

SERIES 4300 | VERTICAL IN-LINE

1.5×1.5×8 | SUBMITTAL

File No: 43.509
 Date: NOV. 26, 2014
 Supersedes: 43.509
 Date: APRIL 14, 2014

Job: _____ Representative: _____
 _____ Ordered by: _____ 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: 1.5" (38 MM) Discharge: 1.5" (38 MM)

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 140°F (12 bars at 60°C)
 100 psig at 300°F (7 bars at 149°C)

ANSI 250

375 psig at 100°F (26 bars at 38°C)
 275 psig at 300°F (19 bars at 149°C)

- See file no. 43.50 for maximum seal operating conditions.
- Coupling guard (not shown) is supplied.
- Tolerance of ±0.125" (±3 mm) should be used
- For exact installation data please write factory for certified dimensions.
- See performance curves on page 3
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports.

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125			ANSI 250	
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
Casing	Cast iron	Cast iron	Bronze	Ductile iron	Ductile iron
Impeller	Bronze	Cast iron	Bronze	Bronze	Cast iron

Flush line: Braided stainless steel

Pump shaft: 416 stainless steel

Coupling: High tensile aluminum

Gasket: Confined fiber

MOTOR DESIGN DATA

HP: _____ RPM: _____
 Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz
 Efficiency: NEMA premium 12.12 Other: _____ %
 Flange size: _____ Phase: _____

MECHANICAL SEAL DESIGN DATA

See file number 43.50 for standard mechanical seal details as indicated below

ARMSTRONG SEAL REFERENCE NUMBER:

c1 (a) Others: _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT

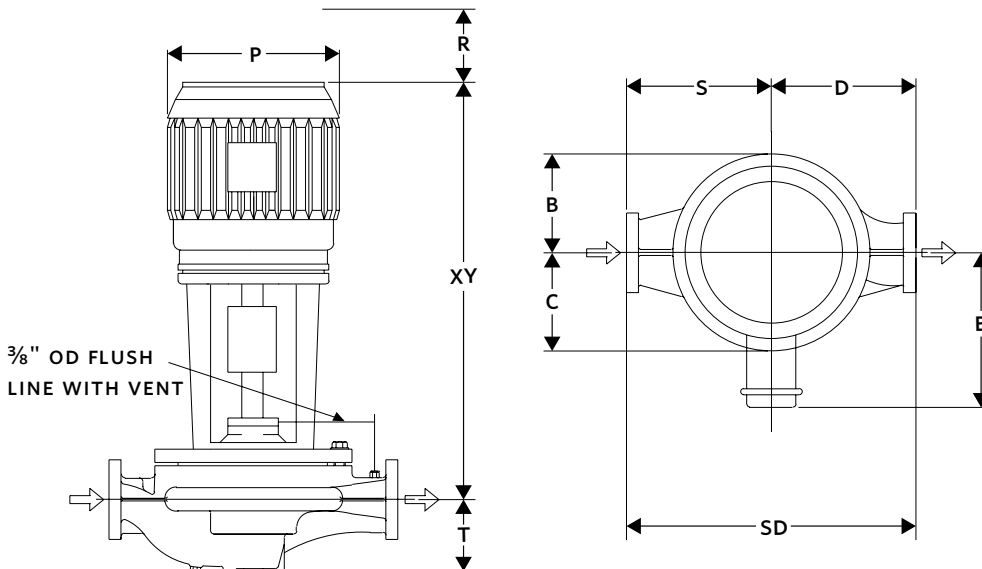
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	3600	1800	3600	1800	E	P	R	XY	ODP	TEFC
143TC	—	1	—	1	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	177 (80.3)	184 (83.5)
145TC	3	1.5 & 2	—	1.5 & 2	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	189 (85.7)	182 (82.6)
182TC	5	—	3	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	187 (84.8)	229 (103.9)
184TC	7.5	—	5	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	199 (90.3)	244 (110.7)
213TC	10	—	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	265 (120.2)	264 (119.7)
215TC	15	—	10	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	270 (122.5)	303 (137.4)
254TC	—	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	—	410 (186.0)

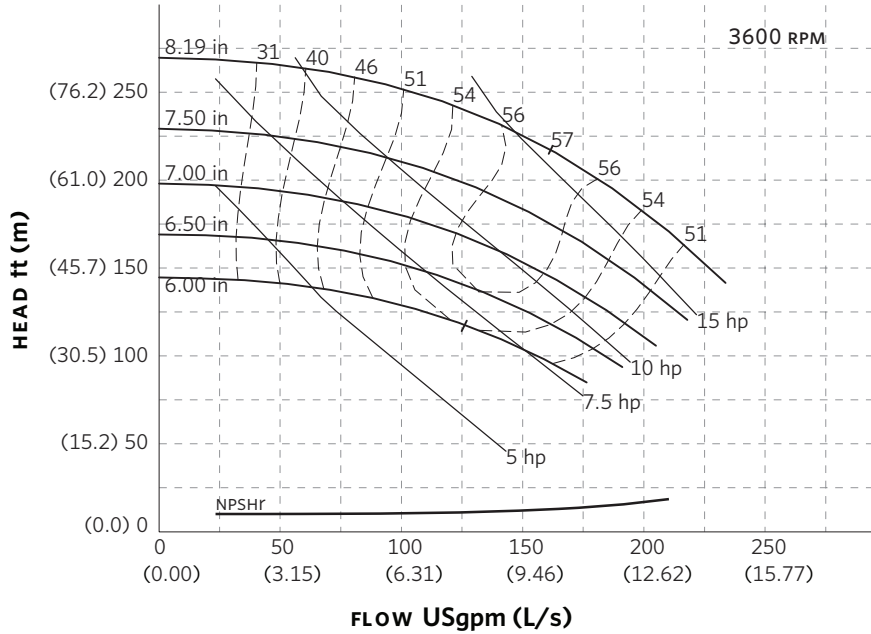
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
5.80 (147)	5.80 (147)	8.00 (203)	8.00 (203)	16.00 (406)	4.80 (122)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT15-2-0-3600

Series
4300
4380

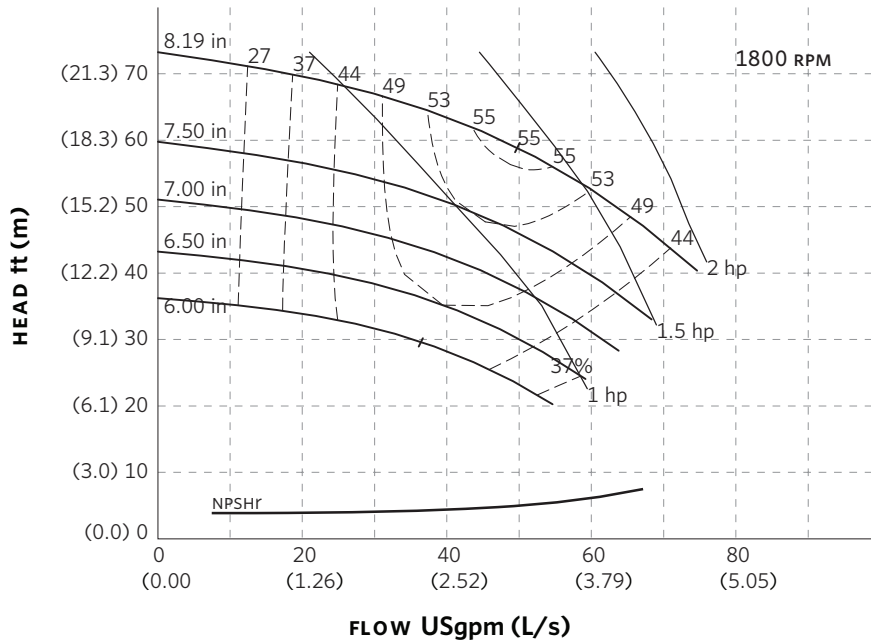
Size
1.5 x 1.5 x 8

RPM
3600

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. 1.000



Curve number
PT14-1-0-1800

Series
4300
4380

Size
1.5 x 1.5 x 8

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 FR 143 Mins.
4380 all ratings
Performance
guaranteed only
at operating point
indicated

Curve shown for
clear, cold water
- SP. GR. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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