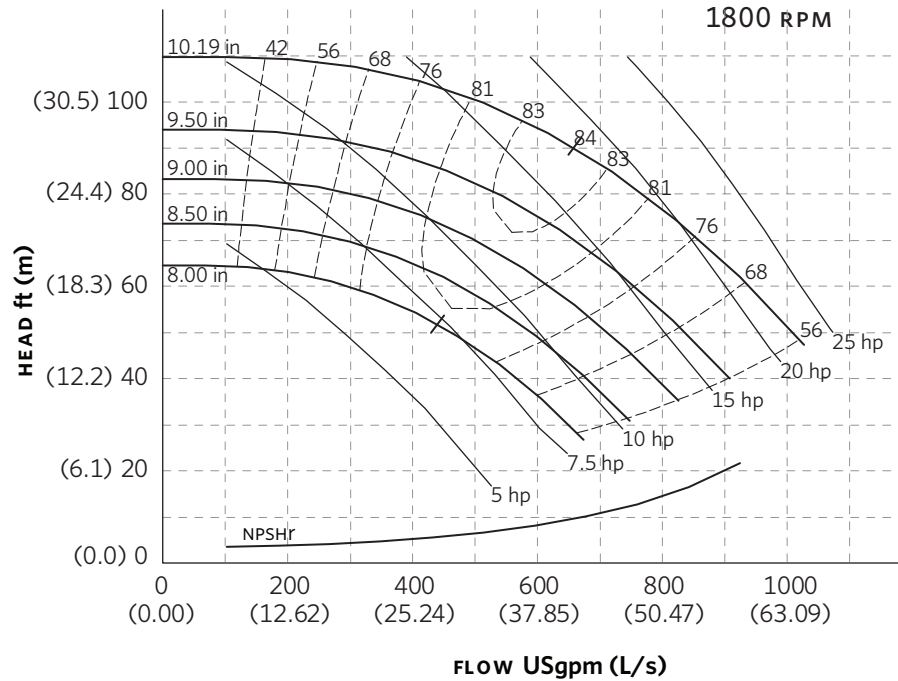
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
6.00	6.00	9.34	7.59	15.00	17.00	32.00	8.75
(152)	(152)	(237)	(193)	(381)	(432)	(813)	(222)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT104-1-0-1800

Series
4300
4380

Size
6 × 6 × 10

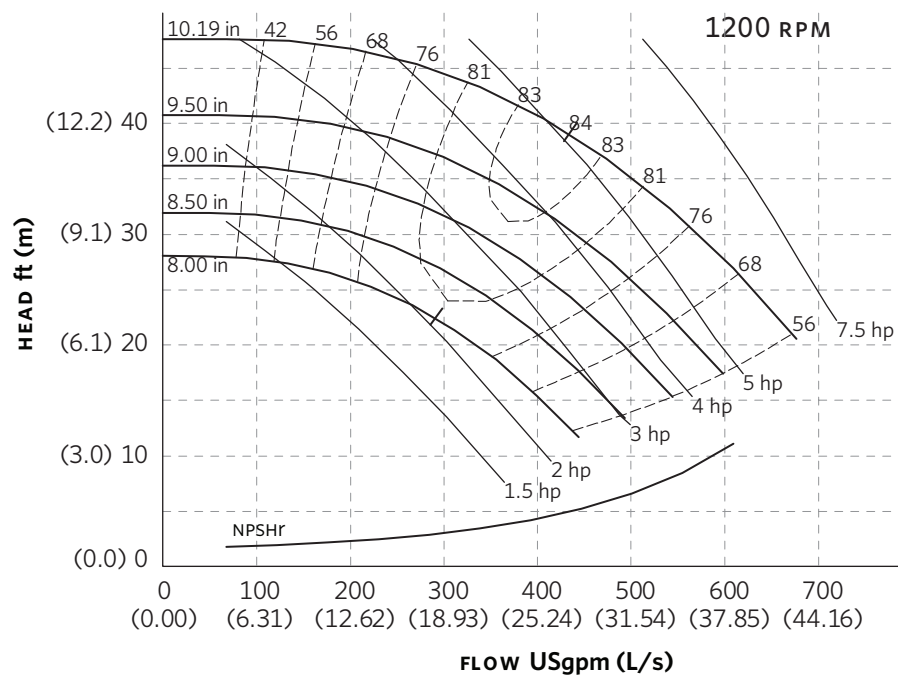
RPM
1800

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
PT104-1-0-1200

Series
4300
4380

Size
6 × 6 × 10

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.

TORONTO

23 BERTRAND AVENUE
TORONTO, ONTARIO
CANADA
M1L 2P3
+1 416 755 2291

BUFFALO

93 EAST AVENUE
NORTH TONAWANDA, NEW YORK
U.S.A.
14120-6594
+1 716 693 8813

BIRMINGHAM

HEYWOOD WHARF, MUCKLOW HILL
HALESOWEN, WEST MIDLANDS
UNITED KINGDOM
B62 8DJ
+44 (0) 8444 145 145

MANCHESTER

WOLVERTON STREET
MANCHESTER
UNITED KINGDOM
M11 2ET
+44 (0) 8444 145 145

BANGALORE

#59, FIRST FLOOR, 3RD MAIN
MARGOSA ROAD, MALLESWARAM
BANGALORE, INDIA
560 003
+91 (0) 80 4906 3555

SHANGHAI

NO. 1619 HU HANG ROAD, XI DU TOWNSHIP
FENG XIAN DISTRICT, SHANGHAI
P.R.C.
201401
+86 21 3756 6696

ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM

**MAKING
ENERGY
MAKE
SENSE™**