ARMSTRONG

SERIES 4380 | VERTICAL IN-LINE PUMPS
CLOSED-COUPLED | 5 × 5 × 8 | SUBMITTAL

File No: 43.718
Date: NOV. 26, 2014
Supersedes: 43.718
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: 5"(125mm) Discharge: 5"(125mm)

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

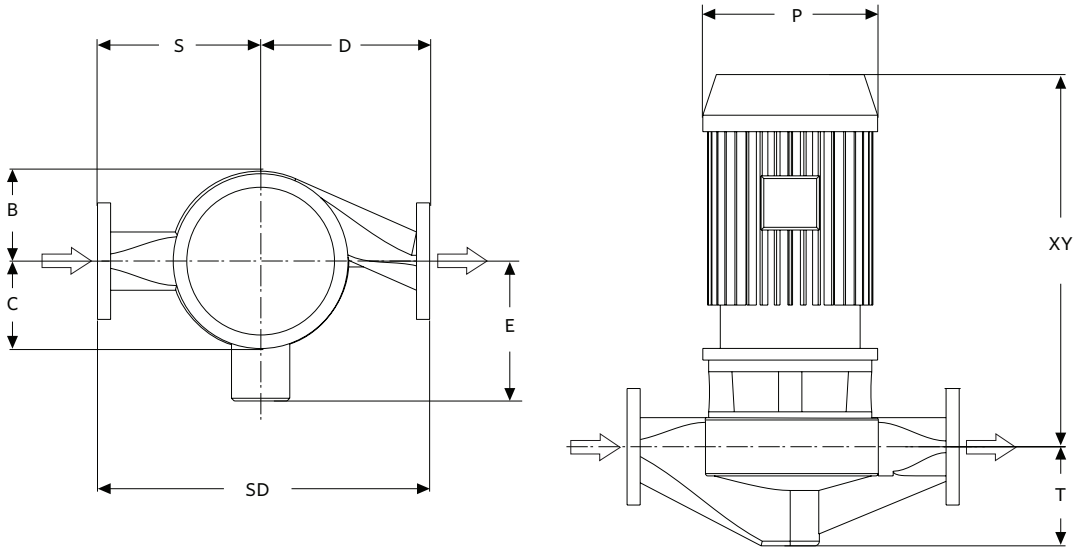
OPTIONAL EQUIPMENT

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

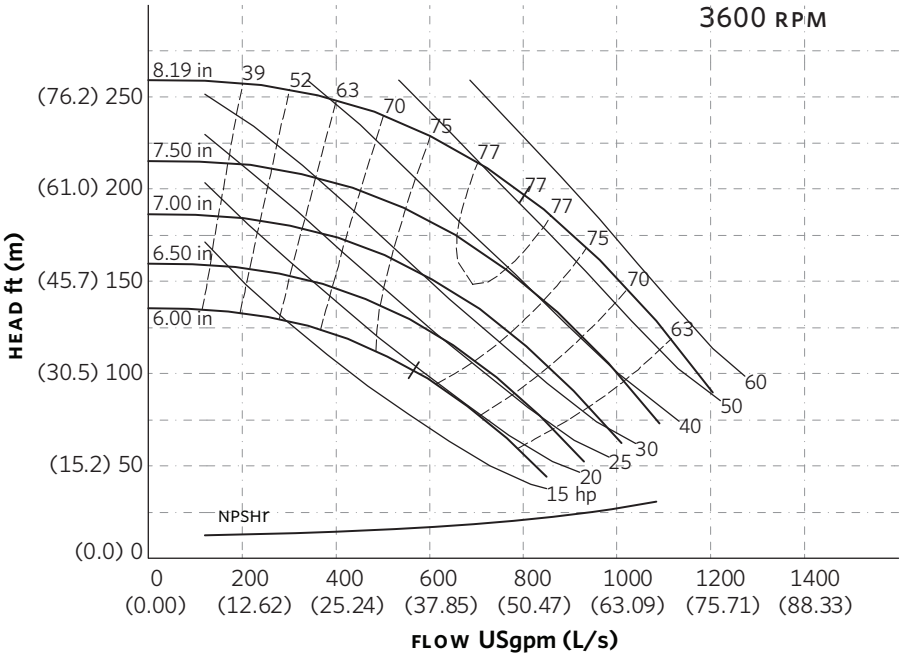
MOTOR	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
FRAME	1800	1200	E	P	XY	ODP	TEFC
143	0.75	1.5	6.13 (156)	8.63 (219)	17.19 (437)	267 (121.1)	240 (108.9)
145	1	2	6.13 (156)	8.63 (219)	17.19 (437)	280 (127.0)	283 (128.4)
182	3	—	7.50 (191)	10.38 (264)	19.83 (504)	290 (131.5)	334 (151.5)
184	5	—	7.50 (191)	10.38 (264)	19.83 (504)	305 (138.3)	341 (154.7)
213	7.5	—	8.25 (210)	12.13 (308)	25.41 (645)	337 (152.9)	413 (187.3)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
5.00	5.00	7.45	6.31	12.00	13.00	25.00	7.94
(127)	(127)	(189)	(160)	(305)	(330)	(635)	(202)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT95-1-0-3600

Series
4300
4380

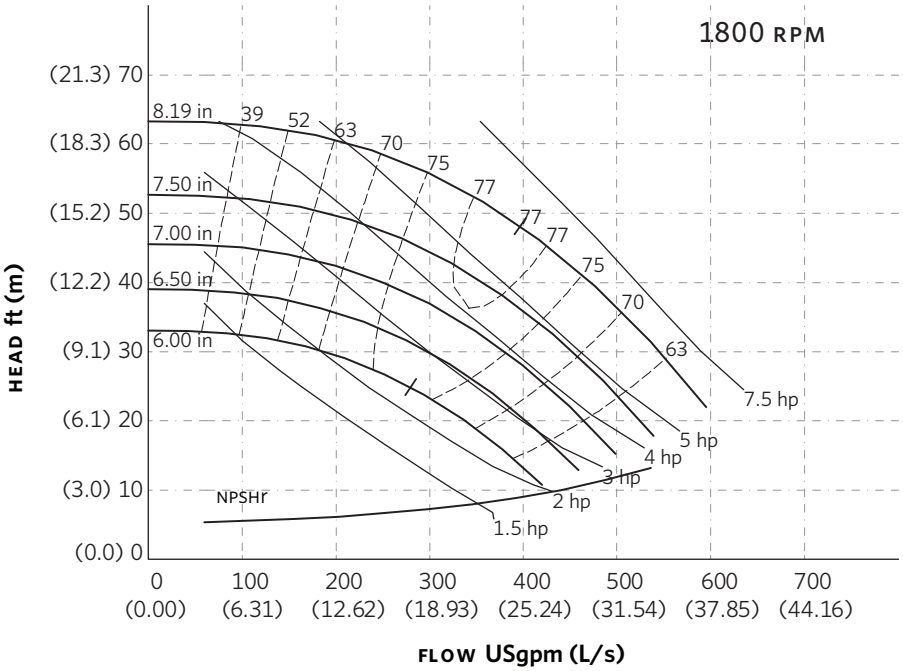
Size
5 × 5 × 8

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. 1.0000



Curve number
PT95-1-0-1800

Series
4300
4380

Size
5 × 5 × 8

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

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

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