

Series 4300 Vertical In-Line **1.5 x 1.5 x 6** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA	
HP:	RPM:
FRAME SIZE:	ENCLOSURE:
VOLTS:	HERTZ: 50 Hz PHASE:
EFFICIENCY: <input type="checkbox"/> ENERGY EFFICIENT 12.11 <input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 38 mm (1.5") DISCHARGE: 38 mm (1.5")

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				

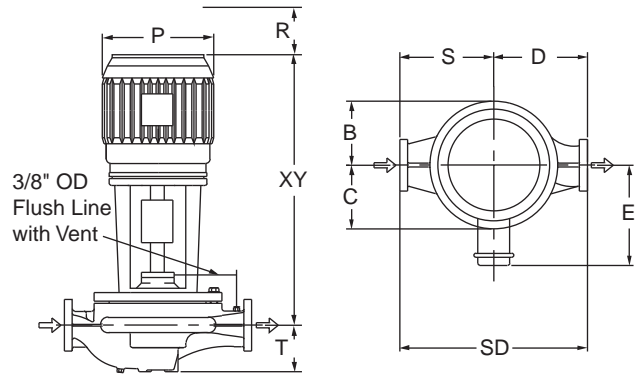
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

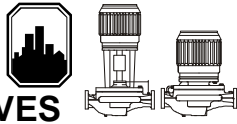


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
115 (4.53)	115 (4.53)	184 (7.25)	178 (7.00)	362 (14.25)	108 (4.25)	

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	559 (22.00)	68.1 (150)	68.1 (150)
2 & 3	---	2	---	145TC	155 (6.09)	219 (8.63)	80 (3.00)	559 (22.00)	68.1 (150)	68.1 (150)
---	---	3	---	182TC	191 (7.50)	264 (10.38)	90 (4.00)	673 (26.51)	---	79.5 (175)

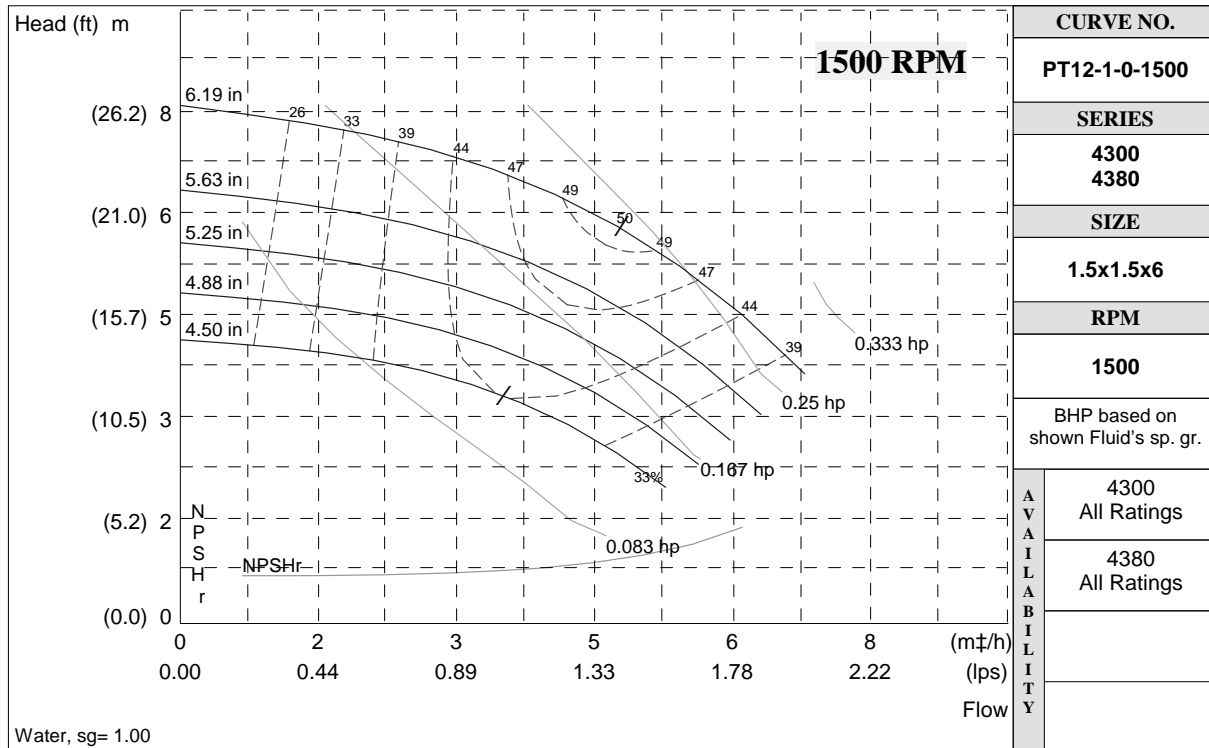
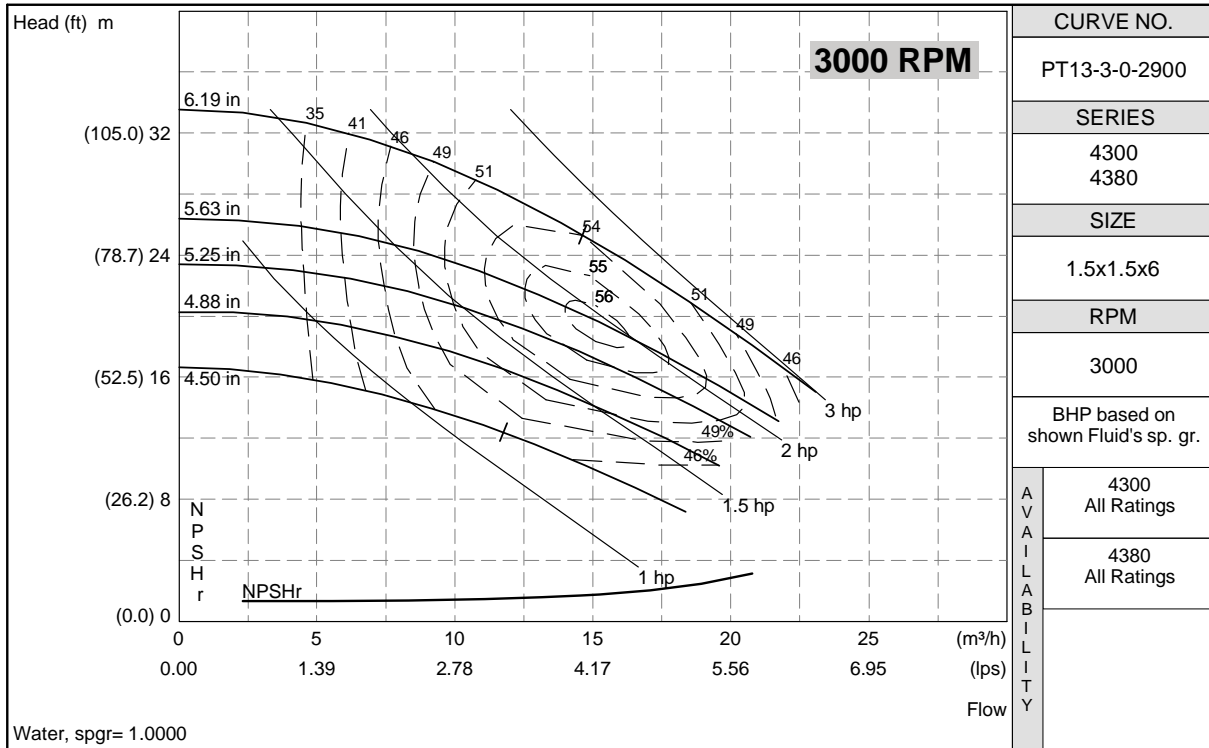
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

1.5×1.5×6 | SUBMITTAL

File No: 43.501
 Date: NOV. 26, 2014
 Supersedes: 43.507
 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

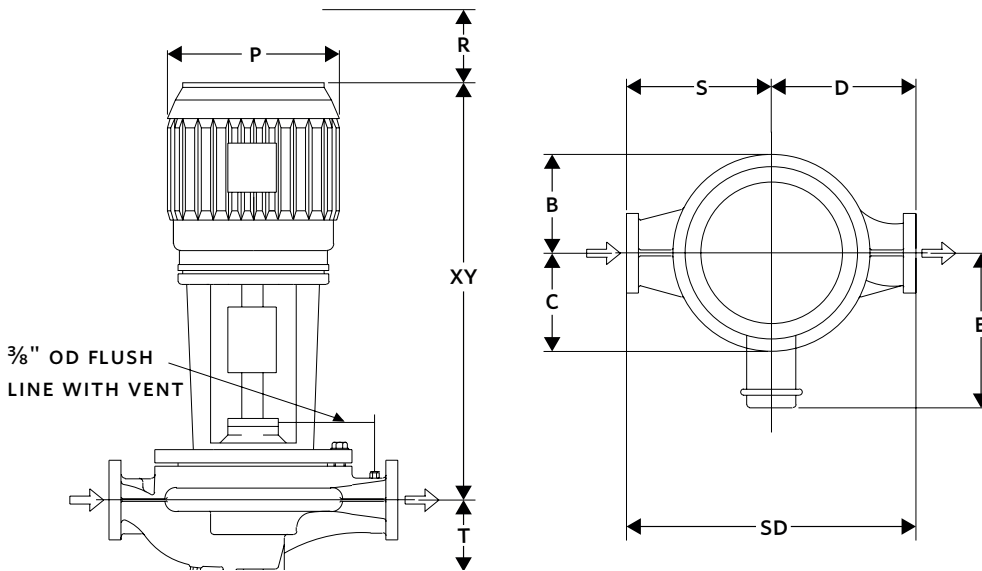
See file no. 43.50 for environmental accessories

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)	22.00 (559)	162 (73.5)	169 (76.7)
145TC	2 & 3	—	2	—	6.09 (155)	8.63 (219)	3.00 (80)	22.00 (559)	158 (71.7)	167 (75.7)
182TC	5	—	3	—	7.50 (191)	10.38 (264)	4.00 (90)	26.51 (673)	172 (78.0)	214 (97.1)
184TC	—	—	5	—	7.50 (191)	10.38 (264)	4.00 (90)	26.51 (673)	—	229 (103.9)

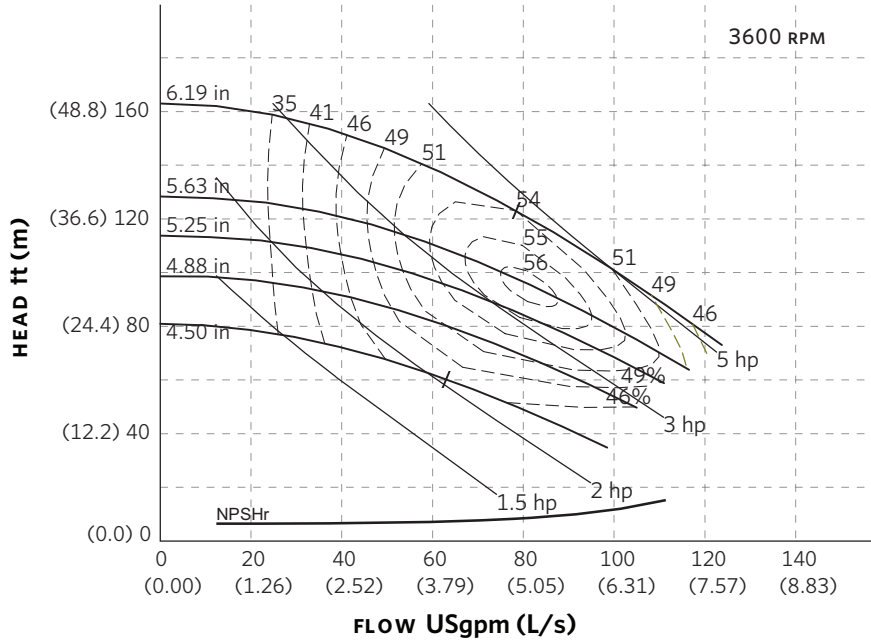
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
4.53 (115)	4.53 (115)	7.25 (184)	7.00 (178)	14.25 (362)	4.25 (108)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT13-3-0-3600

Series
4300
4380

Size
1.5 × 1.5 × 6

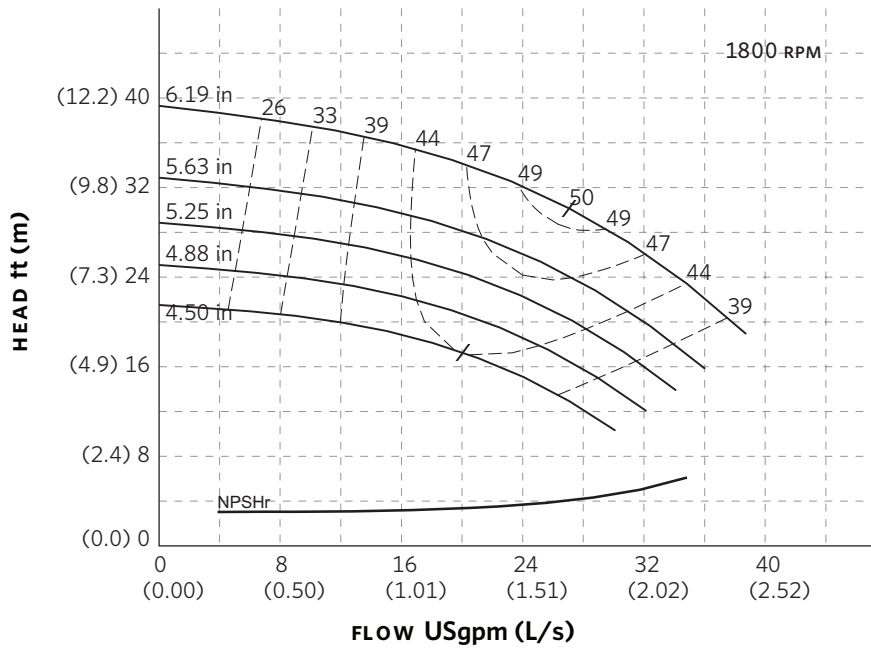
RPM
3600

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
PT12-1-0-1800

Series
4300
4380

Size
1.5 × 1.5 × 6

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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**MAKING
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SENSE™**

Series 4300 Vertical In-Line **1.5 x 1.5 x 8** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

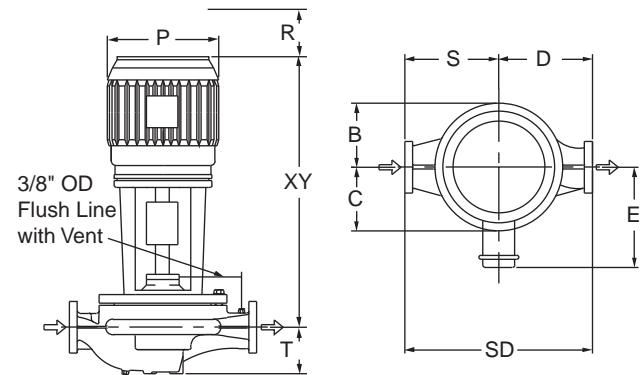
MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 38 mm (1.5")	DISCHARGE: 38 mm (1.5")	

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				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES



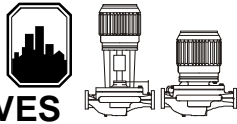
MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

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

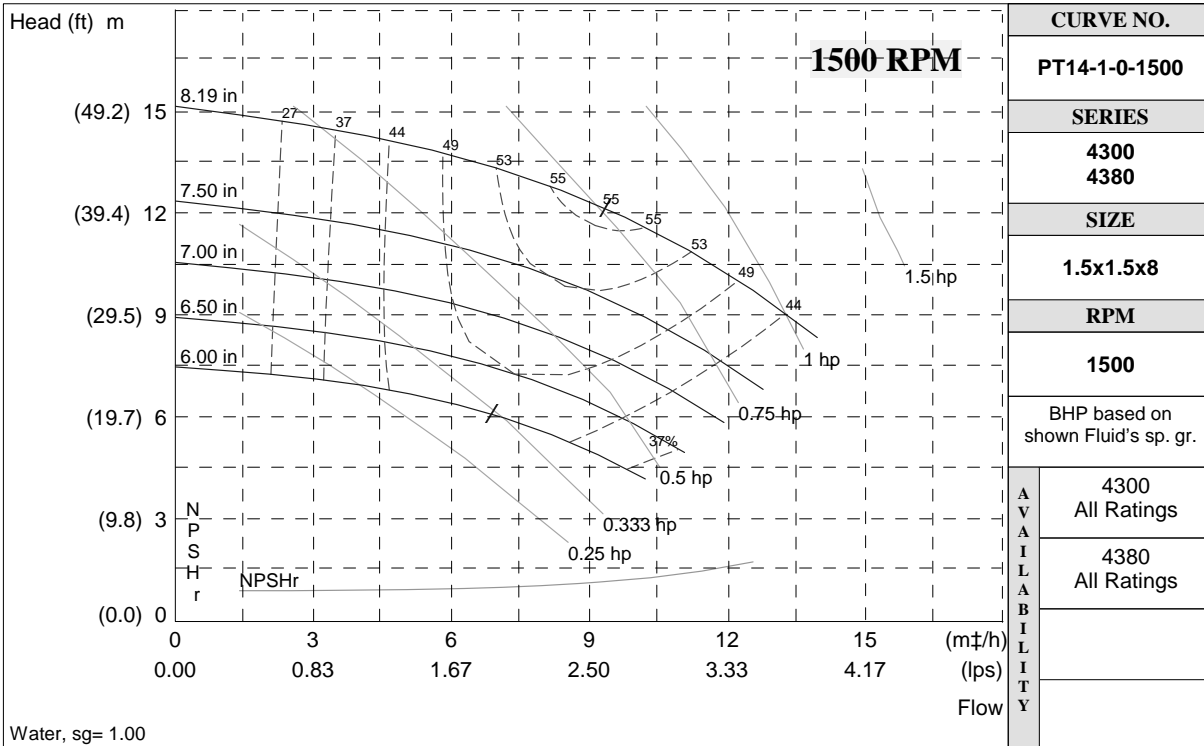
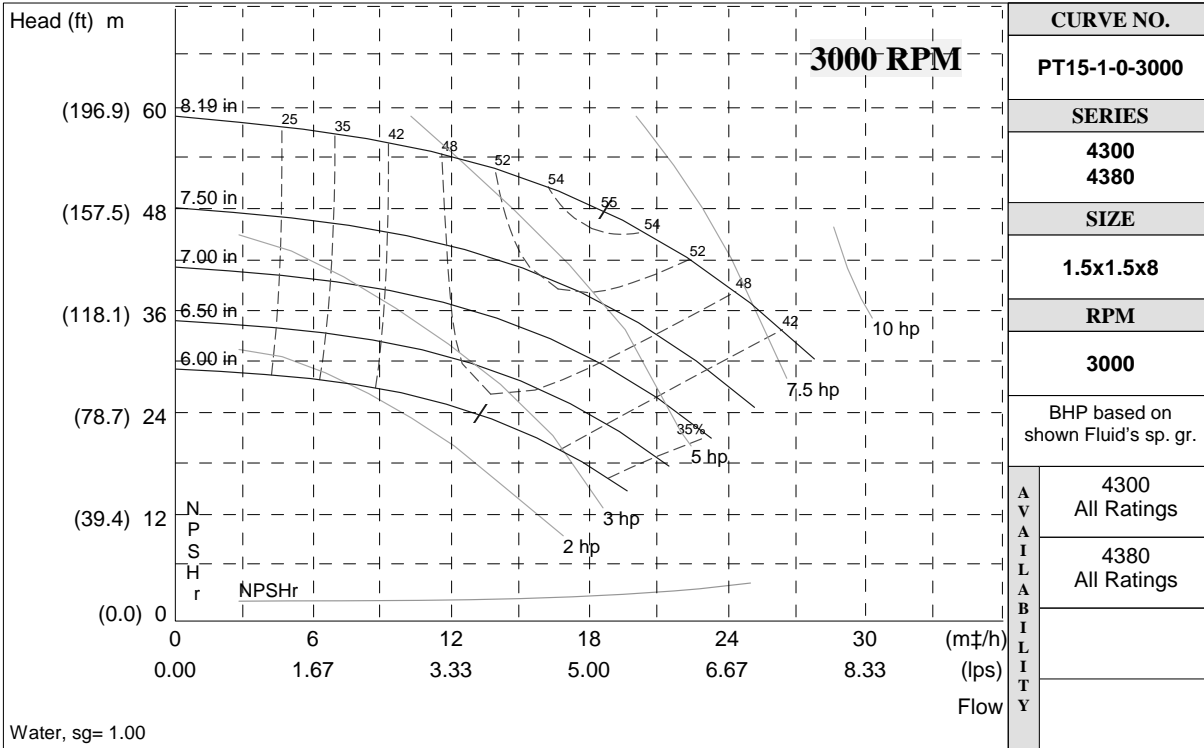
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)					ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	74.9 (165)	74.9 (165)
3	---	---	---	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	74.9 (165)	74.9 (165)
5	---	3 & 5	---	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	81.7 (180)	86.3 (190)
7.5	---	5	---	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	86.3 (190)	90.8 (200)
---	---	7.5	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	---	106.7 (235)
10	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	99.9 (220)	113.5 (250)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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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

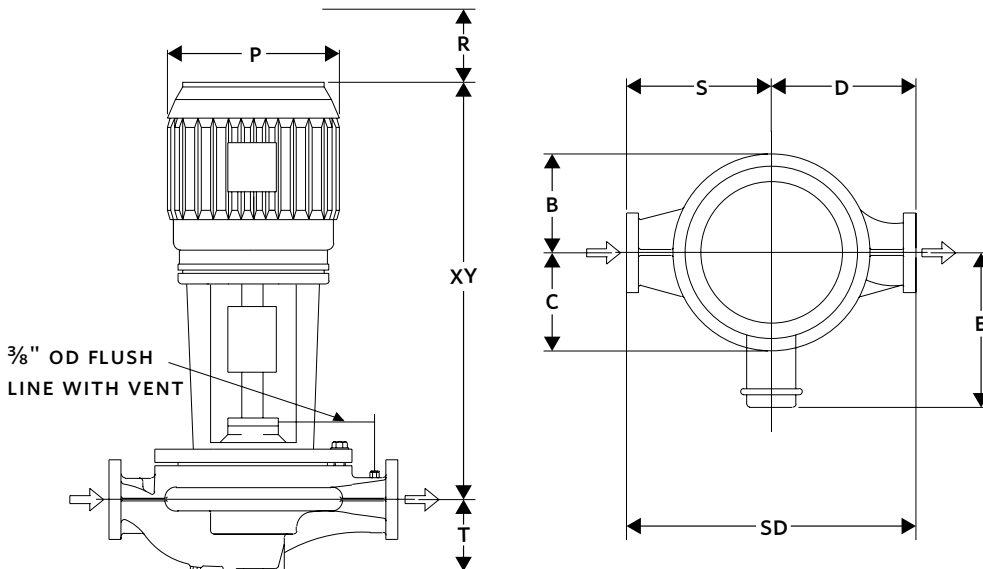
See file no. 43.50 for environmental accessories

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)

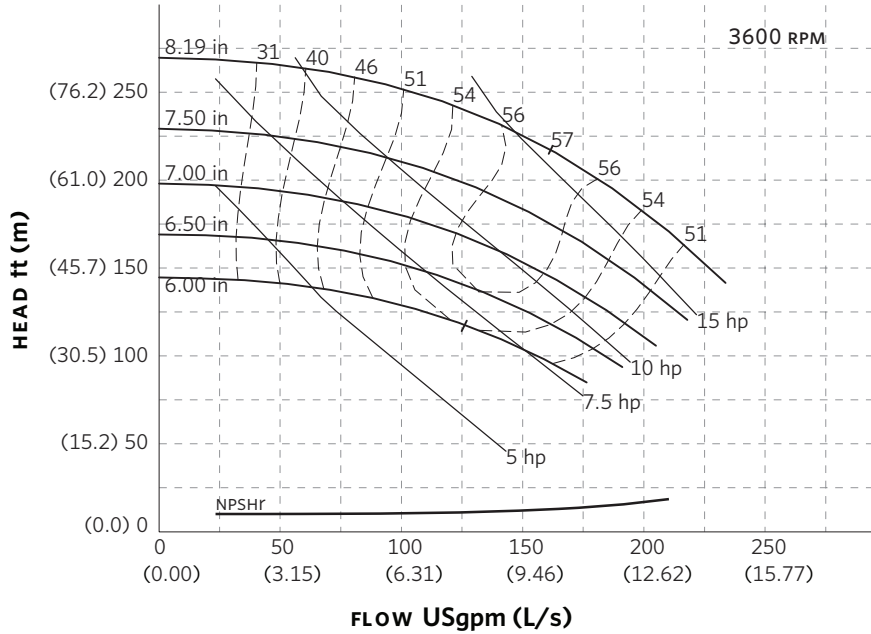
*Assembly weight combines pump and motor.

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

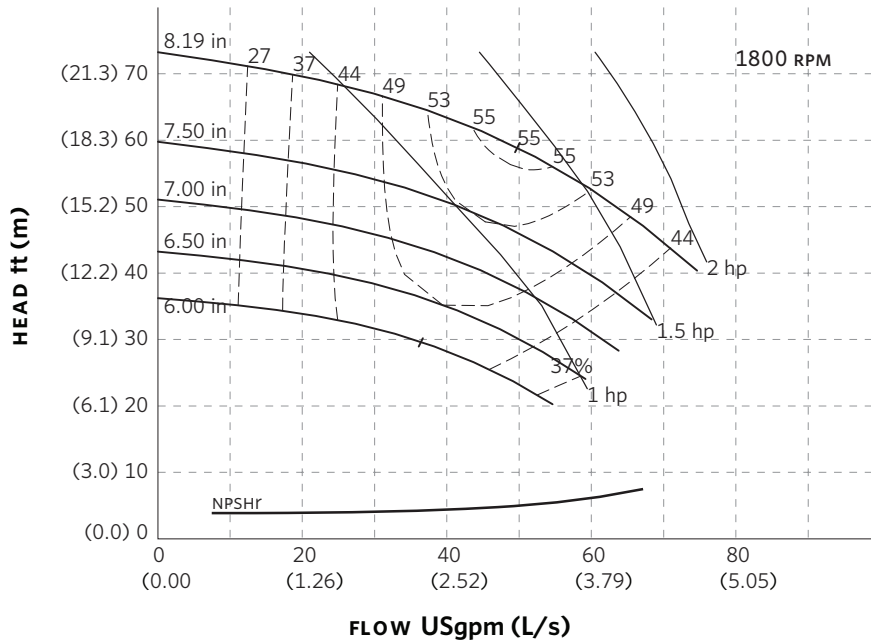
Size
1.5 x 1.5 x 8

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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

2 x 2 x 6

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 50 mm (2")	DISCHARGE: 50 mm (2")	

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				

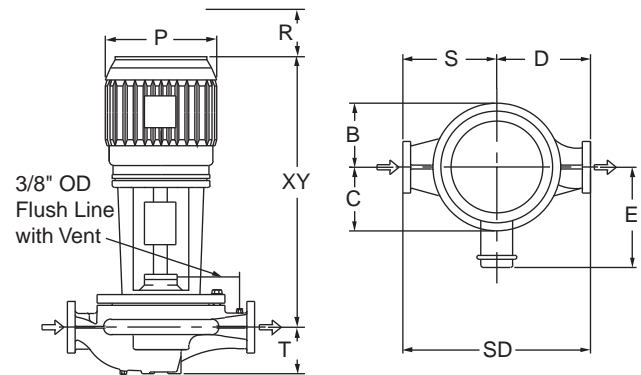
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

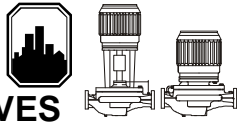


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
118 (4.63)	114 (4.50)	178 (7.00)	203 (8.00)	381 (15.00)	124 (4.88)

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	70.4 (155)	70.4 (155)
2 & 3	---	2	---	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	70.4 (155)	70.4 (155)
5	---	3	---	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	77.2 (170)	81.7 (180)
7.5	---	5	---	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	81.7 (180)	86.3 (190)
---	---	7.5	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	---	102.0 (225)

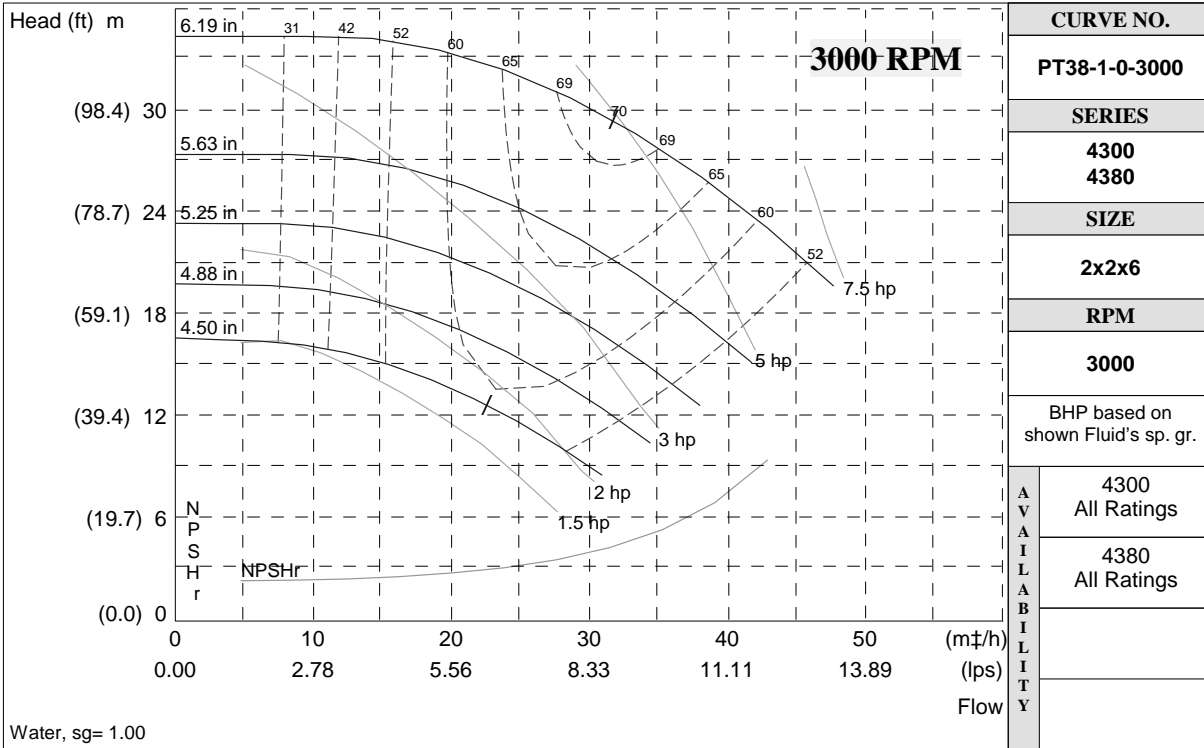
*Assembly weight combines pump and motor.

ARMSTRONG

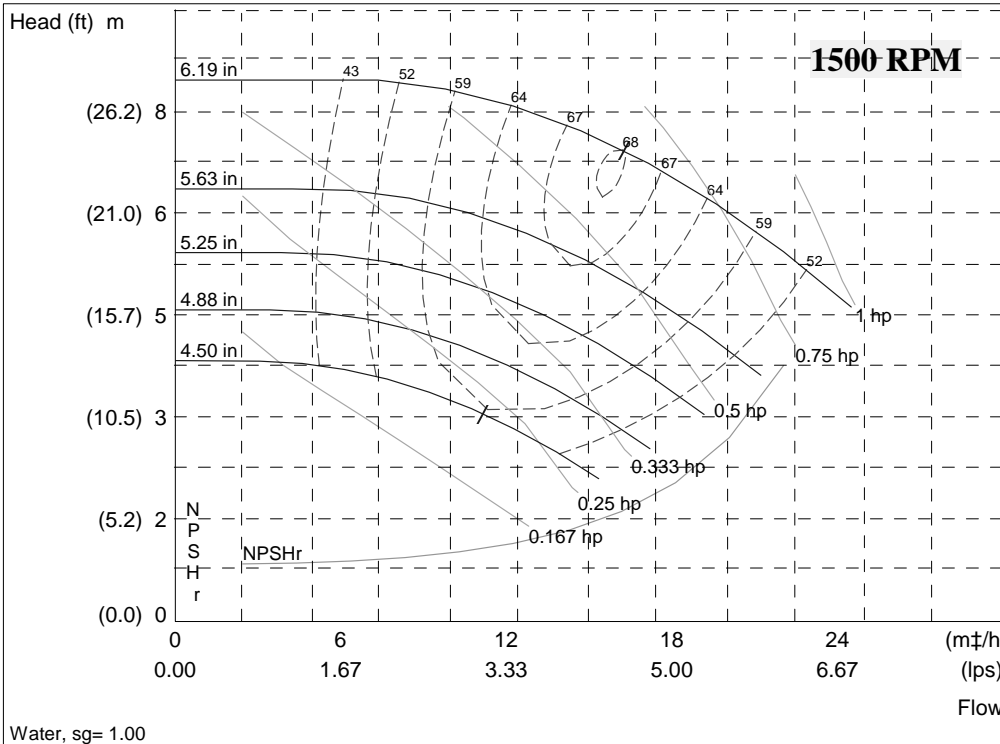


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT38-1-0-3000
SERIES	4300 4380
SIZE	2x2x6
RPM	3000
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings



CURVE NO.	PT37-1-0-1500
SERIES	4300 4380
SIZE	2x2x6
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE 2x2x6 | SUBMITTAL

File No: 43.503
Date: NOV. 26, 2014
Supersedes: 43.503
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: 2" (50 mm) Discharge: 2" (50 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

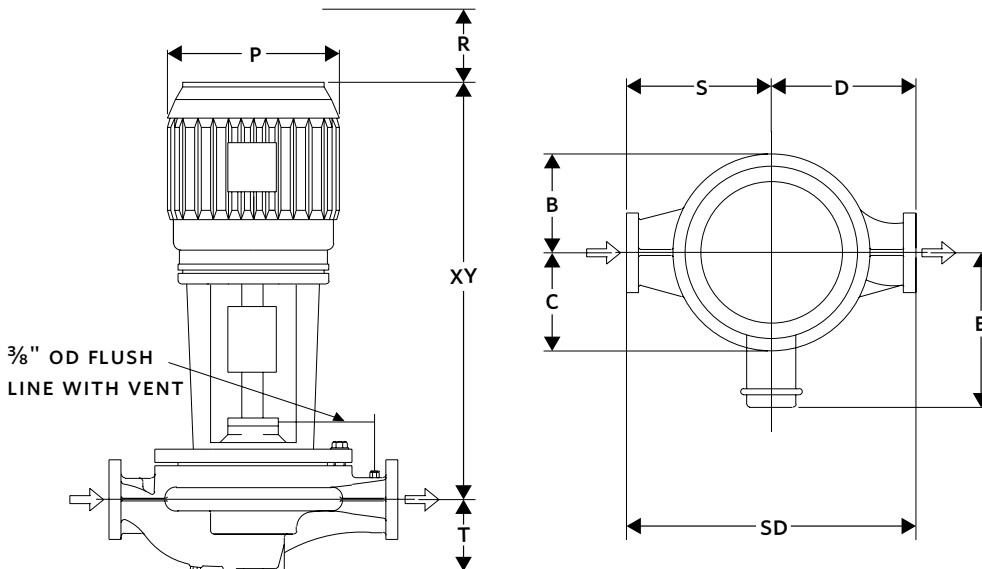
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM			DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC	ODP/ TEFC				lbs (kgs)	
	3600	3000	1500	E	P	R	XY	ODP	TEFC
143TC	—	—	1	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	167 (75.7)	174 (78.9)
145TC	3	—	1.5 & 2	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	179 (81.2)	219 (99.3)
182TC	5	3	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	177 (80.3)	234 (106.1)
184TC	7.5	5	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	189 (85.7)	254 (115.2)
213TC	10	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	255 (115.7)	293 (132.9)
215TC	15	10	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	260 (117.9)	—
254TC	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	—	400 (181.4)

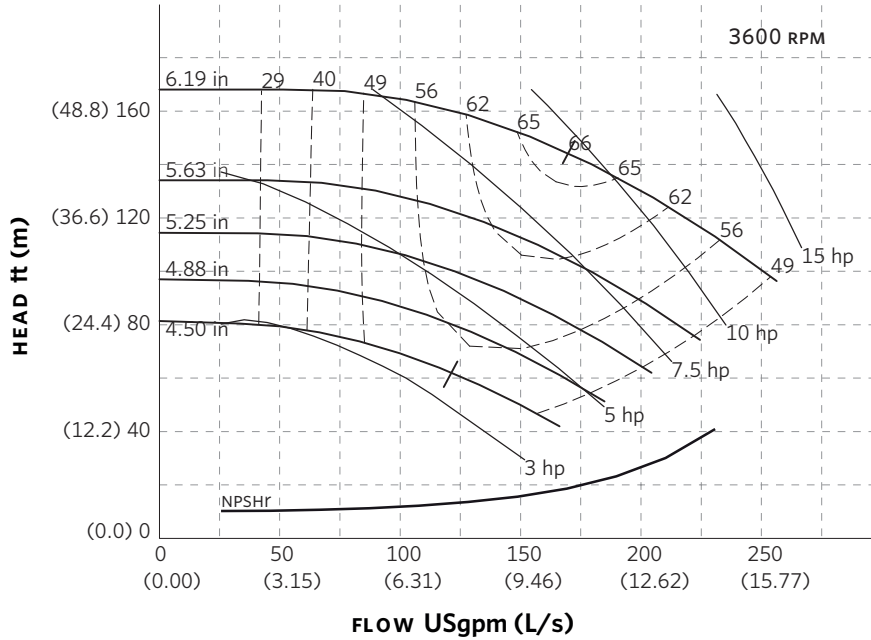
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
4.63 (118)	4.50 (114)	7.00 (178)	8.00 (203)	15.00 (381)	4.88 (124)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT38-2-0-3600

Series
4300
4380

Size
2 x 2 x 6

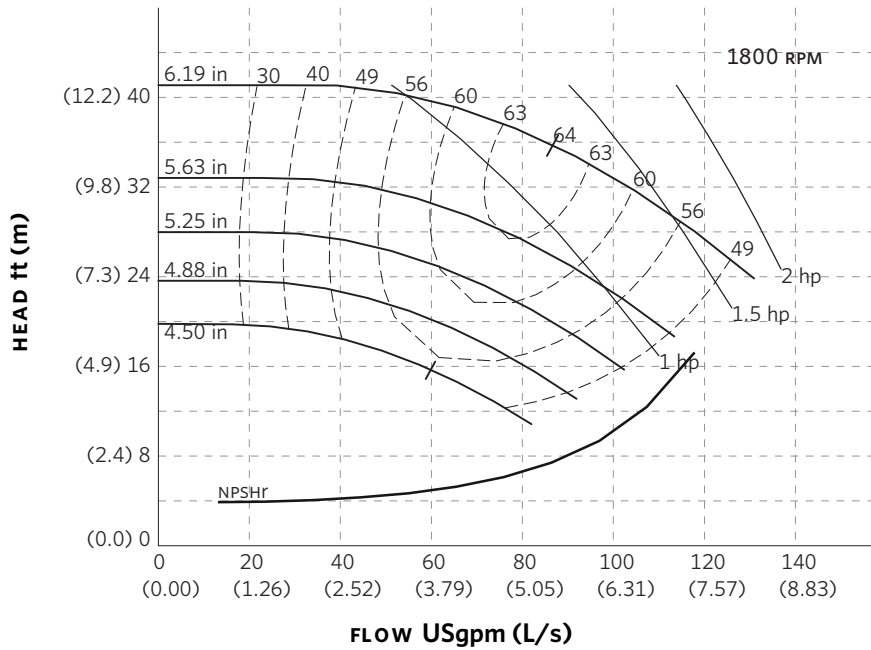
RPM
3600

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
PT37-2-0-1800

Series
4300
4380

Size
2 x 2 x 6

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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

2 x 2 x 8

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
_____	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 50 mm (2")	DISCHARGE: 50 mm (2")	

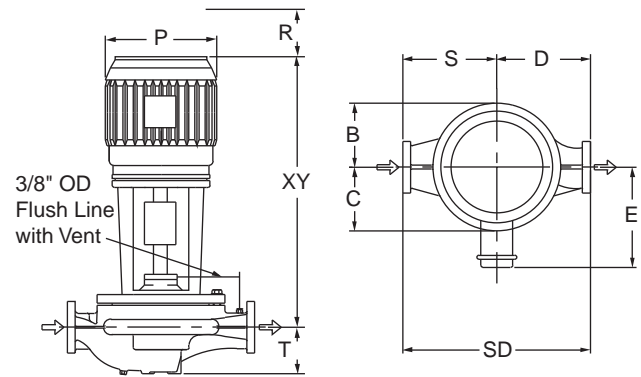
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

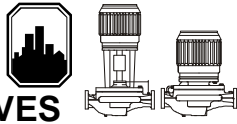


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
147 (5.80)	147 (5.80)	216 (8.50)	241 (9.50)	457 (18.00)	132 (5.20)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

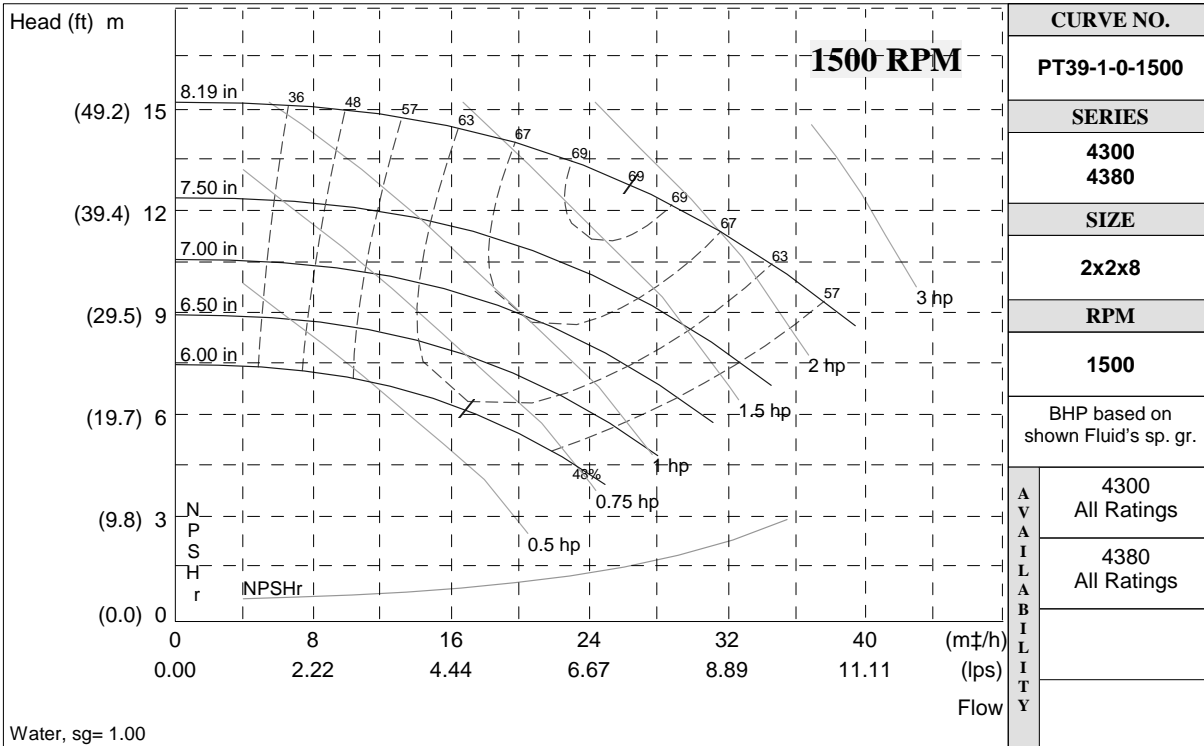
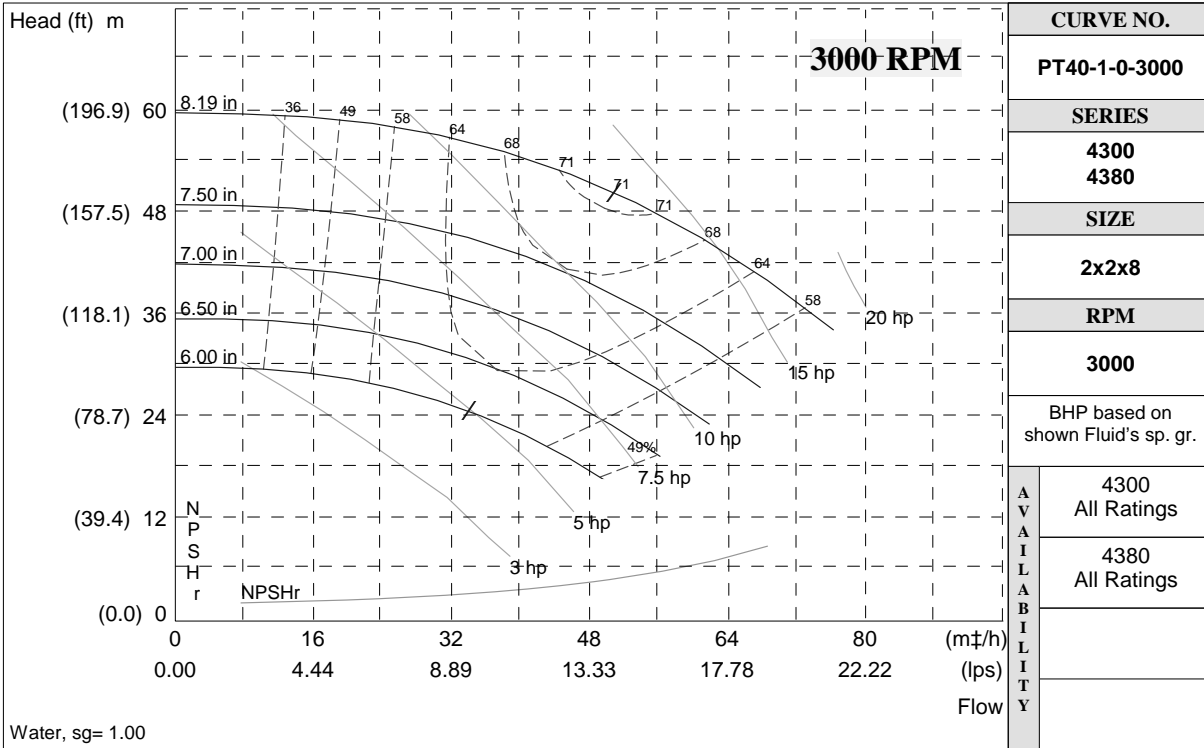
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	84.0 (185)	84.0 (185)
---	1.5 & 2	---	1.5 & 2	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	84.0 (185)	84.0 (185)
5	---	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	90.8 (200)	95.3 (210)
7.5	---	5	---	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	95.3 (210)	99.9 (220)
10	---	7.5	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	109.0 (240)	115.6 (225)
15	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	113.5 (250)	122.6 (270)
20	---	15	---	254TC	252 (9.94)	340 (13.38)	110 (5.00)	866 (34.10)	136.2 (300)	154.4 (340)
---	---	20	---	256TC	252 (9.94)	340 (13.38)	110 (5.00)	866 (34.10)	---	172.5 (380)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

2x2x8 | SUBMITTAL

File No: 43-511
 Date: NOV. 26, 2014
 Supersedes: 43-511
 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: 2" (50 MM) Discharge: 2" (50 MM)

MOTOR DESIGN DATA

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

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.

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

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

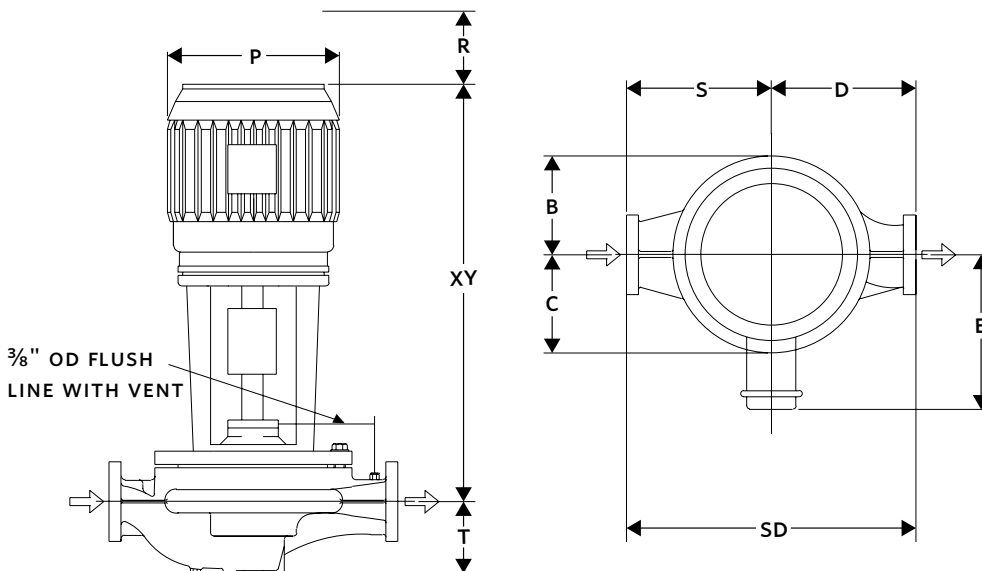
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				lbs (kgs)	
	3600	1800	1200	3600	1800	1200	E	P	R	XY	ODP	TEFC
143TC	—	1	—	—	1	—	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	197 (89.4)	204 (92.5)
145TC	—	1.5 & 2	1	—	1.5 & 2	1	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	198 (89.8)	206 (93.4)
182TC	—	3	1.5	—	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	218 (98.9)	249 (112.9)
184TC	7.5	5	—	—	5	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	219 (99.3)	284 (128.8)
213TC	10	—	—	7.5	—	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	285 (129.3)	323 (146.5)
215TC	15	—	—	10	—	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	290 (131.5)	430 (195.0)
254TC	20	—	—	15	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	365 (165.6)	463 (210.0)
256TC	25	—	—	20	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	420 (190.5)	515 (233.6)
284TSC	30	—	—	25	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	523 (237.2)	—
286TSC	—	—	—	30	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	—	578 (262.2)

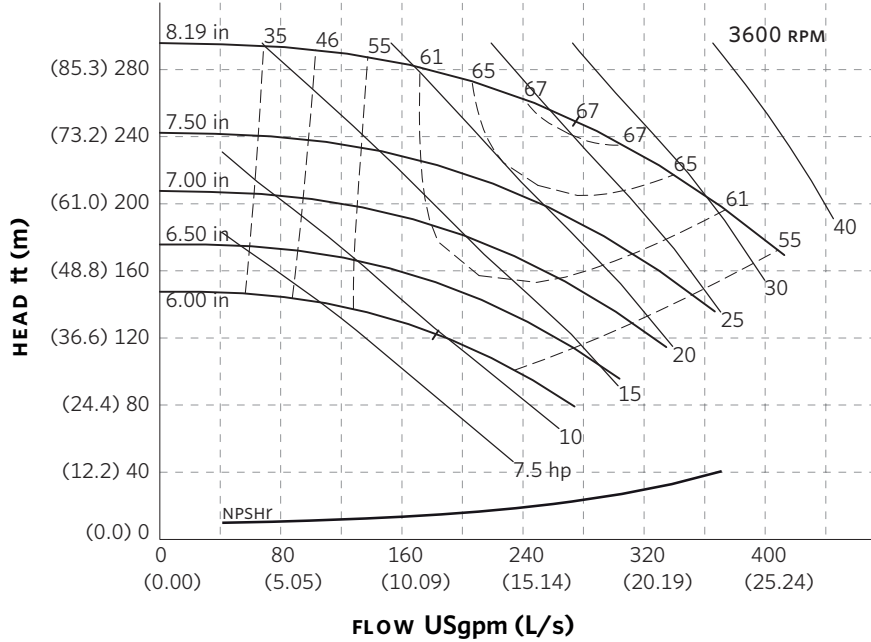
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
5.80 (147)	5.80 (147)	8.50 (216)	9.50 (241)	18.00 (457)	5.20 (132)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT40-2-0-3600

Series
4300
4380

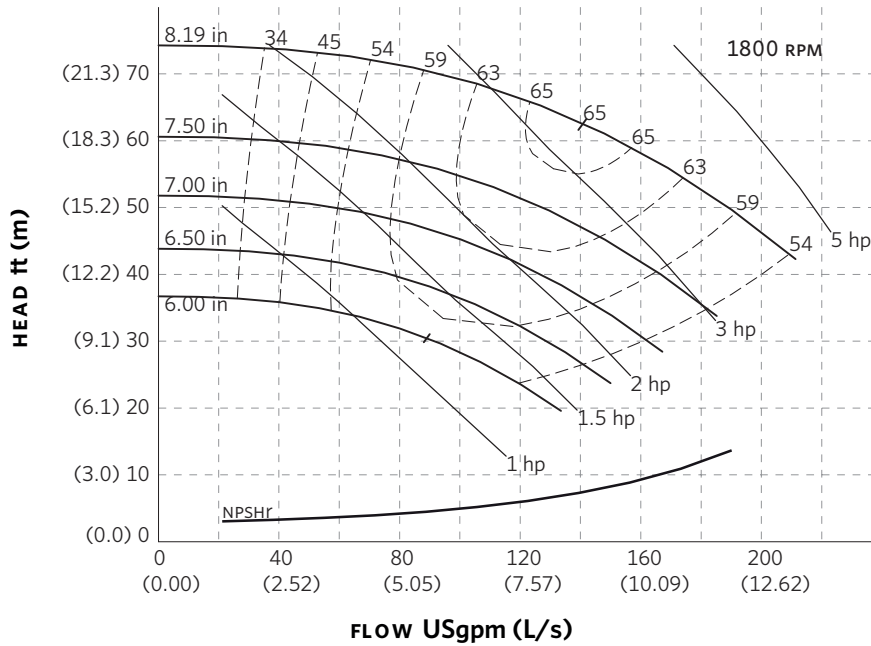
Size
2 x 2 x 8

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
PT39-2-0-1800

Series
4300
4380

Size
2 x 2 x 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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MAKE
SENSE™**

Series 4300 Vertical In-Line **2 x 2 x 10** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:	RPM:		
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 50 mm (2")	DISCHARGE: 50 mm (2")	

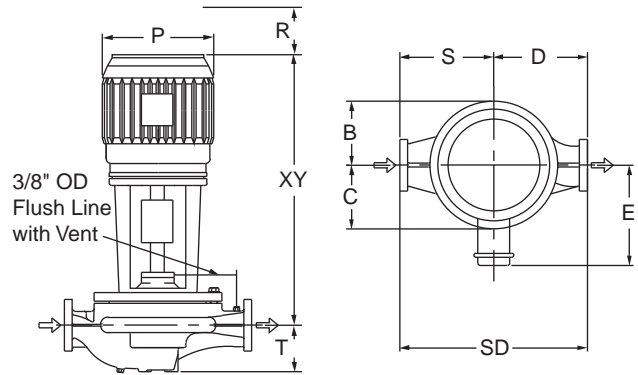
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



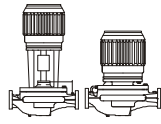
PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
171 (6.75)	171 (6.75)	229 (9.00)	254 (10.00)	483 (19.00)	136 (5.35)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1.5 & 2	---	1.5 & 2	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	106.7 (235)	106.7 (235)
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	113.5 (250)	118.0 (260)
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	118.0 (260)	122.6 (270)
10	---	---	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	136.2 (300)	---
15	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	136.2 (300)	145.3 (320)
20	---	15	---	254TC	252 (9.94)	340 (13.38)	110 (5.00)	866 (34.10)	158.9 (350)	177.1 (390)
25	---	20	---	256TC	252 (9.94)	340 (13.38)	110 (5.00)	866 (34.10)	163.4 (360)	195.2 (430)
30	---	25	---	284TSC	305 (12.00)	389 (15.31)	100 (4.00)	1101 (43.36)	195.2 (430)	213.4 (470)
---	---	30	---	286TSC	305 (12.00)	389 (15.31)	100 (4.00)	1101 (43.36)	---	222.5 (490)

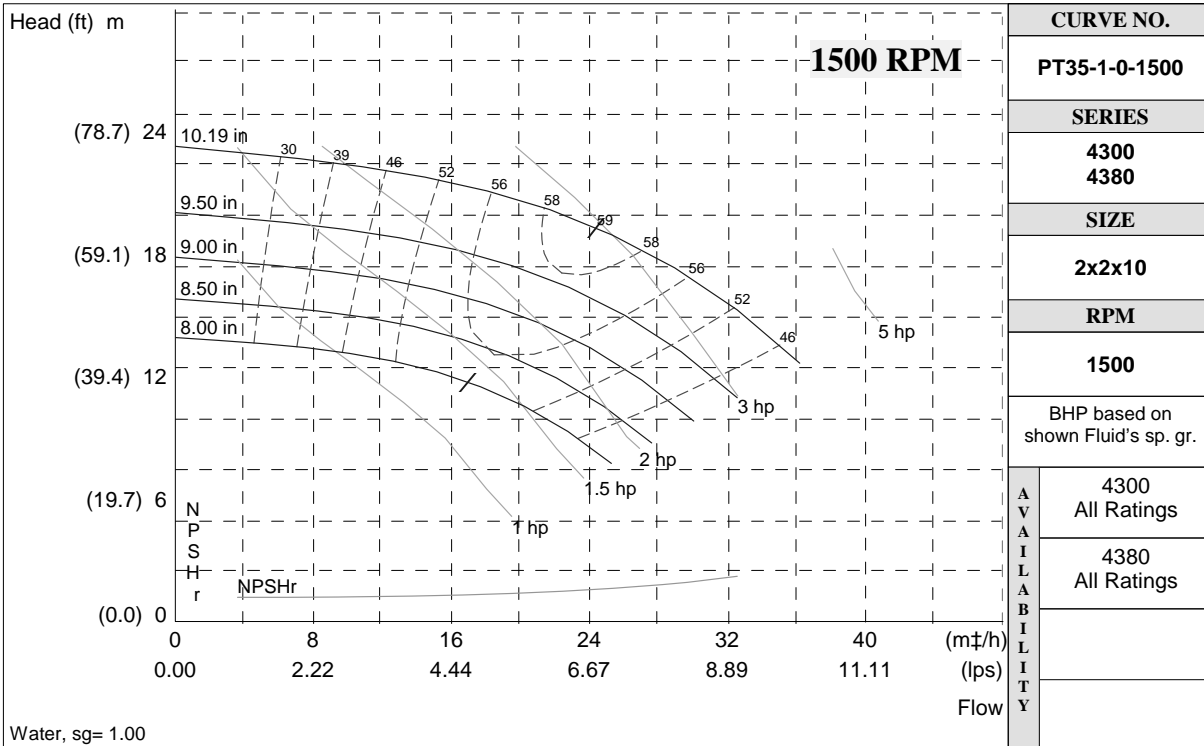
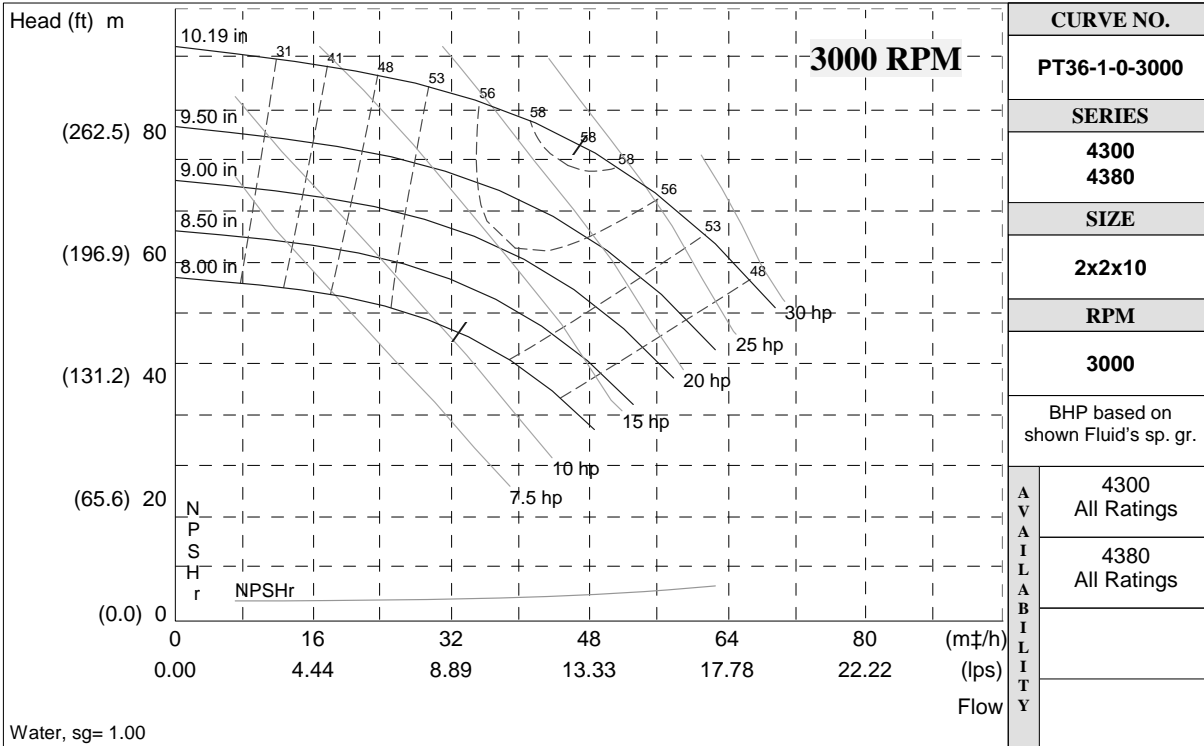
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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 F: +44 (0) 8444 145 146



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For Armstrong locations worldwide, please visit www.armstrongintegrated.com

SERIES 4300 | VERTICAL IN-LINE

2x2x10 | SUBMITTAL

File No: 43-521
 Date: NOV. 26, 2014
 Supersedes: 43-521
 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: 2" (50 MM) Discharge: 2" (50 MM)

MOTOR DESIGN DATA

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

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.

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

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

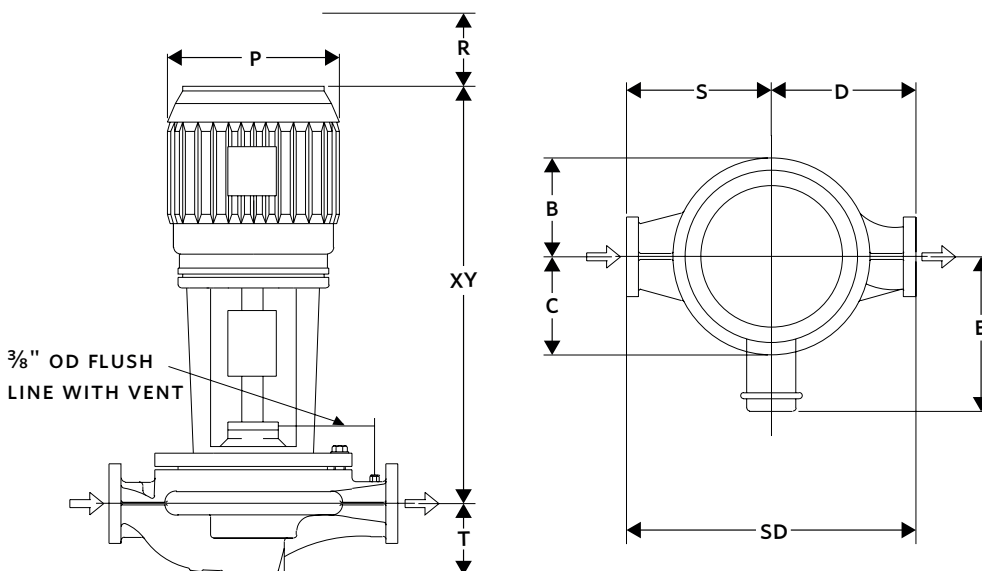
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				lbs (kgs)	
	3600	1800	1200	3600	1800	1200	E	P	R	XY	ODP	TEFC
145TC	—	2	1	—	2	1	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	252 (114.3)	258 (117.0)
182TC	—	3	1.5	—	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	268 (121.6)	299 (135.6)
184TC	—	5	2	—	5	2	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	280 (127.0)	308 (139.7)
213TC	—	7.5	—	—	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	315 (142.9)	365 (165.6)
254TC	20	—	—	—	—	—	8.90 (226)	13.38 (340)	5.00 (110)	34.10 (866)	415 (188.2)	—
256TC	25	—	—	20	—	—	8.90 (226)	13.38 (340)	5.00 (110)	34.10 (866)	470 (213.2)	513 (232.7)
284TSC	30	—	—	25	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	593 (269.0)	585 (265.4)
286TSC	40	—	—	30	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	677 (307.1)	648 (293.9)
324TSC	50	—	—	40	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	780 (353.8)	781 (354.3)
326TSC	—	—	—	50	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	—	827 (375.1)

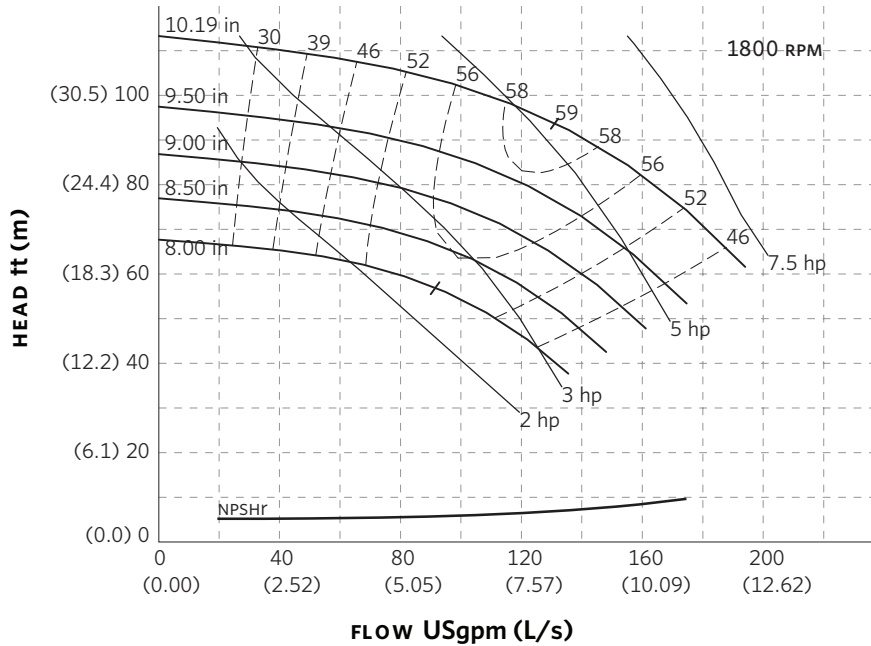
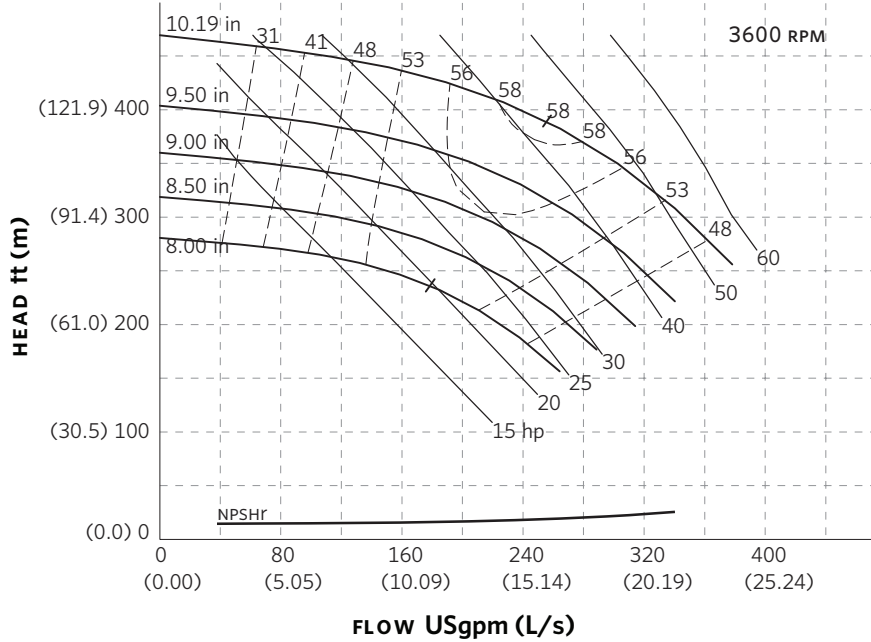
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
6.75 (171)	6.75 (171)	9.00 (229)	10.00 (254)	19.00 (483)	5.35 (136)



SERIES 4300 PERFORMANCE CURVES



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

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P.R.C.
201401
+86 21 3756 6696

**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

3 x 3 x 6

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 75 mm (3")	DISCHARGE: 75 mm (3")	

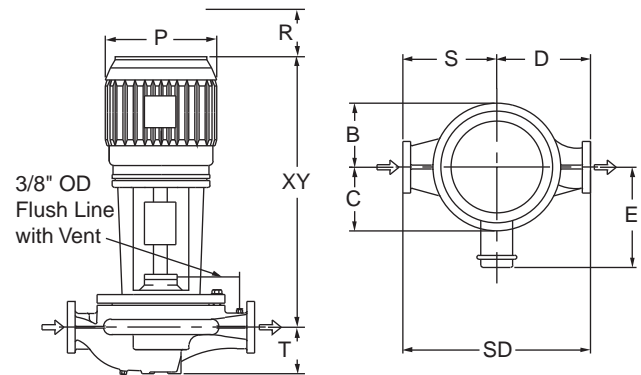
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

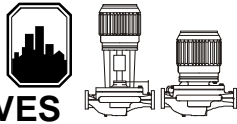


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
147 (5.80)	118 (4.65)	210 (8.25)	248 (9.75)	457 (18.00)	154 (6.06)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

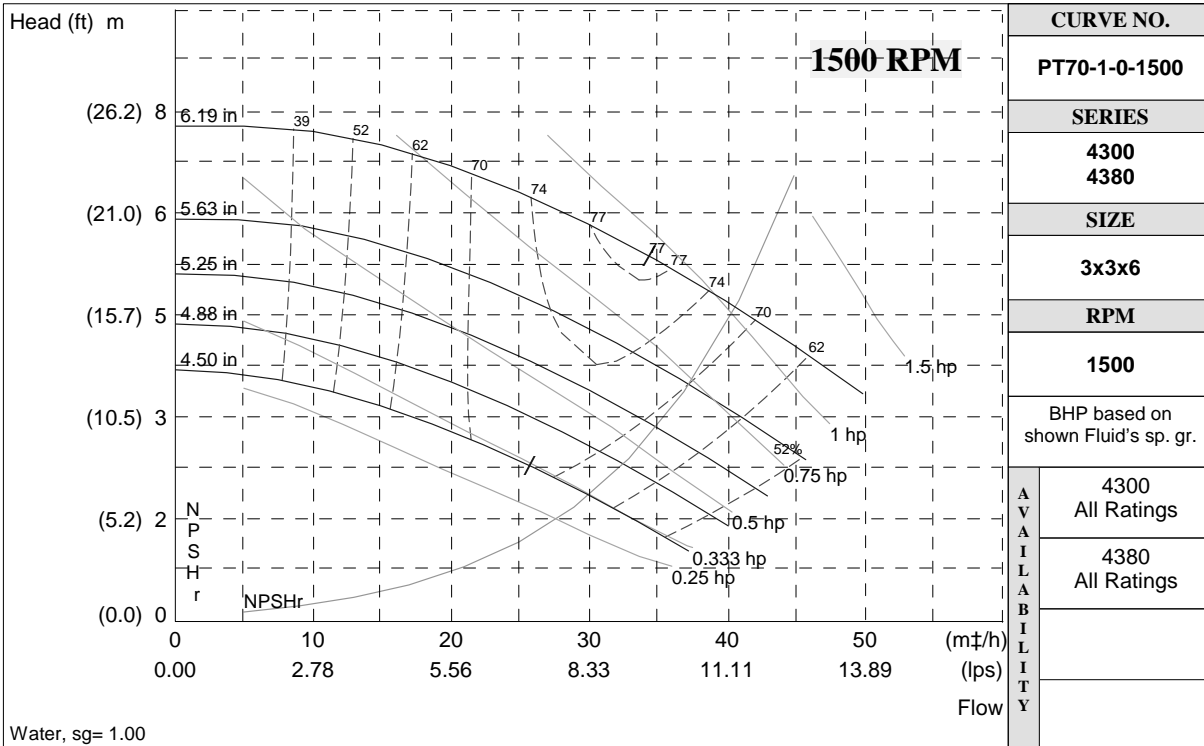
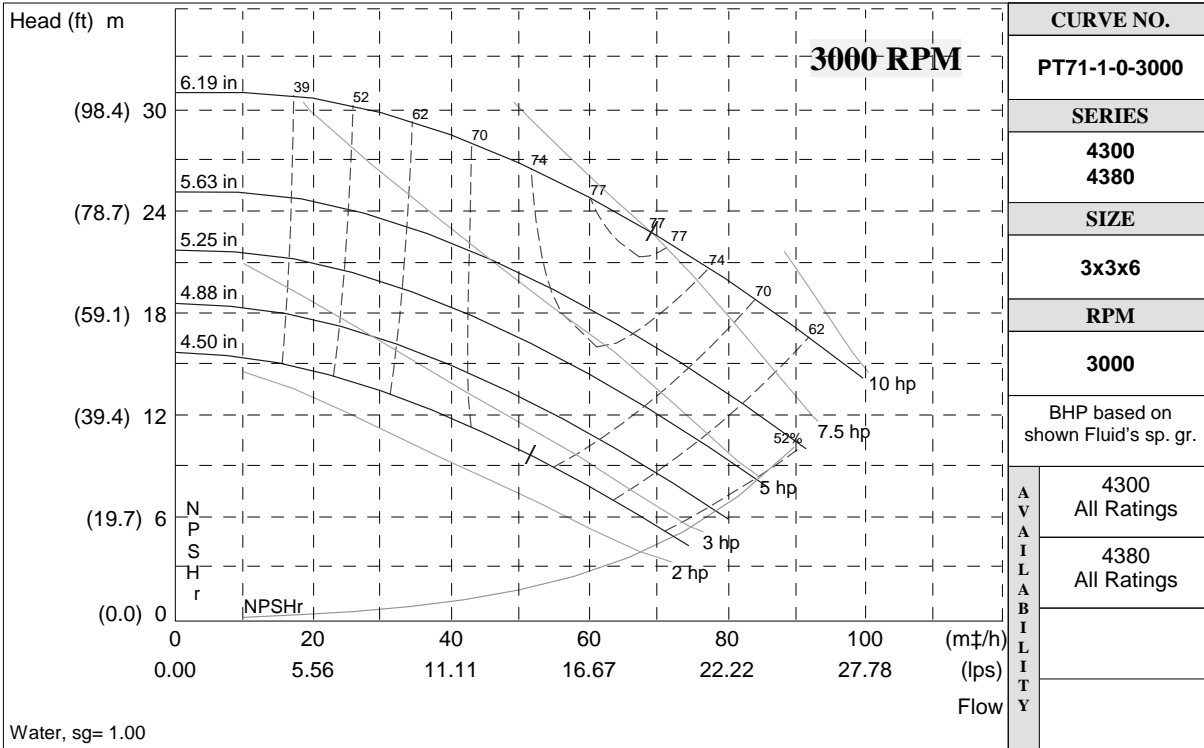
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	79.5 (175)	79.5 (175)
3	1.5	---	1.5	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	79.5 (175)	79.5 (175)
5	---	3	---	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	86.3 (190)	90.8 (200)
7.5	---	5	---	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	90.8 (200)	95.3 (210)
---	---	7.5	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	---	111.1 (245)
10	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	104.3 (230)	117.9 (260)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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 F (Main): (416) 759-9101

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 F: (716) 693-8970

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 F: +44 (0) 8444 145 146



SERIES 4300 | VERTICAL IN-LINE

3×3×6 | SUBMITTAL

File No: 43.505
 Date: DECEMBER 05, 2014
 Supersedes: 43.505
 Date: NOV. 26, 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: 3" (75 mm) Discharge: 3" (75 mm)

MOTOR DESIGN DATA

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

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.

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

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

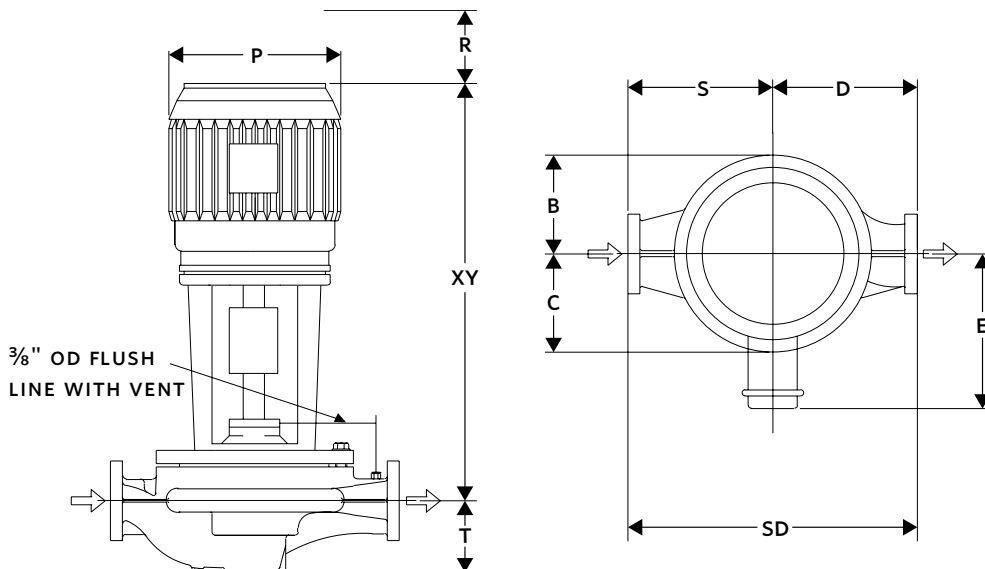
Gasket: Confined fiber

MOTOR 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)	187 (84.8)	194 (88.0)
145TC	3	1.5 & 2	—	1.5 & 2	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	199 (90.3)	—
182TC	5	—	3	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	197 (89.4)	239 (108.4)
184TC	7.5	—	5	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	209 (94.8)	254 (115.2)
213TC	10	—	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	275 (124.7)	274 (124.3)
215TC	15	—	10	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	280 (127.0)	313 (142.0)
254TC	—	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	420 (190.5)	423 (191.9)

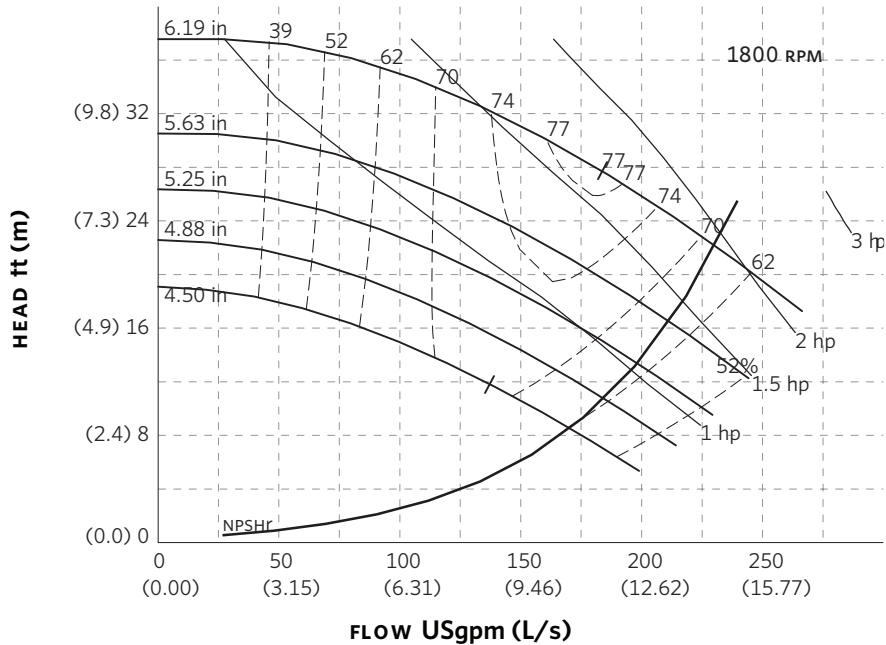
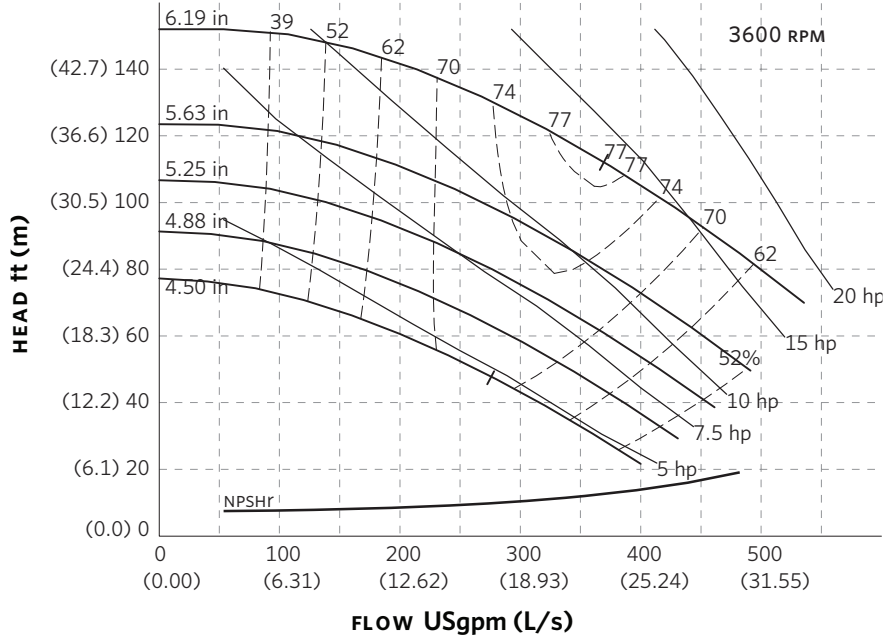
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
5.80 (147)	4.65 (118)	8.25 (210)	9.75 (248)	18.00 (457)	6.06 (154)



SERIES 4300 PERFORMANCE CURVES



Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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P.R.C.
201401
+86 21 3756 6696

**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

3 x 3 x 8

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

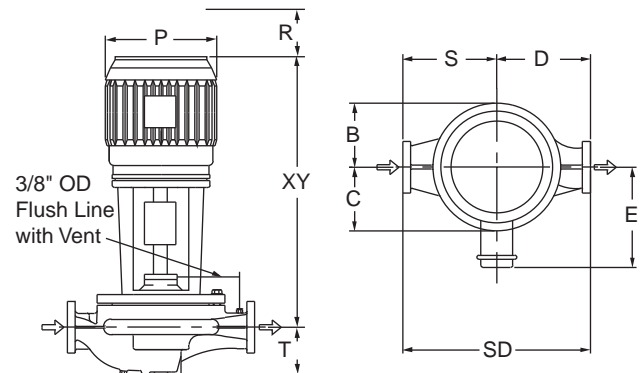
MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 80 mm (3")	DISCHARGE: 80 mm (3")	

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				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES



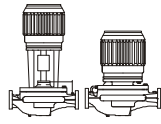
MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
171 (6.75)	147 (5.80)	254 (10.00)	305 (12.00)	559 (22.00)	160 (6.31)

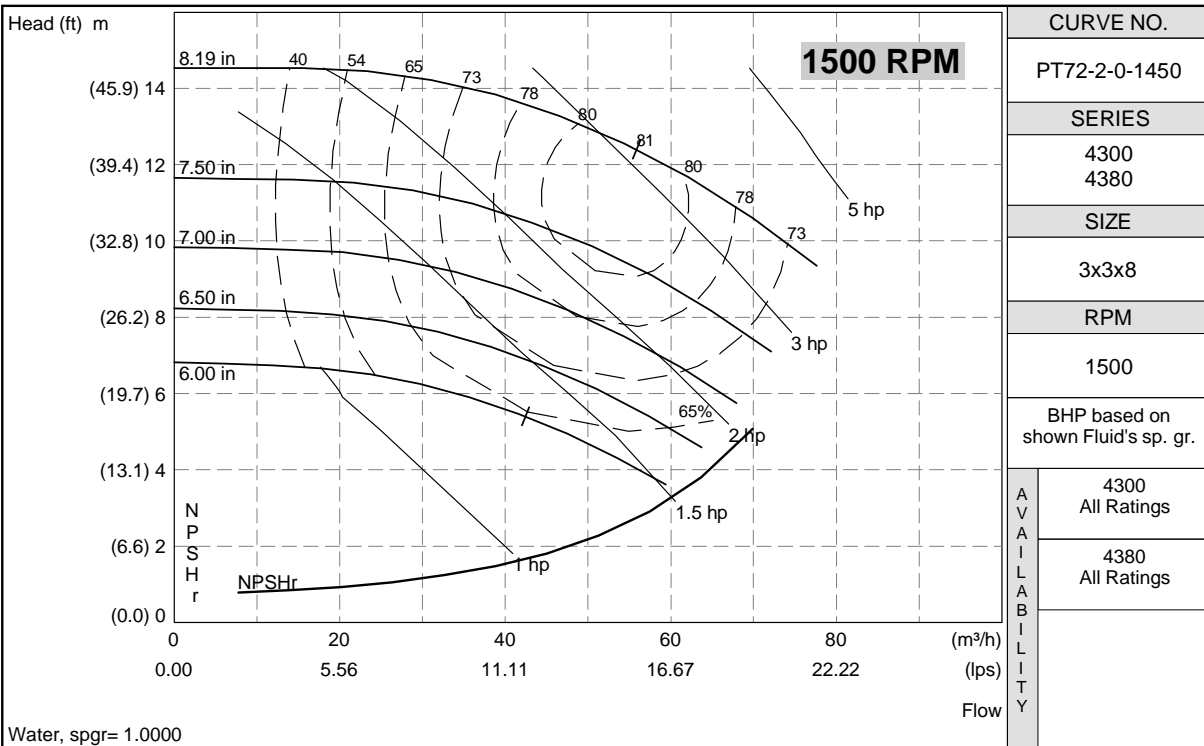
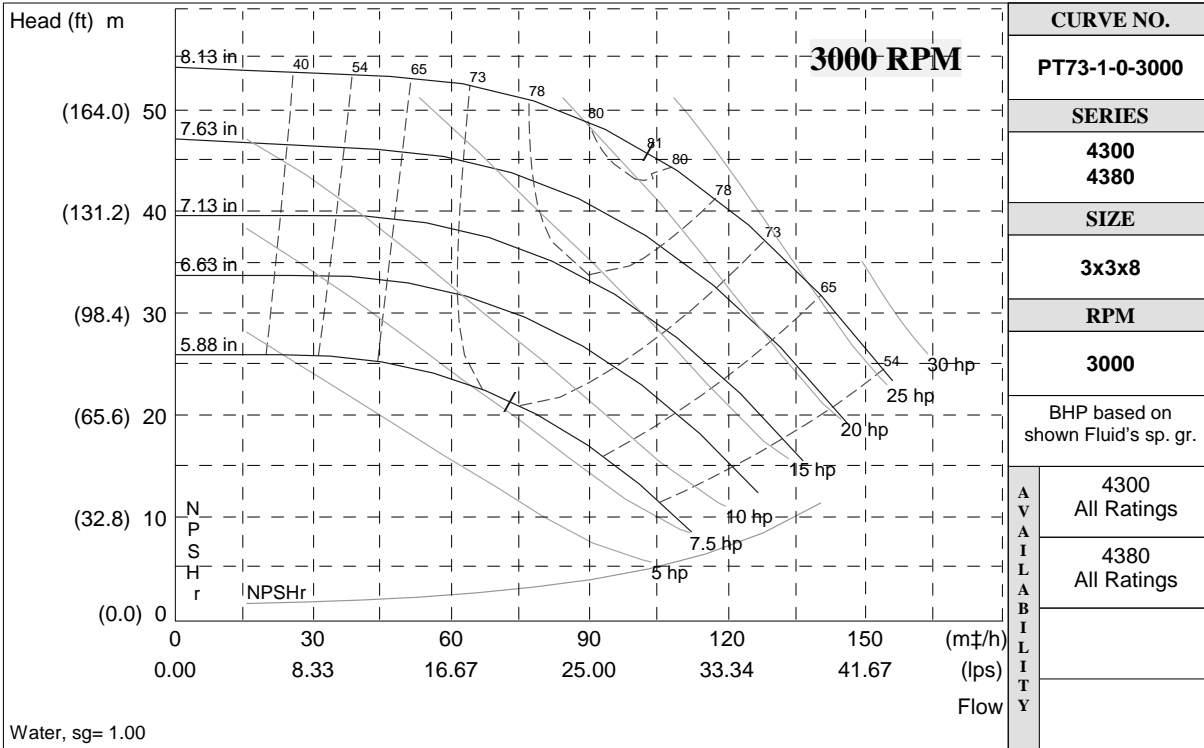
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	97.6 (215)	97.6 (215)
---	1.5 & 2	---	1.5 & 2	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	97.6 (215)	97.6 (215)
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	104.4 (230)	109.0 (240)
7.5	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	109.0 (240)	113.5 (250)
10	---	7.5	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	122.6 (270)	129.3 (285)
15	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	127.1 (280)	136.2 (300)
20	---	15	---	254TC	252 (9.94)	340 (13.38)	110 (5.00)	866 (34.10)	149.8 (330)	168.0 (370)
25	---	20	---	256TC	252 (9.94)	340 (13.38)	110 (5.00)	866 (34.10)	154.4 (340)	186.1 (410)
30	---	25	---	284TSC	305 (12.00)	389 (15.31)	100 (4.00)	1101 (43.36)	186.1 (410)	204.3 (450)
---	---	30	---	286TSC	305 (12.00)	389 (15.31)	100 (4.00)	1101 (43.36)	---	213.4 (470)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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For Armstrong locations worldwide, please visit www.armstrongintegrated.com

SERIES 4300 | VERTICAL IN-LINE

3×3×8 | SUBMITTAL

File No: 43-513
 Date: NOV. 26, 2014
 Supersedes: 43-513
 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: 3" (75 MM) Discharge: 3" (75 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

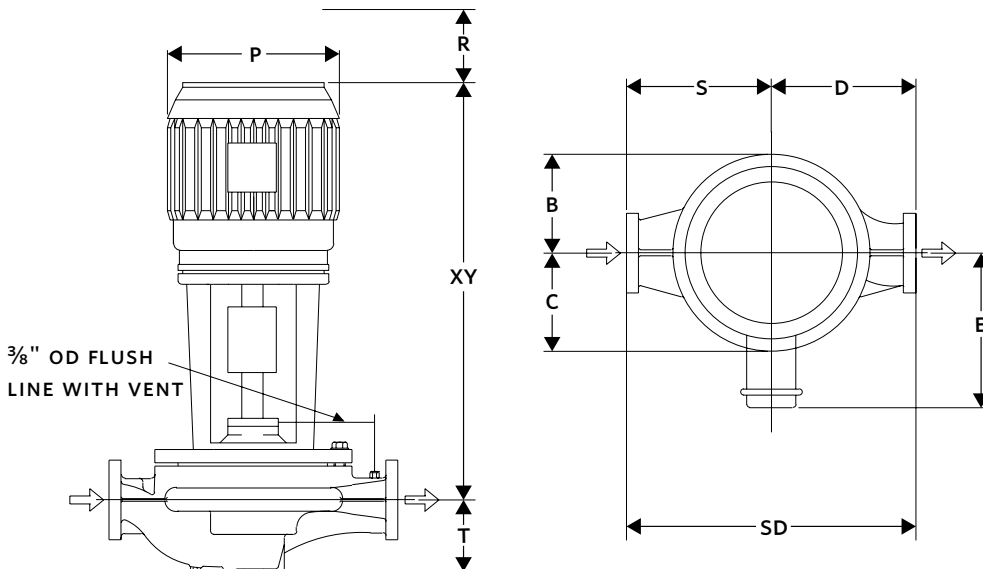
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				lbs (kgs)	
	3600	1800	1200	3600	1800	1200	E	P	R	XY	ODP	TEFC
145TC	—	1.5 & 2	1	—	1.5 & 2	1	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	232 (105.2)	238 (108.0)
182TC	—	3	1.5	—	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	248 (112.5)	279 (126.6)
184TC	—	5	2	—	5	—	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	260 (117.9)	288 (130.6)
213TC	—	7.5	—	—	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	295 (133.8)	345 (156.5)
215TC	15	—	—	—	—	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	320 (145.1)	353 (160.1)
254TC	20	—	—	15	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	395 (179.2)	460 (208.7)
256TC	25	—	—	20	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	450 (204.1)	493 (223.6)
284TSC	30	—	—	25	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	573 (259.9)	565 (256.3)
286TSC	40	—	—	30	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	657 (298.0)	628 (284.9)
324TSC	50	—	—	40	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	760 (344.7)	761 (345.2)
326TSC	—	—	—	50	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	—	807 (366.0)

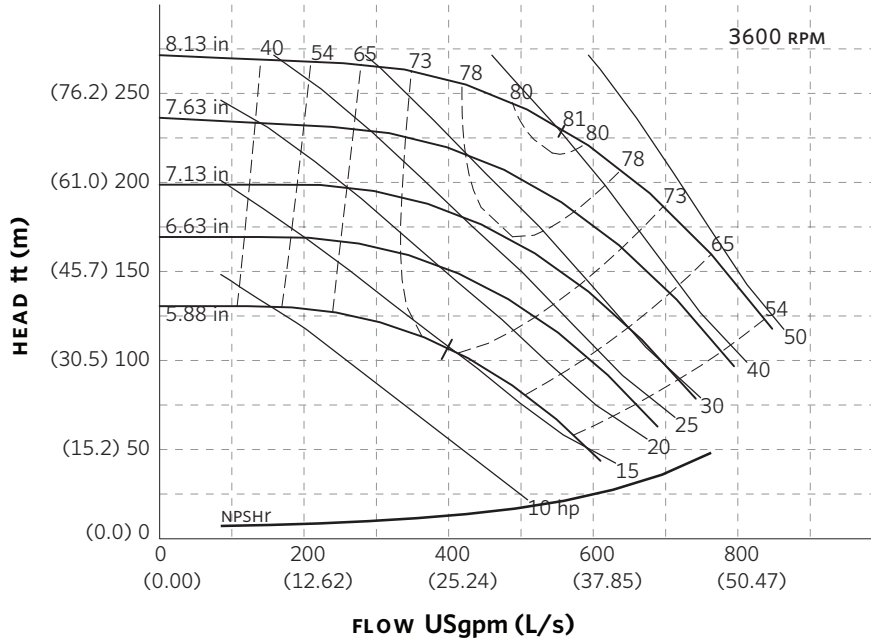
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
6.75 (171)	5.80 (147)	10.00 (254)	12.00 (305)	22.00 (559)	6.31 (160)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT73-1-0-3600

Series
4300
4380

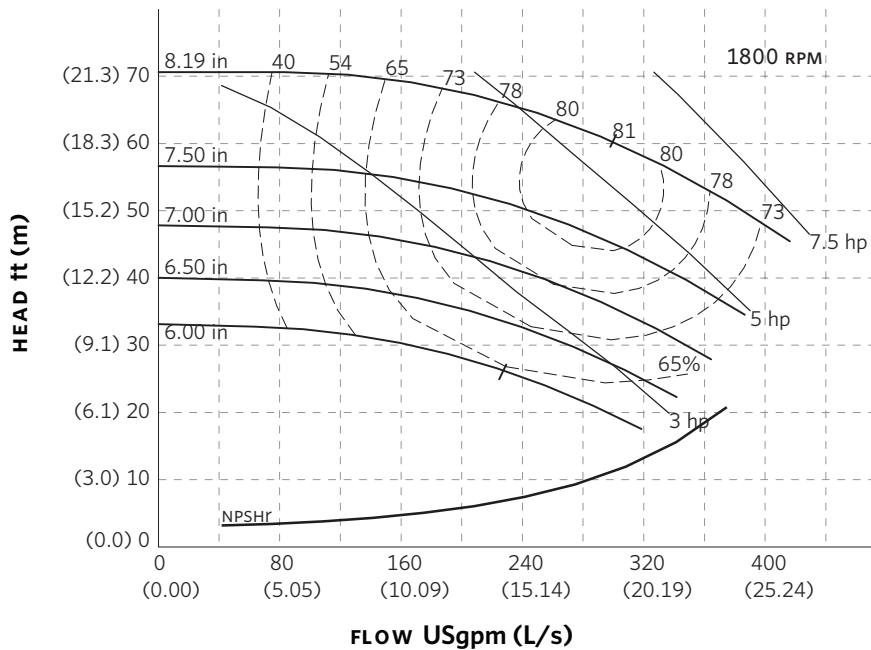
Size
3 × 3 × 8

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
PT72-2-0-1800

Series
4300
4380

Size
3 × 3 × 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **3 x 3 x 10** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:	RPM:		
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 75 mm (3")	DISCHARGE: 75 mm (3")	

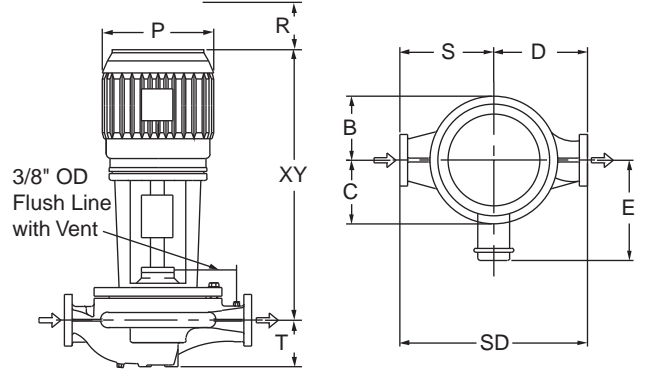
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

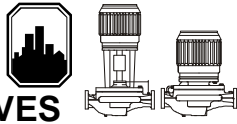


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
183 (7.20)	174 (6.87)	241 (9.50)	292 (11.50)	533 (21.00)	137 (5.40)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

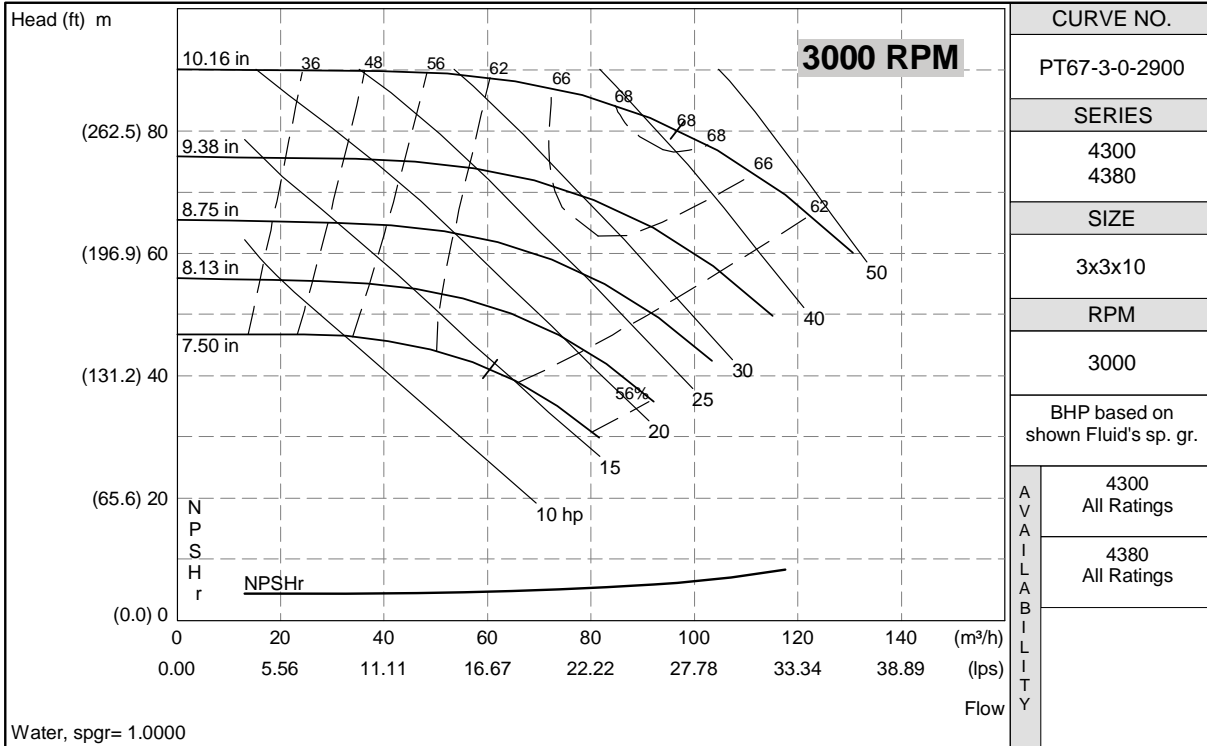
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	2	---	2	145TC	155 (6.09)	219 (8.63)	80 (3.00)	560 (22.03)	124.9 (275)	124.9 (275)
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	131.7 (290)	136.2 (300)
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	136.2 (300)	140.7 (310)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	149.8 (330)	156.6 (345)
15	---	---	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	154.4 (340)	---
20	---	15	---	254TC	210 (8.25)	308 (12.13)	110 (5.00)	741 (29.16)	177.1 (390)	195.2 (430)
25	---	20	---	256TC	210 (8.25)	308 (12.13)	110 (5.00)	741 (29.16)	181.6 (400)	213.4 (470)
30	---	25	---	284TSC	298 (11.75)	389 (15.31)	100 (4.00)	1101 (43.36)	213.4 (470)	231.5 (510)
40	---	30	---	286TSC	298 (11.75)	389 (15.31)	100 (4.00)	1101 (43.36)	222.5 (490)	240.6 (530)
---	---	40	---	324TSC	298 (11.75)	389 (15.31)	110 (4.00)	1101 (43.36)	---	372.3 (820)

*Assembly weight combines pump and motor.

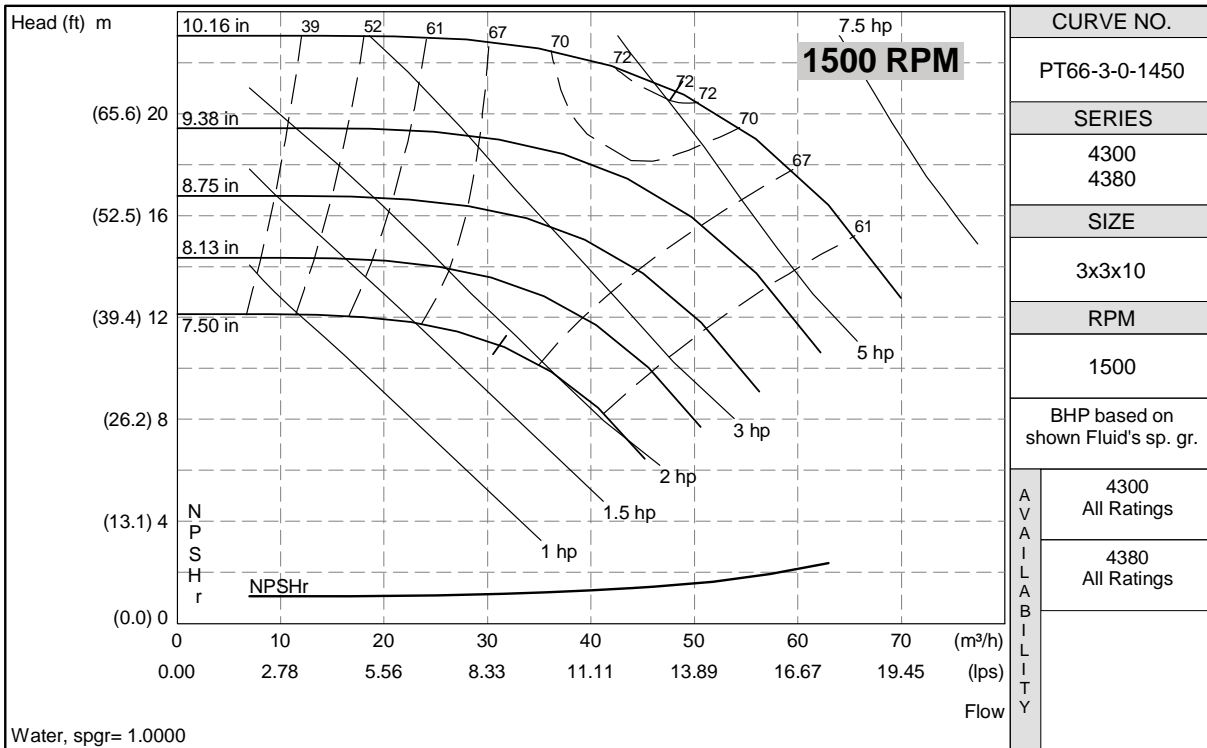


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	
PT67-3-0-2900	
SERIES	
4300 4380	
SIZE	
3x3x10	
RPM	
3000	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings



CURVE NO.	
PT66-3-0-1450	
SERIES	
4300 4380	
SIZE	
3x3x10	
RPM	
1500	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE 3×3×10 | SUBMITTAL

File No: 43-523
Date: NOV. 26, 2014
Supersedes: 43-523
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: 3" (75 MM) Discharge: 3" (75 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

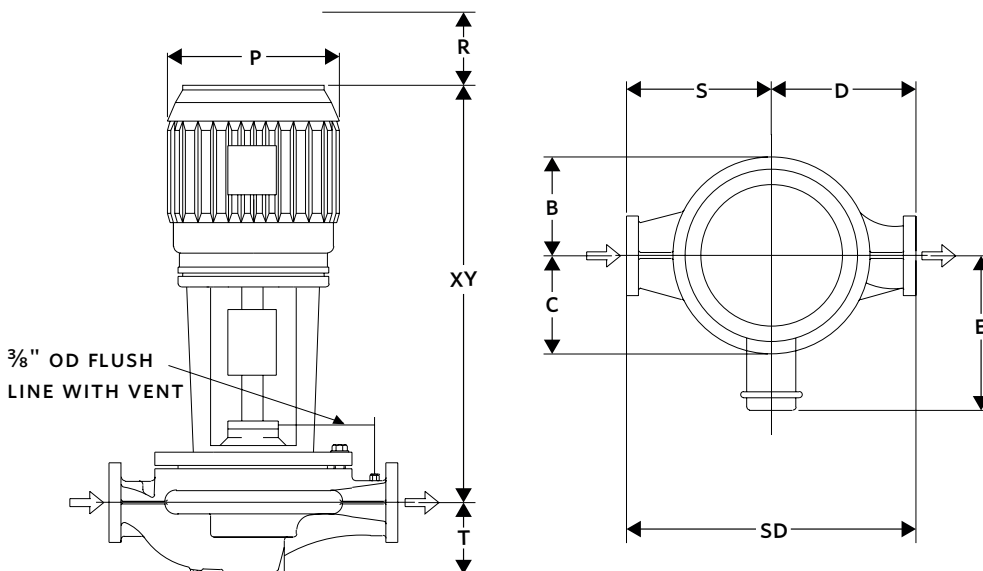
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				lbs (kgs)	
	3600	1800	1200	3600	1800	1200	E	P	R	XY	ODP	TEFC
145TC	—	—	1	—	—	1	6.09 (155)	8.63 (219)	3.00 (80)	22.03 (560)	285 (129.3)	296 (134.3)
182TC	—	3	1.5	—	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	308 (139.7)	339 (153.8)
184TC	—	5	2	—	5	2	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	320 (145.1)	348 (157.9)
213TC	—	7.5	3	—	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	355 (161.0)	405 (183.7)
215TC	—	10	—	—	10	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	370 (167.8)	412 (186.9)
254TC	20	—	—	—	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	455 (206.4)	—
256TC	25	—	—	20	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	510 (231.3)	553 (250.8)
284TSC	30	—	—	25	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	633 (287.1)	553 (250.8)
286TSC	40	—	—	30	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	717 (325.2)	688 (312.1)
324TSC	50	—	—	40	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	766 (347.5)	821 (372.4)
326TSC	60	—	—	50	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	894 (405.5)	867 (393.3)
364TSC	70	—	—	60	—	—	16.44 (418)	19.03 (483)	4.00 (110)	44.60 (1133)	1075 (487.6)	1262 (572.4)
365TSC	—	—	—	75	—	—	16.44 (418)	19.03 (483)	4.00 (110)	44.60 (1133)	—	1295 (587.4)

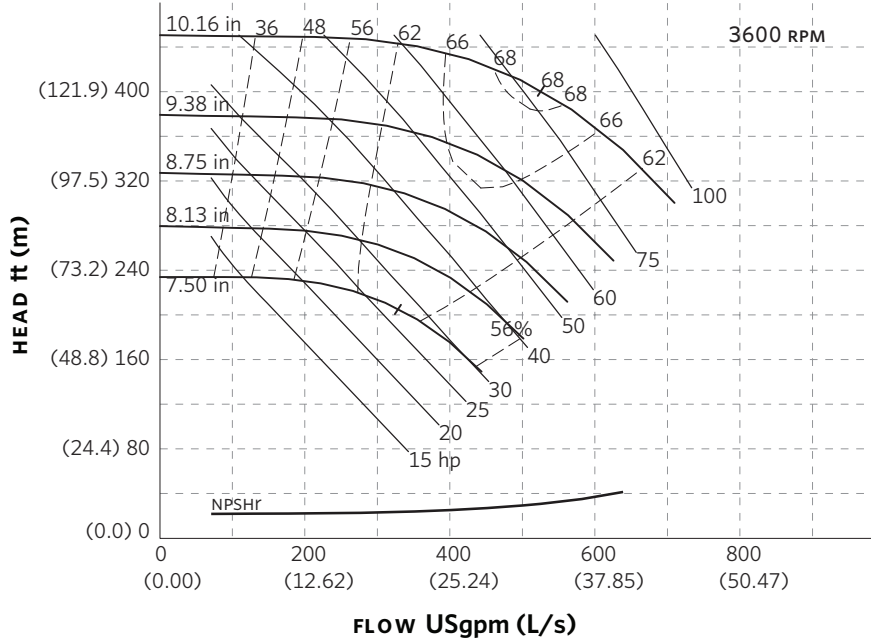
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
7.20 (183)	6.87 (174)	9.50 (241)	11.50 (292)	21.00 (533)	5.40 (137)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT67-3-0-3600

Series
4300
4380

Size
3 × 3 × 10

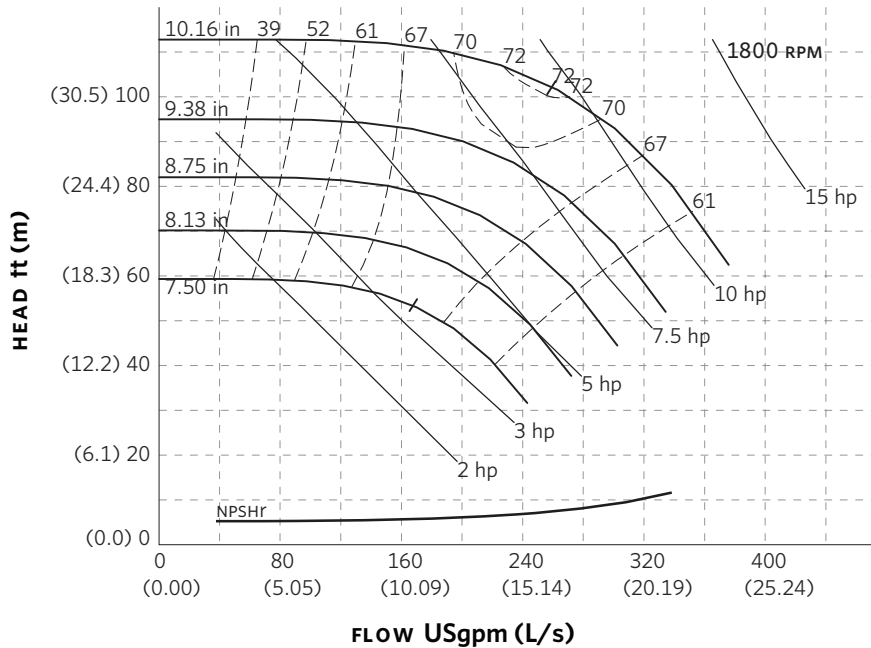
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 FR 326 Max.

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT66-3-0-1800

Series
4300
4380

Size
3 × 3 × 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **3 x 3 x 13** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 75 mm (3")	DISCHARGE: 75 mm (3")	

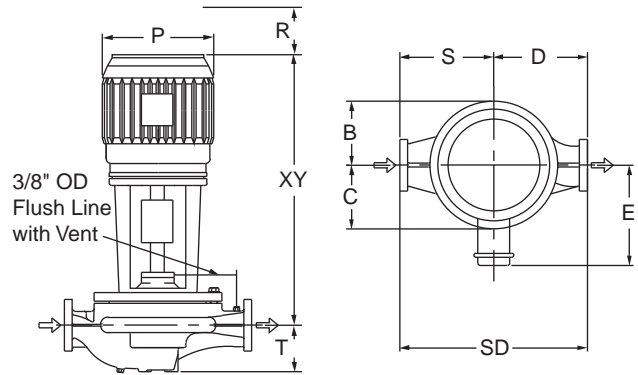
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



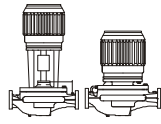
PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
222 (8.75)	210 (8.25)	305 (12.00)	343 (13.50)	648 (25.50)	168 (6.63)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	737 (29.03)	188.9 (416)	199.8 (440)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	804 (31.65)	224.7 (495)	263.3 (580)
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	804 (31.65)	231.5 (510)	263.3 (580)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	929 (36.59)	288.3 (635)	308.7 (680)
30	---	---	---	284TSC	305 (12.00)	389 (15.31)	100 (4.00)	1102 (43.41)	324.6 (715)	---
40	---	30	---	286TSC	305 (12.00)	389 (15.31)	100 (4.00)	1102 (43.41)	324.6 (715)	349.6 (770)
50	---	40	---	324TSC	353 (13.91)	432 (17.00)	110 (4.00)	1142 (44.97)	392.7 (865)	408.6 (900)
60	---	50	---	326TSC	353 (13.91)	432 (17.00)	110 (4.00)	1142 (44.97)	392.7 (865)	472.2 (1040)
75	---	60	---	364TSC	418 (16.44)	483 (19.03)	110 (4.00)	1150 (45.28)	469.4 (1034)	472.2 (1040)
100	---	75	---	365TSC	418 (16.44)	483 (19.03)	110 (4.00)	1150 (45.28)	467.6 (1030)	640.1 (1410)
---	---	100	---	405TSC	449 (17.69)	544 (21.41)	120 (5.00)	1198 (47.16)	---	853.5 (1880)

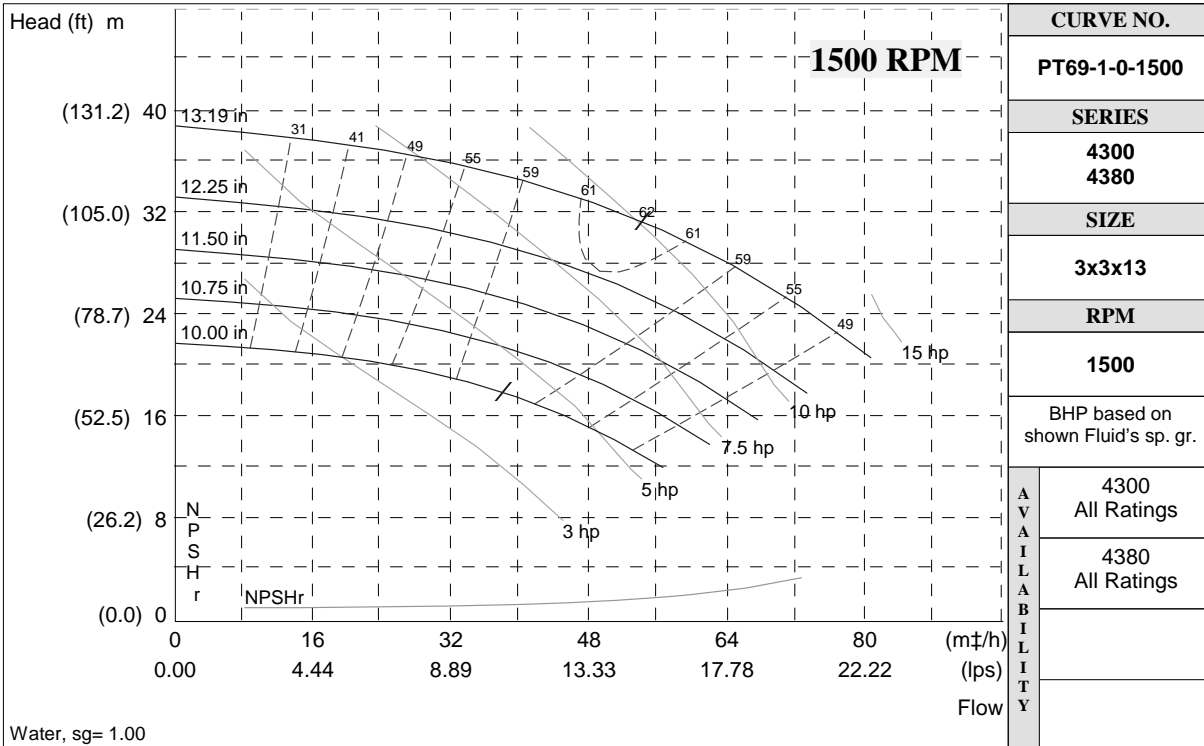
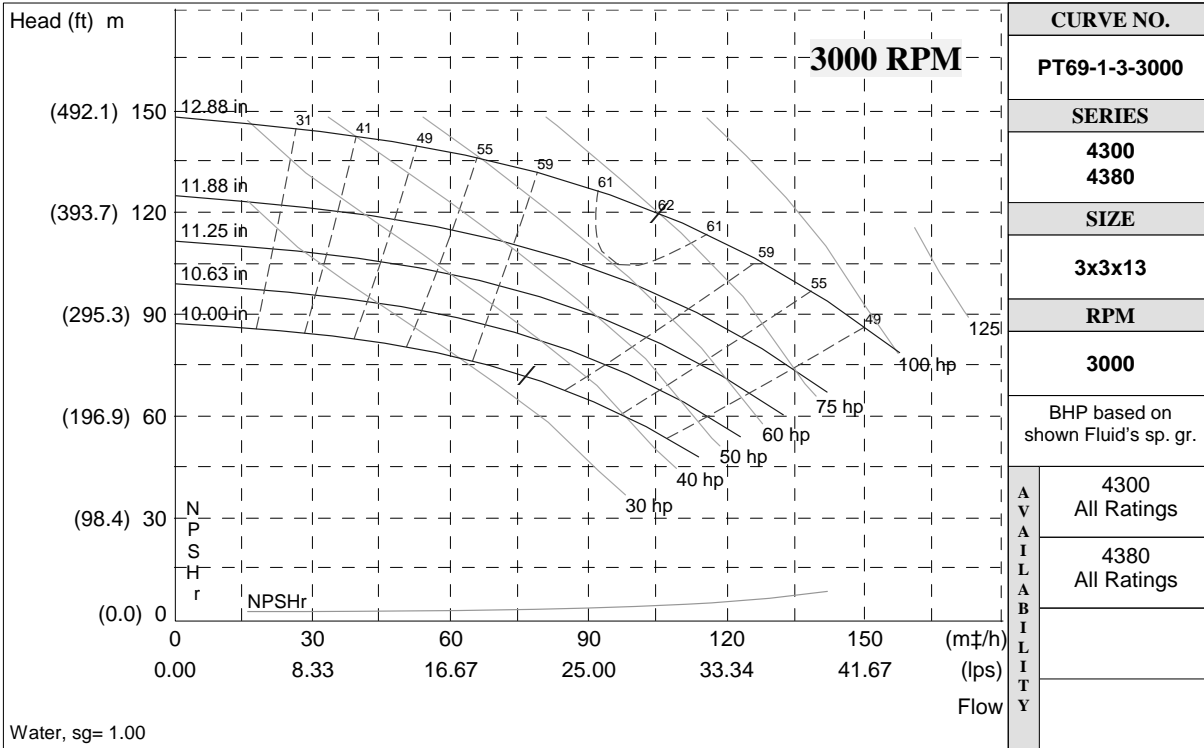
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE 3×3×13 | SUBMITTAL

File No: 43-539
Date: NOV. 26, 2014
Supersedes: 43-539
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: 3" (75 MM) Discharge: 3" (75 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

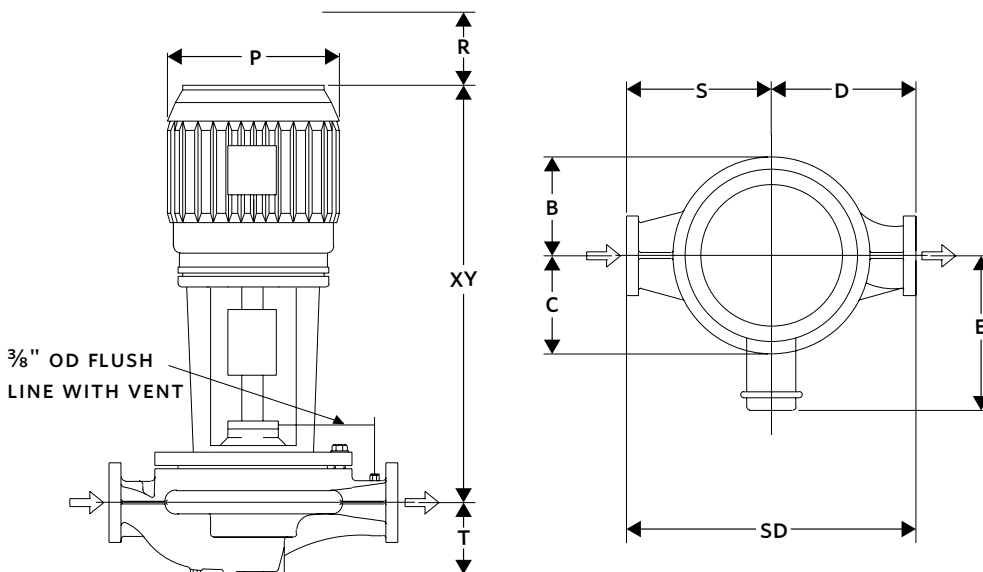
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				ODP	TEFC
	3600	1800	1200	3600	1800	1200	E	P	R	XY		
184TC	—	—	2	—	—	2	7.50 (191)	10.38 (264)	4.00 (90)	29.03 (737)	396 (179.6)	423 (191.9)
213TC	—	7.5	3	—	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	31.65 (804)	445 (201.8)	495 (224.5)
215TC	—	10	5	—	10	5	8.25 (210)	12.13 (308)	4.00 (100)	31.65 (804)	460 (208.7)	502 (227.7)
254TC	—	15	7.5	—	15	7.5	9.94 (252)	13.38 (340)	5.00 (110)	36.59 (929)	587 (266.3)	621 (281.7)
256TC	—	20	—	—	20	—	9.94 (252)	13.38 (340)	5.00 (110)	36.59 (929)	630 (285.8)	654 (296.6)
284TC	—	25	—	—	25	—	12.00 (305)	15.31 (389)	5.00 (110)	43.41 (1102)	718 (325.7)	821 (372.4)
324TSC	50	—	—	—	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.97 (1142)	900 (408.2)	—
326TSC	60	—	—	50	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.97 (1142)	974 (441.8)	947 (429.6)
364TSC	75	—	—	60	—	—	16.44 (418)	19.03 (483)	4.00 (110)	45.28 (1150)	1145 (519.4)	1332 (604.2)
365TSC	100	—	—	75	—	—	16.44 (418)	19.03 (483)	4.00 (110)	45.28 (1150)	1249 (566.5)	1365 (619.2)
404TSC	125	—	—	—	—	—	17.69 (449)	21.41 (544)	5.00 (120)	47.16 (1198)	1395 (632.8)	—
405TSC	—	—	—	100	—	—	17.69 (449)	21.41 (544)	5.00 (120)	47.16 (1198)	—	1537 (697.2)

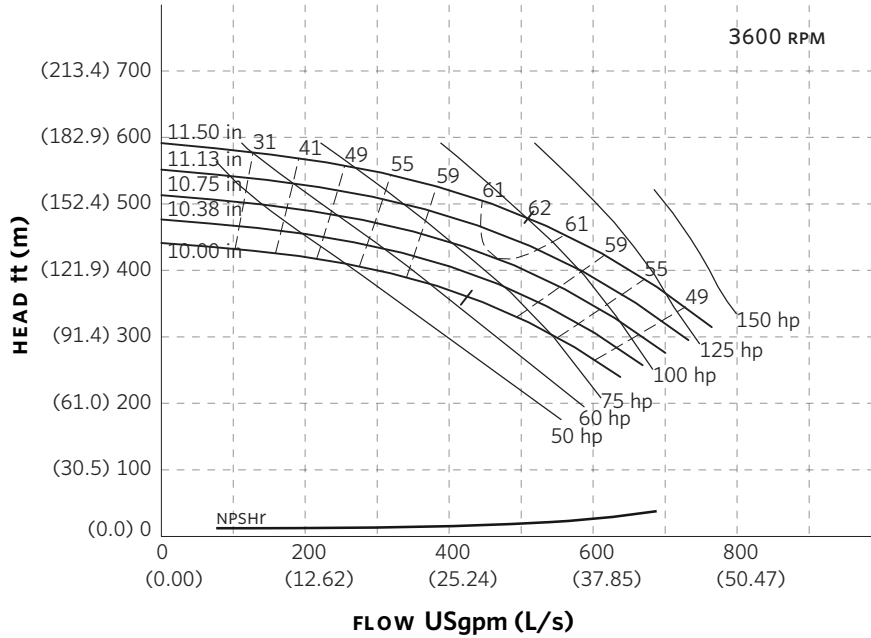
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
8.75 (222)	8.25 (210)	12.00 (305)	13.50 (343)	25.50 (648)	6.63 (168)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT69-1-46-3600

Series
4300
4380

Size
3 × 3 × 13

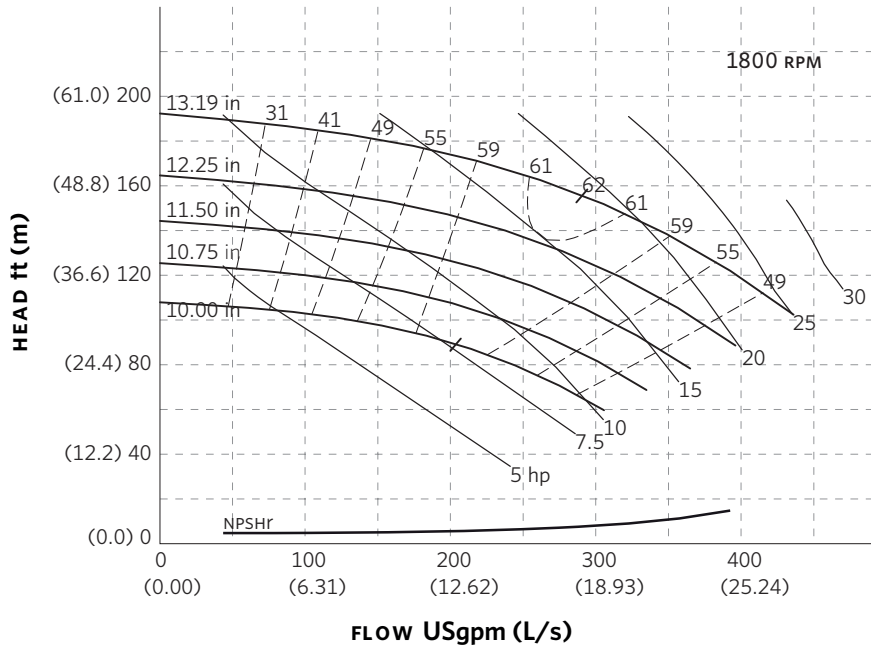
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

4 x 4 x 6

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 100 mm (4")	DISCHARGE: 100 mm (4")	

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				

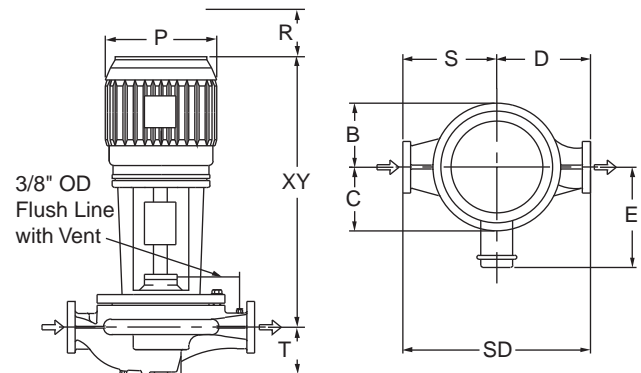
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

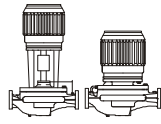


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
175 (6.88)	140 (5.50)	254 (10.00)	305 (12.00)	559 (22.00)	203 (8.00)	

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	F	R	H	ODP	TEFC
---	1	---	1	143TC	155 (6.09)	219 (8.63)	80 (3.00)	566 (22.28)	97.6 (215)	97.6 (215)
3	1.5 & 2	---	1.5 & 2	145TC	155 (6.09)	219 (8.63)	80 (3.00)	566 (22.28)	97.6 (215)	97.6 (215)
5	---	---	---	182TC	191 (7.50)	264 (10.38)	90 (4.00)	680 (26.79)	104.4 (230)	109.0 (240)
7.5	---	5	---	184TC	191 (7.50)	264 (10.38)	90 (4.00)	680 (26.79)	109.0 (240)	113.5 (250)
---	---	7.5	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	---	129.3 (285)
10 & 15	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	127.1 (280)	136.2 (300)
---	---	15	---	254TC	252 (9.94)	340 (13.38)	110 (5.00)	871 (34.29)	---	168.0 (370)

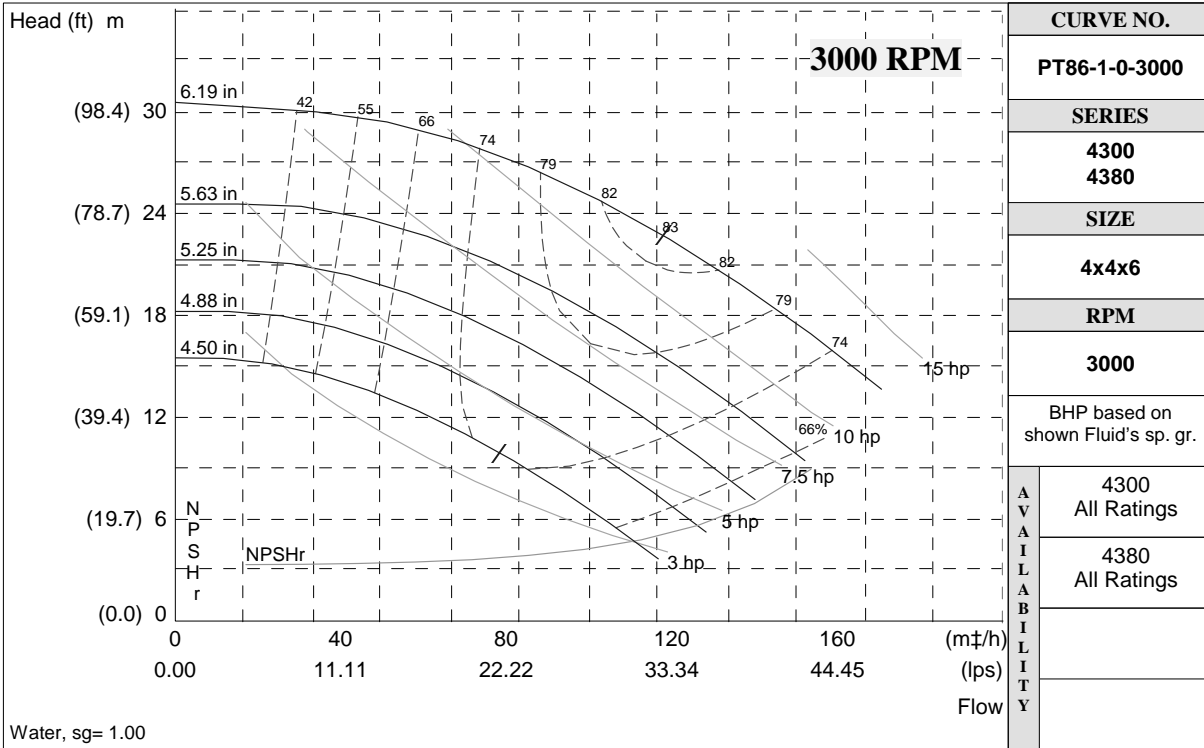
*Assembly weight combines pump and motor.

ARMSTRONG

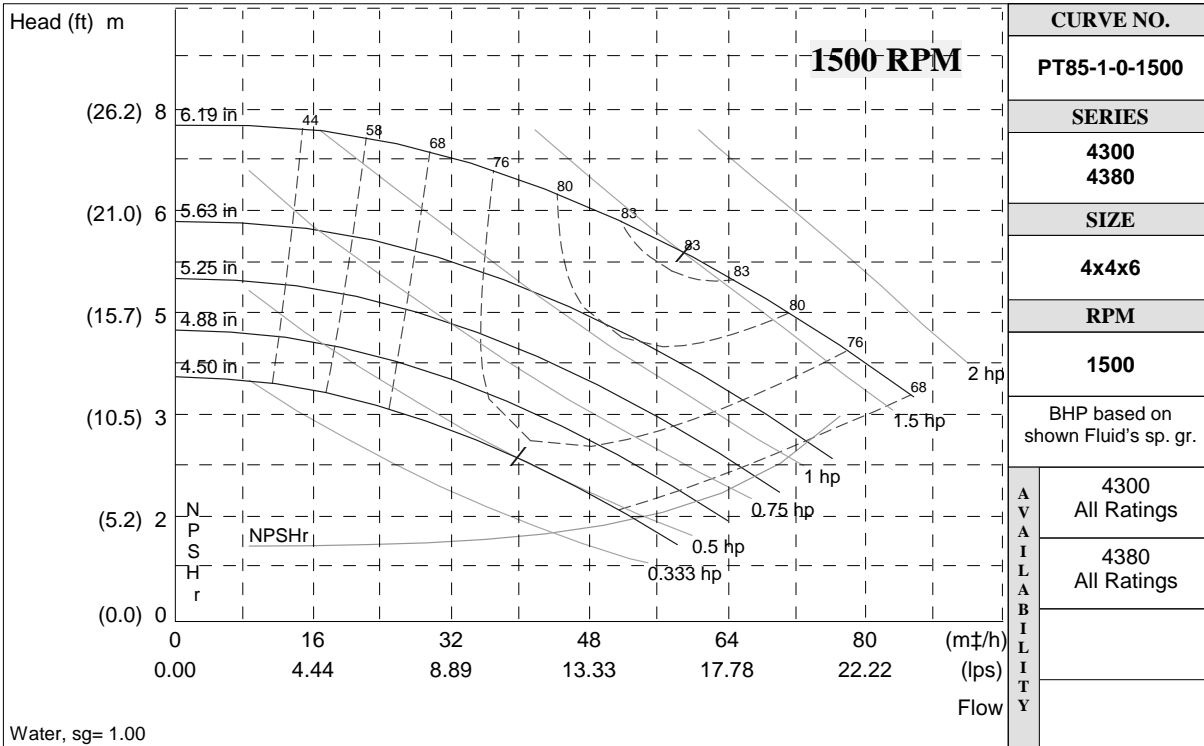


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT86-1-0-3000
SERIES	4300 4380
SIZE	4x4x6
RPM	3000
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings
Flow	



CURVE NO.	PT85-1-0-1500
SERIES	4300 4380
SIZE	4x4x6
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings
Flow	

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SERIES 4300 | VERTICAL IN-LINE

4x4x6 | SUBMITTAL

File No: 43.507
 Date: NOV. 26, 2014
 Supersedes: 43.507
 Date: JAN. 28 2013

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: 4" (100 mm) Discharge: 4" (100 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

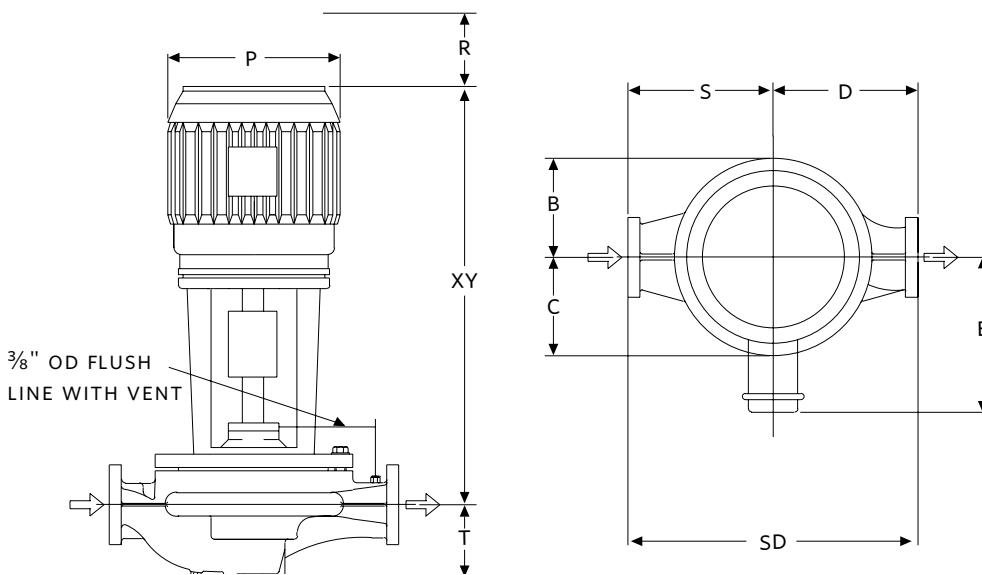
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	3000	1500	3000	1500	E	P	R	XY	ODP	TEFC
143TC	—	1	—	1	6.09 (155)	8.63 (219)	3.00 (80)	22.28 (566)	227 (103.0)	234 (106.1)
145TC	—	1.5 & 2	—	1.5 & 2	6.09 (155)	8.63 (219)	3.00 (80)	22.28 (566)	239 (108.4)	—
182TC	—	3	—	3	7.50 (191)	10.38 (264)	4.00 (90)	26.79 (680)	237 (107.5)	279 (126.6)
184TC	7.5	—	—	—	7.50 (191)	10.38 (264)	4.00 (90)	26.79 (680)	249 (112.9)	294 (133.4)
213TC	10	—	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	315 (142.9)	314 (142.4)
215TC	15	—	10	—	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	320 (145.1)	353 (160.1)
254TC	20	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.29 (871)	395 (179.2)	460 (208.7)
256TC	25	—	20	—	9.94 (252)	13.38 (340)	5.00 (110)	34.29 (871)	450 (204.1)	493 (223.6)

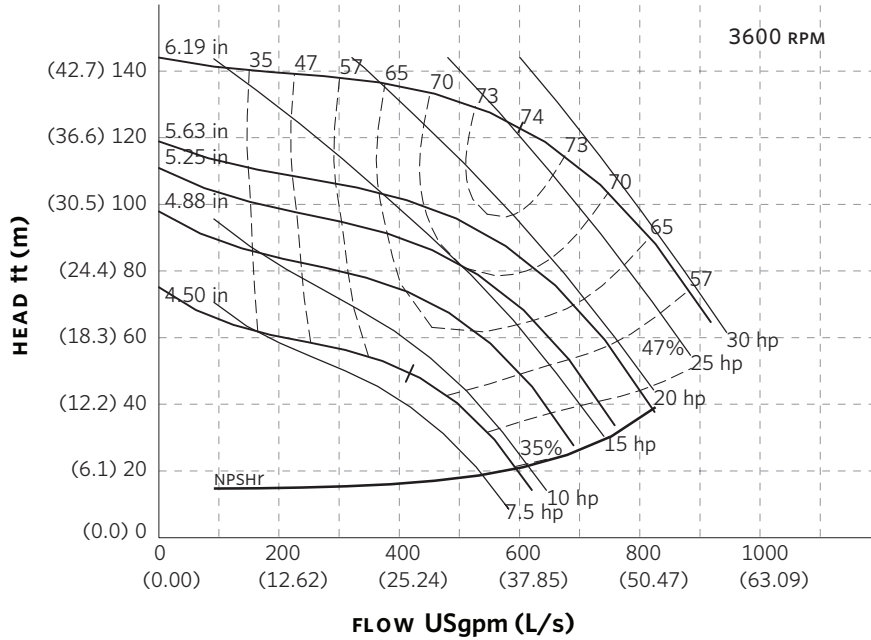
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
6.88 (175)	5.50 (140)	10.00 (254)	12.00 (305)	22.00 (559)	8.00 (203)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT86-3-0-3600

Series
4300
4380

Size
4 × 4 × 6

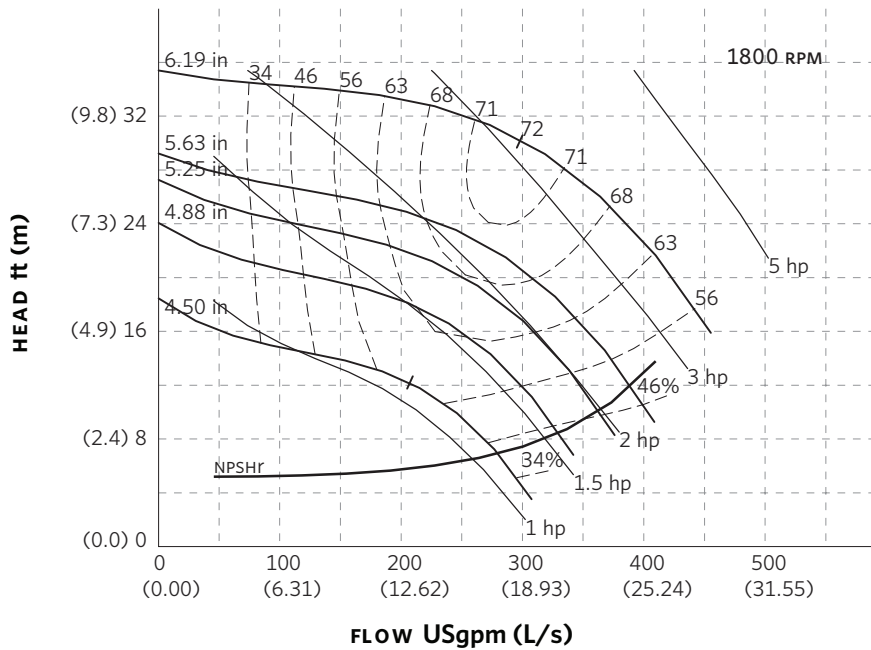
RPM
3600

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
PT85-3-0-1800

Series
4300
4380

Size
4 × 4 × 6

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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FENG XIAN DISTRICT, SHANGHAI
P.R.C.
201401
+86 21 3756 6696

**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

4 x 4 x 8

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 100 mm (4")	DISCHARGE: 100 mm (4")	

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				

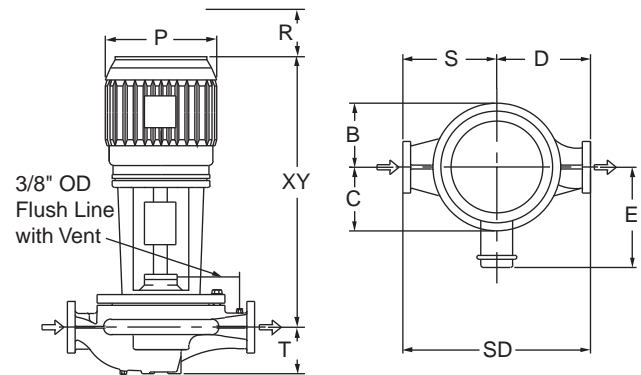
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

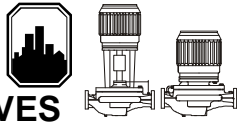
- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.



PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
203 (8.00)	160 (6.31)	279 (11.00)	356 (14.00)	635 (25.00)	203 (8.00)

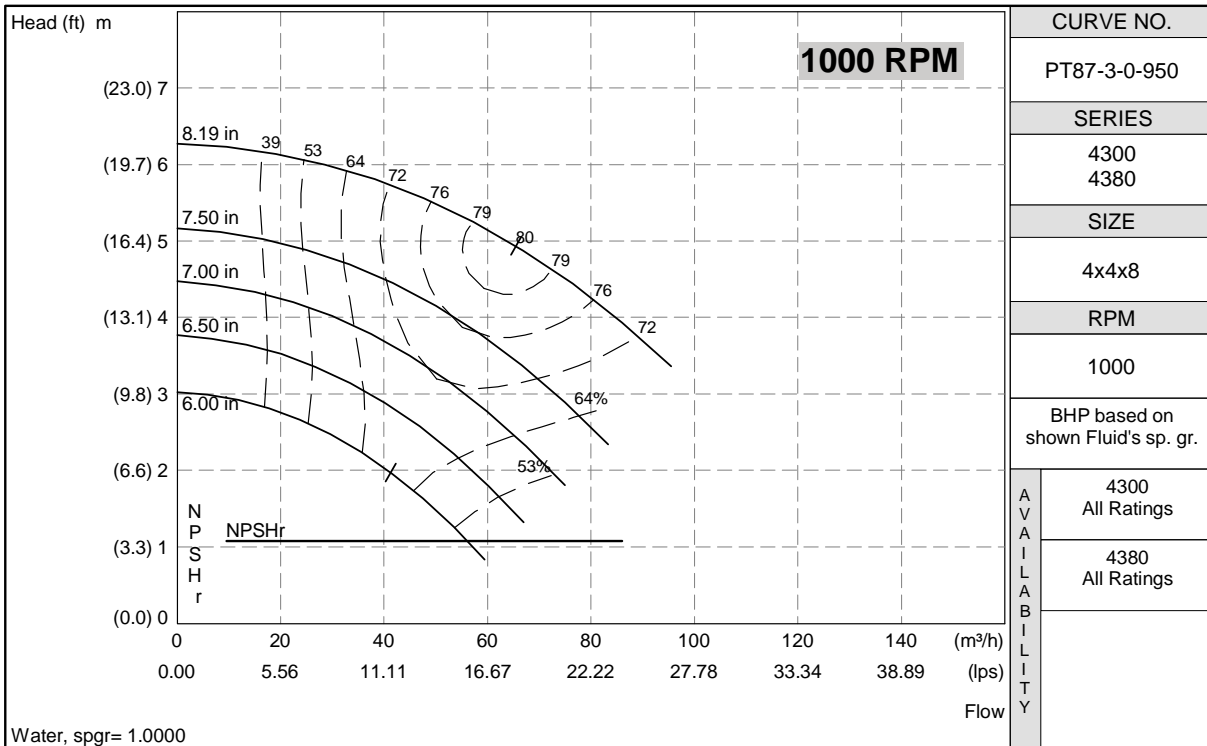
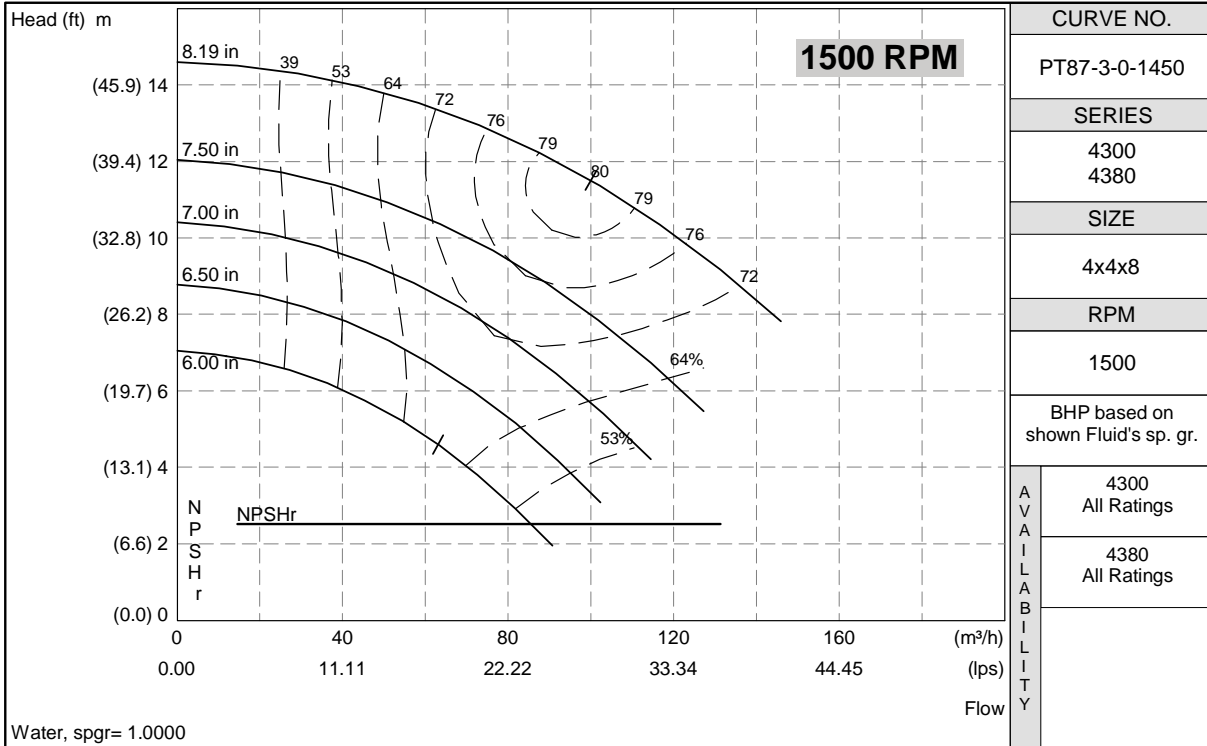
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	678 (26.69)	127.1 (280)	131.7 (290)
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	678 (26.69)	131.7 (290)	136.2 (300)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	745 (29.32)	145.3 (320)	152.1 (335)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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 F: (716) 693-8970

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 F: +44 (0) 8444 145 146



SERIES 4300 | VERTICAL IN-LINE

4x4x8 | SUBMITTAL

File No: 43-515
 Date: NOV. 26, 2014
 Supersedes: 43-515
 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: 4" (100 MM) Discharge: 4" (100 MM)

MOTOR DESIGN DATA

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

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.

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

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

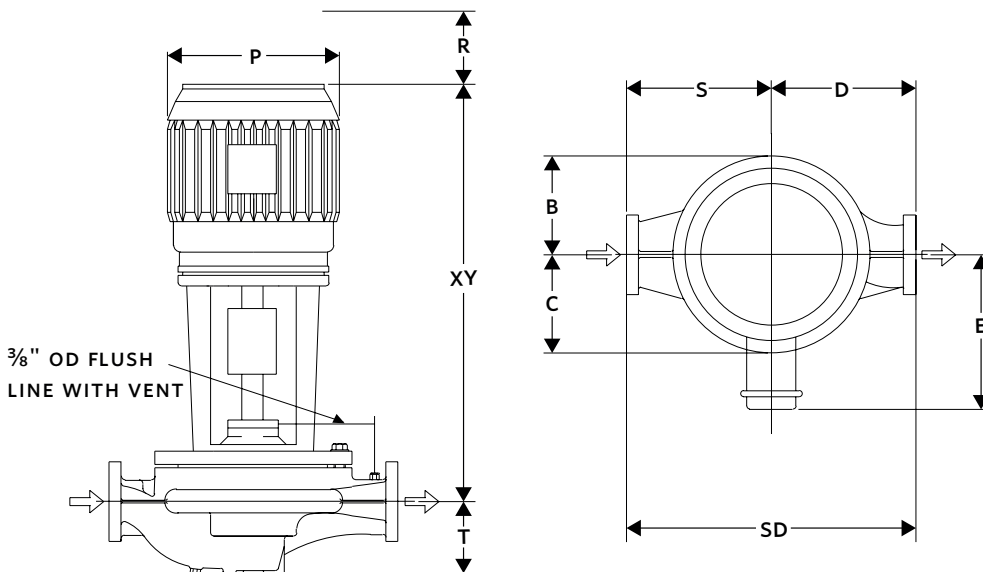
Gasket: Confined fiber

MOTOR FRAME	ODP		TEFC		DIMENSIONS INCHES (mm)				WEIGHT*	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
182TC	3	1.5	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.69 (678)	298 (135.2)	329 (149.2)
184TC	5	2	5	2	7.50 (191)	10.38 (264)	4.00 (90)	26.69 (678)	310 (140.6)	338 (153.3)
213TC	7.5	3	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	29.32 (745)	345 (156.5)	395 (179.2)
215TC	10	5	10	5	8.25 (210)	12.13 (308)	4.00 (100)	29.32 (745)	360 (163.3)	402 (182.3)
254TC	15	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.26 (870)	487 (220.9)	521 (236.3)

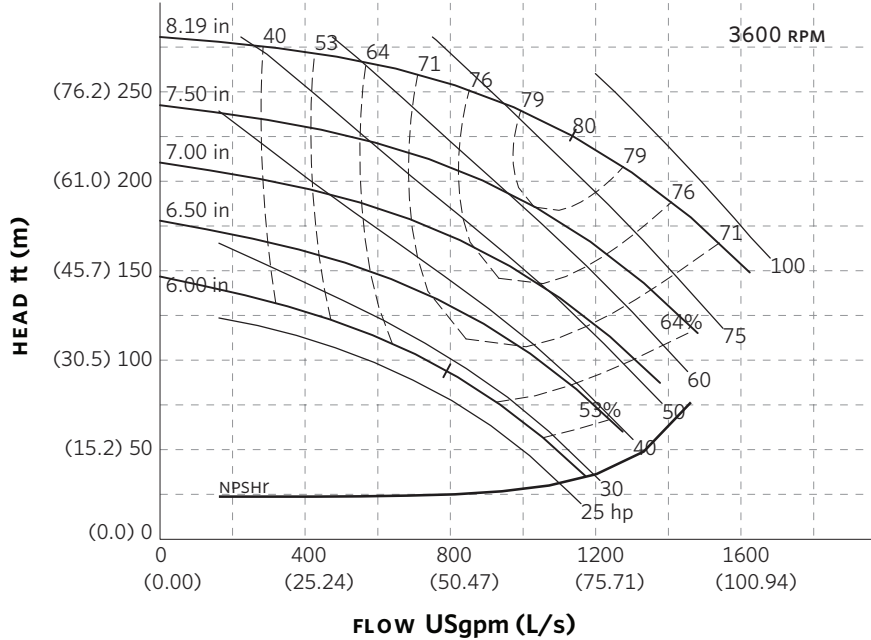
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
8.00 (203)	6.31 (160)	11.00 (279)	14.00 (356)	25.00 (635)	8.00 (203)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT88-2-0-3600

Series
4300
4380

Size
4 × 4 × 8

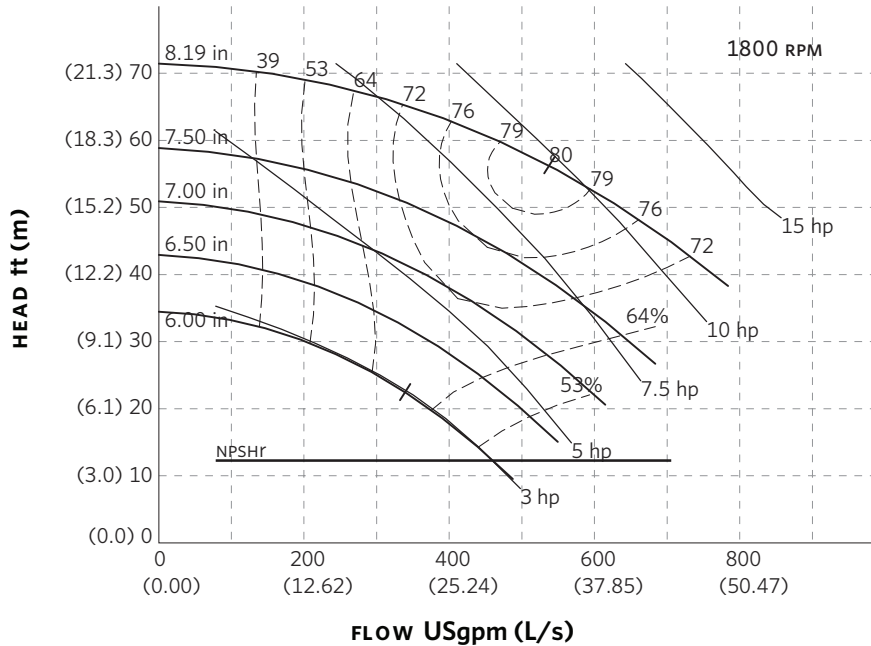
RPM
3600

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
PT87-3-0-1800

Series
4300
4380

Size
4 × 4 × 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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P.R.C.
201401
+86 21 3756 6696

**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **4 x 4 x 10** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 100 mm (4")	DISCHARGE: 100 mm (4")	

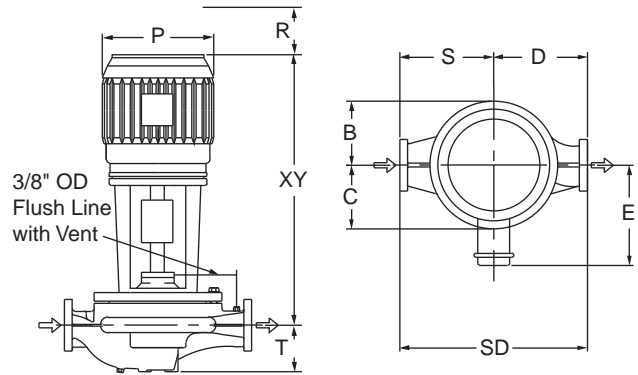
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

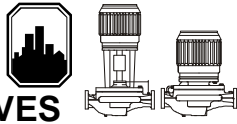


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
216 (8.50)	175 (6.88)	305 (12.00)	356 (14.00)	559 (26.00)	191 (7.50)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

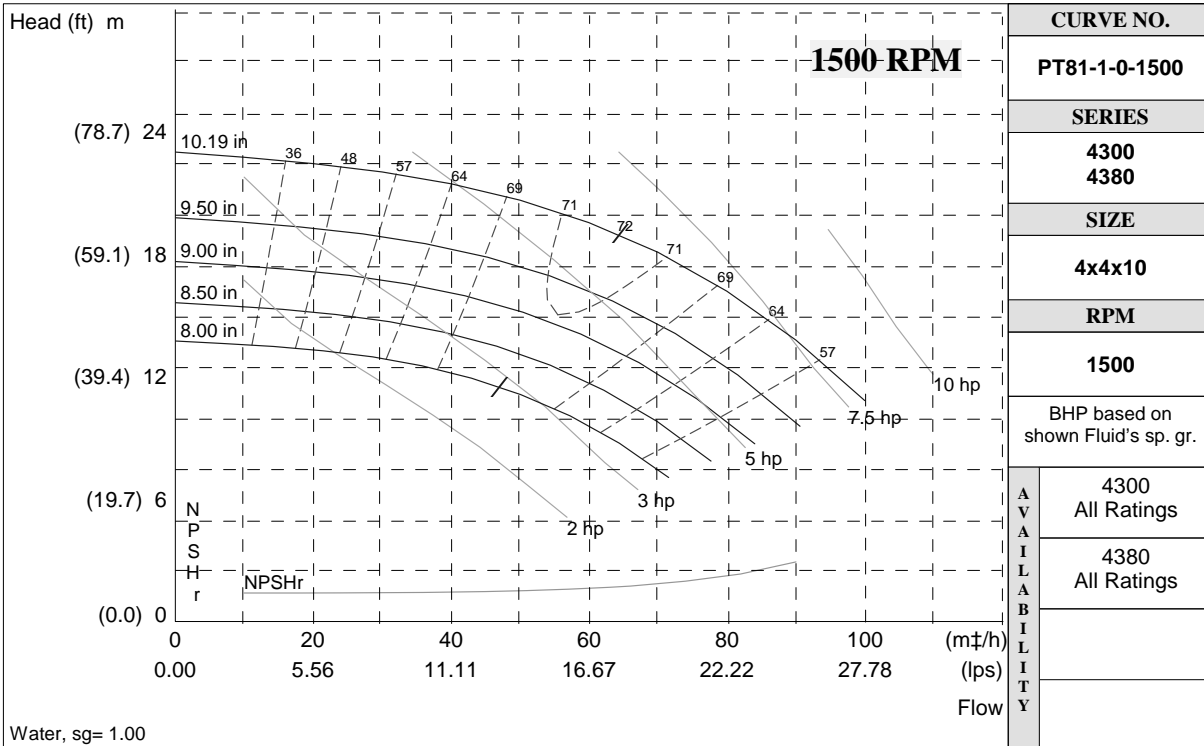
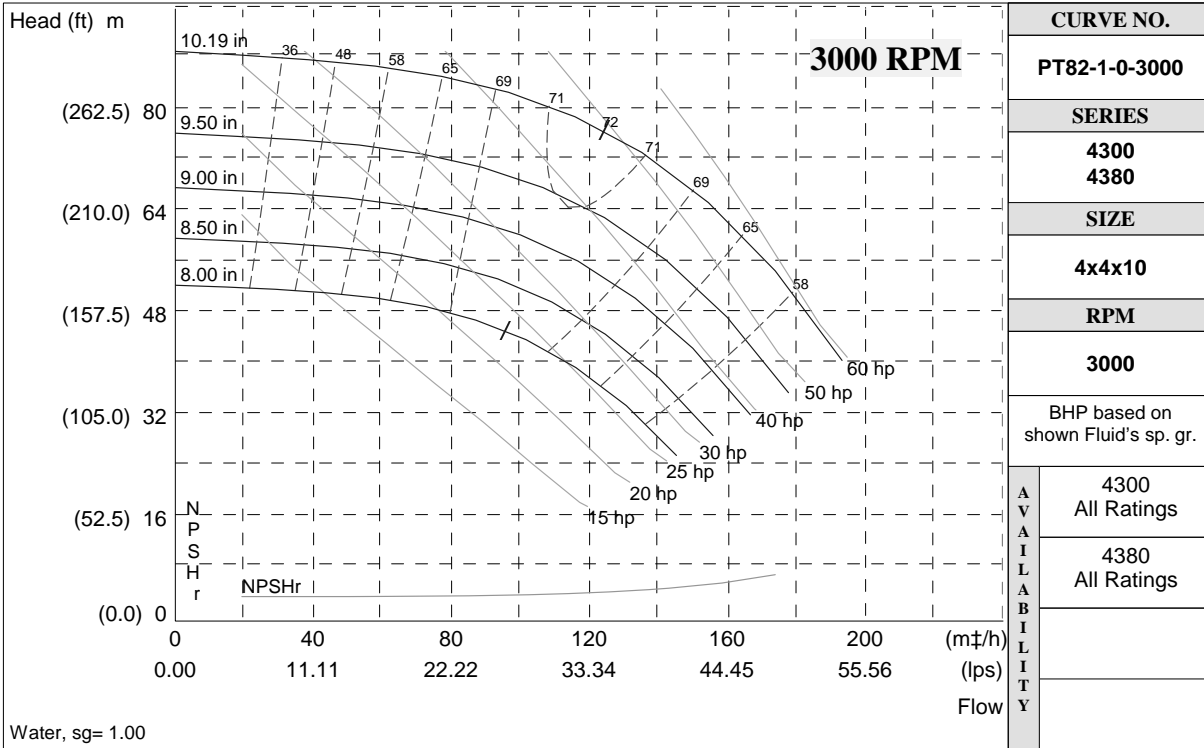
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	158.9 (350)	163.4 (360)
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	674 (26.54)	163.4 (360)	168.0 (370)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	177.1 (390)	183.9 (405)
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	741 (29.16)	181.6 (400)	190.7 (420)
20	---	---	---	254TC	226 (8.90)	340 (13.38)	110 (5.00)	866 (34.10)	204.3 (450)	---
25	---	20	---	256TC	226 (8.90)	340 (13.38)	110 (5.00)	866 (34.10)	208.8 (460)	240.6 (530)
30	---	25	---	284TSC	305 (12.00)	389 (15.31)	100 (4.00)	1101 (43.36)	240.6 (530)	258.8 (570)
40	---	30	---	286TSC	305 (12.00)	389 (15.31)	100 (4.00)	1101 (43.36)	249.7 (550)	267.9 (590)
50	---	40	---	324TSC	353 (13.91)	432 (17.00)	110 (4.00)	1125 (44.29)	320.1 (705)	399.5 (880)
60	---	50	---	326TSC	353 (13.91)	432 (17.00)	110 (4.00)	1125 (44.29)	333.7 (735)	429.0 (945)
---	---	60	---	364TSC	418 (16.44)	483 (19.03)	110 (4.00)	1082 (42.60)	---	485.8 (1070)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE 4×4×10 | SUBMITTAL

File No: 43-525
Date: NOV. 26, 2014
Supersedes: 43-525
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: 4" (100 MM) Discharge: 4" (100 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

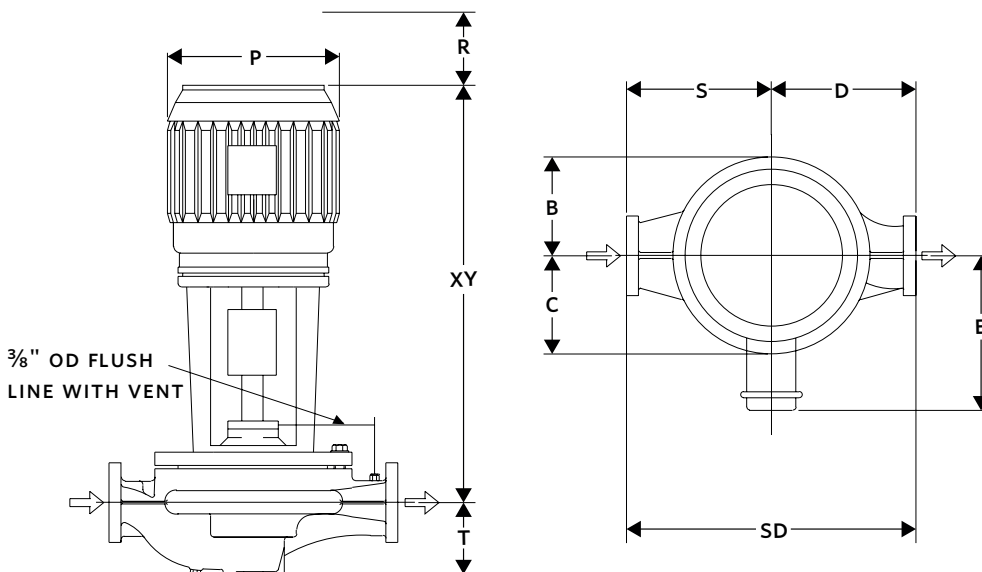
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				lbs (kgs)	
	3600	1800	1200	3600	1800	1200	E	P	R	XY	ODP	TEFC
182TC	—	—	1.5	—	—	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	400 (181.4)	385 (174.6)
184TC	—	5	2	—	5	2	7.50 (191)	10.38 (264)	4.00 (90)	26.54 (674)	380 (172.4)	408 (185.1)
213TC	—	7.5	3	—	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	415 (188.2)	465 (210.9)
215TC	—	10	5	—	10	5	8.25 (210)	12.13 (308)	4.00 (100)	29.16 (741)	430 (195.0)	472 (214.1)
254TC	—	15	—	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.10 (866)	557 (252.7)	591 (268.1)
284TSC	30	—	—	—	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	693 (314.3)	—
286TSC	40	—	—	30	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.36 (1101)	777 (352.4)	748 (339.3)
324TSC	50	—	—	40	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	880 (399.2)	881 (399.6)
326TSC	60	—	—	50	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.29 (1125)	954 (432.7)	927 (420.5)
364TSC	75	—	—	60	—	—	16.44 (418)	19.03 (483)	4.00 (110)	44.60 (1133)	1135 (514.8)	1322 (599.6)
365TSC	100	—	—	75	—	—	16.44 (418)	19.03 (483)	4.00 (110)	44.60 (1133)	1239 (562.0)	1355 (614.6)
405TSC	—	—	—	100	—	—	17.69 (449)	21.41 (544)	5.00 (120)	46.48 (1181)	—	1527 (692.6)

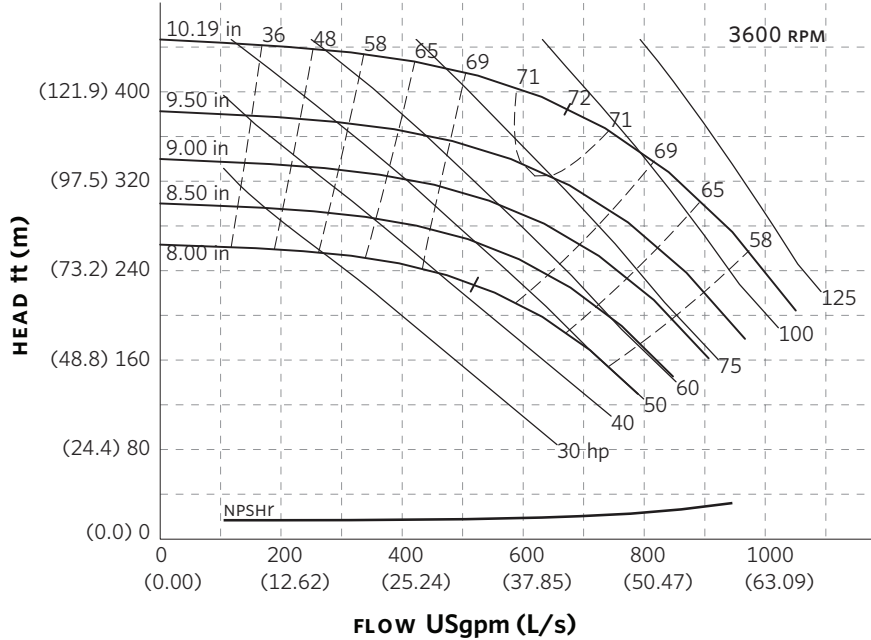
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
8.50 (216)	6.88 (175)	12.00 (305)	14.00 (356)	26.00 (660)	7.50 (191)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT82-1-0-3600

Series
4300
4380

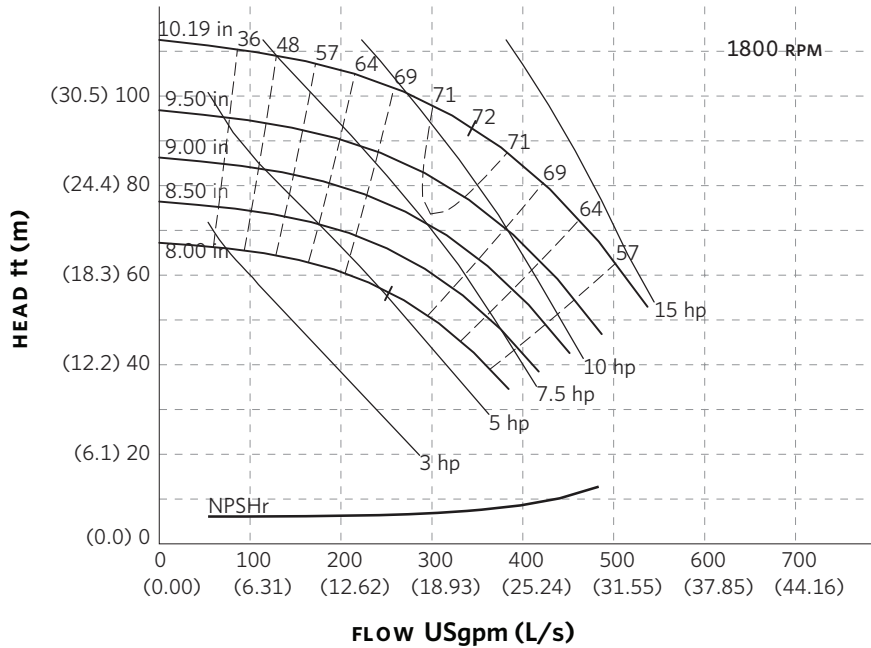
Size
4 × 4 × 10

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
PT81-1-0-1800

Series
4300
4380

Size
4 × 4 × 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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201401
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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **4 x 4 x 11.5** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 100 mm (4")	DISCHARGE: 100 mm (4")	

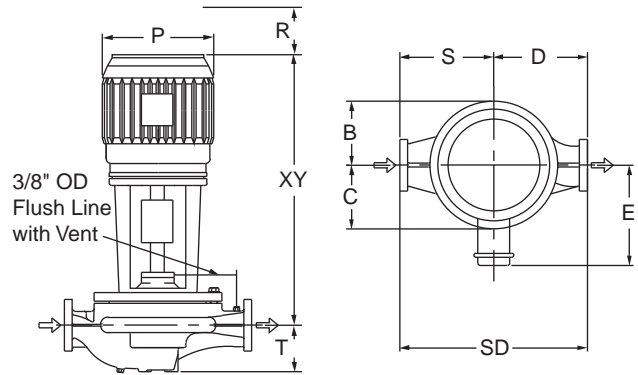
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



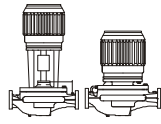
PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
207 (8.13)	188 (7.40)	324 (12.75)	387 (15.25)	711 (28.00)	195 (7.69)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	675 (26.59)	186.1 (410)	190.7 (420)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	742 (29.22)	199.8 (440)	206.6 (455)
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	742 (29.22)	204.3 (450)	213.4 (470)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	868 (34.16)	227.0 (500)	245.2 (540)

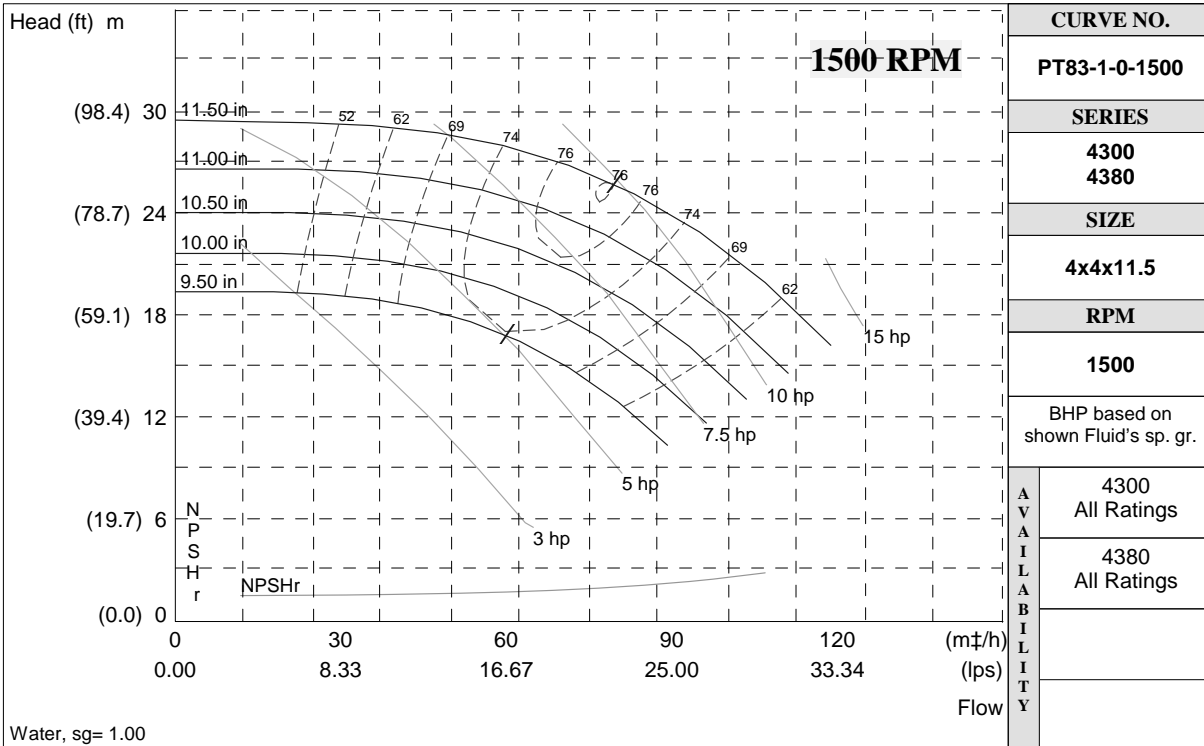
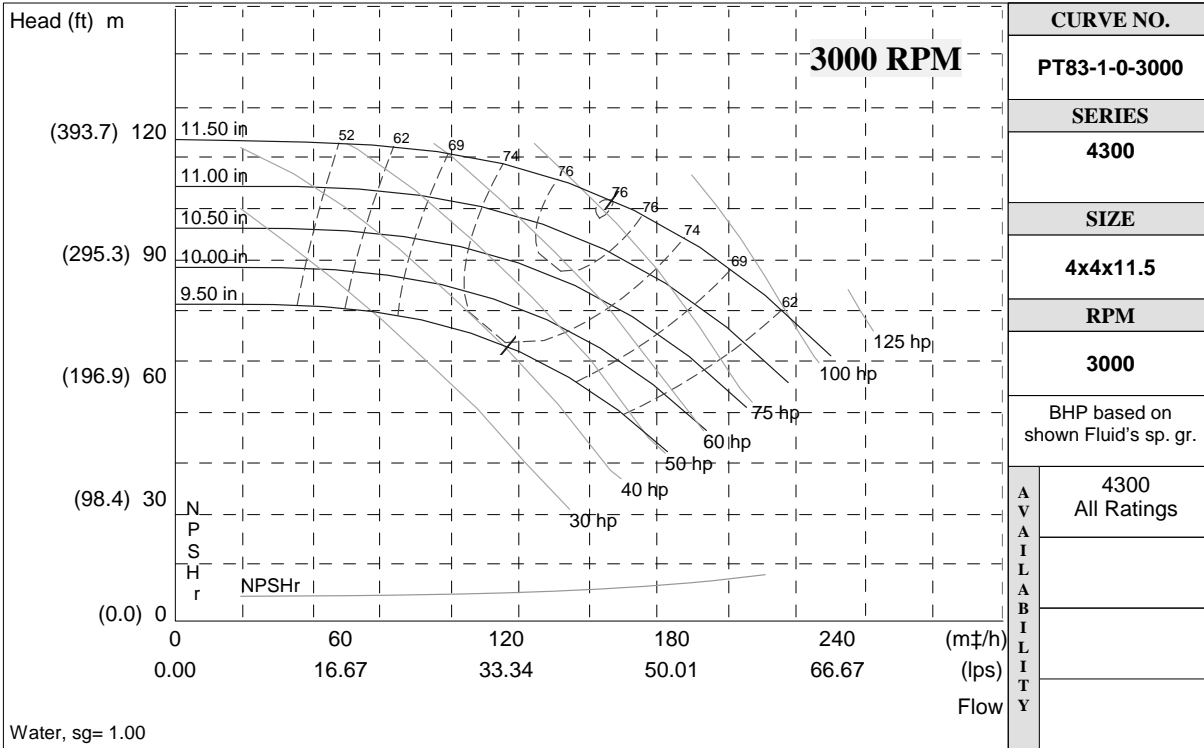
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

4×4×11.5 | SUBMITTAL

File No: 43-531
 Date: NOV. 26, 2014
 Supersedes: 43-531
 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: 4" (100 MM) Discharge: 4" (100 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

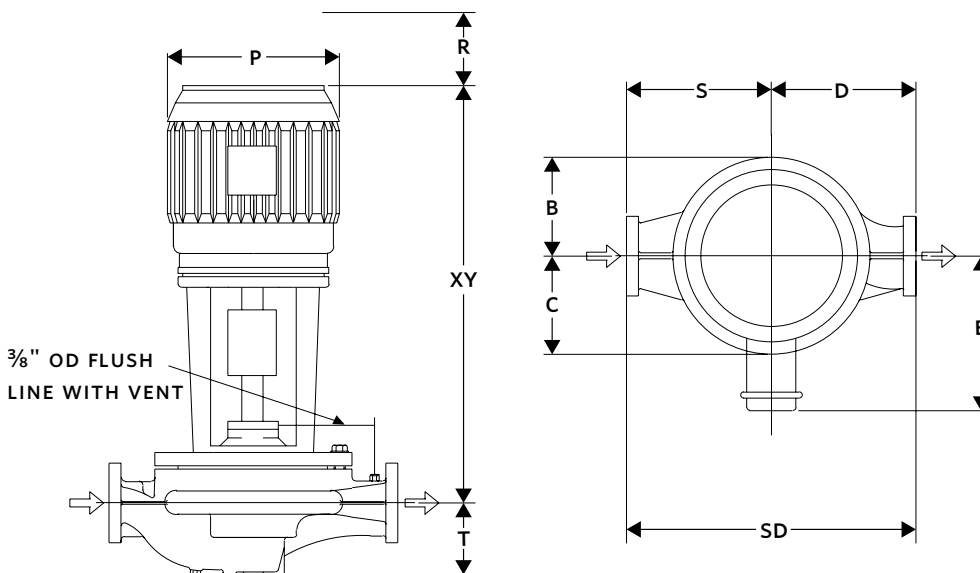
See file no. 43.50 for environmental accessories

MOTOR		DIMENSIONS INCHES (mm)								WEIGHT*	
FRAME	ODP		TEFC		ODP/ TEFC				lbs (kgs)		
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC	
184TC	—	2	—	2	7.50 (191)	10.38 (264)	4.00 (90)	26.59 (675)	450 (204.1)	435 (197.3)	
213TC	7.5	3	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	29.22 (742)	465 (210.9)	515 (233.6)	
215TC	10	5	10	5	8.25 (210)	12.13 (308)	4.00 (100)	29.22 (742)	480 (217.7)	522 (236.8)	
254TC	15	7.5	15	7.5	9.94 (252)	13.38 (340)	5.00 (110)	34.16 (868)	607 (275.3)	641 (290.8)	
256TC	20	—	20	—	9.94 (252)	13.38 (340)	5.00 (110)	34.16 (868)	650 (294.8)	674 (305.7)	
284TC	25	—	25	—	12.00 (305)	15.31 (389)	5.00 (130)	43.48 (1104)	738 (334.8)	841 (381.5)	

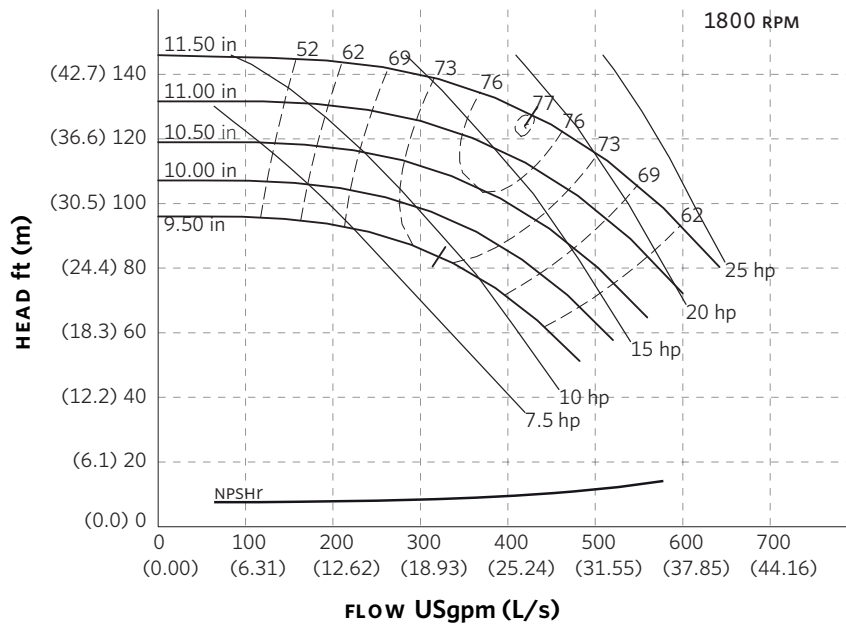
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
8.13 (207)	7.40 (188)	12.75 (324)	15.25 (387)	28.00 (711)	7.69 (195)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT83-1-0-1800

Series
4300
4380

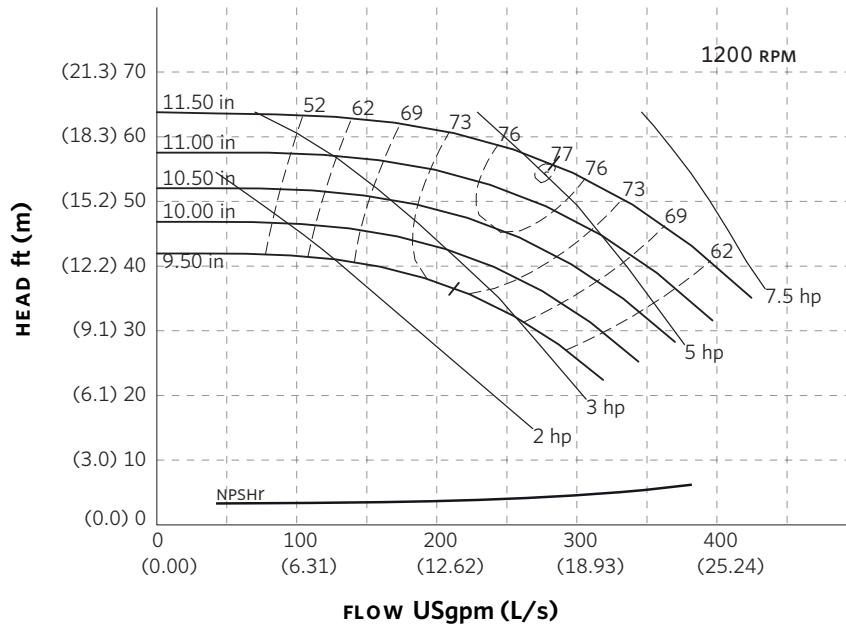
Size
4 × 4 × 11.5

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. 1.000



Curve number
PT83-1-0-1200

Series
4300
4380

Size
4 × 4 × 11.5

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. 1.000

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

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**MAKING
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MAKE
SENSE™**

Series 4300 Vertical In-Line **4 x 4 x 13** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

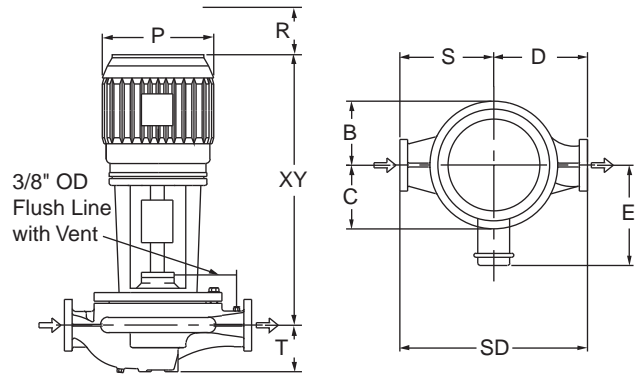
MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 100 mm (4")	DISCHARGE: 100 mm (4")	

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				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES



MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

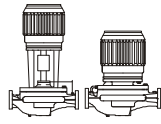
- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
234 (9.20)	210 (8.25)	343 (13.5)	394 (15.50)	737 (29.00)	205 (8.06)

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	804 (31.65)	242.6 (535)	263.0 (580)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	929 (36.59)	276.6 (610)	306.1 (675)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	929 (36.59)	294.8 (650)	312.9 (690)
---	25	---	25	284TC	305 (12.00)	389 (15.31)	130 (5.00)	1102 (43.41)	331.1 (730)	331.1 (730)
---	30	---	30	286TC	305 (12.00)	389 (15.31)	130 (5.00)	1102 (43.41)	331.1 (730)	344.7 (760)

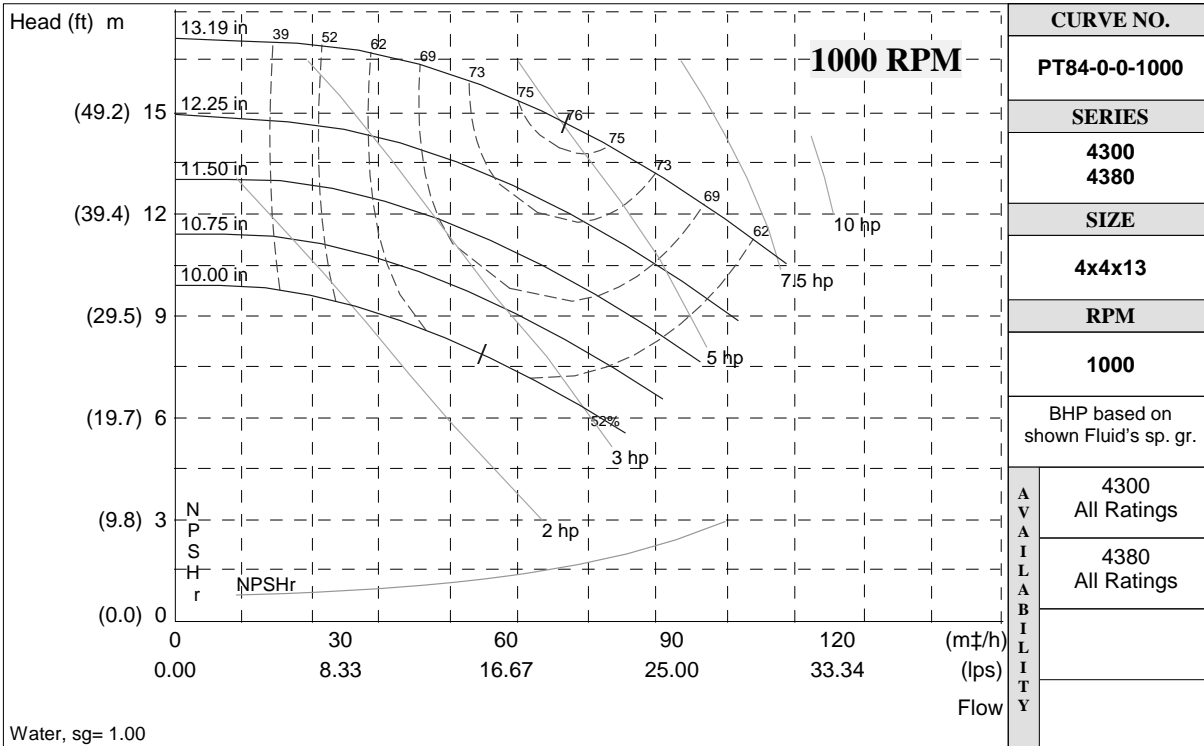
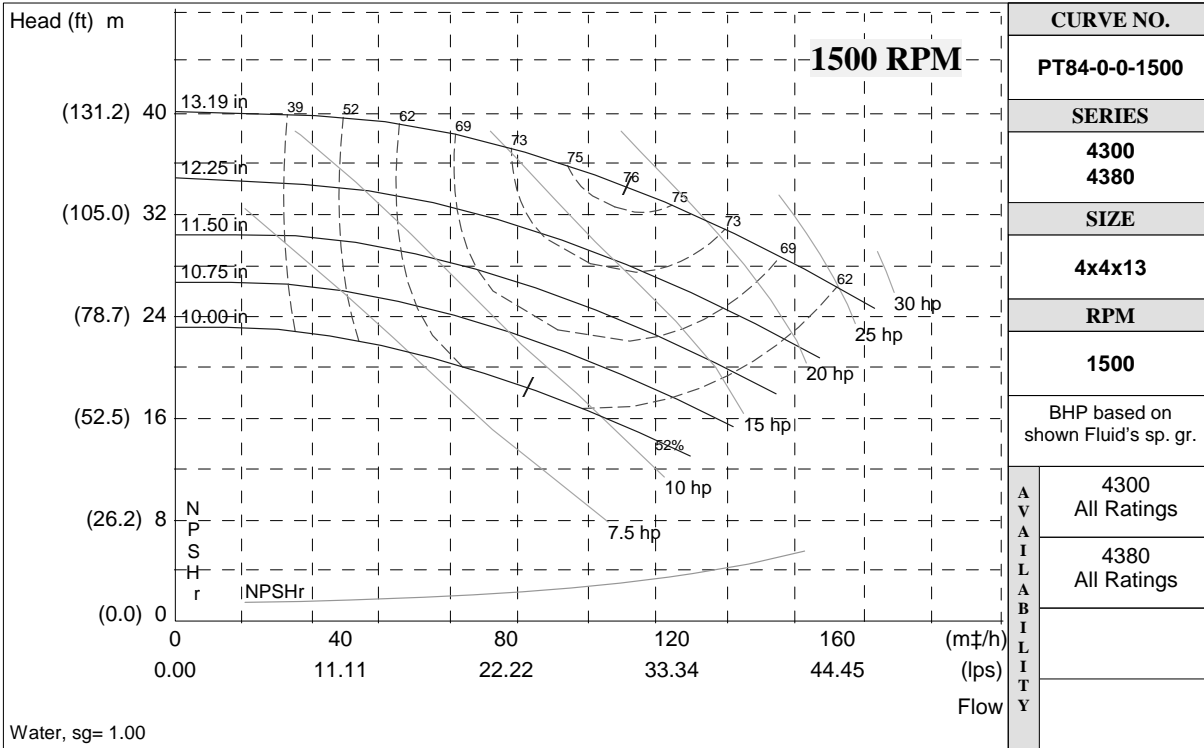
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

4×4×13 | SUBMITTAL

File No: 43-541
 Date: NOV. 26, 2014
 Supersedes: 43-541
 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: 4" (100 MM) Discharge: 4" (100 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

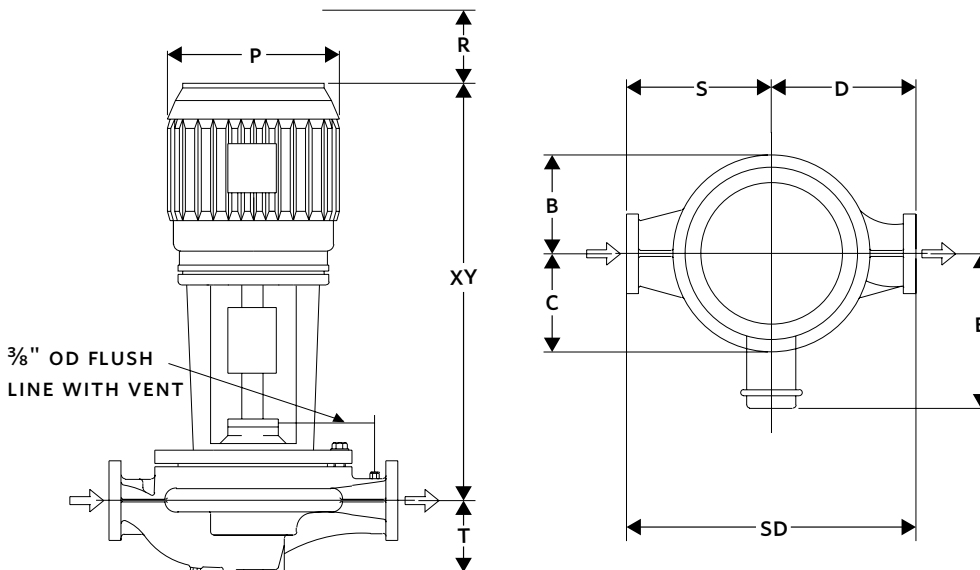
See file no. 43.50 for environmental accessories

MOTOR FRAME	DIMENSIONS INCHES (mm)				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
213TC	—	3	—	3	8.25 (210)	12.13 (308)	4.00 (100)	31.65 (804)	468 (212.3)	499 (226.3)
215TC	—	5	—	5	8.25 (210)	12.13 (308)	4.00 (100)	31.65 (804)	480 (217.7)	508 (230.4)
254TC	15	7.5	15	7.5	9.94 (252)	13.38 (340)	5.00 (110)	36.59 (929)	657 (298.0)	691 (313.4)
256TC	20	10	20	10	9.94 (252)	13.38 (340)	5.00 (110)	36.59 (929)	700 (317.5)	724 (328.4)
284TC	25	15	25	15	12.00 (305)	15.31 (389)	5.00 (130)	43.41 (1102)	788 (357.4)	891 (404.2)
286TC	30	—	30	—	12.00 (305)	15.31 (389)	5.00 (130)	43.41 (1102)	840 (381.0)	935 (424.1)
324TC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (150)	44.97 (1142)	985 (446.8)	1050 (476.3)
326TC	50	—	50	—	13.91 (353)	17.00 (432)	6.00 (150)	44.97 (1142)	1005 (455.9)	1288 (584.2)

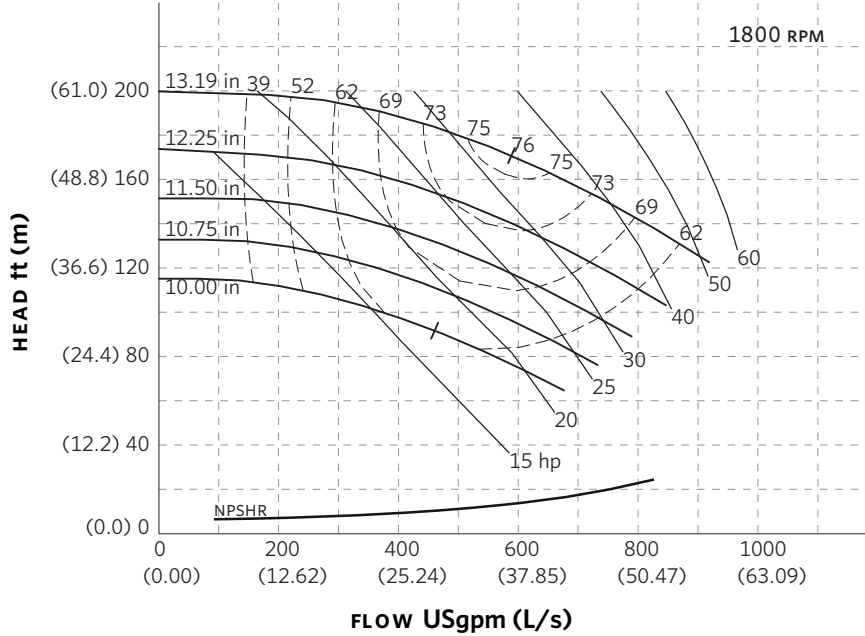
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
9.20 (234)	8.25 (210)	13.50 (343)	15.50 (394)	29.00 (737)	8.06 (205)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT84-0-0-1800

Series
4300
4380

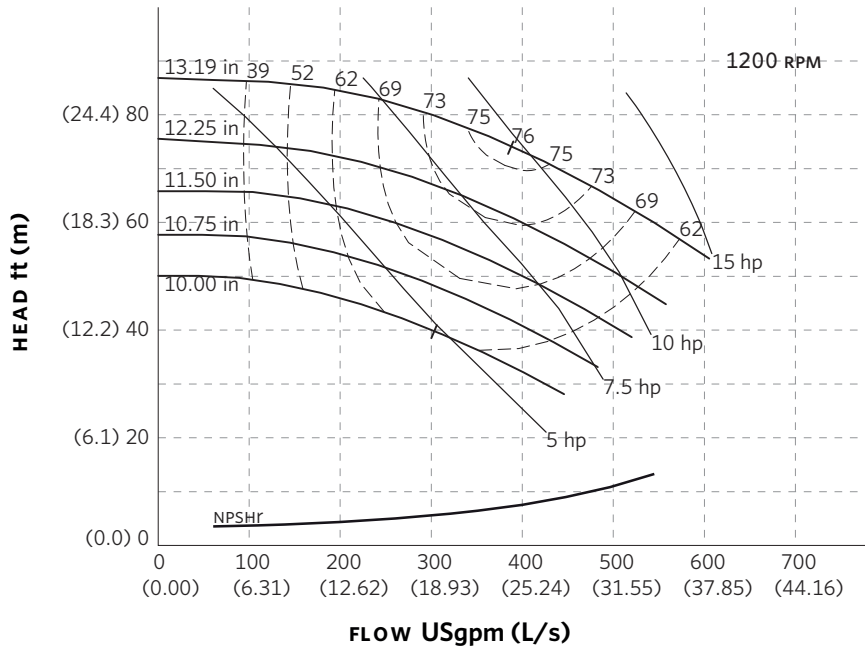
Size
4 × 4 × 13

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. 1.000



Curve number
PT84-0-0-1200

Series
4300
4380

Size
4 × 4 × 13

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **4 x 4 x 13L** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

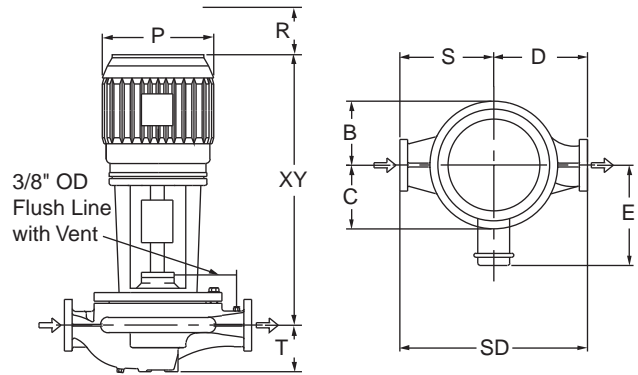
MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 100 mm (4")	DISCHARGE: 100 mm (4")	

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				

Mechanical Seal Design Data
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES



MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

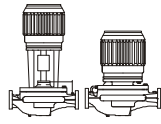
- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
234 (9.20)	210 (8.25)	343 (13.5)	394 (15.50)	737 (29.00)	205 (8.06)

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	804 (31.65)	235.8 (520)	256.2 (565)
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	804 (31.65)	242.6 (535)	263.0 (580)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	929 (36.59)	276.6 (610)	306.1 (675)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	929 (36.59)	294.8 (650)	312.9 (690)

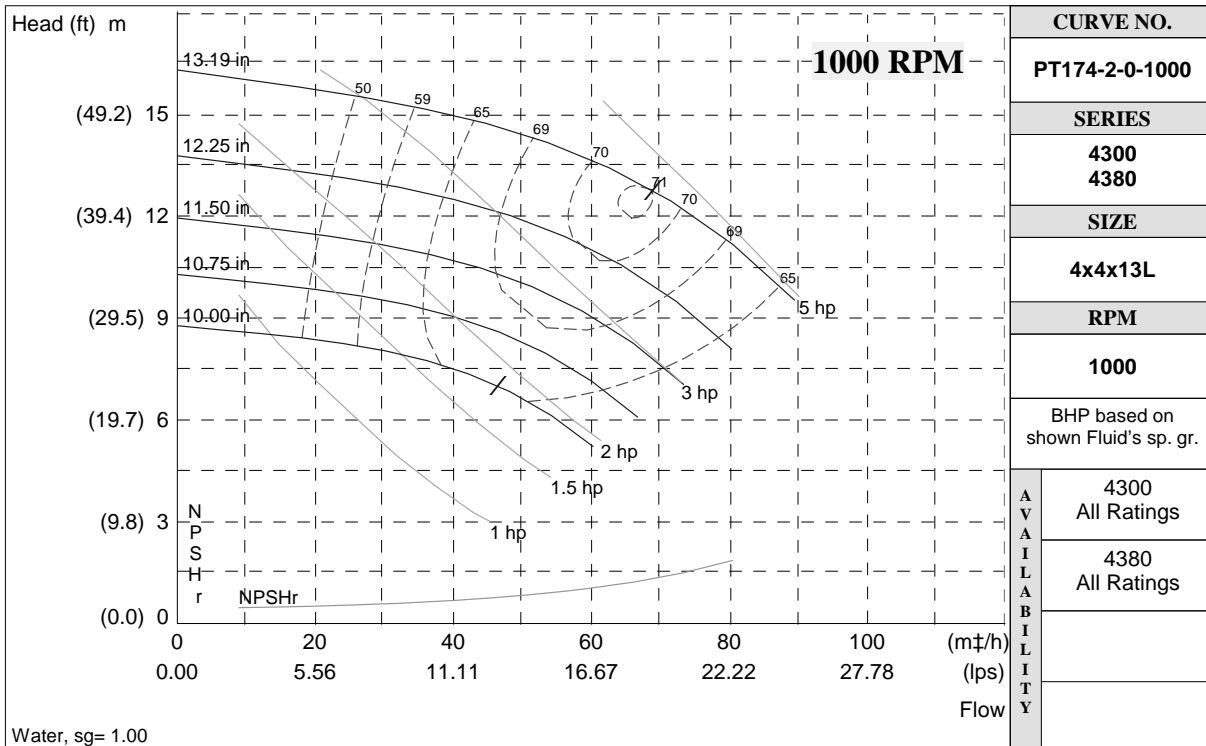
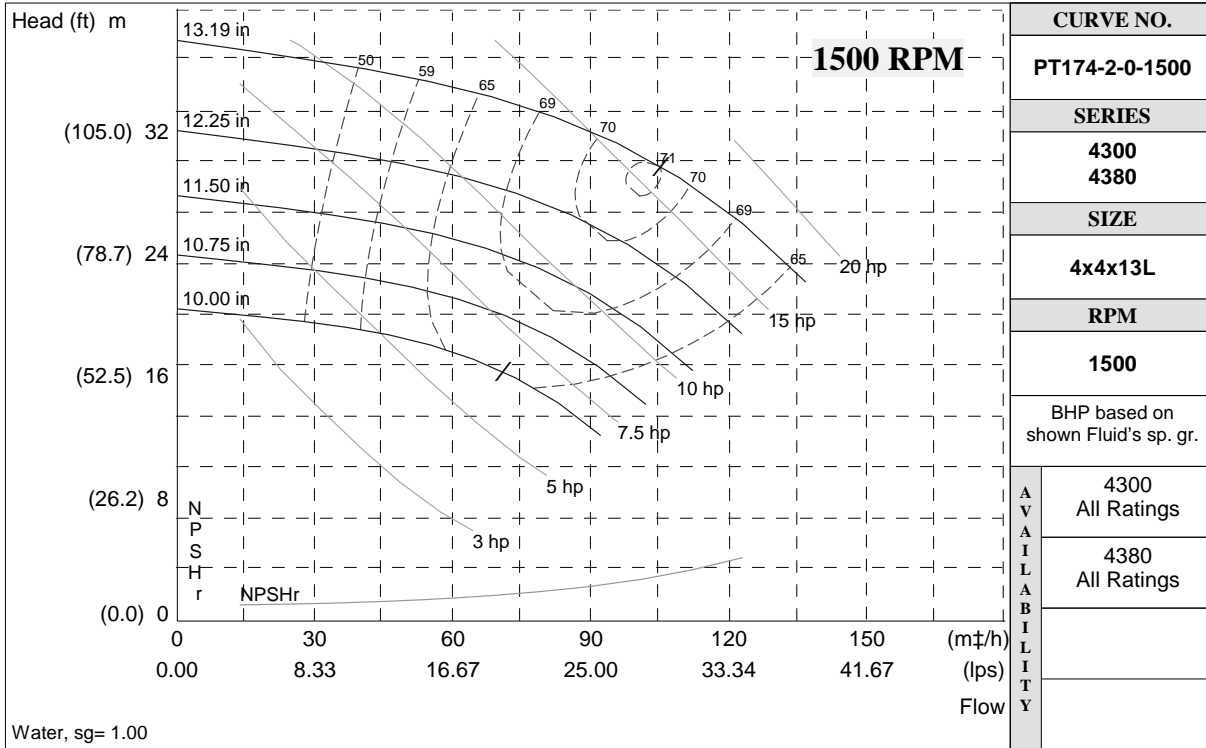
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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For Armstrong locations worldwide, please visit www.armstrongintegrated.com

SERIES 4300 | VERTICAL IN-LINE

4×4×13L | SUBMITTAL

File No: 43-543
 Date: NOV. 26, 2014
 Supersedes: 43-543
 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: 4" (100 MM) Discharge: 4" (100 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

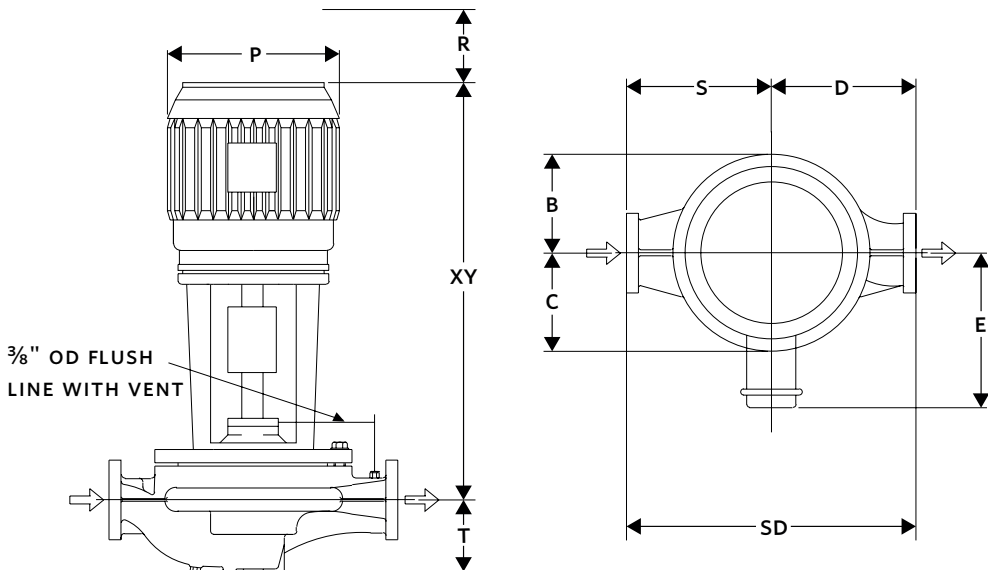
See file no. 43.50 for environmental accessories

MOTOR		DIMENSIONS INCHES (mm)								WEIGHT*	
FRAME	ODP		TEFC		ODP/ TEFC				lbs (kgs)		
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC	
213TC	—	3	—	3	8.25 (210)	12.13 (308)	4.00 (100)	31.65 (804)	468 (212.3)	499 (226.3)	
215TC	—	5	—	5	8.25 (210)	12.13 (308)	4.00 (100)	31.65 (804)	480 (217.7)	508 (230.4)	
254TC	15	7.5	15	7.5	9.94 (252)	13.38 (340)	5.00 (110)	36.59 (929)	657 (298.0)	691 (313.4)	
256TC	20	10	20	10	9.94 (252)	13.38 (340)	5.00 (110)	36.59 (929)	700 (317.5)	724 (328.4)	
284TC	25	—	25	—	12.00 (305)	15.31 (389)	5.00 (130)	43.41 (1102)	788 (357.4)	891 (404.2)	
286TC	30	—	30	—	12.00 (305)	15.31 (389)	5.00 (130)	43.41 (1102)	840 (381.0)	935 (424.1)	
324TC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (150)	44.97 (1142)	985 (446.8)	1050 (476.3)	

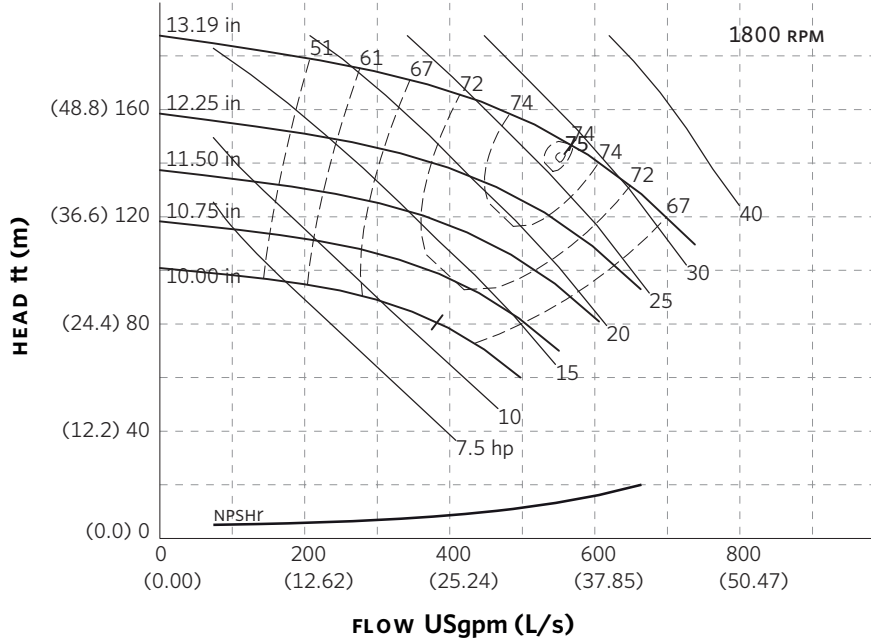
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
9.20 (234)	8.25 (210)	13.50 (343)	15.50 (394)	29.00 (737)	8.06 (205)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT174-2-0-1800

Series
4300
4380

Size
4 × 4 × 13L

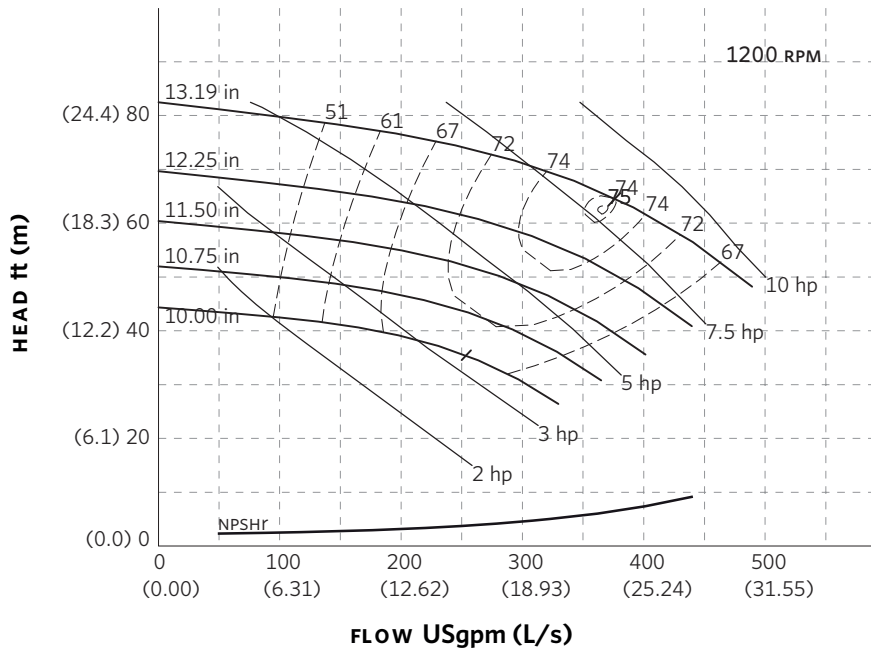
RPM
1800

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. 1.000



Curve number
PT174-2-0-1200

Series
4300
4380

Size
4 × 4 × 13L

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line 5 x 5 x 8 SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 125 mm (5")	DISCHARGE: 125 mm (5")	

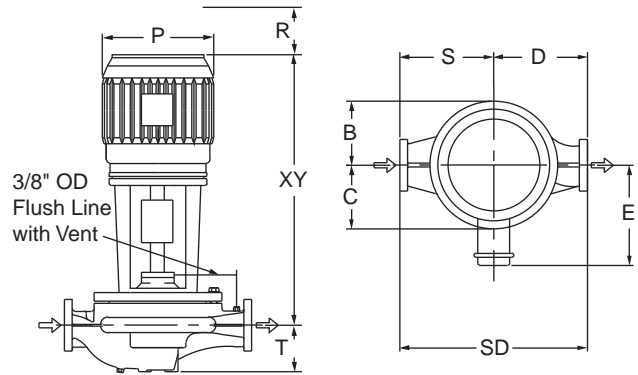
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

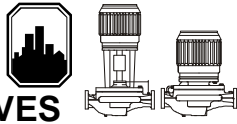


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
184 (7.25)	159 (6.25)	305 (12.00)	330 (13.00)	635 (25.00)	202 (7.94)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

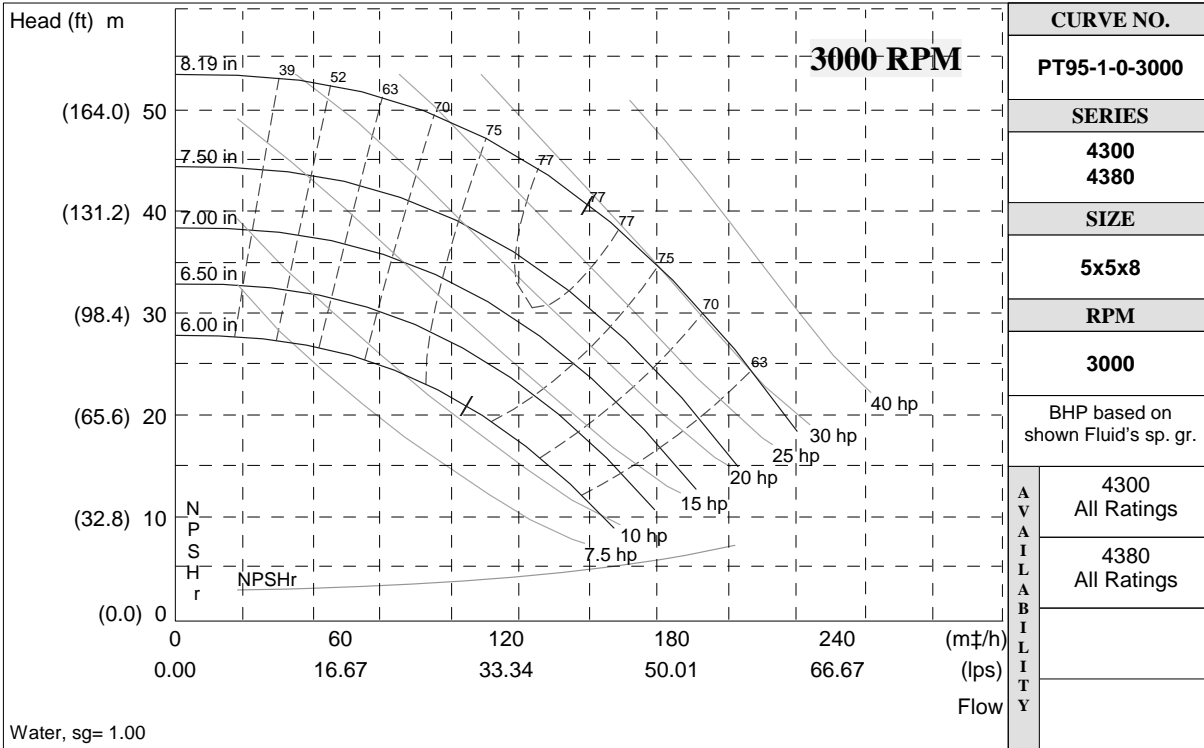
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rp	1500rpm		E	P	R	XY	ODP	TEFC
---	1.5 & 2	---	1.5 & 2	145TC	155 (6.09)	219 (8.63)	80 (3.00)	558 (21.95)	143.0 (315)	143.0 (315)
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	672 (26.46)	149.8 (330)	154.4 (340)
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	672 (26.46)	154.4 (340)	158.9 (350)
10	---	---	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	994 (39.14)	167.8 (370)	---
15	---	10	---	215TC	210 (8.25)	308 (12.13)	100 (4.00)	994 (39.14)	172.5 (380)	181.4 (400)
20	---	15	---	254TC	252 (9.94)	340 (13.38)	110 (5.00)	864 (34.02)	195.2 (430)	213.4 (470)
25	---	20	---	256TC	252 (9.94)	340 (13.38)	110 (5.00)	864 (34.02)	199.8 (440)	231.5 (510)
30	---	25	---	284TSC	305 (12.00)	389 (15.31)	100 (4.00)	1099 (43.28)	231.5 (510)	249.7 (550)
40	---	30	---	286TSC	305 (12.00)	389 (15.31)	100 (4.00)	1099 (43.28)	240.6 (530)	258.8 (570)
---	---	40	---	324TSC	353 (13.91)	432 (17.00)	110 (4.00)	1123 (44.21)	---	390.4 (860)

*Assembly weight combines pump and motor.

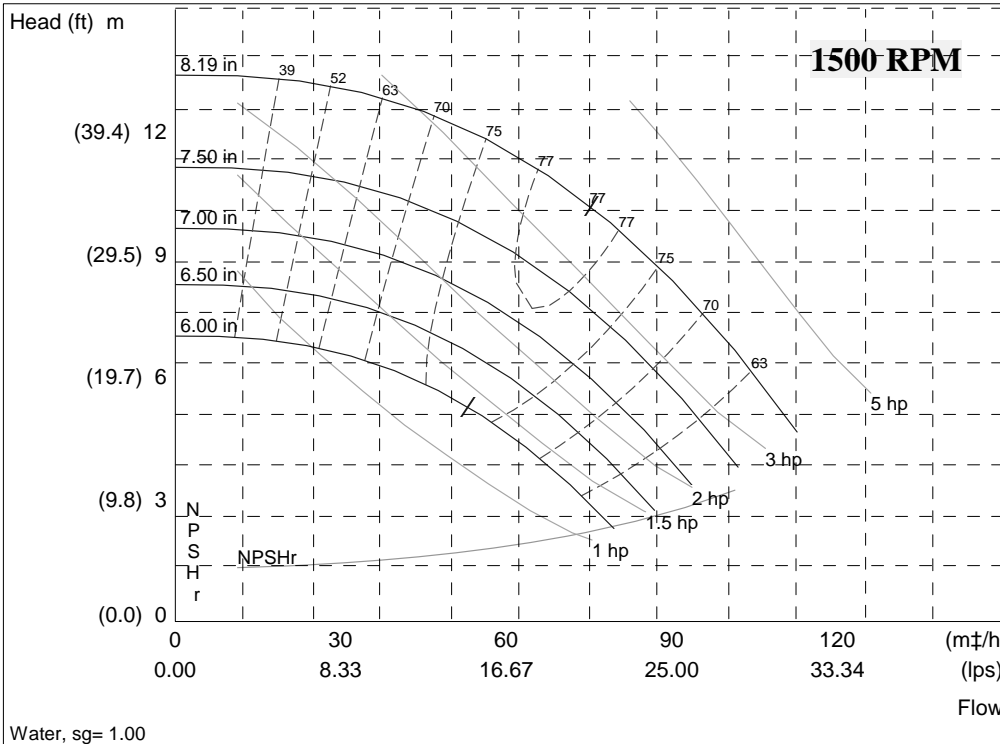


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	
PT95-1-0-3000	
SERIES	
4300 4380	
SIZE	
5x5x8	
RPM	
3000	
BHP based on shown Fluid's sp. gr.	
AVAILABLE	4300 All Ratings
	4380 All Ratings



CURVE NO.	
PT95-1-0-1500	
SERIES	
4300 4380	
SIZE	
5x5x8	
RPM	
1500	
BHP based on shown Fluid's sp. gr.	
AVAILABLE	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

5×5×8 | SUBMITTAL

File No: 43-517
 Date: NOV. 26, 2014
 Supersedes: 43-517
 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: 5" (125 MM) Discharge: 5" (125 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

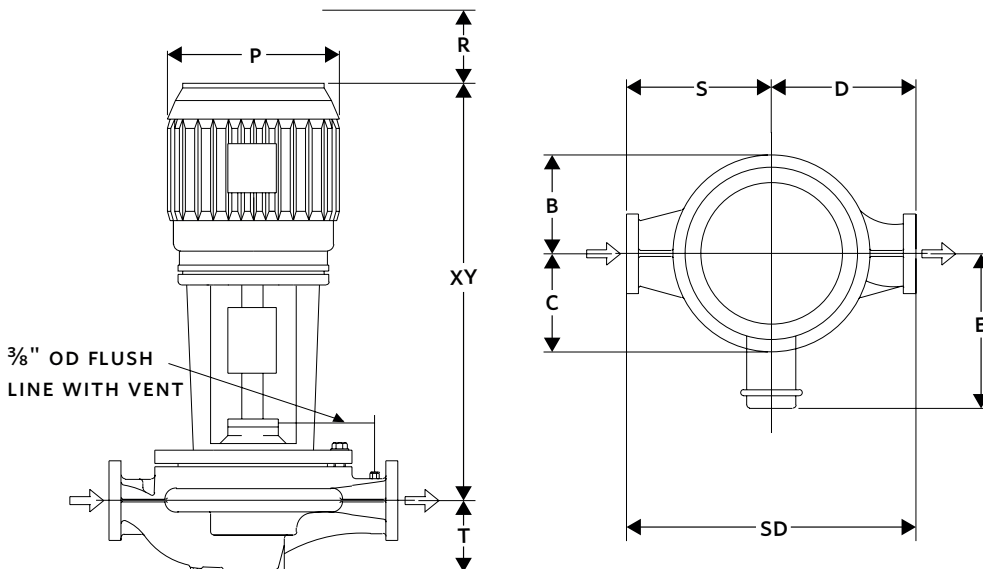
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				ODP	TEFC
	3600	1800	1200	3600	1800	1200	E	P	R	XY		
145TC	—	—	1	—	—	1	6.09 (155)	8.63 (219)	3.00 (80)	21.95 (558)	325 (147.4)	336 (152.4)
182TC	—	3	1.5	—	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	26.46 (672)	348 (157.9)	379 (171.9)
184TC	—	5	2	—	5	2	7.50 (191)	10.38 (264)	4.00 (90)	26.46 (672)	360 (163.3)	388 (176.0)
215TC	—	7.5	—	—	7.5	—	8.25 (210)	12.13 (308)	4.00 (100)	29.08 (739)	395 (179.2)	445 (201.8)
254TC	20	—	—	—	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.02 (864)	495 (224.5)	560 (254.0)
256TC	25	—	—	20	—	—	9.94 (252)	13.38 (340)	5.00 (110)	34.02 (864)	550 (249.5)	593 (269.0)
284TSC	30	—	—	25	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.28 (1099)	673 (305.3)	665 (301.6)
286TSC	40	—	—	30	—	—	12.00 (305)	15.31 (389)	4.00 (100)	43.28 (1099)	757 (343.4)	728 (330.2)
324TSC	50	—	—	40	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.21 (1123)	860 (390.1)	861 (390.5)
326TSC	60	—	—	50	—	—	13.91 (353)	17.00 (432)	4.00 (110)	44.21 (1123)	934 (423.7)	—
364TSC	—	—	—	60	—	—	16.44 (418)	19.03 (483)	4.00 (110)	42.52 (1080)	—	907 (411.4)

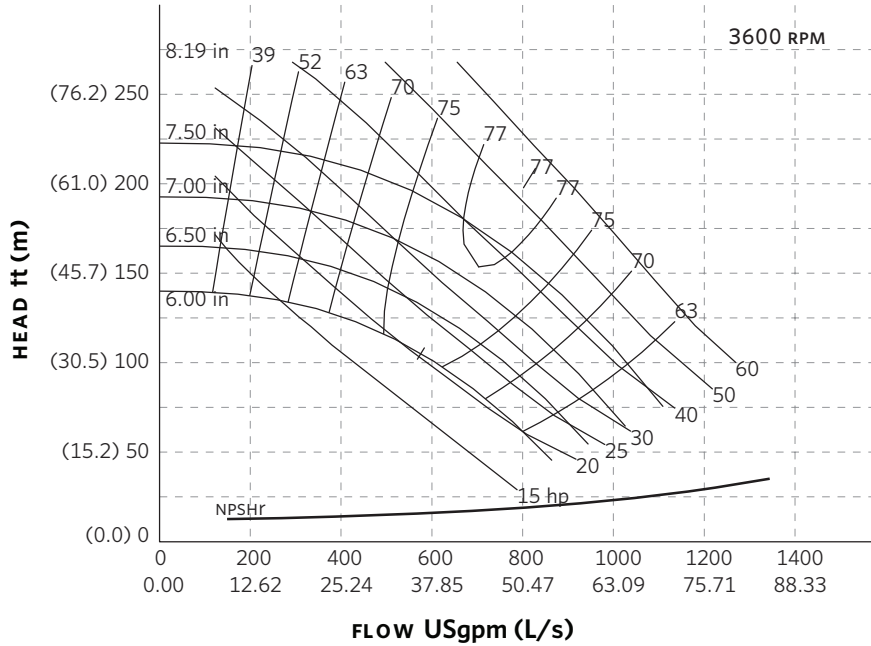
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
7.25 (184)	6.25 (159)	12.00 (305)	13.00 (330)	25.00 (635)	7.94 (202)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT95-1-0-3600

Series
4300
4380

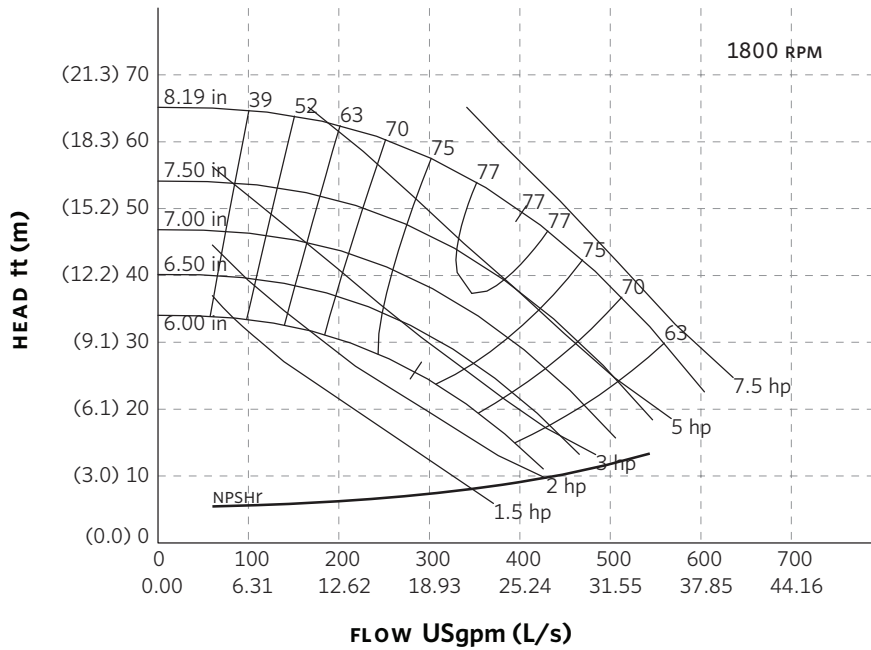
Size
5 × 5 × 8

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. 1.000



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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **5 x 5 x 11.5** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
_____	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 125 mm (5")	DISCHARGE: 125 mm (5")	

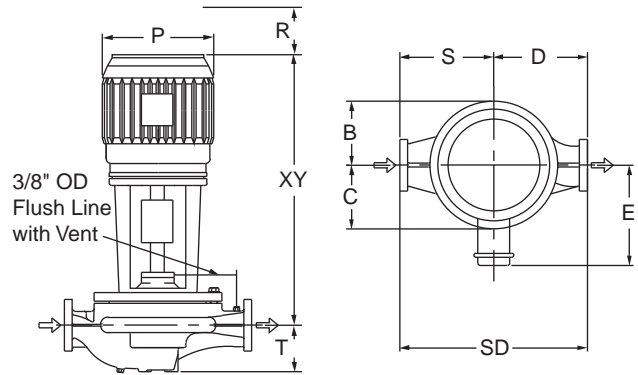
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



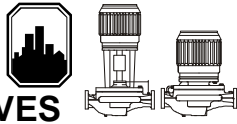
PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
231 (9.09)	205 (8.09)	349 (13.75)	438 (17.25)	787 (31.0)	226 (8.88)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	7.5	---	7.5	213TC	210 (8.25)	286 (11.25)	100 (4.00)	742 (29.22)	222.5 (490)	229.3 (505)
---	10	---	10	215TC	210 (8.25)	286 (11.25)	100 (4.00)	742 (29.22)	227.0 (500)	236.1 (520)
---	15	---	15	254TC	226 (8.90)	340 (13.38)	110 (5.00)	868 (34.16)	249.7 (550)	267.9 (590)

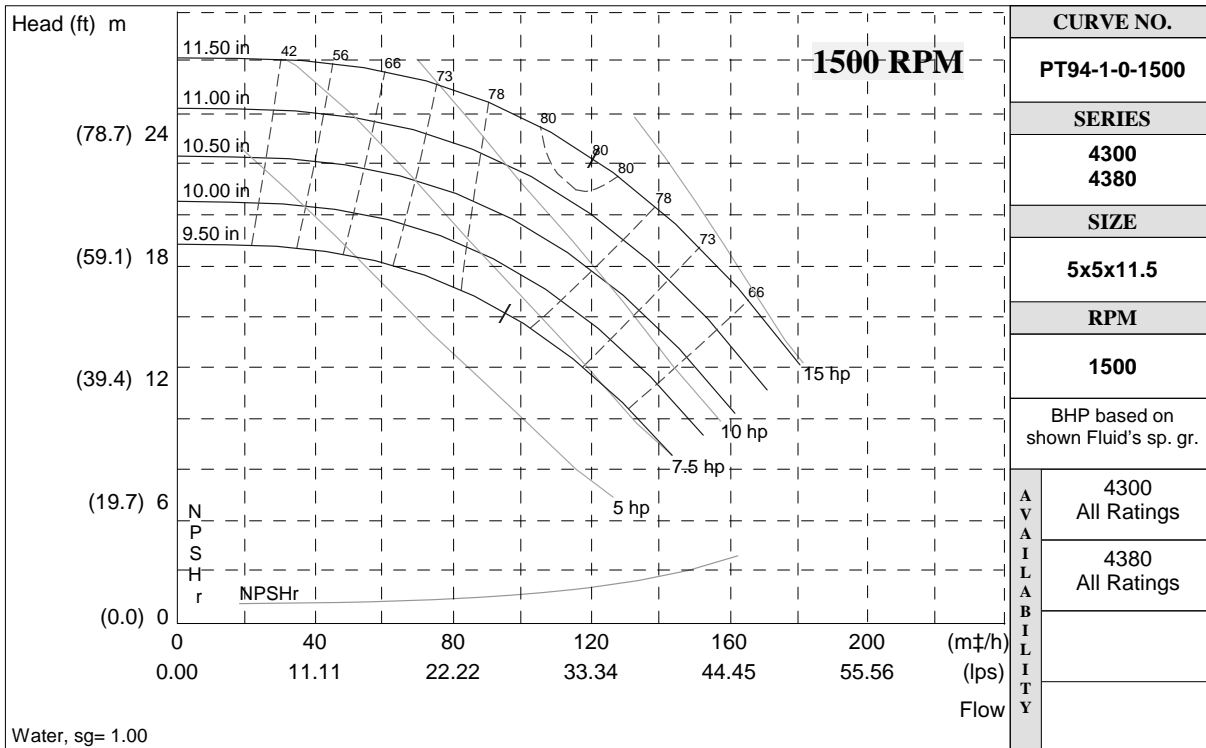
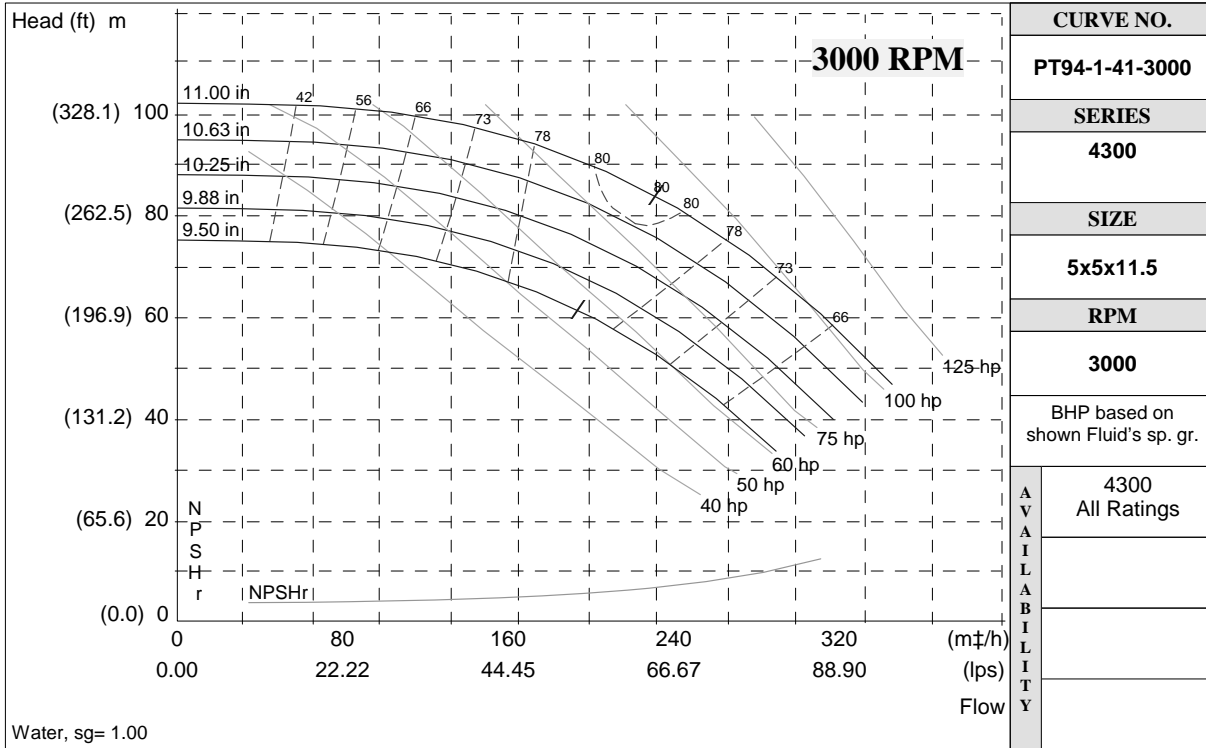
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

5×5×11.5 | SUBMITTAL

File No: 43-533
 Date: NOV. 26, 2014
 Supersedes: 43-533
 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: 5" (125 MM) Discharge: 5" (125 MM)

MOTOR DESIGN DATA

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

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.

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

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

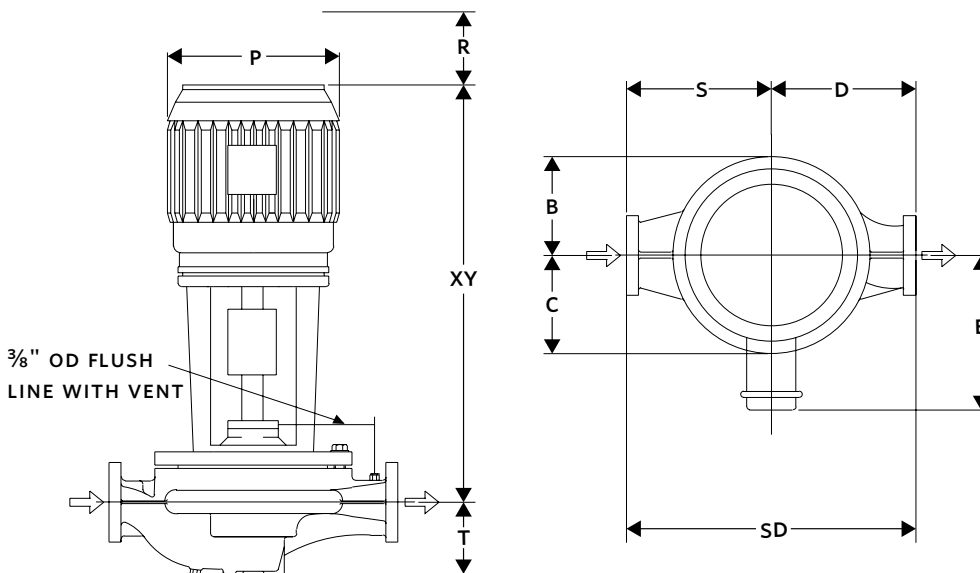
Gasket: Confined fiber

MOTOR		DIMENSIONS INCHES (mm)								WEIGHT*	
FRAME	ODP		TEFC		ODP/ TEFC				lbs (kgs)		
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC	
213TC	—	3	—	3	8.25 (210)	11.25 (286)	4.00 (100)	29.22 (742)	473 (214.5)	536 (243.1)	
215TC	10	5	10	5	8.25 (210)	11.25 (286)	4.00 (100)	29.22 (742)	530 (240.4)	572 (259.5)	
254TC	15	7.5	15	7.5	8.90 (226)	13.38 (340)	5.00 (110)	34.16 (868)	657 (298.0)	691 (313.4)	
256TC	20	—	20	—	8.90 (226)	13.38 (340)	5.00 (110)	34.16 (868)	700 (317.5)	724 (328.4)	
284TC	25	—	25	—	12.00 (305)	15.31 (389)	5.00 (130)	43.48 (1104)	788 (357.4)	891 (404.2)	
286TC	30	—	30	—	12.00 (305)	15.31 (389)	5.00 (130)	43.48 (1104)	840 (381.0)	935 (424.1)	

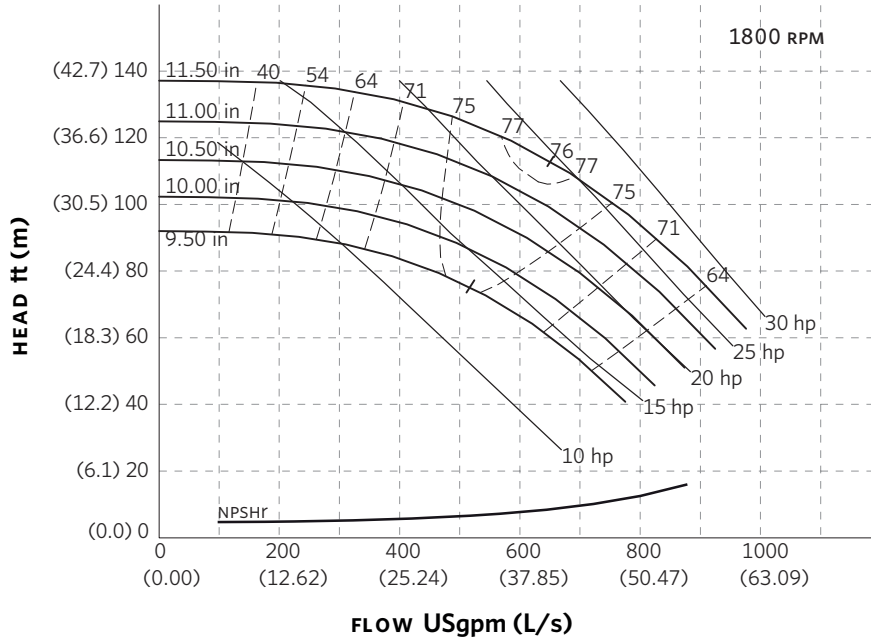
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
9.09 (231)	8.09 (205)	13.75 (349)	17.25 (438)	31.00 (787)	8.88 (226)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT94-2-0-1800

Series
4300
4380

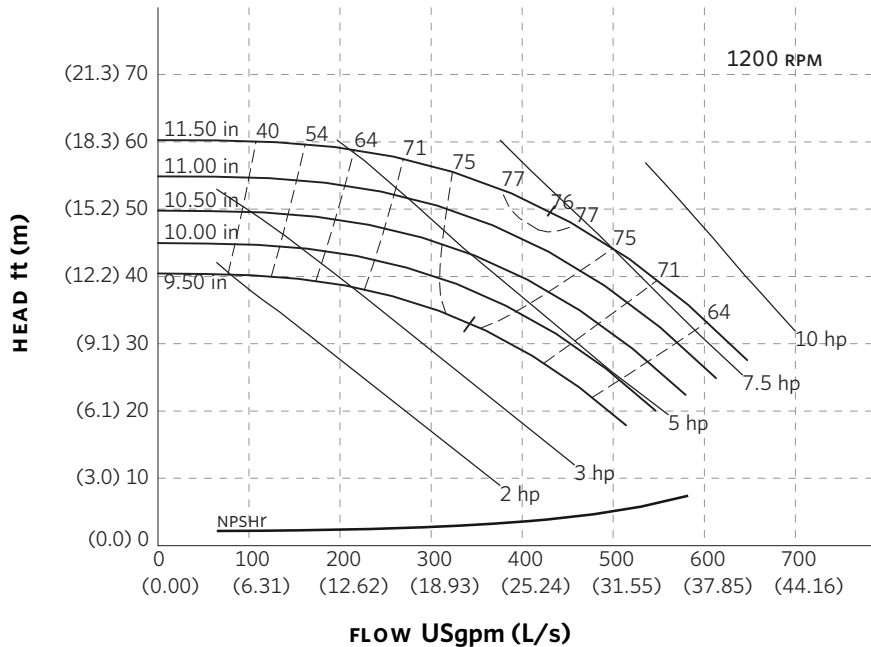
Size
5 × 5 × 11.5

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. 1.000



Curve number
PT94-2-0-1200

Series
4300
4380

Size
5 × 5 × 11.5

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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SERIES 4300 | VERTICAL IN-LINE

5×5×13H | SUBMITTAL

File No: 43-5441
 Date: NOV. 26, 2014
 Supersedes: 43-5441
 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: 5" (125 mm) Discharge: 5" (125 mm)

MOTOR DESIGN DATA

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

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.

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

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

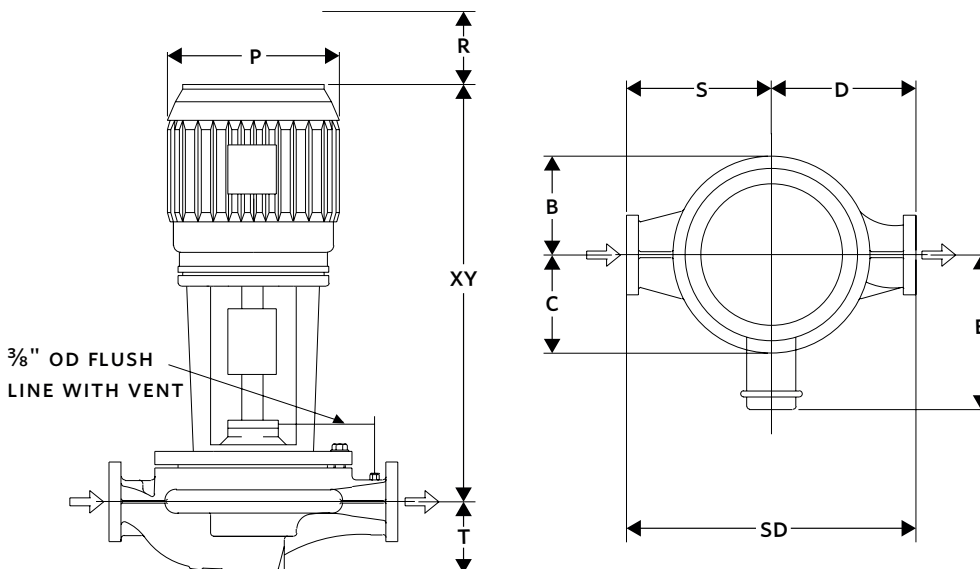
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
254	—	7.5	—	7.5	9.94 (252)	13.38 (340)	5.00 (127)	36.59 (929)	585 (265.4)	612 (277.6)
256	20	10	20	10	9.94 (252)	13.38 (340)	5.00 (127)	36.59 (929)	630 (285.8)	654 (296.6)
284	25	15	25	15	11.75 (298)	13.38 (340)	5.00 (127)	36.71 (932)	708 (321.1)	811 (367.9)
286	30	—	30	—	11.75 (298)	13.38 (340)	6.00 (152)	36.71 (932)	760 (344.7)	855 (387.8)
324	40	—	40	—	12.69 (322)	14.13 (359)	6.00 (152)	44.02 (1118)	905 (410.5)	970 (440.0)
326	50	—	50	—	12.69 (322)	14.13 (359)	6.00 (152)	44.02 (1118)	925 (419.6)	1208 (547.9)
364	60	—	60	—	16.19 (411)	17.63 (448)	7.00 (178)	40.24 (1022)	1190 (539.8)	1268 (575.2)

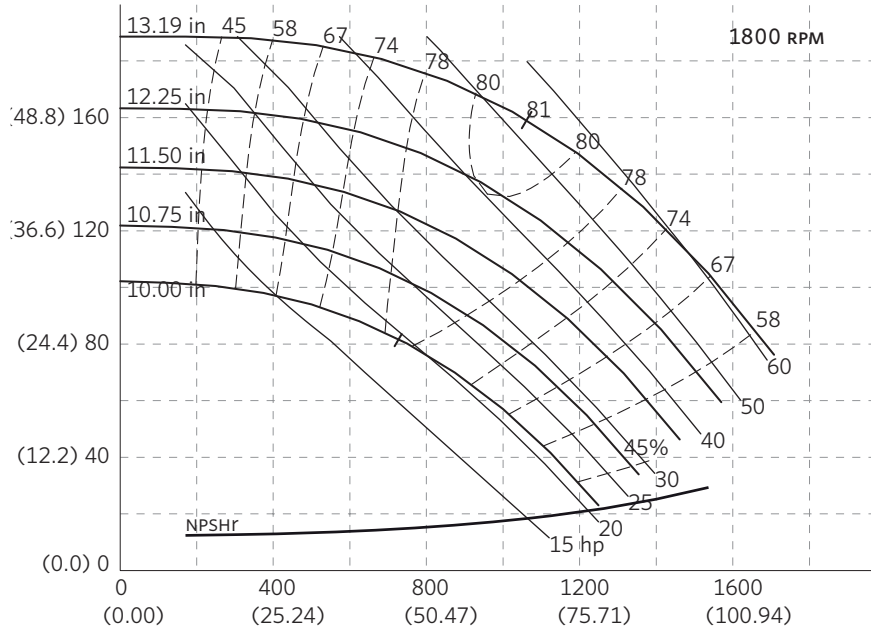
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
10.45 (265)	9.03 (229)	16.50 (419)	16.50 (419)	33.00 (838)	7.33 (186)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT623-0-0-1800

Series
4300
4380

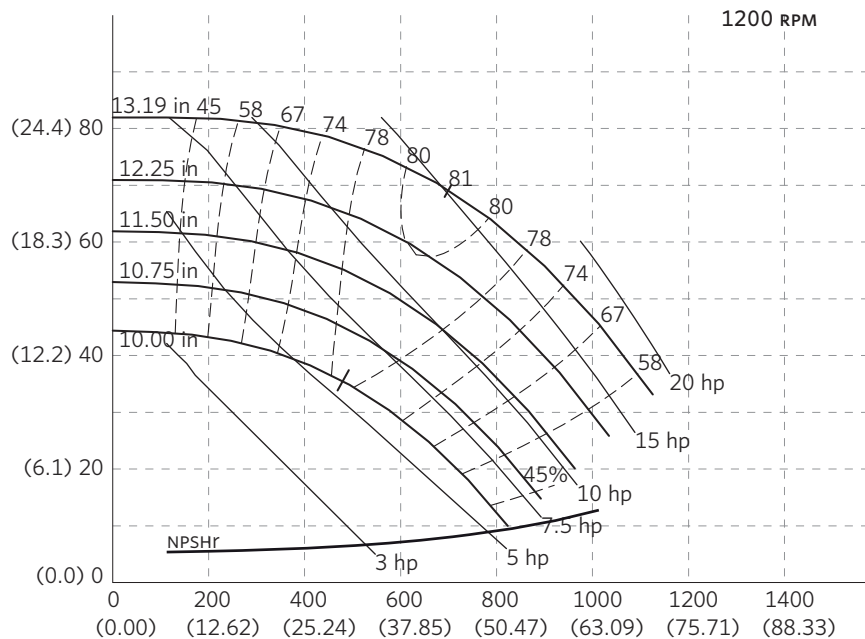
Size
5 × 5 × 13H

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. 1.000



Curve number
PT623-0-0-1200

Series
4300
4380

Size
5 × 5 × 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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Series 4300 Vertical In-Line

6 x 6 x 6

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 150 mm (6")	DISCHARGE: 150 mm (6")	

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				

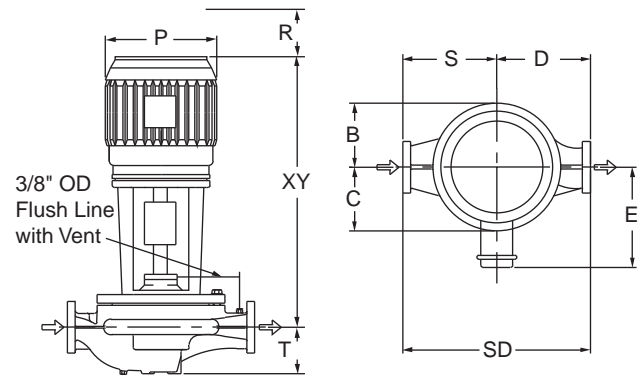
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

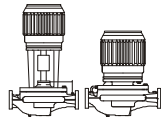


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
215 (8.48)	161 (6.33)	305 (12.00)	445 (17.50)	749 (29.50)	246 (9.68)

MOTOR HORSEPOWER		Frame	MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP	TEFC		ODP / TEFC				kg (lbs.)	
1500rpm	1500rpm		E	P	R	XY	ODP	TEFC
1.5 & 2	1.5 & 2	145TC	156 (6.13)	219 (8.63)	80 (3.00)	617 (24.30)	140.6 (310)	140.6 (310)
3	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	732 (28.81)	149.7 (330)	163.3 (360)
5	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	732 (28.81)	158.7 (350)	167.8 (370)

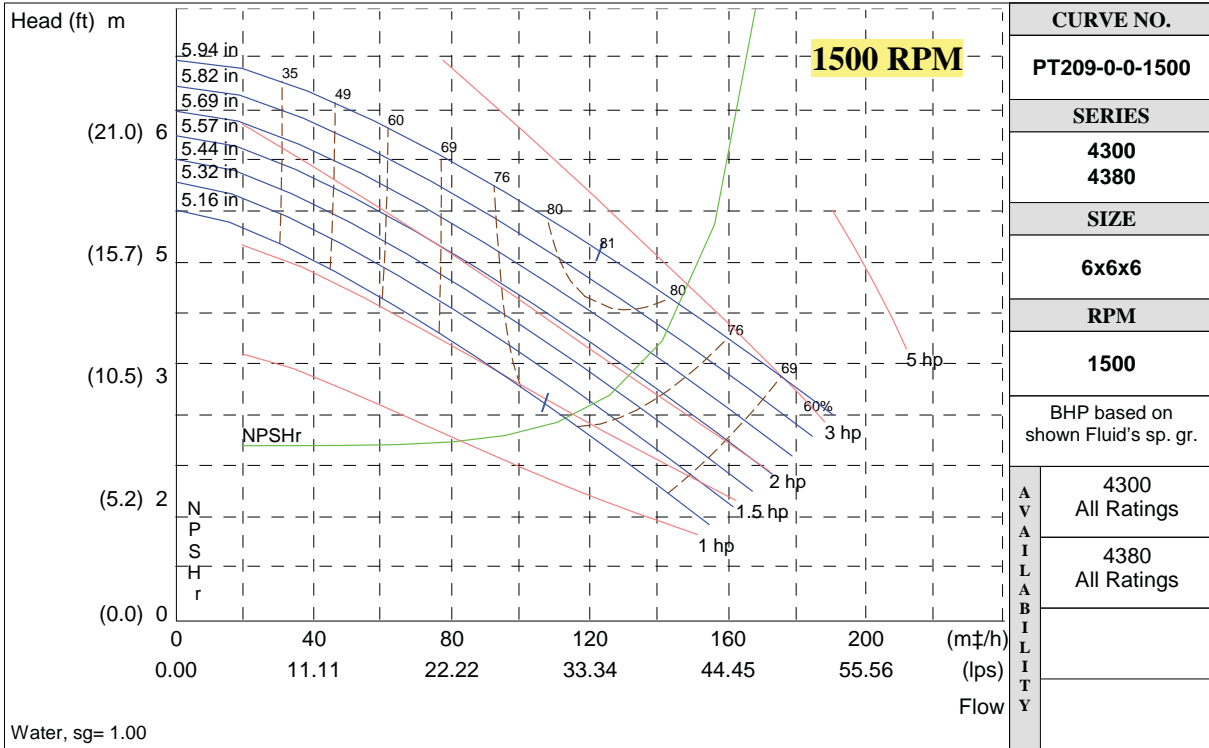
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT209-0-0-1500
SERIES	4300 4380
SIZE	6x6x6
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

6×6×6 | SUBMITTAL

File No: 43.508
 Date: NOV. 26, 2014
 Supersedes: 43.508
 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: 6" (150 MM) Discharge: 6" (150 MM)

MOTOR DESIGN DATA

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

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.

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

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

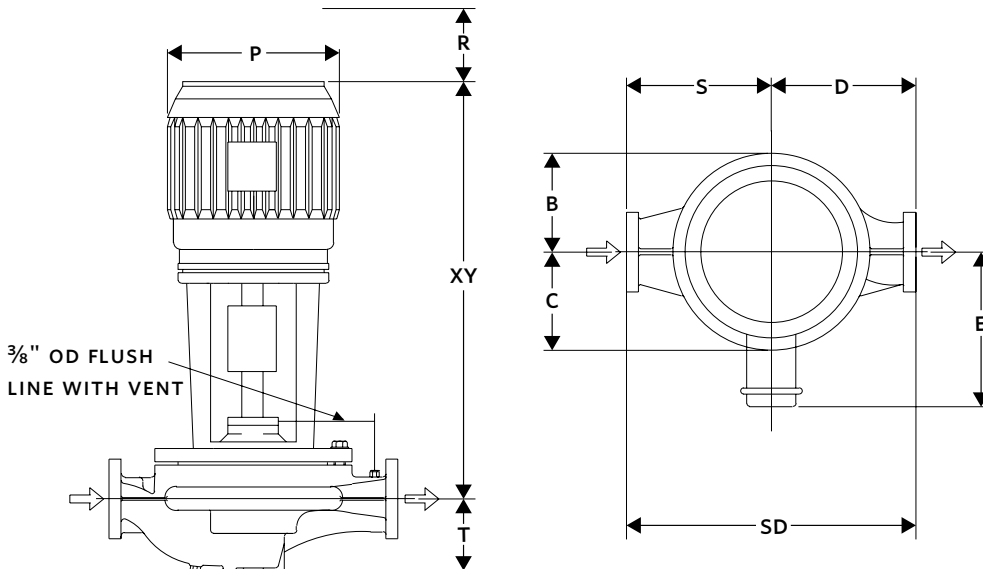
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
145TC	—	1	—	1	6.13 (156)	8.63 (219)	3.00 (80)	24.30 (617)	365 (165.6)	376 (170.6)
182TC	3	1.5	3	1.5	7.50 (191)	10.38 (264)	4.00 (90)	28.81 (732)	388 (176.0)	419 (190.1)
184TC	5	—	5	—	7.50 (191)	10.38 (264)	4.00 (90)	28.81 (732)	400 (181.4)	428 (194.1)
213TC	7.5	2	7.5	2	8.25 (210)	11.25 (286)	4.00 (100)	31.43 (798)	435 (197.3)	485 (220.0)

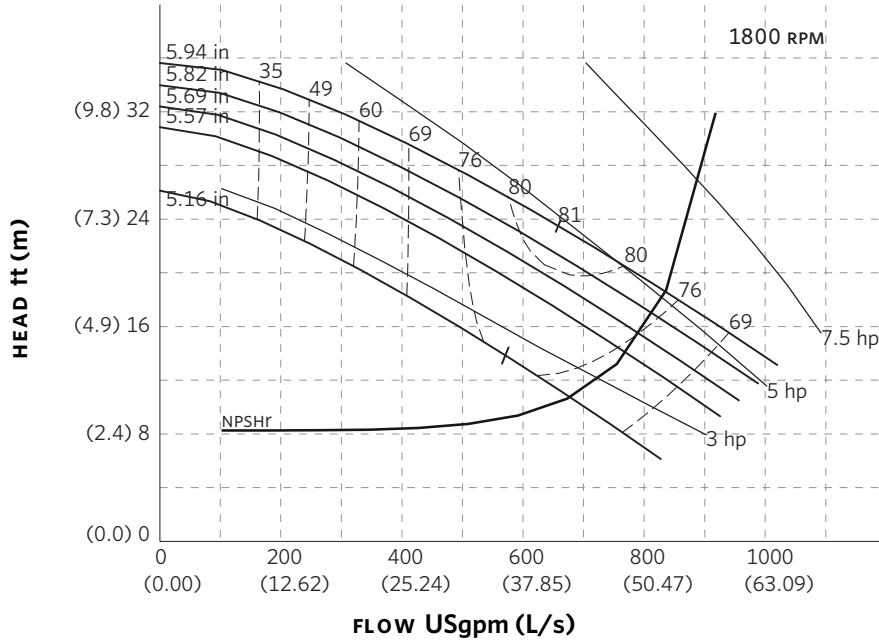
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
8.48 (215)	6.33 (161)	12.00 (305)	17.50 (445)	29.50 (749)	9.68 (246)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT209-1-0-1800

Series
4300
4380

Size
6 × 6 × 6

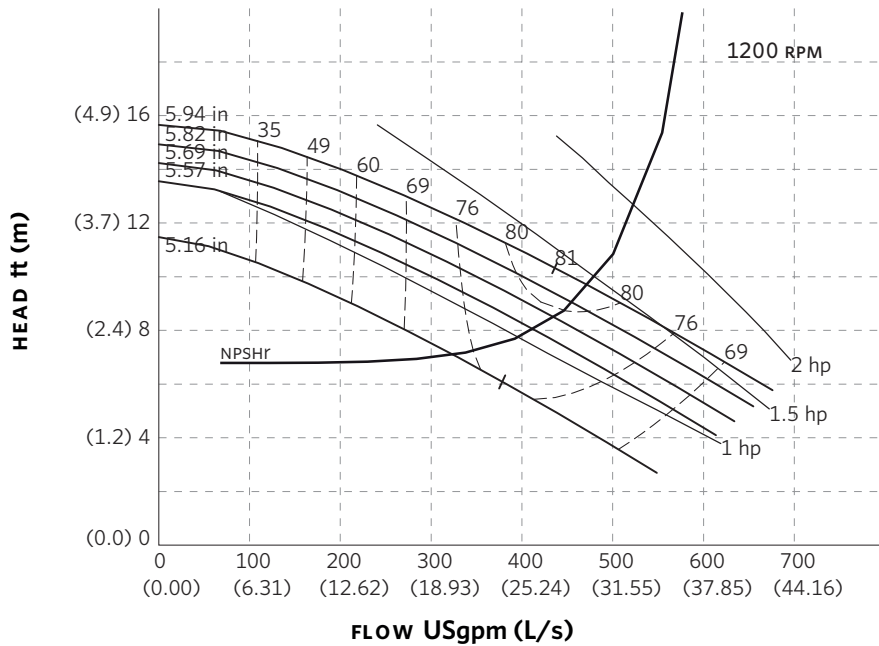
RPM
1800

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. 1.000



Curve number
PT209-1-0-1200

Series
4300
4380

Size
6 × 6 × 6

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line

6 x 6 x 8

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
_____	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 150 mm (6")	DISCHARGE: 150 mm (6")	

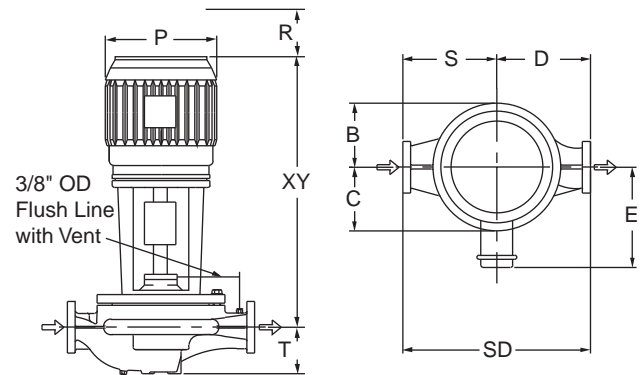
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



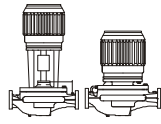
PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
248 (9.75)	191 (7.50)	343 (13.50)	495 (19.50)	838 (33.00)	264 (10.38)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	689 (27.13)	177.1 (390)	181.6 (400)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	756 (29.76)	190.7 (420)	197.5 (435)
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	756 (29.76)	195.2 (430)	204.3 (450)

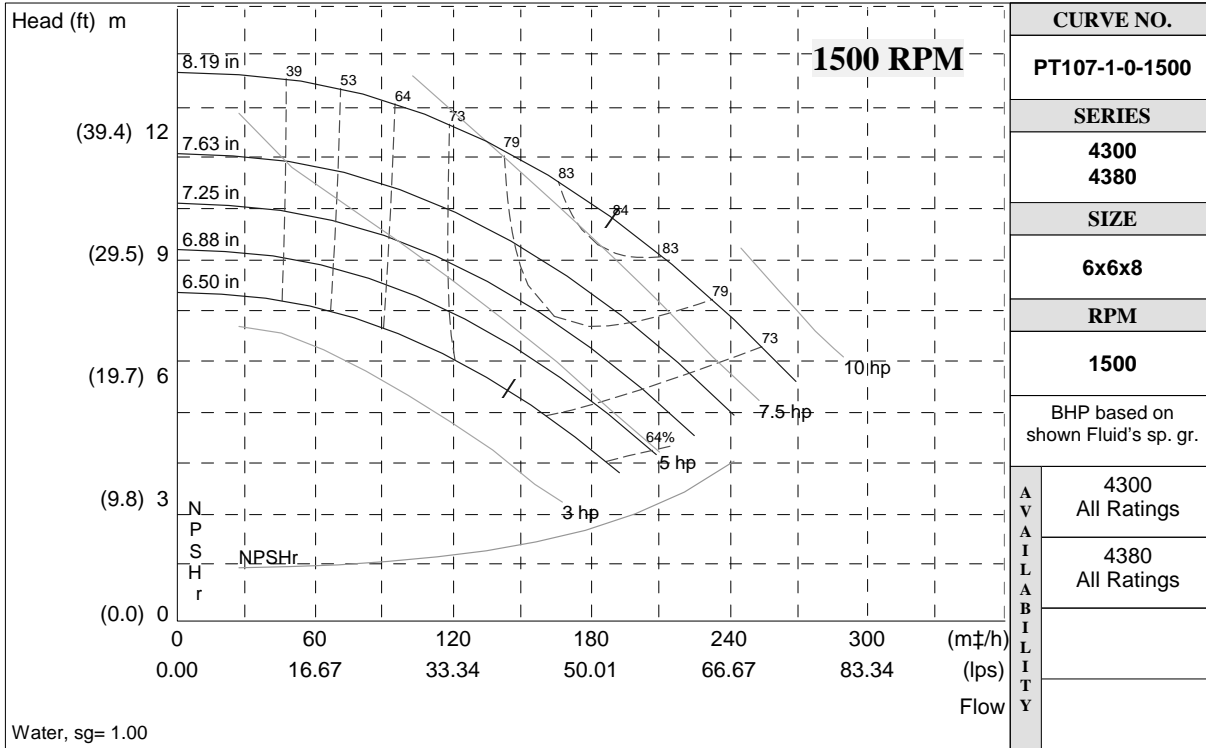
*Assembly weight combines pump and motor.

ARMSTRONG

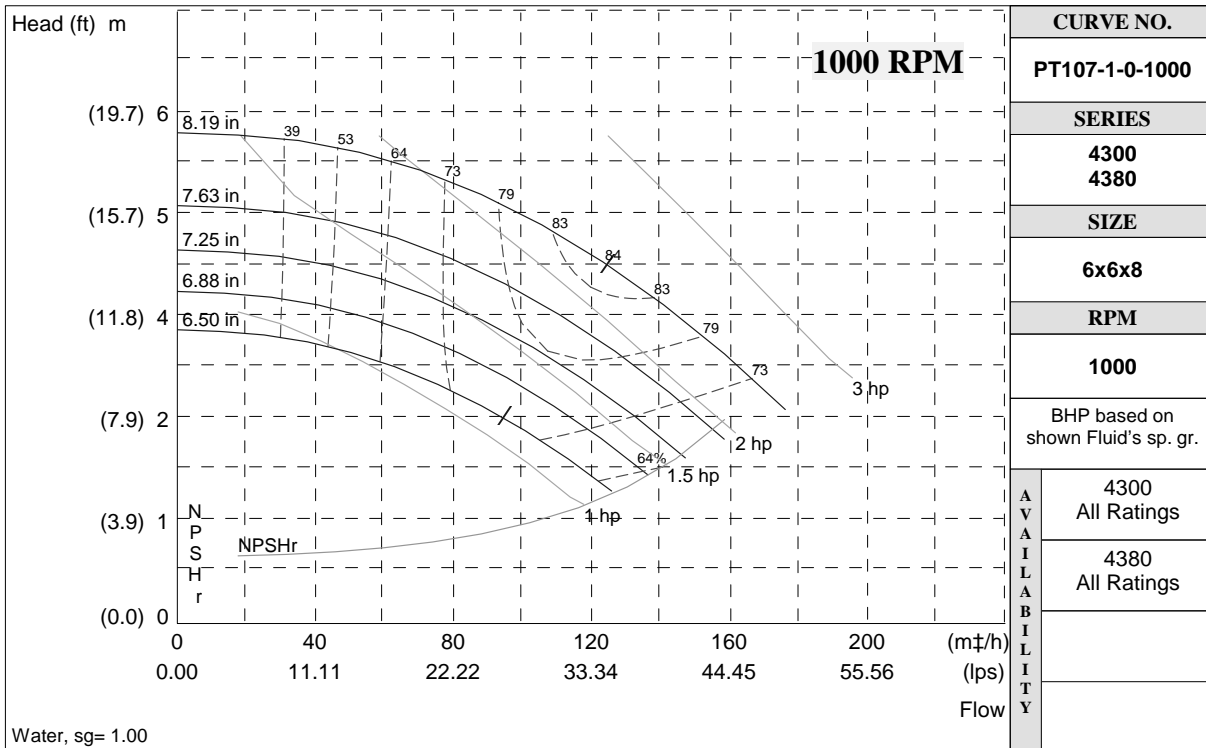


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT107-1-0-1500
SERIES	4300 4380
SIZE	6x6x8
RPM	1500
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings



CURVE NO.	PT107-1-0-1000
SERIES	4300 4380
SIZE	6x6x8
RPM	1000
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

6×6×8 | SUBMITTAL

File No: 43.519
 Date: NOV. 26, 2014
 Supersedes: 43.519
 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: 6" (150 MM) Discharge: 6" (150 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

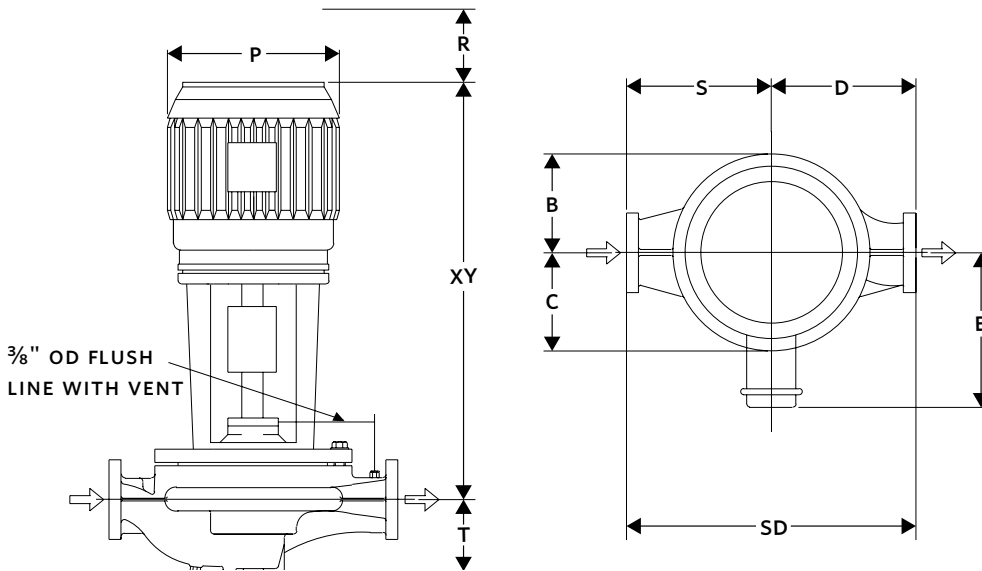
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
184TC	—	2	—	2	7.50 (191)	10.38 (264)	4.00 (90)	26.69 (678)	396 (179.6)	423 (191.9)
213TC	7.5	3	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	29.32 (745)	445 (201.8)	495 (224.5)
215TC	10	5	10	5	8.25 (210)	12.13 (308)	4.00 (100)	29.32 (745)	460 (208.7)	502 (227.7)
254TC	15	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.26 (870)	587 (266.3)	621 (281.7)
256TC	20	—	20	—	9.94 (252)	13.38 (340)	5.00 (110)	34.26 (870)	630 (285.8)	654 (296.6)

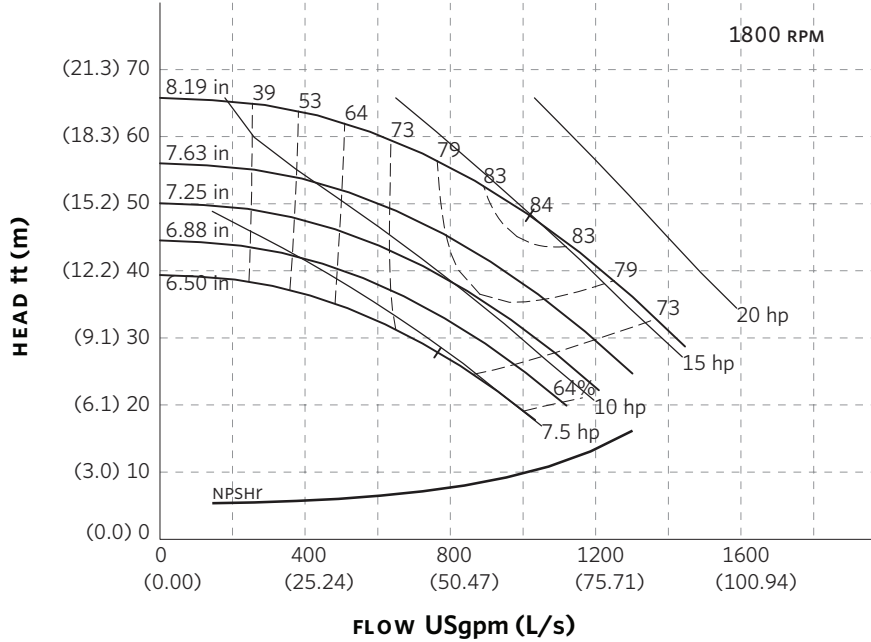
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
9.75 (248)	7.50 (191)	13.50 (343)	19.50 (495)	33.00 (838)	10.38 (264)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT107-1-0-1800

Series
4300
4380

Size
6 × 6 × 8

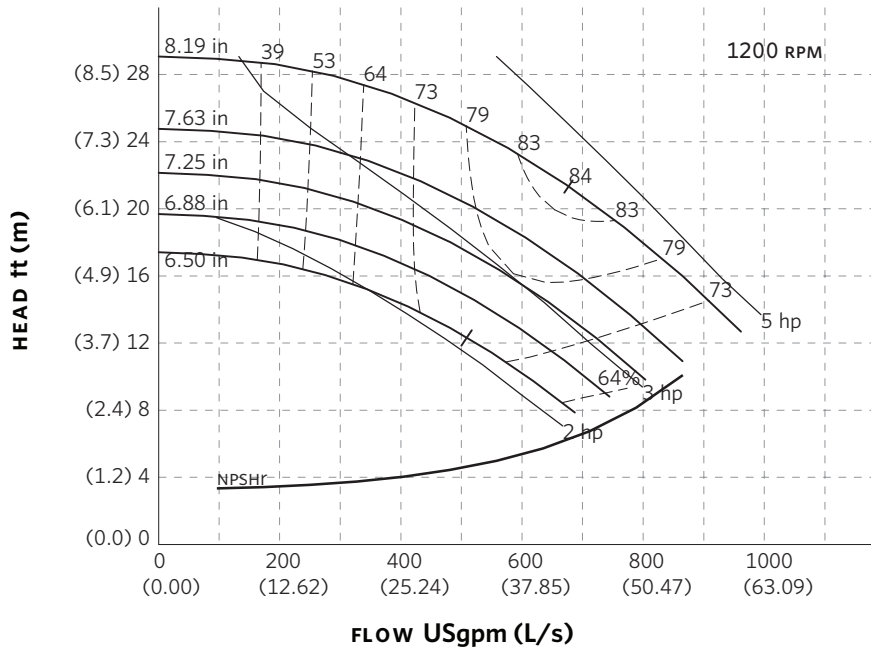
RPM
1800

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. 1.000



Curve number
PT107-1-0-1200

Series
4300
4380

Size
6 × 6 × 8

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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SENSE™**

Series 4300 Vertical In-Line **6 x 6 x 10** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 150 mm (6")	DISCHARGE: 150 mm (6")	

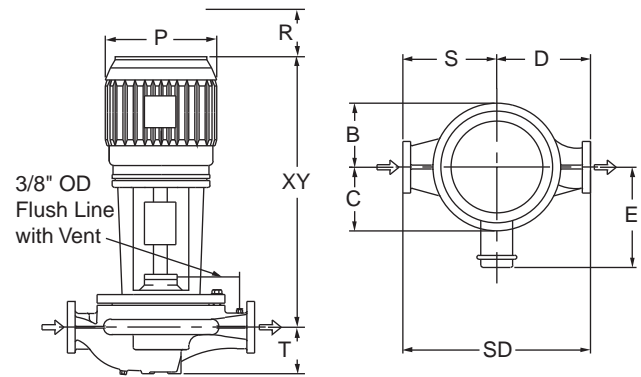
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



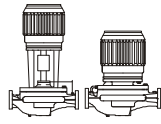
PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
245 (9.63)	194 (7.63)	381 (15.00)	432 (17.00)	813 (32.00)	222 (8.75)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	3	---	3	182TC	191 (7.50)	264 (10.38)	90 (4.00)	676 (26.63)	199.8 (440)	204.3 (450)
---	5	---	5	184TC	191 (7.50)	264 (10.38)	90 (4.00)	676 (26.63)	204.3 (450)	208.8 (460)
---	7.5	---	7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	743 (29.26)	217.9 (480)	224.7 (495)
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	743 (29.26)	222.5 (490)	231.5 (510)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	869 (34.20)	245.2 (540)	263.3 (580)
30	---	---	---	284TSC	191 (7.50)	389 (15.31)	100 (4.00)	1104 (43.46)	281.5 (620)	---
40	---	30	---	286TSC	191 (7.50)	389 (15.31)	100 (4.00)	1104 (43.46)	290.6 (640)	308.7 (680)
50	---	40	---	324TSC	210 (8.25)	432 (17.00)	110 (4.00)	1127 (44.39)	360.9 (795)	440.4 (970)
60	---	50	---	326TSC	210 (8.25)	432 (17.00)	110 (4.00)	1127 (44.39)	374.6 (825)	469.9 (1035)
75	---	60	---	364TSC	191 (7.50)	483 (19.03)	110 (4.00)	1135 (44.70)	454.0 (1000)	526.6 (1160)
100	---	75	---	365TSC	191 (7.50)	483 (19.03)	110 (4.00)	1135 (44.70)	463.1 (1020)	581.1 (1280)
---	---	100	---	405TSC	210 (8.25)	544 (21.41)	120 (5.00)	1183 (46.57)	---	726.4 (1600)

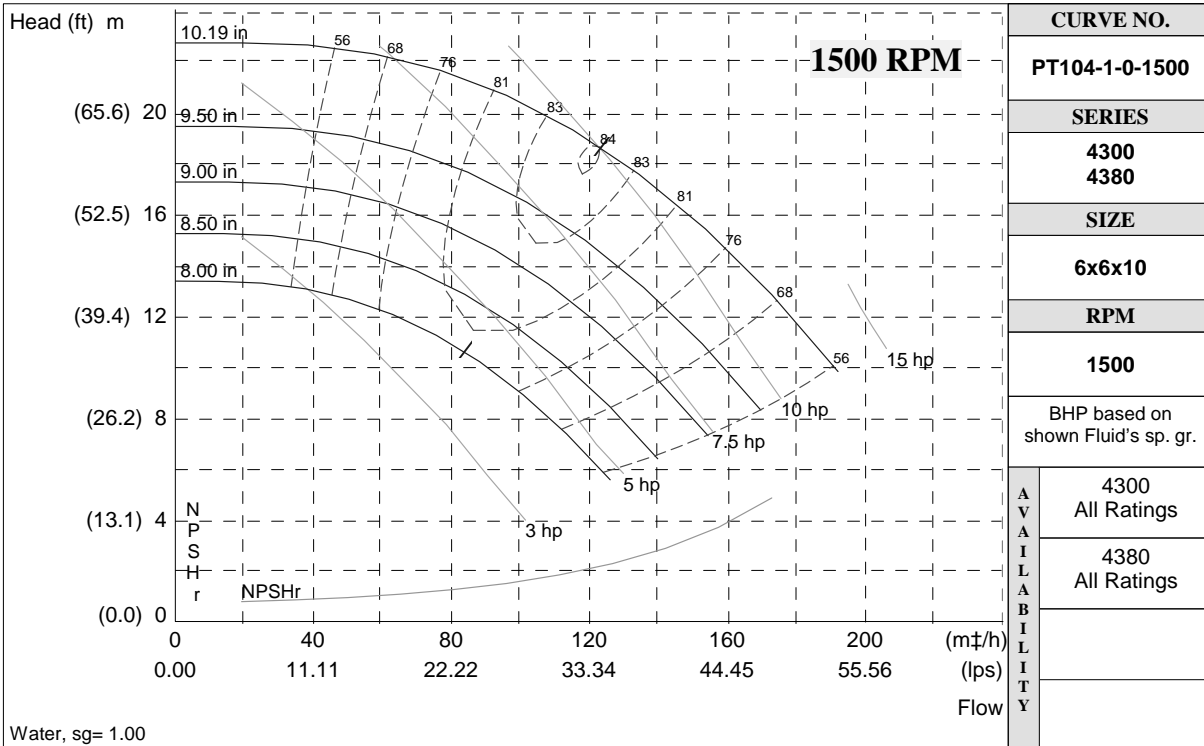
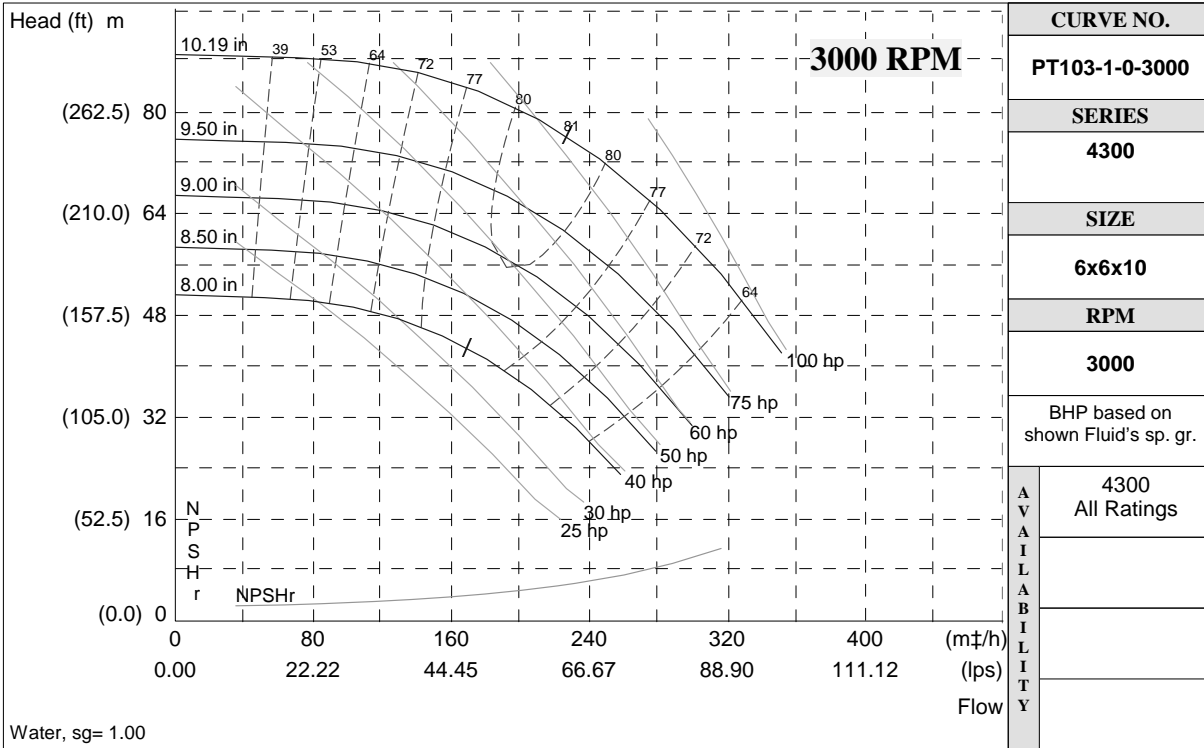
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

6×6×10 | SUBMITTAL

File No: 43-527
 Date: NOV. 26, 2014
 Supersedes: 43-527
 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: 6" (150 MM) Discharge: 6" (150 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

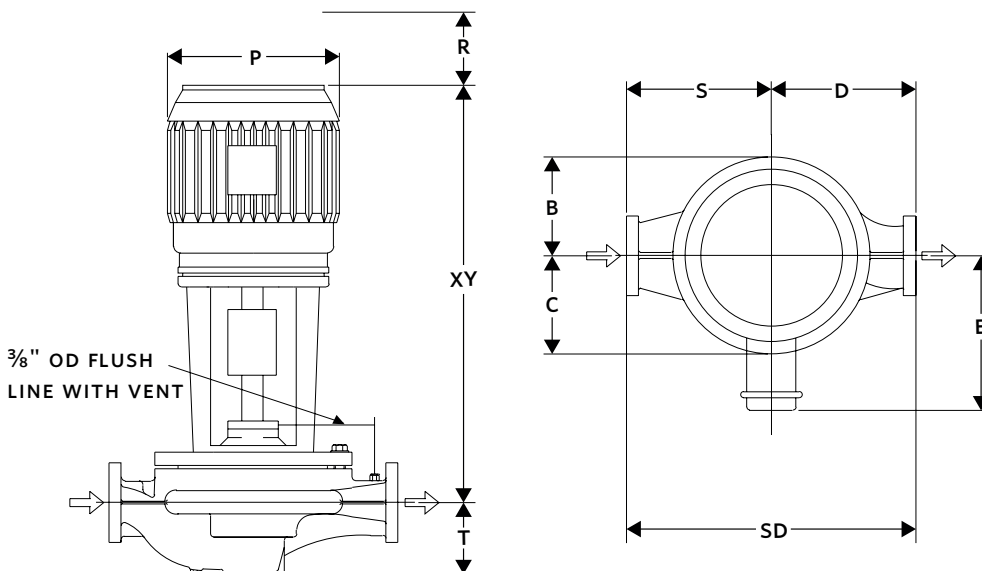
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM						DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP			TEFC			ODP/ TEFC				ODP	TEFC
	3600	1800	1200	3600	1800	1200	E	P	R	XY		
182TC	—	—	—	—	3	—	7.50 (191)	10.38 (264)	4.00 (90)	26.63 (676)	—	489 (221.8)
184TC	—	—	2	—	—	2	7.50 (191)	10.38 (264)	4.00 (90)	26.63 (676)	456 (206.8)	483 (219.1)
213TC	—	7.5	3	—	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	29.26 (743)	505 (229.1)	555 (251.7)
215TC	—	10	5	—	10	5	8.25 (210)	12.13 (308)	4.00 (100)	29.26 (743)	520 (235.9)	562 (254.9)
254TC	—	15	—	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	34.20 (869)	647 (293.5)	681 (308.9)
256TC	—	20	—	—	20	—	9.94 (252)	13.38 (340)	5.00 (110)	34.20 (869)	690 (313.0)	714 (323.9)
284TC	—	25	—	—	25	—	7.50 (191)	15.31 (389)	5.00 (110)	43.46 (1104)	788 (357.4)	891 (404.2)
324TSC	50	—	—	—	—	—	8.25 (210)	17.00 (432)	4.00 (110)	44.39 (1127)	970 (440.0)	—
326TSC	60	—	—	50	—	—	8.25 (210)	17.00 (432)	4.00 (110)	44.39 (1127)	1044 (473.6)	1017 (461.3)
364TSC	75	—	—	60	—	—	7.50 (191)	19.03 (483)	4.00 (110)	42.70 (1085)	1225 (555.7)	1412 (640.5)
365TSC	100	—	—	75	—	—	7.50 (191)	19.03 (483)	4.00 (110)	42.70 (1085)	1329 (602.8)	1445 (655.4)
404TSC	125	—	—	—	—	—	8.25 (210)	21.41 (544)	5.00 (120)	46.57 (1183)	1475 (669.0)	—
405TSC	150	—	—	100	—	—	8.25 (210)	21.41 (544)	5.00 (120)	46.57 (1183)	1540 (698.5)	1617 (733.5)

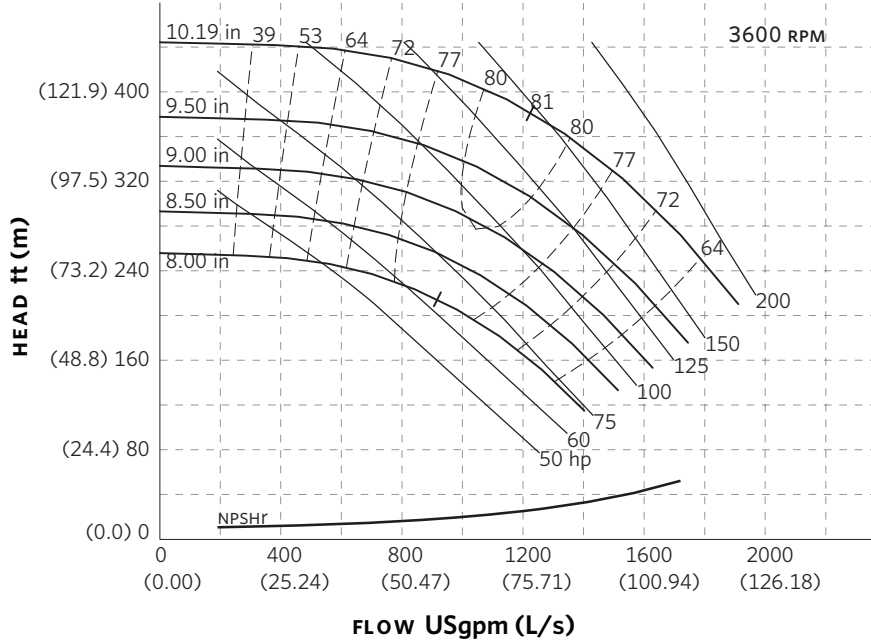
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
9.63 (245)	7.63 (194)	15.00 (381)	17.00 (432)	32.00 (813)	8.75 (222)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT103-1-0-3600

Series
4300
4380

Size
6 × 6 × 10

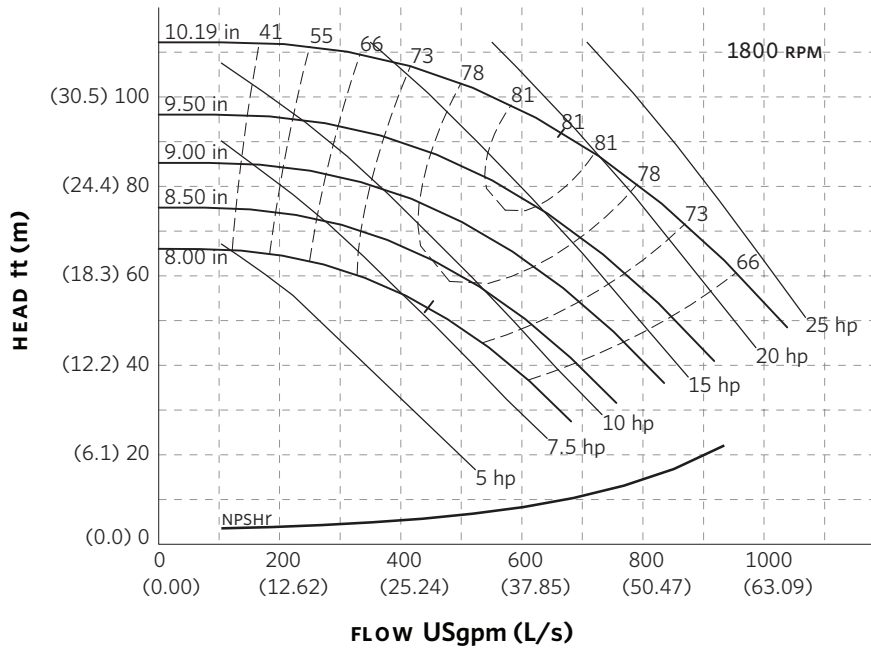
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4300 FR 405 Max.

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT104-2-0-1800

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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201401
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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **6 x 6 x 11.5** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 150 mm (6")	DISCHARGE: 150 mm (6")	

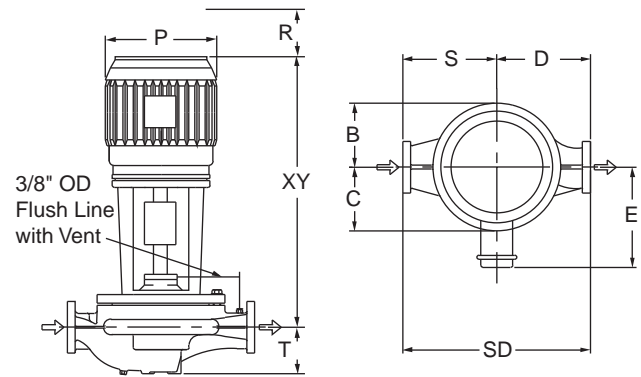
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

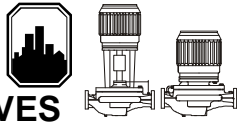


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
249 (9.80)	216 (8.50)	419 (16.50)	470 (18.50)	889 (35.00)	248 (9.75)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

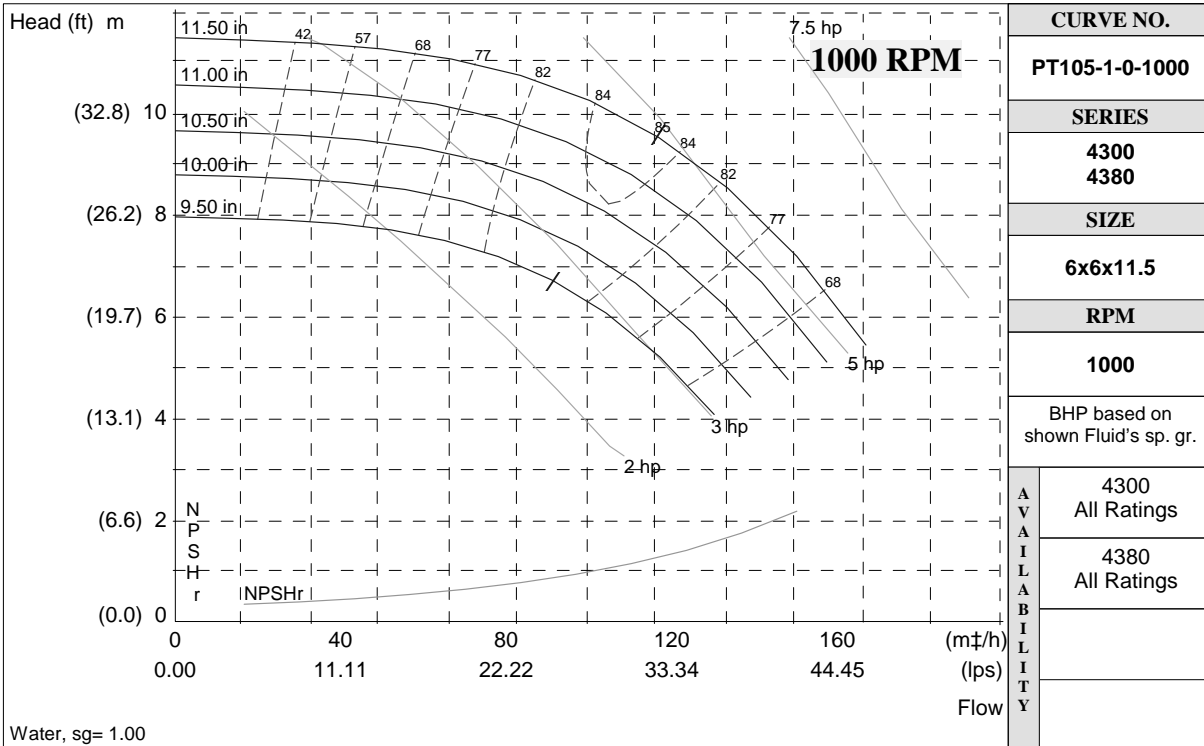
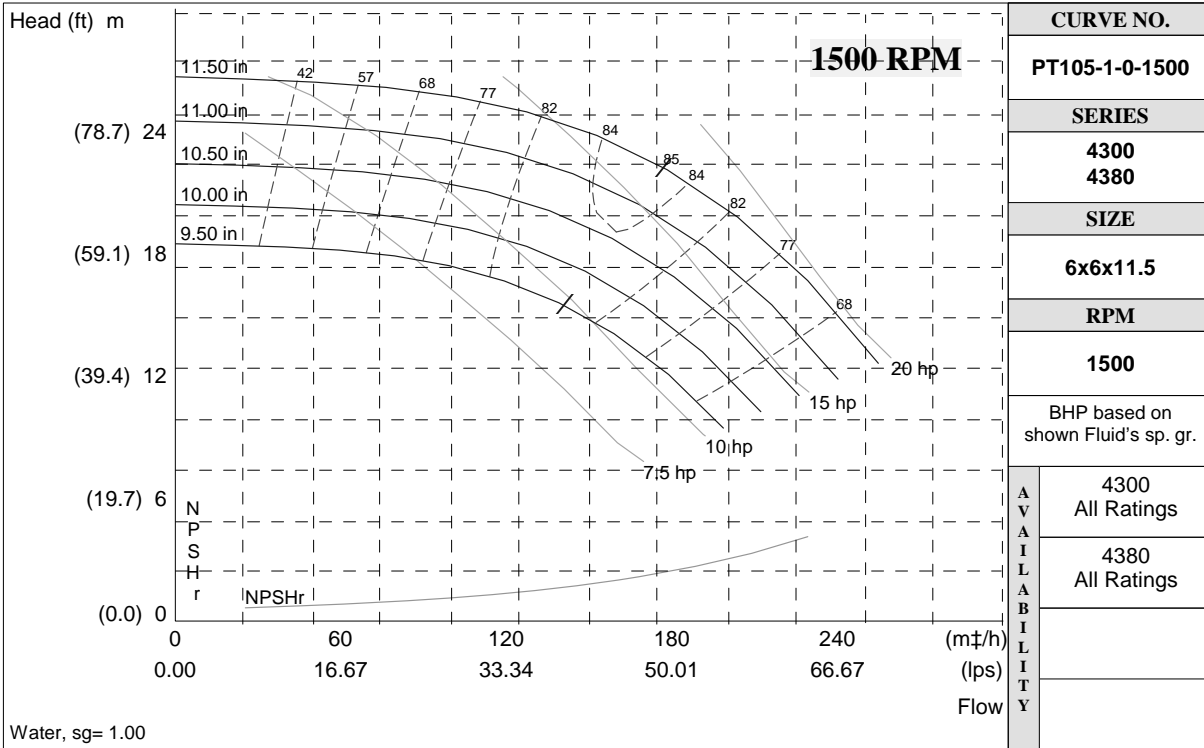
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	---	---	---	213TC	210 (8.25)	308 (12.13)	100 (4.00)	744 (29.28)	---	---
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	744 (29.28)	256.5 (565)	265.6 (585)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	869 (34.22)	279.2 (615)	297.4 (655)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	869 (34.22)	283.8 (625)	315.5 (695)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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 F: (716) 693-8970

Armstrong Integrated Limited
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 Manchester
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 F: +44 (0) 8444 145 146



SERIES 4300 | VERTICAL IN-LINE

6×6×11.5 | SUBMITTAL

File No: 43-535
 Date: NOV. 26, 2014
 Supersedes: 43-535
 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: 6" (150 MM) Discharge: 6" (150 MM)

MOTOR DESIGN DATA

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

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.

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

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

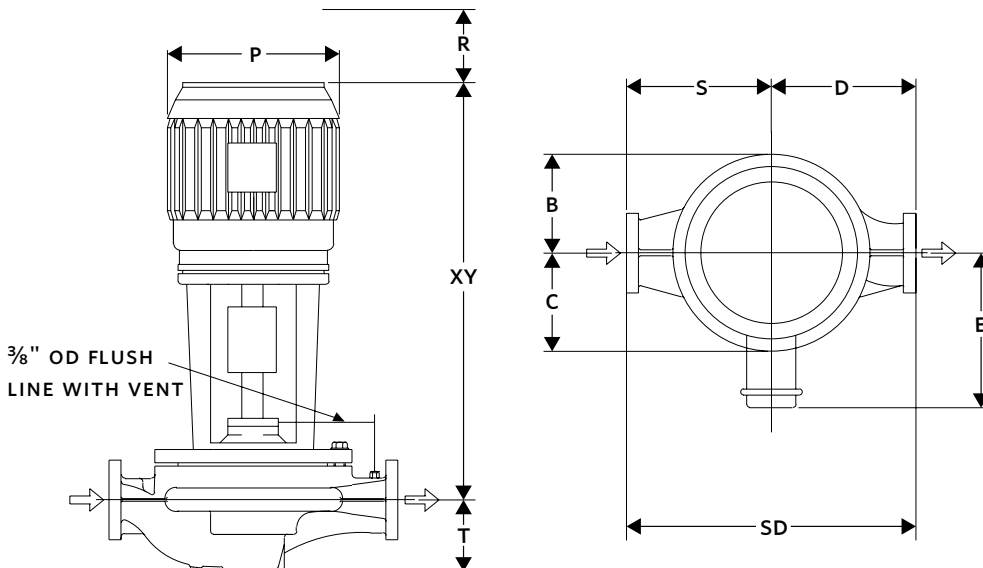
Gasket: Confined fiber

MOTOR		DIMENSIONS INCHES (mm)								WEIGHT*	
FRAME	ODP		TEFC		ODP/ TEFC				lbs (kgs)		
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC	
213TC	—	3	—	3	8.25 (210)	12.13 (308)	4.00 (100)	29.28 (744)	538 (244.0)	601 (272.6)	
215TC	—	5	—	5	8.25 (210)	12.13 (308)	4.00 (100)	29.28 (744)	574 (260.4)	640 (290.3)	
254TC	15	7.5	15	7.5	9.94 (252)	13.38 (340)	5.00 (110)	34.22 (869)	722 (327.5)	756 (342.9)	
256TC	20	10	20	10	9.94 (252)	13.38 (340)	5.00 (110)	34.22 (869)	765 (347.0)	789 (357.9)	
284TC	25	—	25	—	12.00 (305)	15.31 (389)	5.00 (130)	43.54 (1106)	853 (386.9)	956 (433.6)	
286TC	30	—	30	—	12.00 (305)	15.31 (389)	5.00 (130)	43.54 (1106)	905 (410.5)	1000 (453.6)	
324TC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (150)	44.47 (1130)	1050 (476.3)	1115 (505.8)	

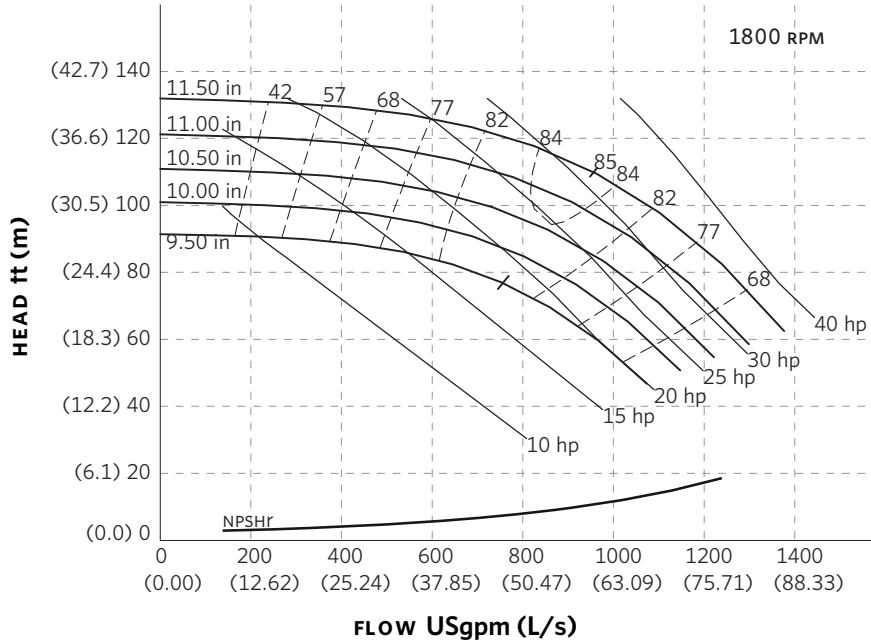
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
9.80 (249)	8.50 (216)	16.50 (419)	18.50 (470)	35.00 (889)	9.75 (248)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT105-1-0-1800

Series
4300
4380

Size
6 × 6 × 11.5

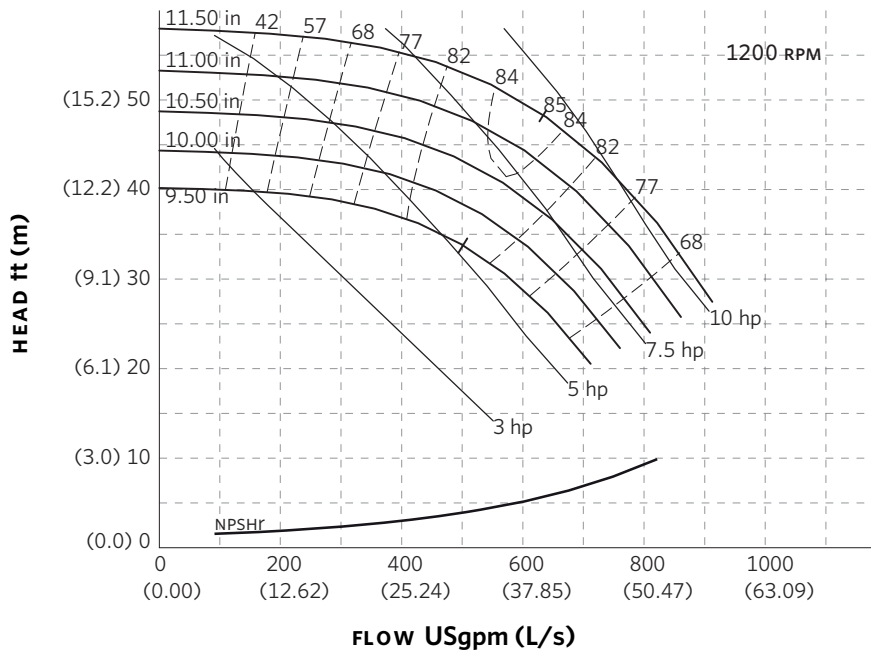
RPM
1800

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. 1.000



Curve number
PT105-1-0-1200

Series
4300
4380

Size
6 × 6 × 11.5

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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HALESOWEN, WEST MIDLANDS
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201401
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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **6 x 6 x 13** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
_____	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

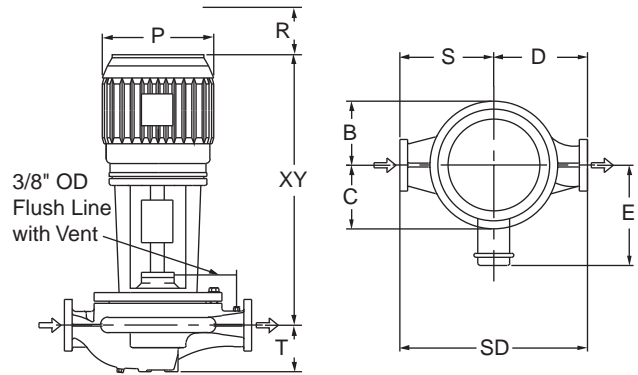
MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 150 mm (6")	DISCHARGE: 150 mm (6")	

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				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES



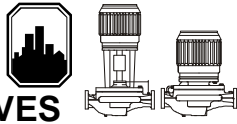
MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
278 (10.94)	227 (8.95)	432 (17.00)	483 (19.00)	914 (36.0)	260 (10.25)

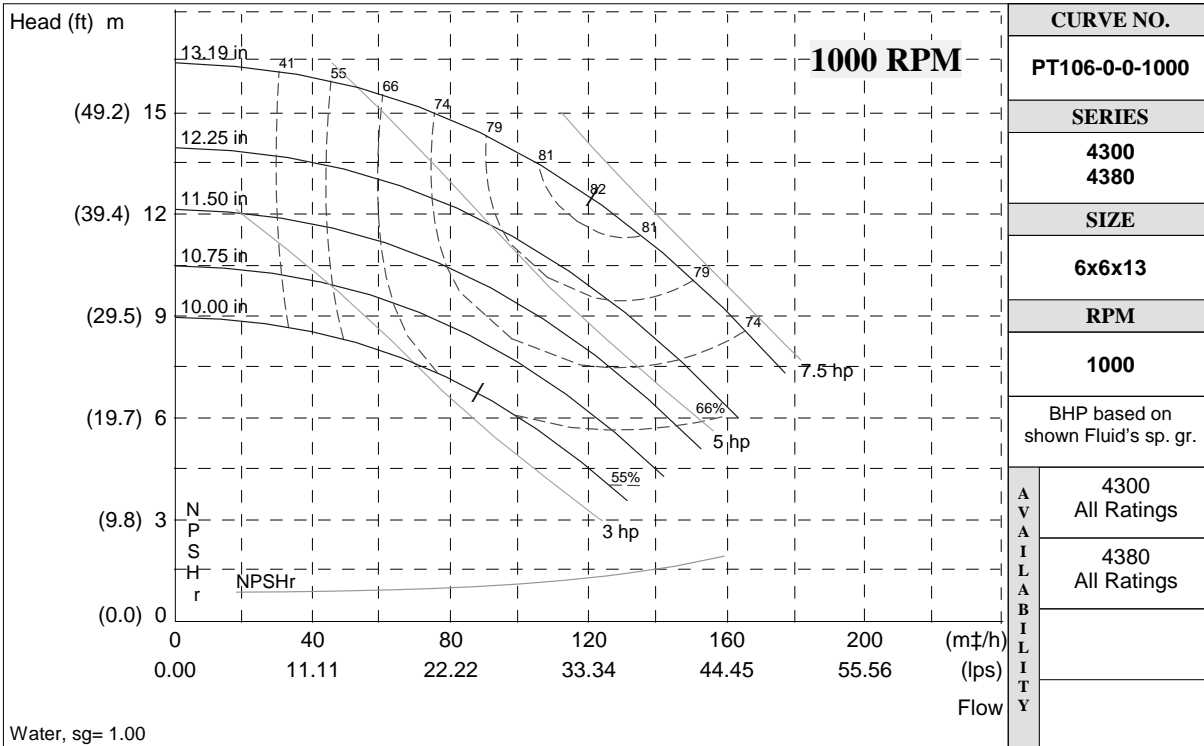
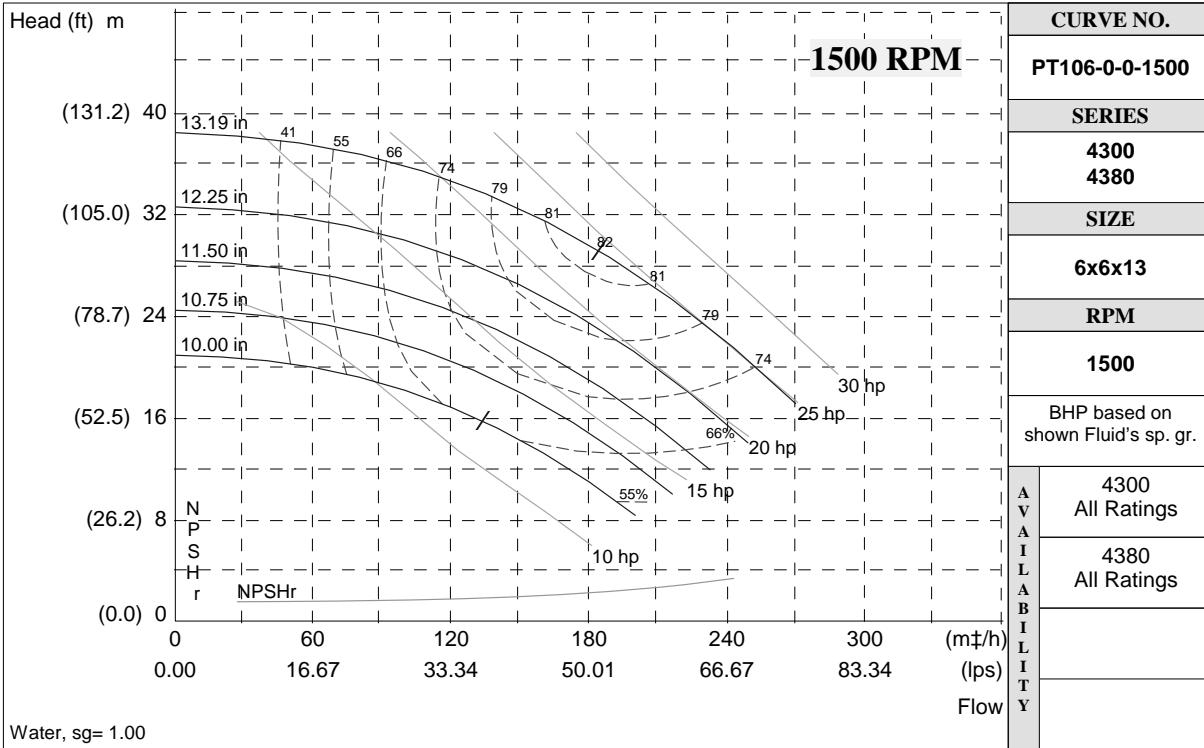
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC			kg (lbs.)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	813 (31.99)	317.8 (700)	349.6 (770)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	938 (36.93)	374.6 (825)	395.0 (870)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	938 (36.93)	376.8 (830)	408.6 (900)
---	25	---	25	284TC	305 (12.00)	389 (15.31)	130 (5.00)	1111 (43.75)	410.9 (905)	413.1 (910)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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 F (Main): (416) 759-9101

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 North Tonawanda, New York
 U.S.A. 14120-6594
 T: (716) 693-8813
 F: (716) 693-8970

Armstrong Integrated Limited
 Wenlock Way
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 United Kingdom, M12 5JL
 T: +44 (0) 8444 145 145
 F: +44 (0) 8444 145 146



SERIES 4300 | VERTICAL IN-LINE

6×6×13 | SUBMITTAL

File No: 43-545
 Date: NOV. 26, 2014
 Supersedes: 43-545
 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: 6" (150 MM) Discharge: 6" (150 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

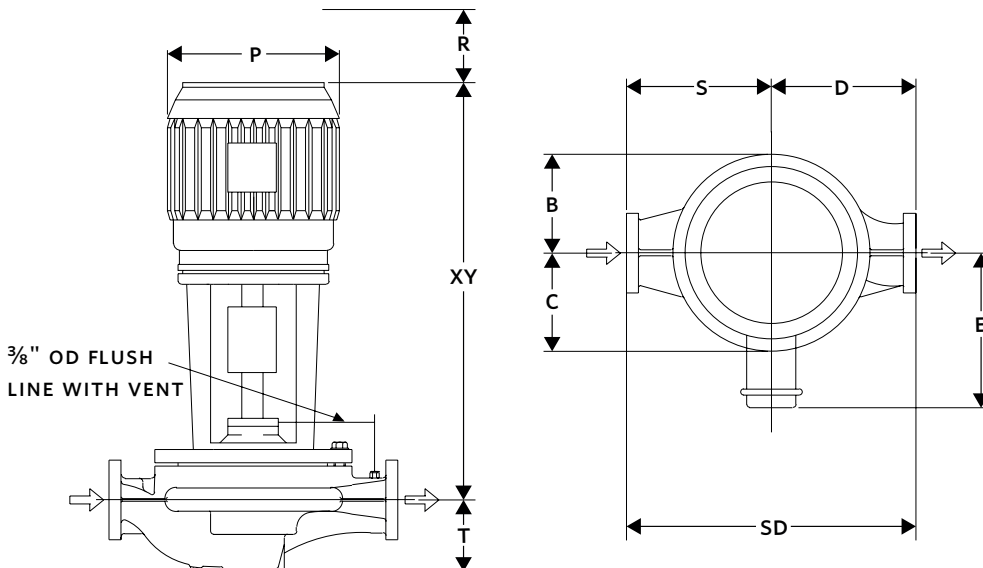
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
254TC	—	7.5	—	7.5	9.94 (252)	13.38 (340)	5.00 (127)	36.88 (937)	670 (303.9)	697 (316.2)
256TC	—	10	—	10	9.94 (252)	13.38 (340)	5.00 (127)	36.88 (937)	715 (324.3)	739 (335.2)
284TC	25	15	25	15	12.00 (305)	15.31 (389)	5.00 (127)	43.70 (1110)	803 (364.2)	906 (411.0)
286TC	30	20	30	20	12.00 (305)	15.31 (389)	6.00 (152)	43.70 (1110)	855 (387.8)	950 (430.9)
324TC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (152)	44.64 (1134)	1000 (453.6)	1065 (483.1)
326TC	50	—	50	—	13.91 (353)	17.00 (432)	6.00 (152)	44.64 (1134)	1020 (462.7)	1303 (591.0)
364TC	60	—	60	—	16.44 (418)	19.03 (483)	7.00 (178)	43.86 (1114)	1285 (582.9)	1363 (618.2)

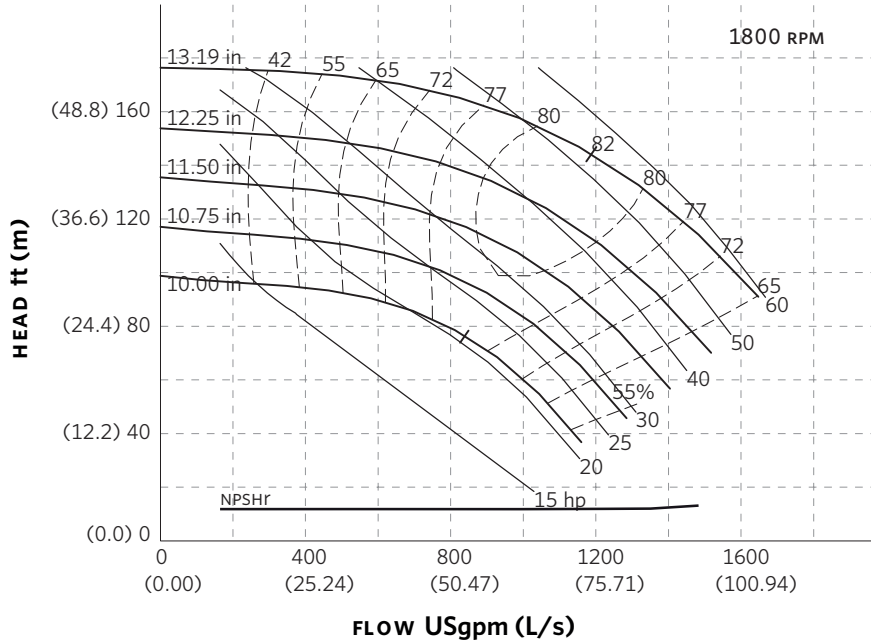
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

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



SERIES 4300 PERFORMANCE CURVES



Curve number
PT106-3-0-1800

Series
4300
4380

Size
6 × 6 × 13

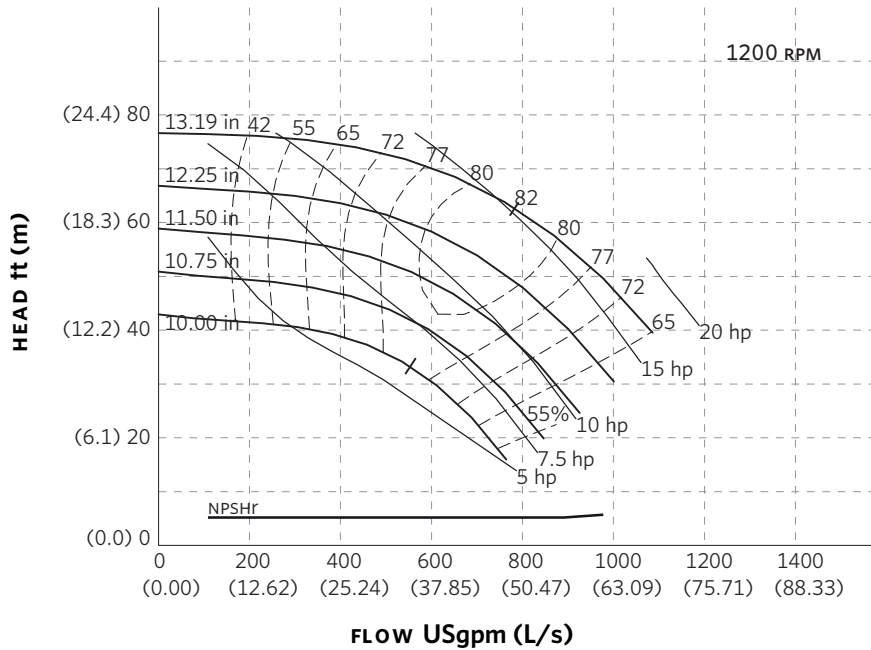
RPM
1800

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. 1.000



Curve number
PT106-3-0-1200

Series
4300
4380

Size
6 × 6 × 13

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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SERIES 4300 | VERTICAL IN-LINE

6×6×13H | SUBMITTAL

File No: 43.546
 Date: NOV. 26, 2014
 Supersedes: 43.546
 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: 6" (150 MM) Discharge: 6" (150 MM)

MOTOR DESIGN DATA

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

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.

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

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

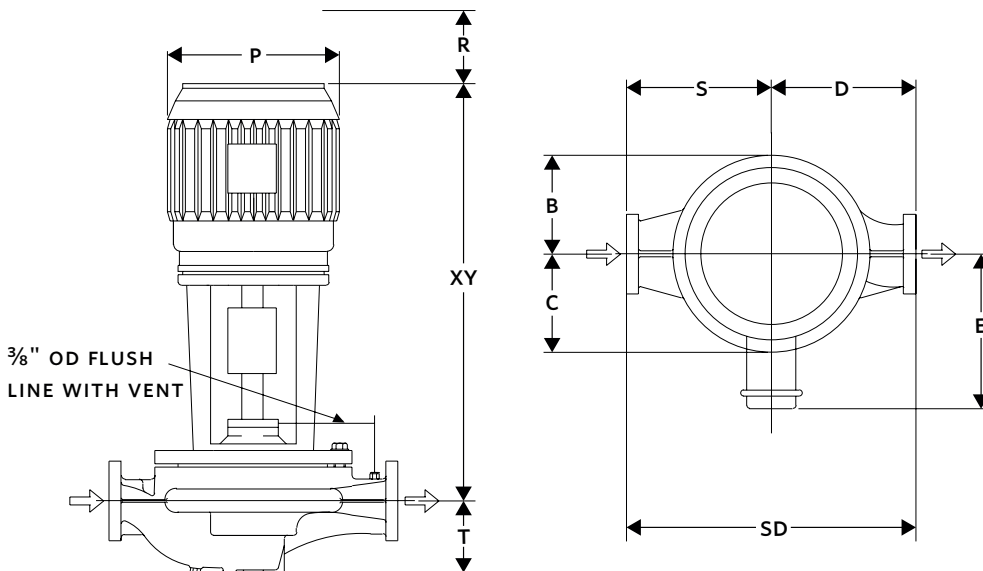
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
256TC	—	10	—	10	9.94 (252)	13.38 (340)	5.00 (127)	36.88 (937)	691 (313.4)	731 (331.6)
284TC	—	15	—	15	12.00 (305)	15.31 (389)	5.00 (127)	43.70 (1110)	825 (374.2)	785 (356.1)
286TC	30	20	30	20	12.00 (305)	15.31 (389)	6.00 (152)	43.70 (1110)	855 (387.8)	950 (430.9)
324TC	40	25	40	25	13.91 (353)	17.00 (432)	6.00 (152)	44.64 (1134)	1000 (453.6)	1065 (483.1)
326TC	50	—	50	—	13.91 (353)	17.00 (432)	6.00 (152)	44.64 (1134)	1020 (462.7)	1303 (591.0)
364TC	60	—	60	—	16.44 (418)	19.03 (483)	7.00 (178)	43.86 (1114)	1285 (582.9)	1363 (618.2)
365TC	75	—	75	—	16.44 (418)	19.03 (483)	7.00 (178)	43.86 (1114)	1095 (496.7)	1472 (667.7)
404TC	100	—	—	—	17.69 (449)	21.41 (544)	8.00 (203)	51.52 (1309)	1403 (636.4)	—
405TC	—	—	100	—	17.69 (449)	21.41 (544)	8.00 (203)	51.52 (1309)	—	1727 (783.4)

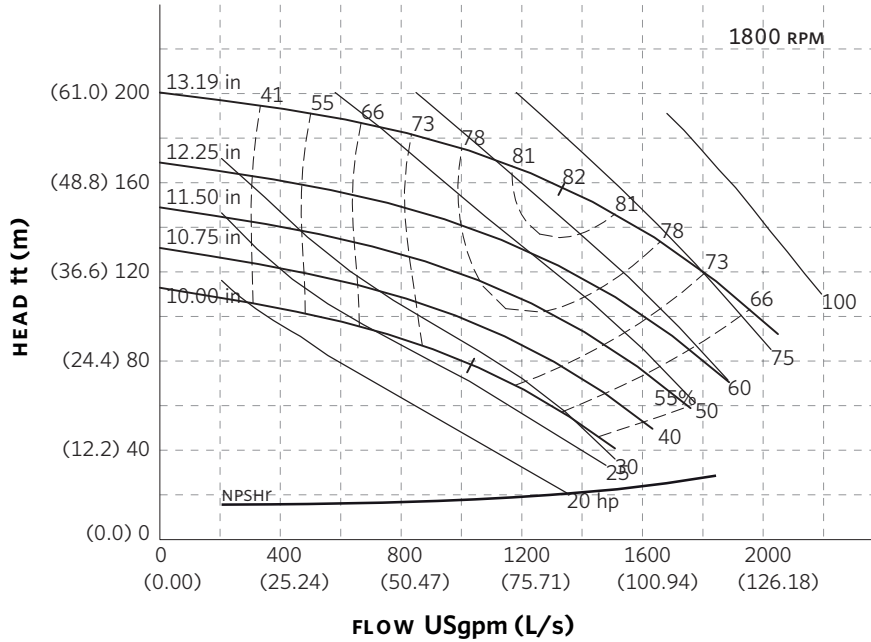
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

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



SERIES 4300 PERFORMANCE CURVES



Curve number
PT596-0-0-1800

Series
4300
4380

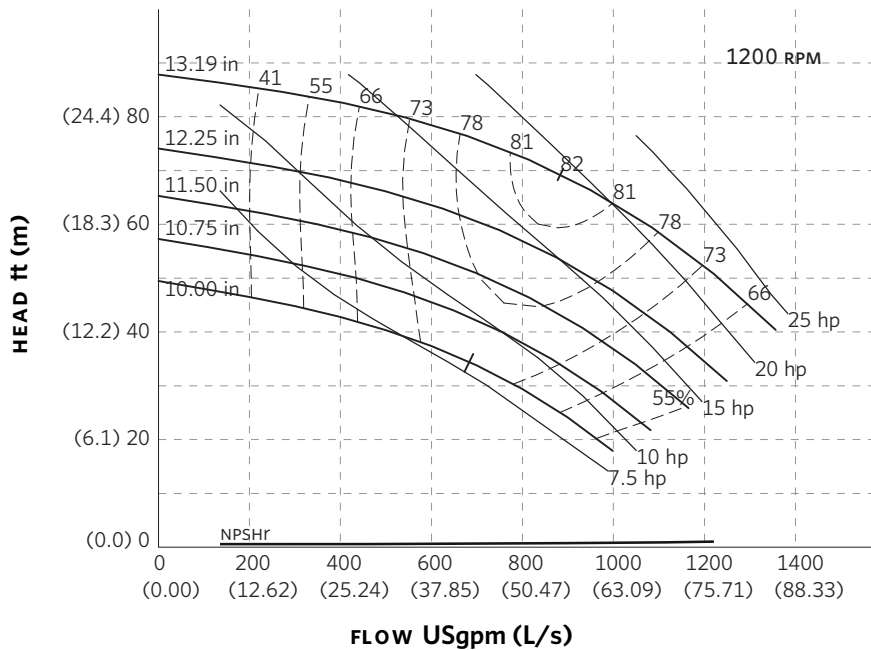
Size
6 × 6 × 13H

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. 1.000



Curve number
PT596-0-0-1200

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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Series 4300 Vertical In-Line

8 x 8 x 8

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 200 mm (8")	DISCHARGE: 200 mm (8")	

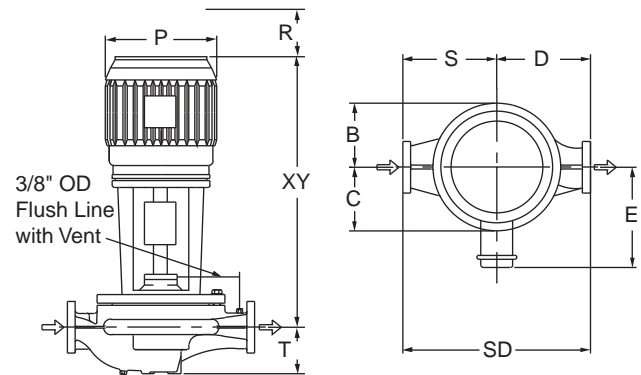
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

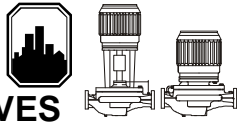


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
289 (11.37)	214 (8.43)	406 (16.00)	559 (22.00)	965 (38.00)	316 (12.43)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

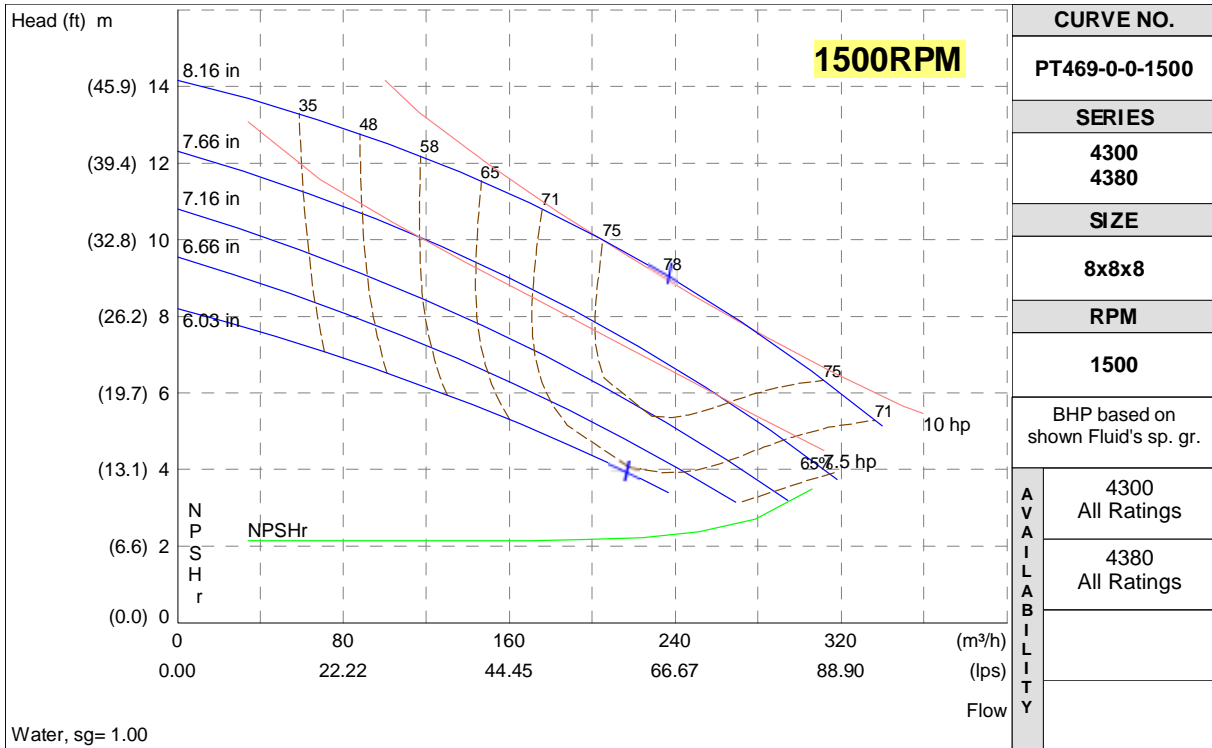
MOTOR HORSEPOWER		MAX. DIMENSIONS mm (inches)				MAX. ASSEMBLY WEIGHT*
ODP / TEFC	Frame	ODP / TEFC				kg (lbs.)
1500rpm		E	P	R	XY	
5	184TC	191 (7.50)	264 (10.38)	100 (4.00)	762 (30.00)	282.4 (622)
7.5	213TC	210 (8.25)	308 (12.13)	100 (4.00)	838 (33.00)	299.6 (660)
10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	838 (33.00)	306.5 (675)

*Assembly weight combines pump and motor.

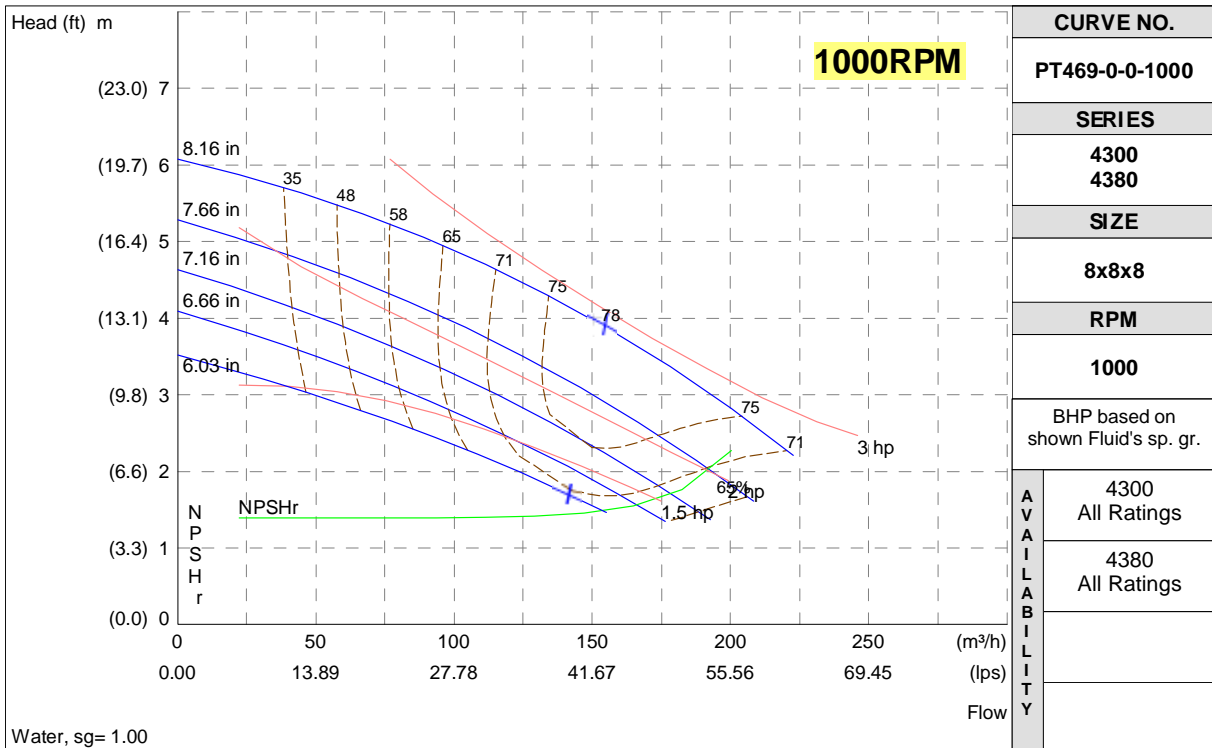


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	
PT469-0-0-1500	
SERIES	
4300 4380	
SIZE	
8x8x8	
RPM	
1500	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings
Flow	



CURVE NO.	
PT469-0-0-1000	
SERIES	
4300 4380	
SIZE	
8x8x8	
RPM	
1000	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings
Flow	

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 U.S.A. 14120-6594
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 F: (716) 693-8970

Armstrong Integrated Limited
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 F: +44 (0) 8444 145 146



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SERIES 4300 | VERTICAL IN-LINE

8×8×8 | SUBMITTAL

File No: 43.520
 Date: NOV. 26, 2014
 Supersedes: 43.5120
 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: 8" (200 MM) Discharge: 8" (200 MM)

MOTOR DESIGN DATA

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

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.

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

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

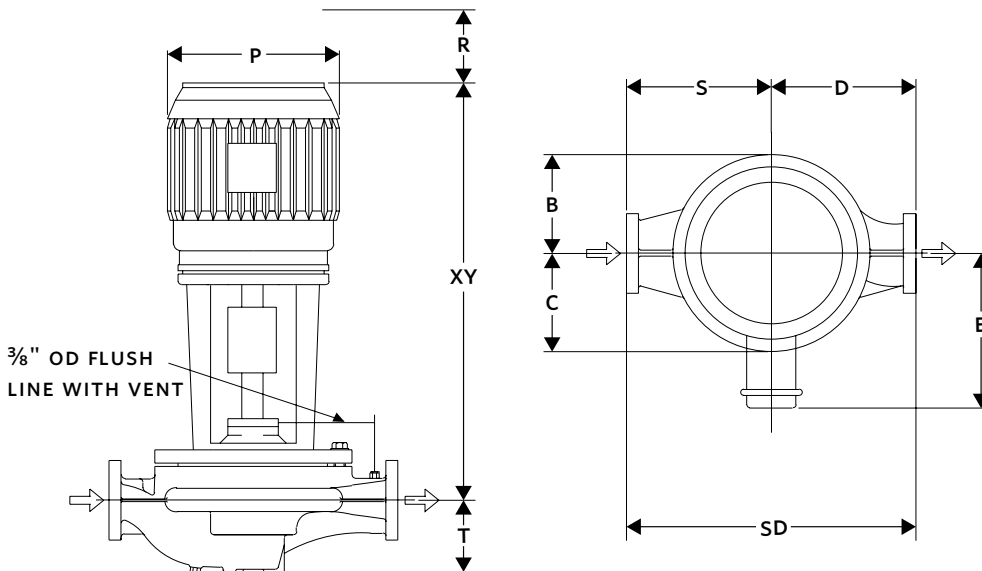
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
213TC	7.5	3	7.5	3	8.25 (210)	12.13 (308)	4.00 (100)	33.00 (838)	695 (315.2)	745 (337.9)
215TC	10	5	10	5	8.25 (210)	12.13 (308)	4.00 (100)	33.00 (838)	710 (322.1)	752 (341.1)
254TC	15	—	15	—	9.94 (252)	13.38 (340)	5.00 (110)	38.00 (965)	837 (379.7)	871 (395.1)
256TC	20	—	20	—	9.94 (252)	13.38 (340)	5.00 (110)	38.00 (965)	880 (399.2)	904 (410.0)

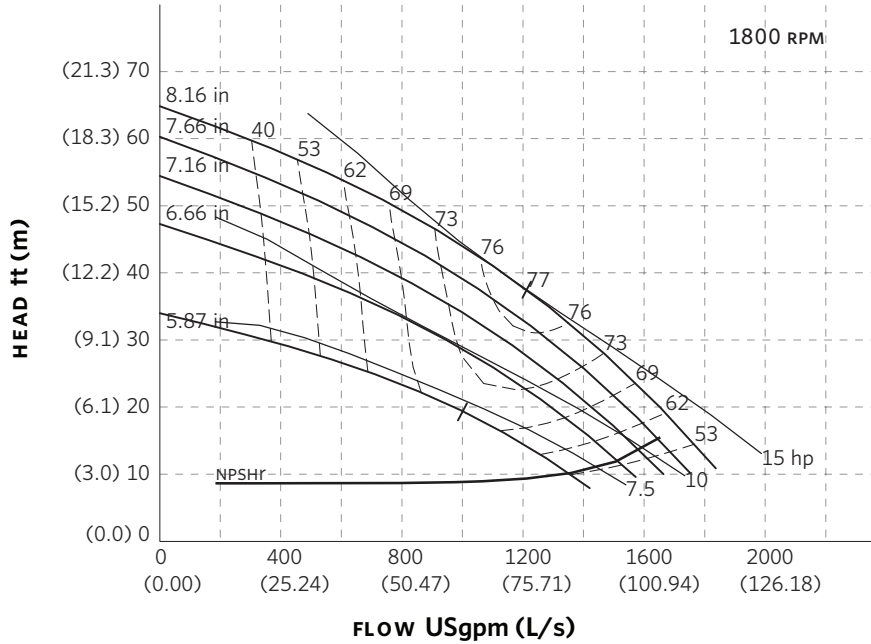
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
11.37 (289)	8.43 (214)	16.00 (406)	22.00 (559)	38.00 (965)	12.43 (316)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT469-1-0-1800

Series
4300
4380

Size
8 × 8 × 8

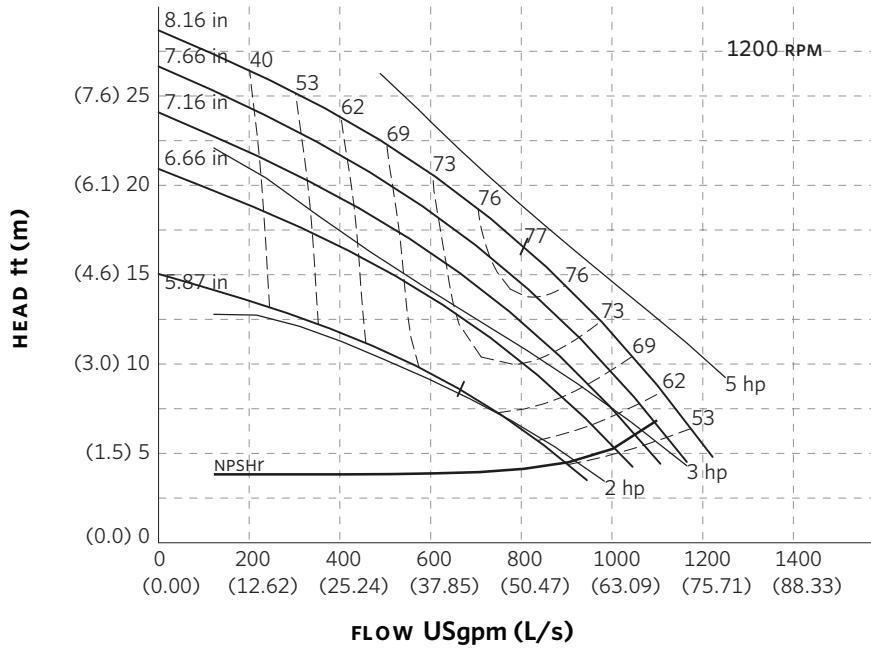
RPM
1800

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. 1.000



Curve number
PT469-1-0-1200

Series
4300
4380

Size
8 × 8 × 8

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
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SENSE™**

Series 4300 Vertical In-Line **8 x 8 x 10** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 200 mm (8")	DISCHARGE: 200 mm (8")	

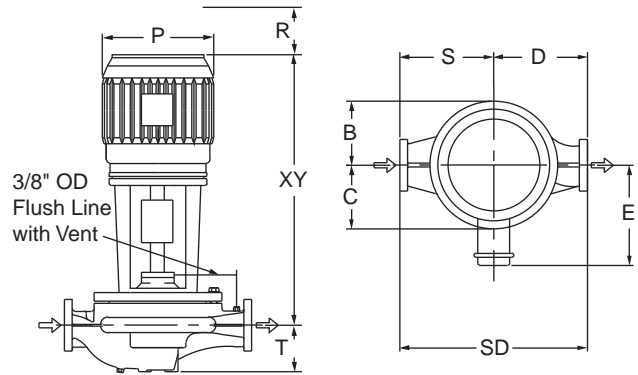
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

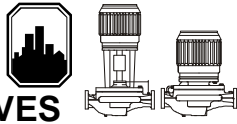


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
292 (11.50)	225 (8.87)	432 (17.00)	559 (22.00)	991 (39.00)	248 (9.75)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

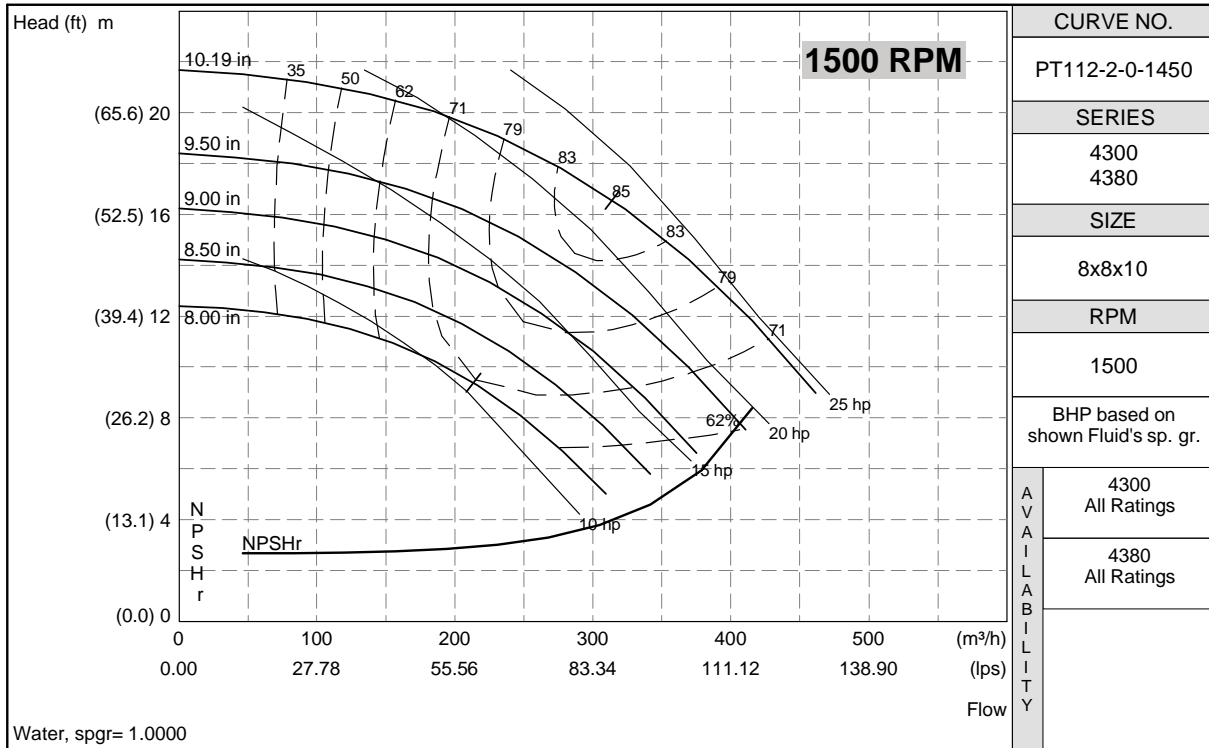
MOTOR HORSEPOWER				Frame	MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC			ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	10	---	10	215TC	210 (8.25)	308 (12.13)	100 (4.00)	754 (29.69)	281.5 (620)	290.6 (640)
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	880 (34.63)	304.2 (670)	322.3 (710)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	880 (34.63)	308.7 (680)	340.5 (750)
---	25	---	25	284TC	305 (12.00)	389 (15.31)	130 (5.00)	1115 (43.89)	340.5 (750)	358.7 (790)

*Assembly weight combines pump and motor.

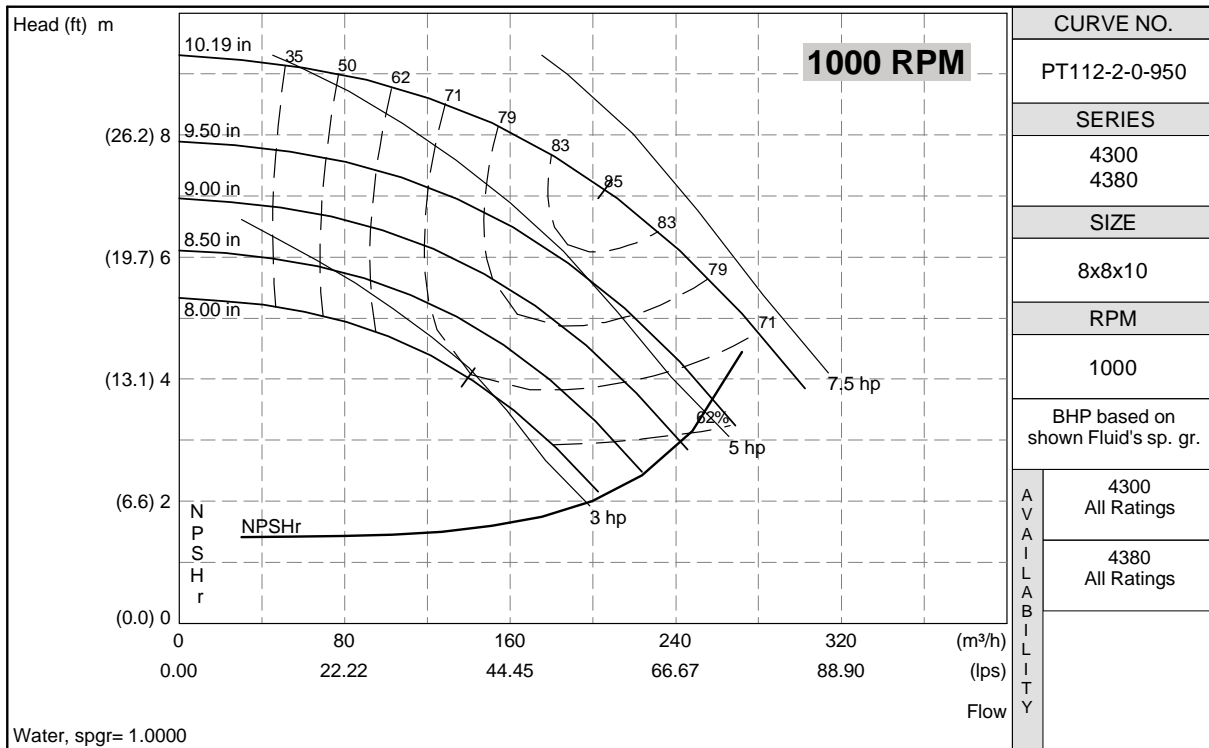


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	
PT112-2-0-1450	
SERIES	
4300 4380	
SIZE	
8x8x10	
RPM	
1500	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings



CURVE NO.	
PT112-2-0-950	
SERIES	
4300 4380	
SIZE	
8x8x10	
RPM	
1000	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE 8×8×10 | SUBMITTAL

File No: 43-529
Date: NOV. 26, 2014
Supersedes: 43-529
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: 8" (200 MM) Discharge: 8" (200 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

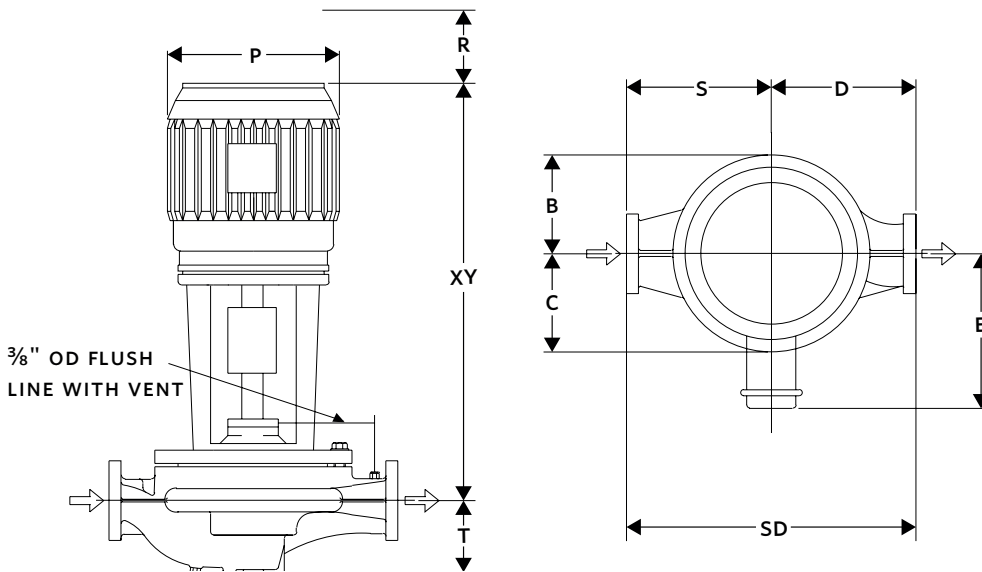
See file no. 43.50 for environmental accessories

MOTOR	DIMENSIONS INCHES (mm)								WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
213TC	—	—	—	5	8.25 (210)	12.13 (308)	4.00 (100)	29.69 (754)	520 (235.9)	520 (235.9)
215TC	—	5	—	—	8.25 (210)	12.13 (308)	4.00 (100)	29.69 (754)	629 (285.3)	695 (315.2)
254TC	15	7.5	15	7.5	9.94 (252)	13.38 (340)	5.00 (110)	34.63 (880)	777 (352.4)	811 (367.9)
256TC	20	10	20	10	9.94 (252)	13.38 (340)	5.00 (110)	34.63 (880)	820 (371.9)	844 (382.8)
284TC	25	15	25	15	12.00 (305)	15.31 (389)	5.00 (130)	43.89 (1115)	918 (416.4)	1021 (463.1)
286TC	30	—	30	—	12.00 (305)	15.31 (389)	5.00 (130)	43.89 (1115)	970 (440.0)	1065 (483.1)
324TSC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (150)	44.83 (1139)	1115 (505.8)	1180 (535.2)
326TSC	50	—	50	—	13.91 (353)	17.00 (432)	6.00 (150)	44.83 (1139)	1135 (514.8)	1418 (643.2)

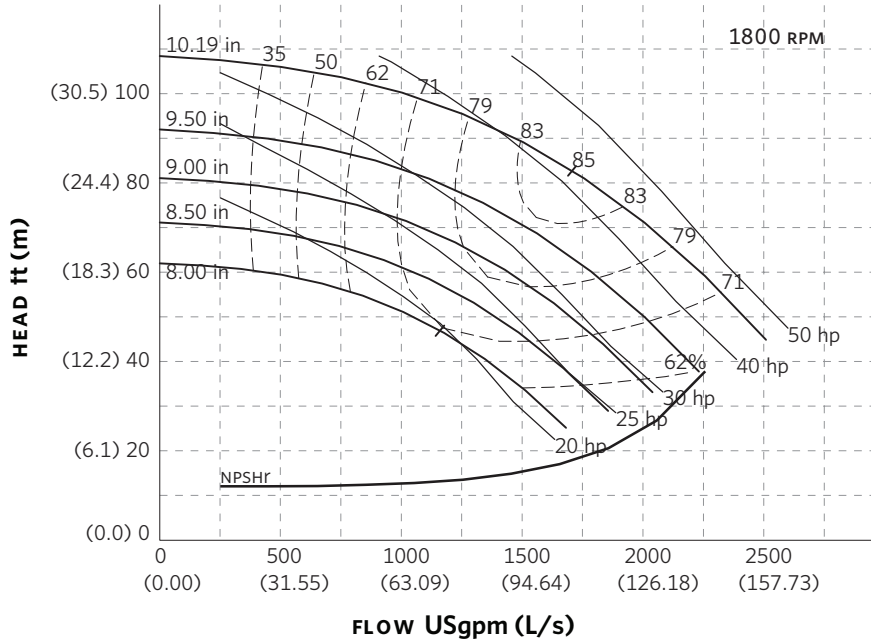
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
11.50 (292)	8.87 (225)	17.00 (432)	22.00 (559)	39.00 (991)	9.75 (248)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT112-2-0-1800

Series
4300
4380

Size
8 × 8 × 10

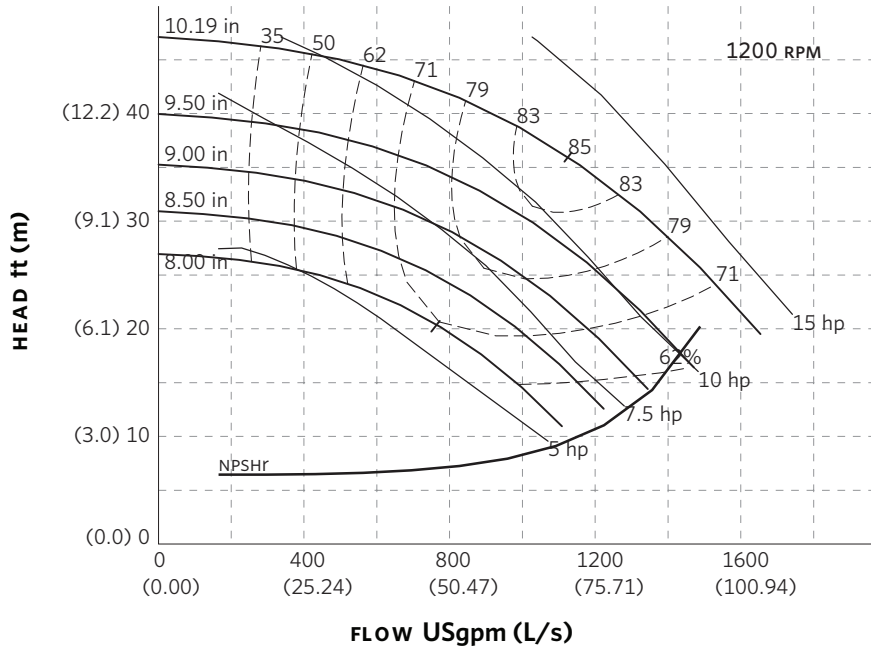
RPM
1800

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. 1.000



Curve number
PT112-2-0-1200

Series
4300
4380

Size
8 × 8 × 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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
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MAKE
SENSE™**

Series 4300 Vertical In-Line **8 x 8 x 11.5** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11 <input type="checkbox"/> NEMA PREMIUM 12.12		
FLANGE SIZE:	SUCTION: 200 mm (8")	DISCHARGE: 200 mm (8")	

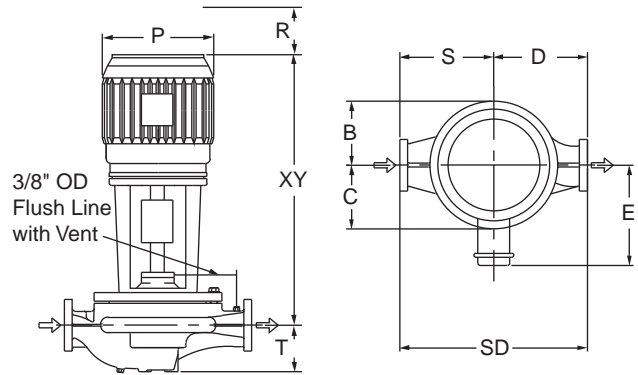
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



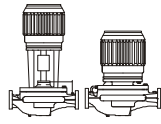
PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
292 (11.50)	241 (9.50)	445 (17.50)	559 (22.00)	100 (39.50)	254 (10.00)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)					ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				ODP	TEFC
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY		
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	879 (34.60)	331.4 (730)	349.6 (770)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	879 (34.60)	336.0 (740)	367.7 (810)
---	25	---	25	284TC	305 (12.00)	389 (15.31)	130 (5.00)	1115 (43.92)	363.2 (800)	381.4 (840)
---	30	---	30	286TC	305 (12.00)	389 (15.31)	130 (5.00)	1115 (43.92)	372.3 (820)	390.4 (860)
---	40	---	40	324TC	353 (13.91)	432 (17.00)	150 (6.00)	1139 (44.85)	442.7 (975)	522.1 (1150)

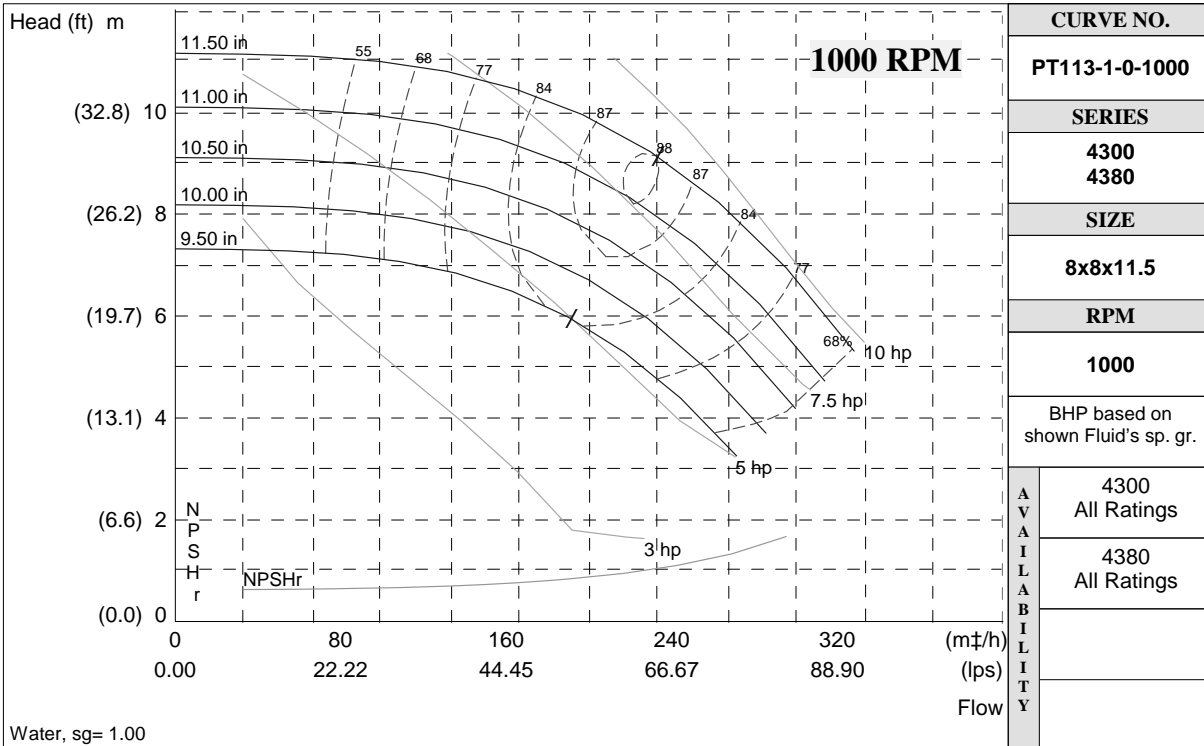
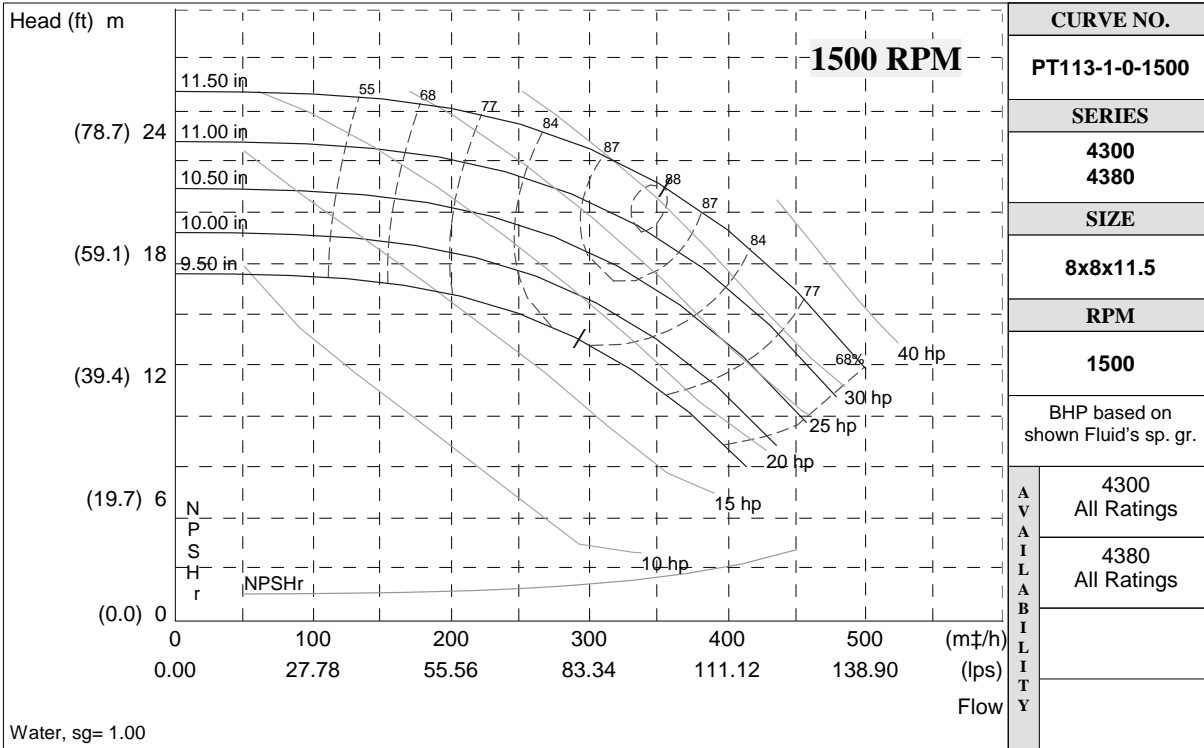
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

8×8×11.5 | SUBMITTAL

File No: 43-537
 Date: NOV. 26, 2014
 Supersedes: 43-537
 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: 8" (200 MM) Discharge: 8" (200 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

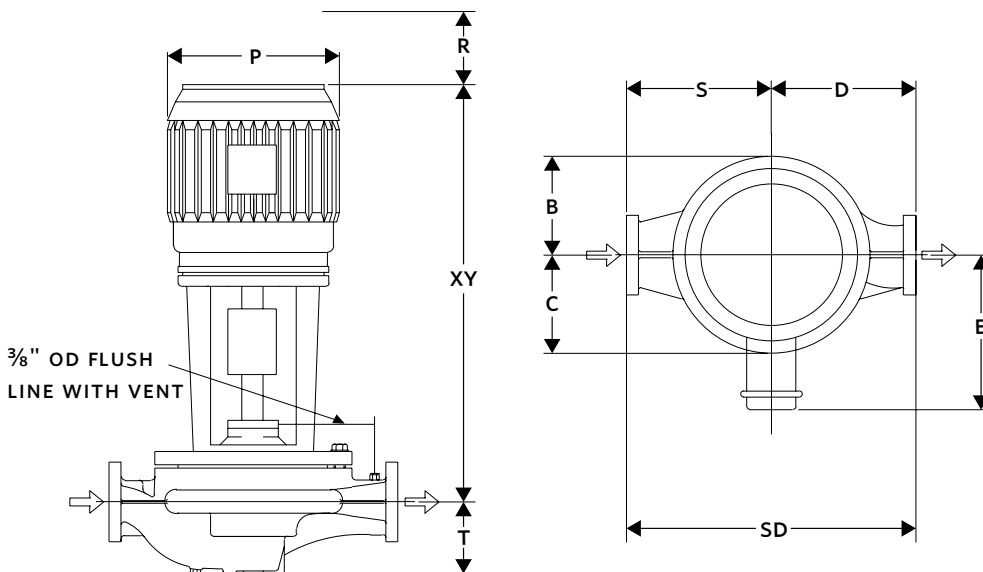
See file no. 43.50 for environmental accessories

MOTOR		DIMENSIONS INCHES (mm)								WEIGHT*	
FRAME	ODP		TEFC		ODP/ TEFC				lbs (kgs)		
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC	
254TC	—	7.5	—	7.5	9.94 (252)	13.38 (340)	5.00 (110)	34.60 (879)	835 (378.7)	862 (391.0)	
256TC	—	10	—	10	9.94 (252)	13.38 (340)	5.00 (110)	34.60 (879)	856 (388.3)	896 (406.4)	
284TC	25	15	25	15	12.00 (305)	15.31 (389)	5.00 (130)	43.92 (1115)	968 (439.1)	1071 (485.8)	
286TC	30	20	30	20	12.00 (305)	15.31 (389)	5.00 (130)	43.92 (1115)	1020 (462.7)	1115 (505.8)	
324TC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (150)	44.85 (1139)	1165 (528.4)	1230 (557.9)	
326TC	50	—	50	—	13.91 (353)	17.00 (432)	6.00 (150)	44.85 (1139)	1185 (537.5)	1468 (665.9)	
364TC	60	—	60	—	16.44 (418)	19.03 (483)	7.00 (160)	43.03 (1093)	1450 (657.7)	1528 (693.1)	
365TC	75	—	75	—	16.44 (418)	19.03 (483)	7.00 (160)	43.03 (1093)	1260 (571.5)	1637 (742.5)	

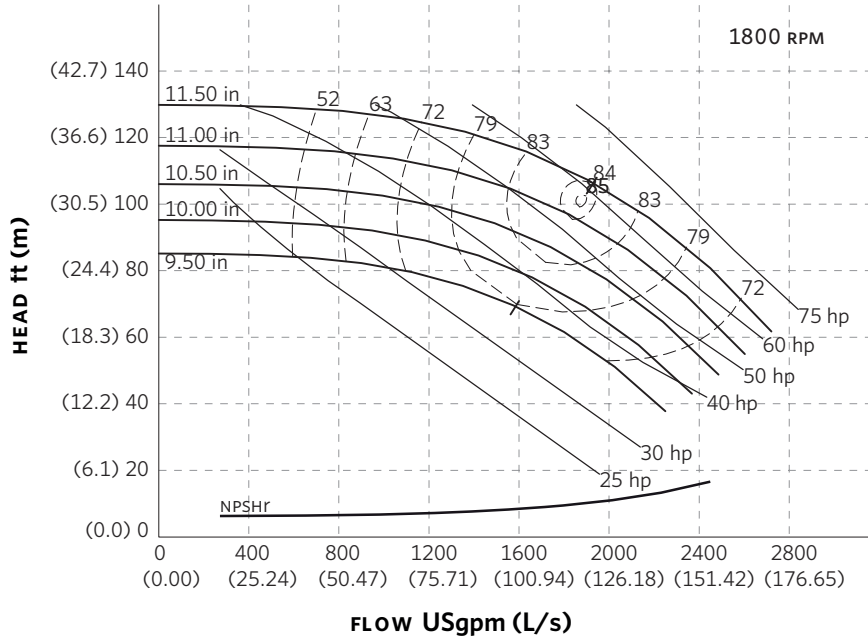
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
11.50 (292)	9.50 (241)	17.50 (445)	22.00 (559)	39.50 (1003)	10.00 (254)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT113-1-0-1800

Series
4300
4380

Size
8 × 8 × 11.5

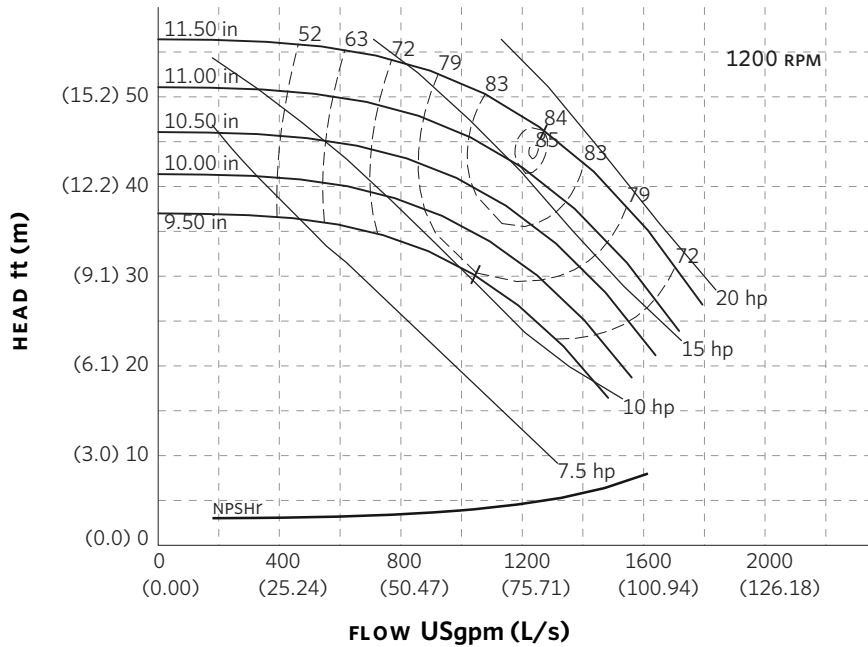
RPM
1800

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. 1.000



Curve number
PT113-1-0-1200

Series
4300
4380

Size
8 × 8 × 11.5

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **8 x 8 x 13** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 200 mm (8")	DISCHARGE: 200 mm (8")	

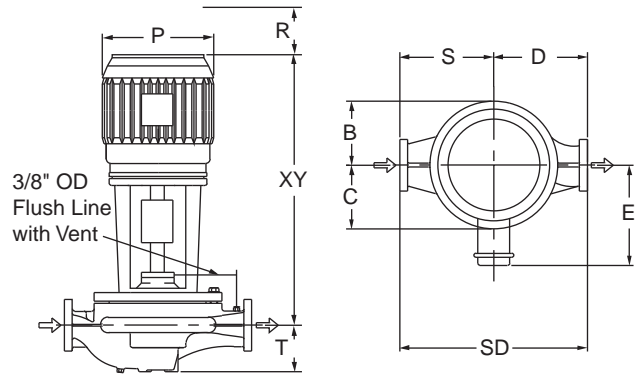
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

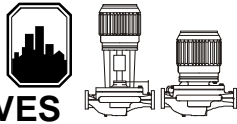


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
305 (12.00)	248 (9.75)	483 (19.00)	584 (23.00)	1067 (42.00)	252 (9.94)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

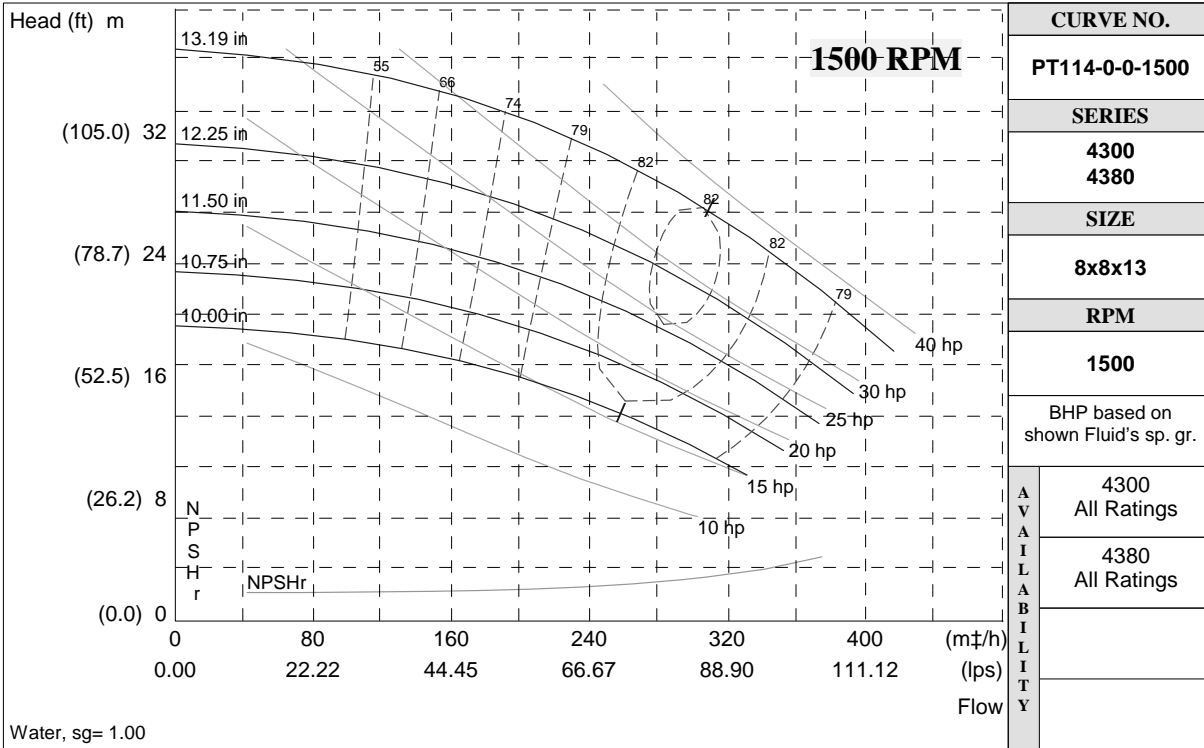
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	15	---	15	254TC	252 (9.94)	340 (13.38)	110 (5.00)	940 (37.00)	429.0 (945)	449.5 (990)
---	20	---	20	256TC	252 (9.94)	340 (13.38)	110 (5.00)	940 (37.00)	431.3 (950)	463.1 (1020)
---	25	---	25	284TC	305 (12.00)	389 (15.31)	130 (5.00)	1113 (43.81)	465.4 (1025)	467.6 (1030)
---	30	---	30	286TC	305 (12.00)	389 (15.31)	130 (5.00)	1113 (43.81)	465.4 (1025)	490.3 (1080)
---	40	---	40	324TC	353 (13.91)	432 (17.00)	150 (6.00)	1153 (45.38)	533.5 (1175)	549.3 (1210)

*Assembly weight combines pump and motor.

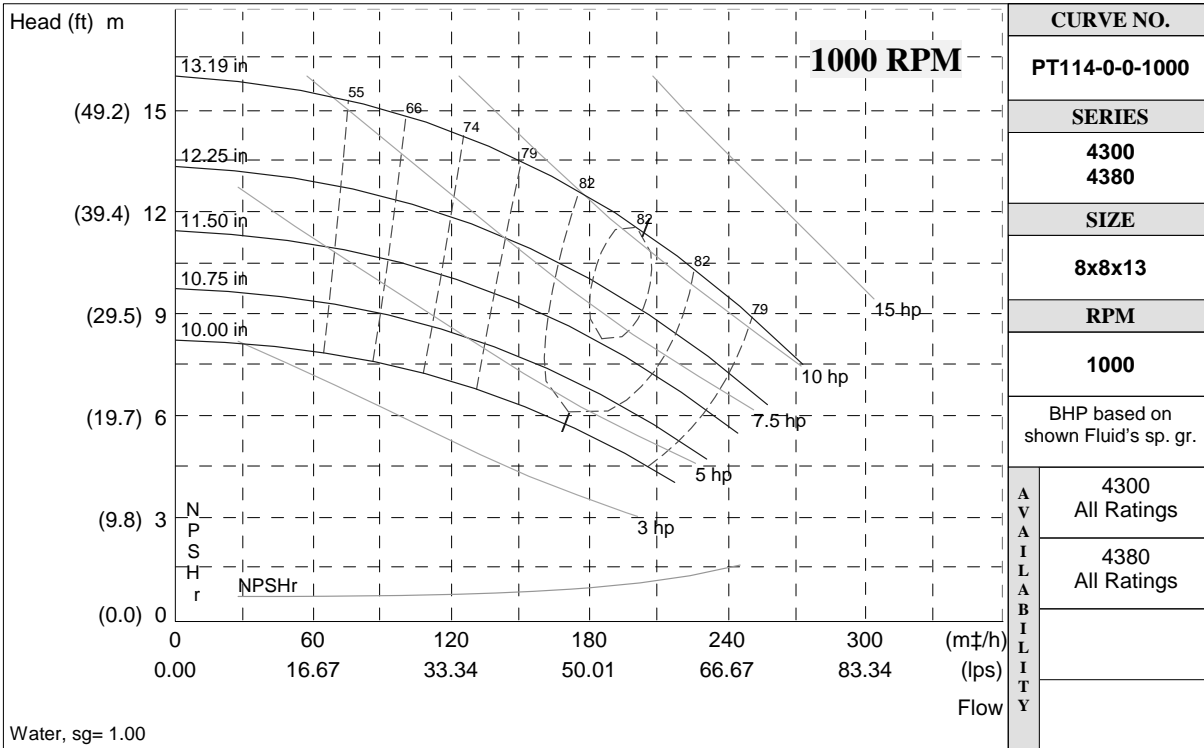


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT114-0-0-1500
SERIES	4300 4380
SIZE	8x8x13
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings



CURVE NO.	PT114-0-0-1000
SERIES	4300 4380
SIZE	8x8x13
RPM	1000
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings
	4380 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

8×8×13 | SUBMITTAL

File No: 43.547
 Date: JAN. 27, 2015
 Supersedes: 43.547
 Date: NOV. 26, 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: 8" (200 MM) Discharge: 8" (200 MM)

MOTOR DESIGN DATA

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

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.

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

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

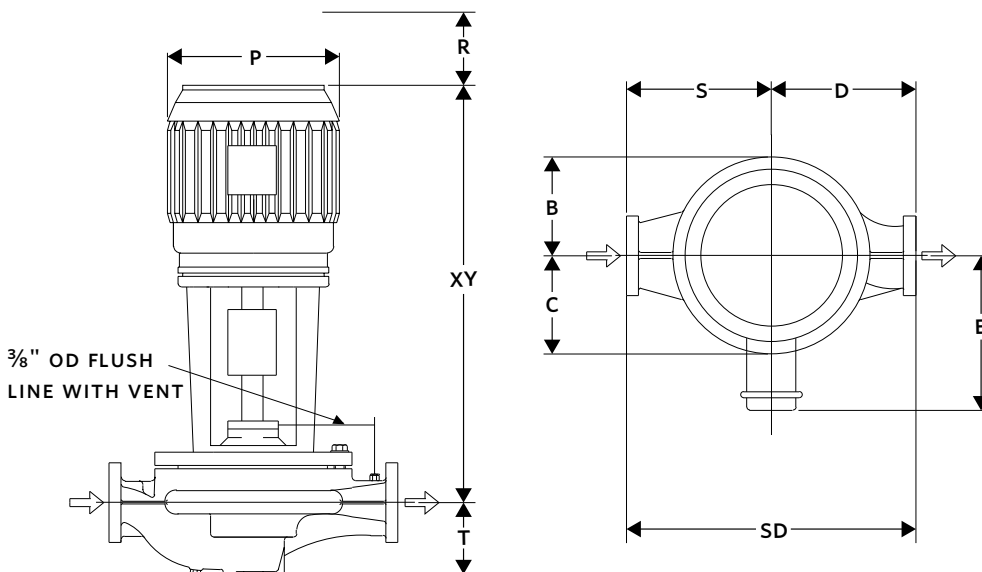
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
254TC	—	7.5	—	7.5	9.94 (252)	13.38 (340)	5.00 (110)	37.00 (940)	895 (406.0)	922 (418.2)
256TC	—	10	—	10	9.94 (252)	13.38 (340)	5.00 (110)	37.00 (940)	916 (415.5)	956 (433.6)
284TC	—	15	—	15	12.00 (305)	15.31 (389)	5.00 (130)	43.81 (1113)	1050 (476.3)	1010 (458.1)
286TC	30	20	30	20	12.00 (305)	15.31 (389)	6.00 (130)	43.81 (1113)	1080 (489.9)	1175 (533.0)
324TC	40	—	40	—	13.91 (353)	17.00 (432)	6.00 (150)	45.38 (1153)	1225 (555.7)	1290 (585.1)
326TC	50	—	50	—	13.91 (353)	17.00 (432)	6.00 (150)	45.38 (1153)	1245 (564.7)	1528 (693.1)
364TC	60	—	60	—	16.44 (418)	19.03 (483)	7.00 (160)	43.56 (1106)	1510 (684.9)	1588 (720.3)
365TC	75	—	75	—	16.44 (418)	19.03 (483)	7.00 (160)	43.56 (1106)	1320 (598.7)	1697 (769.7)

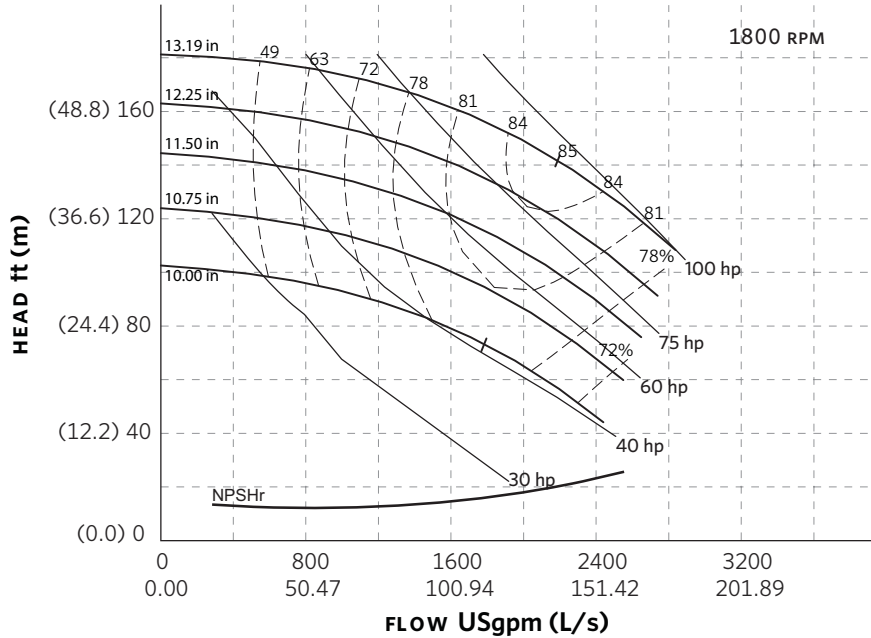
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
12.00 (305)	9.75 (248)	19.00 (483)	23.00 (584)	42.00 (1067)	9.94 (252)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT664-0-0-1800

Series
4300
4380

Size
8 × 8 × 13

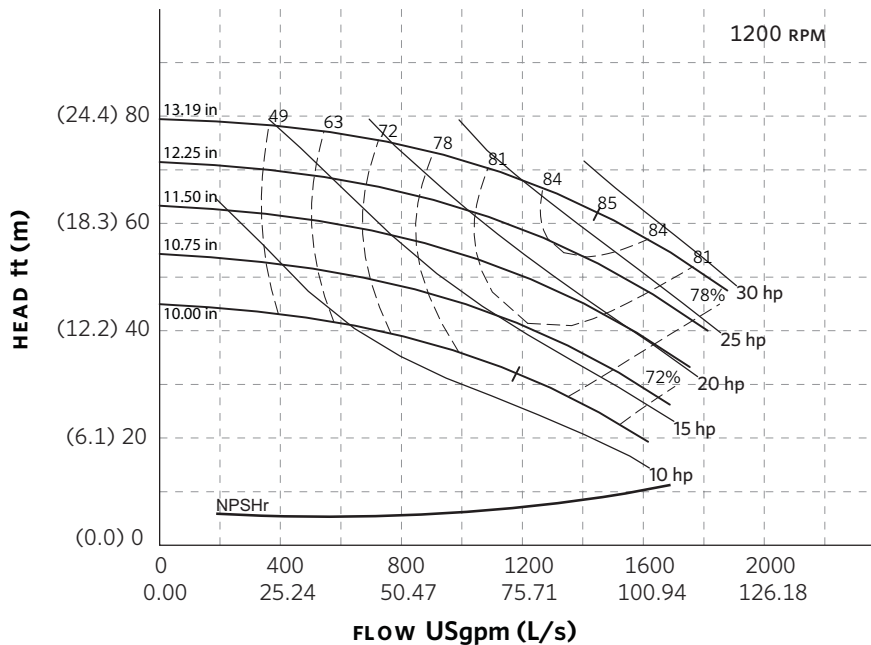
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 FR 326 Max.

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT664-0-0-1200

Series
4300
4380

Size
8 × 8 × 13

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. 1.000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **8 x 8 x 15** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
_____	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 200 mm (8")	DISCHARGE: 200 mm (8")	

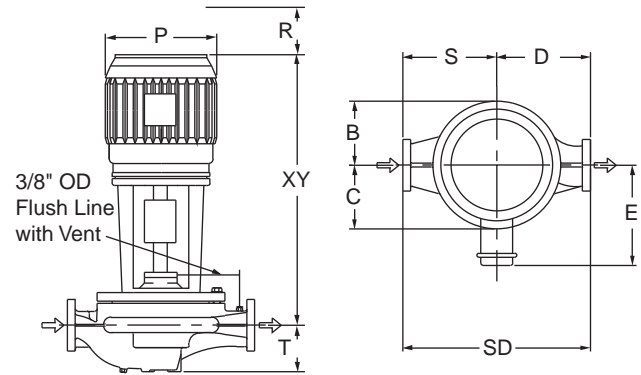
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

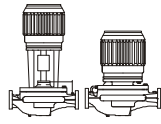


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
351 (13.80)	292 (11.50)	581 (22.88)	657 (25.88)	1239 (48.76)	313 (12.34)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

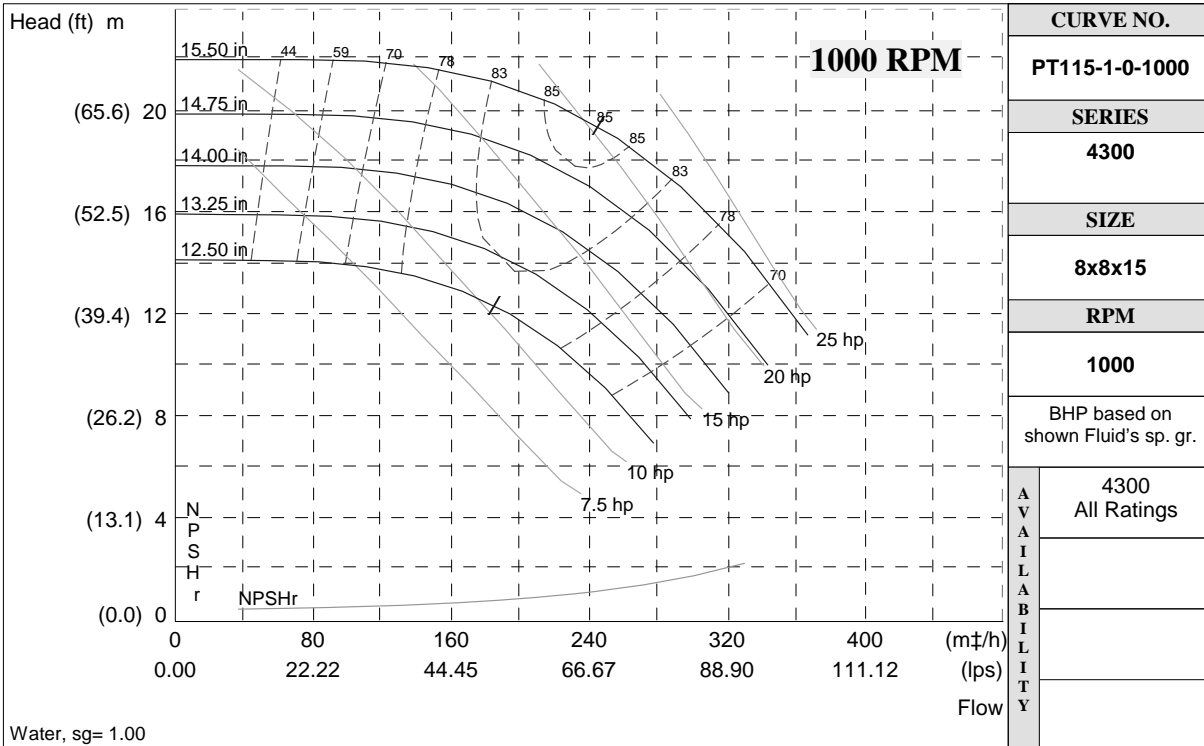
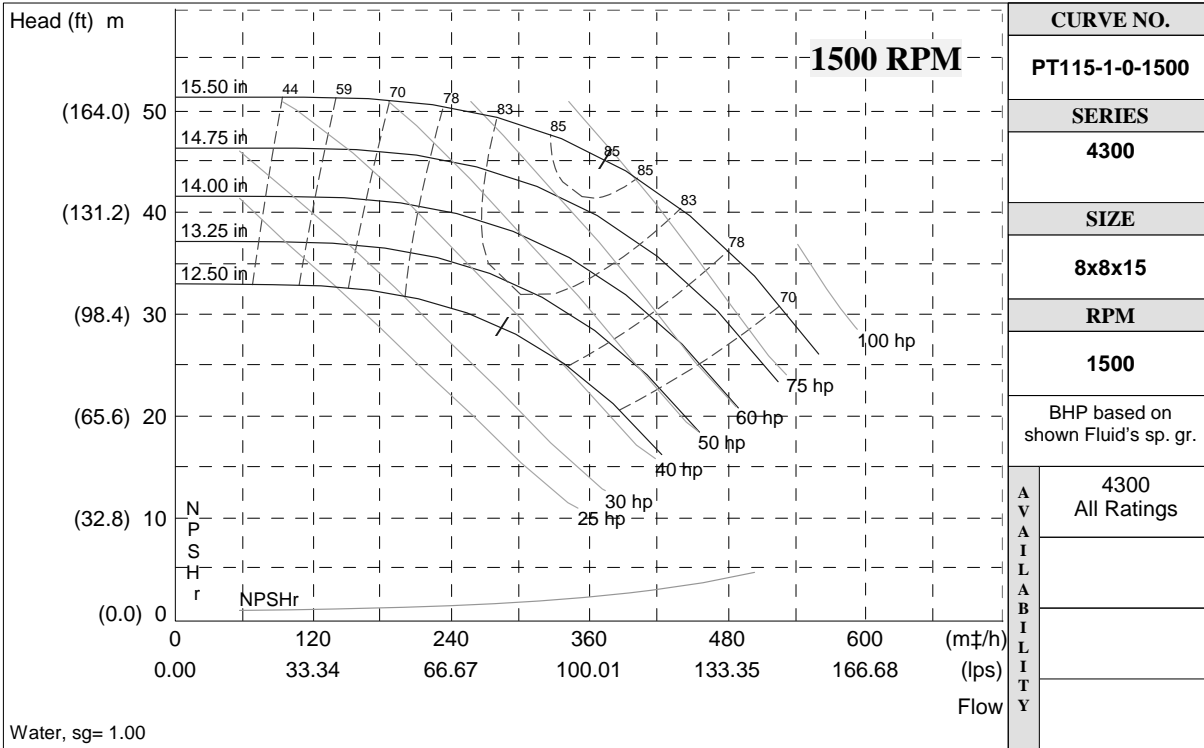
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	40	---	40	324TC	353 (13.91)	432 (17.00)	150 (6.00)	1191 (46.87)	612.9 (1350)	628.8 (1385)
---	50	---	50	326TC	353 (13.91)	432 (17.00)	150 (6.00)	1191 (46.87)	612.9 (1350)	692.4 (1525)
---	60	---	60	364TC	418 (16.44)	483 (19.03)	160 (7.00)	1195 (47.06)	696.9 (1535)	701.4 (1545)
---	75	---	75	365TC	418 (16.44)	483 (19.03)	160 (7.00)	1195 (47.06)	696.9 (1535)	869.4 (1915)
---	100	---	---	404TC	449 (17.69)	544 (21.41)	200 (8.00)	1313 (51.68)	799.0 (1760)	---
---	---	---	100	405TC	449 (17.69)	544 (21.41)	200 (8.00)	1313 (51.68)	---	1082.8 (2385)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE 8×8×15 | SUBMITTAL

File No: 43-555
Date: NOV. 26, 2014
Supersedes: 43-555
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: 8" (200 MM) Discharge: 8" (200 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

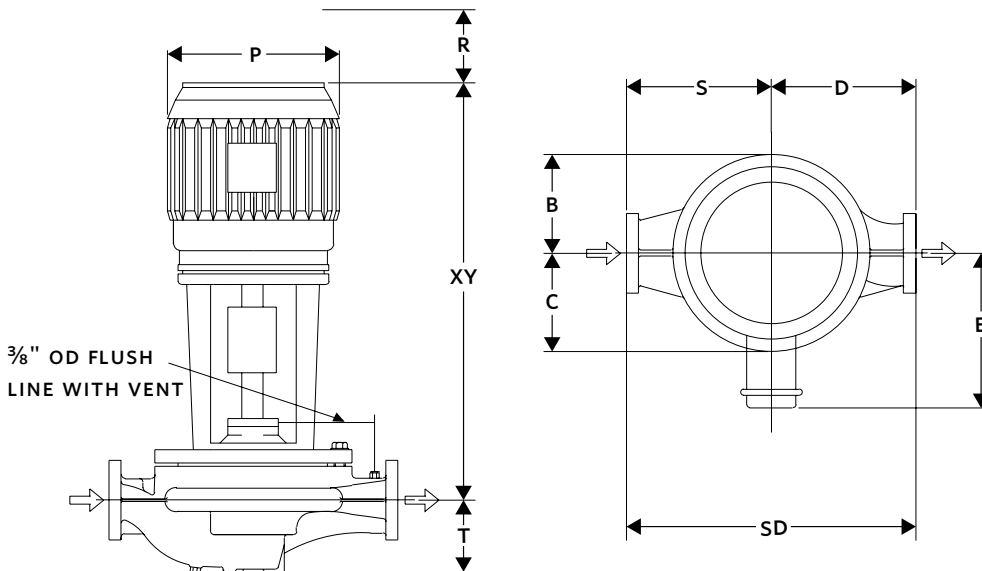
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
324TC	—	25	—	25	13.91 (353)	17.00 (432)	6.00 (150)	46.87 (1191)	1385 (628.2)	1398 (634.1)
326TC	50	30	50	30	13.91 (353)	17.00 (432)	6.00 (150)	46.87 (1191)	1420 (644.1)	1703 (772.5)
364TC	60	40	60	40	16.44 (418)	19.03 (483)	7.00 (160)	45.06 (1144)	1705 (773.4)	1783 (808.8)
365TC	75	50	75	50	16.44 (418)	19.03 (483)	7.00 (160)	45.06 (1144)	1515 (687.2)	1892 (858.2)
404TC	100	—	—	—	17.69 (449)	21.41 (544)	8.00 (200)	51.68 (1313)	1823 (826.9)	—
405TC	125	—	100	—	17.69 (449)	21.41 (544)	8.00 (200)	51.68 (1313)	2492 (1130.4)	2147 (973.9)
444TC	150	—	125	—	18.63 (473)	23.25 (591)	9.00 (230)	62.74 (1594)	2364 (1072.3)	2686 (1218.3)
445TC	—	—	150	—	18.63 (473)	23.25 (591)	9.00 (230)	62.74 (1594)	—	2805 (1272.3)

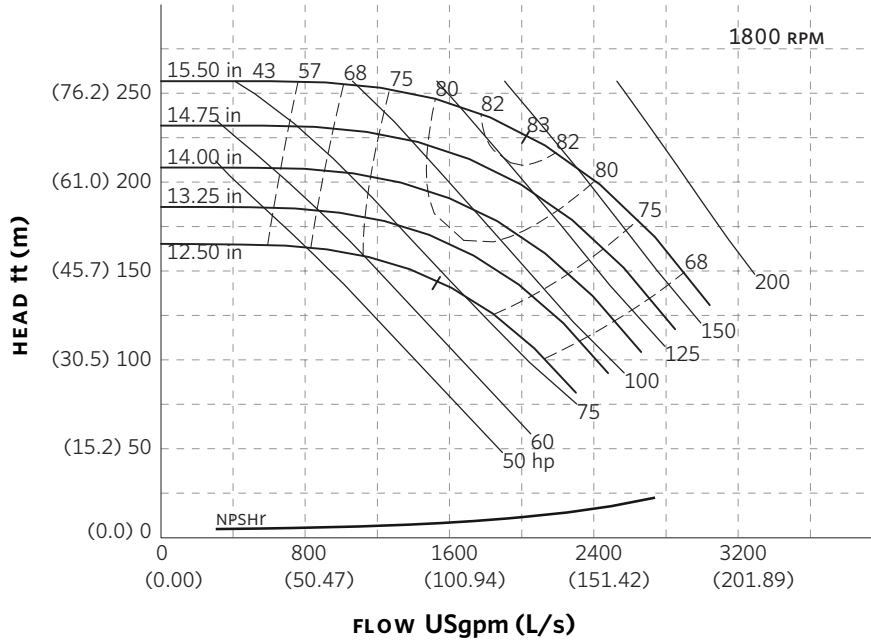
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
13.80 (351)	11.50 (292)	22.88 (581)	25.88 (657)	48.76 (1239)	12.34 (313)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT115-2-0-1800

Series
4300

Size
8 × 8 × 15

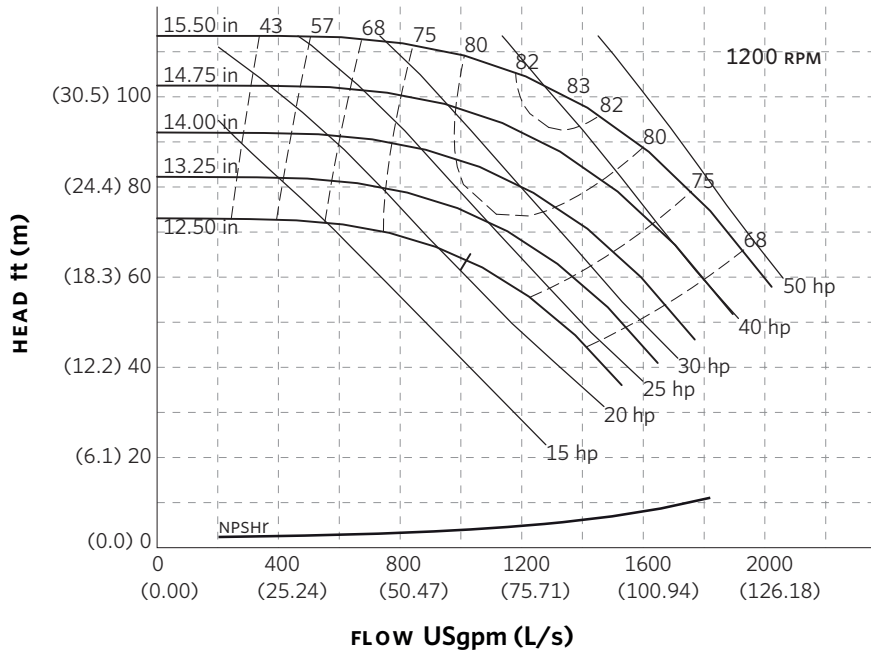
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT115-2-0-1200

Series
4300

Size
8 × 8 × 15

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
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SENSE™**

Series 4300 Vertical In-Line **10 x 10 x 13** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:	VISCOSITY:		
TEMPERATURE:	°C (°F)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA			
HP:	RPM:		
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11 <input type="checkbox"/> NEMA PREMIUM 12.12		
FLANGE SIZE:	SUCTION: 250 mm (10")	DISCHARGE: 250 mm (10")	

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				

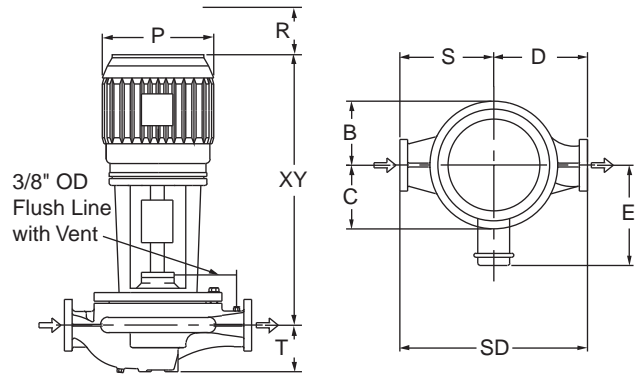
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

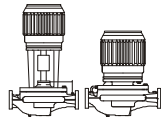


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
343 (13.50)	295 (11.63)	533 (21.00)	660 (26.00)	1194 (47.00)	305 (12.00)	

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	25	---	25	284TC	305 (12.00)	389 (15.31)	130 (5.00)	1132 (44.56)	544.8 (1200)	547.1 (1205)
---	30	---	30	286TC	305 (12.00)	389 (15.31)	130 (5.00)	1132 (44.56)	544.8 (1200)	569.8 (1255)
---	40	---	40	324TC	353 (13.91)	432 (17.00)	150 (6.00)	1172 (46.13)	612.9 (1350)	628.8 (1385)
---	50	---	50	326TC	353 (13.91)	432 (17.00)	150 (6.00)	1172 (46.13)	612.9 (1350)	692.4 (1525)
---	60	---	60	364TC	418 (16.44)	483 (19.03)	160 (7.00)	1213 (47.74)	733.2 (1615)	737.8 (1625)
---	75	---	75	365TC	418 (16.44)	483 (19.03)	160 (7.00)	1213 (47.74)	733.2 (1615)	905.7 (1995)
---	100	---	---	404TC	449 (17.69)	544 (21.41)	200 (8.00)	1330 (52.37)	835.4 (1840)	---
---	---	---	100	405TC	449 (17.69)	544 (21.41)	200 (8.00)	1330 (52.37)	---	1119.1 (2465)

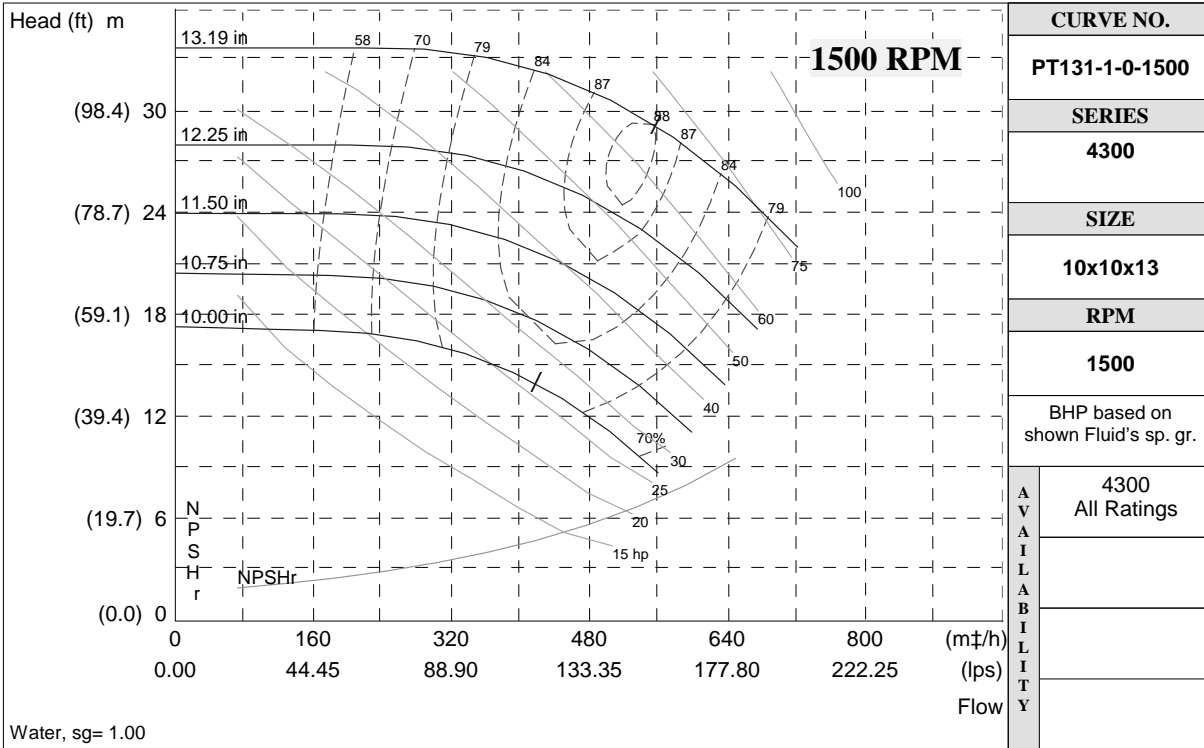
*Assembly weight combines pump and motor.

ARMSTRONG

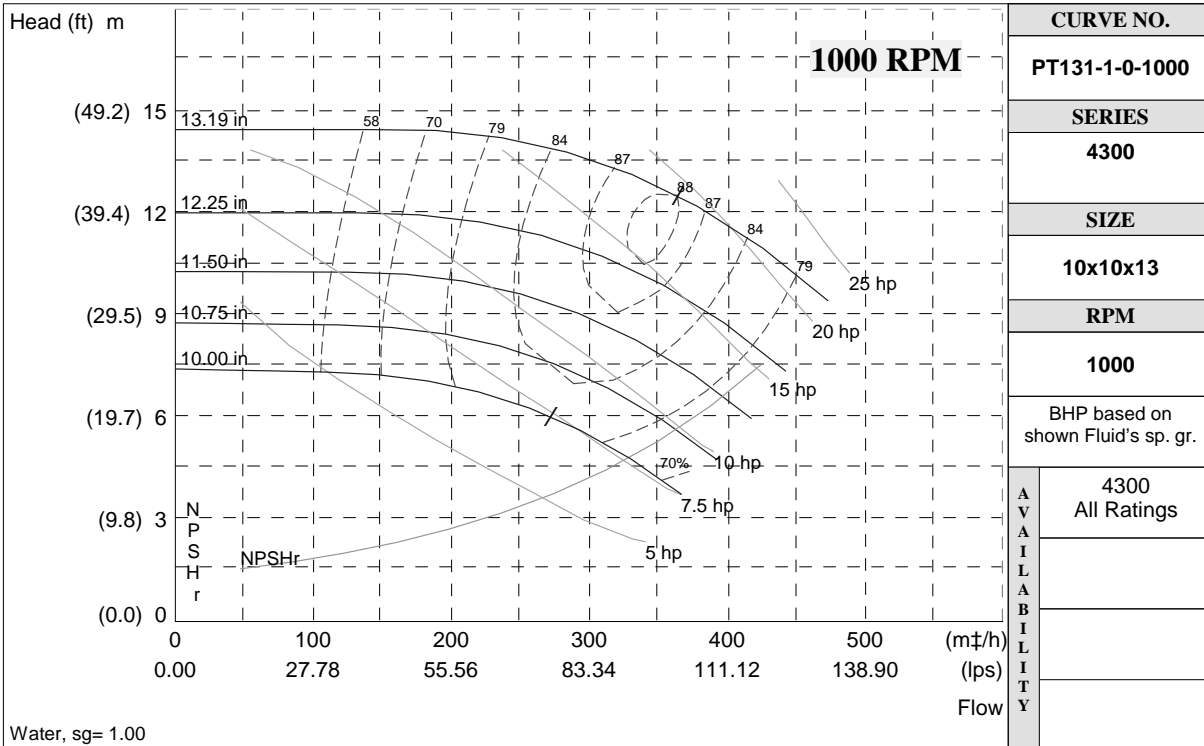


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT131-1-0-1500
SERIES	4300
SIZE	10x10x13
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings



CURVE NO.	PT131-1-0-1000
SERIES	4300
SIZE	10x10x13
RPM	1000
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

10×10×13 | SUBMITTAL

File No: 43-549
 Date: NOV. 26, 2014
 Supersedes: 43-549
 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: 10" (250 mm) Discharge: 10" (250 mm)

MOTOR DESIGN DATA

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

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.

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

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

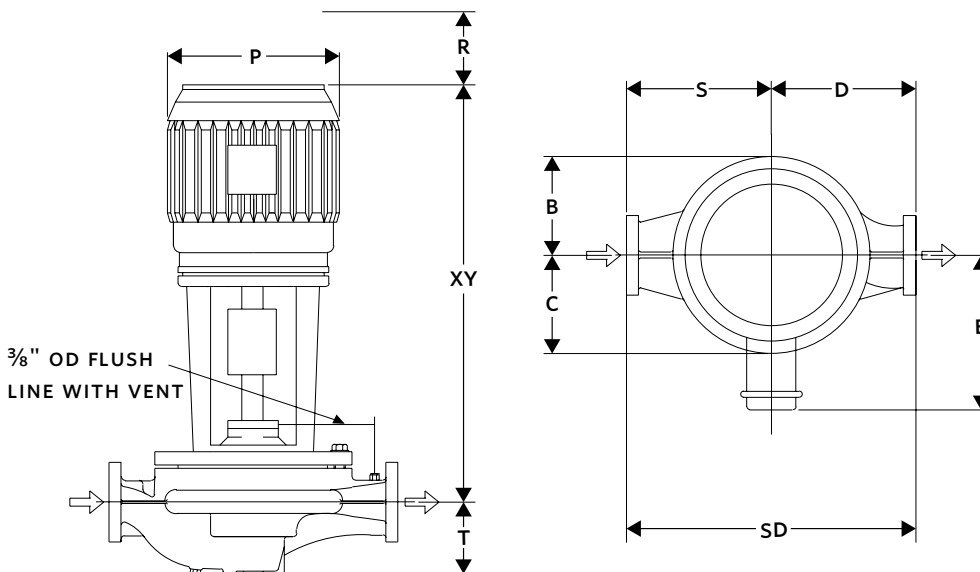
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
284TC	—	15	—	15	12.00 (305)	15.31 (389)	5.00 (130)	44.56 (1132)	1225 (555.7)	1185 (537.5)
286TC	—	20	—	20	12.00 (305)	15.31 (389)	5.00 (130)	44.56 (1132)	1195 (542.0)	1328 (602.4)
324TC	—	25	—	25	13.91 (353)	17.00 (432)	6.00 (150)	46.13 (1172)	1385 (628.2)	1398 (634.1)
326TC	50	30	50	30	13.91 (353)	17.00 (432)	6.00 (150)	46.13 (1172)	1420 (644.1)	1703 (772.5)
364TC	60	40	60	40	16.44 (418)	19.03 (483)	7.00 (160)	45.74 (1162)	1785 (809.7)	1863 (845.0)
365TC	75	—	75	—	16.44 (418)	19.03 (483)	7.00 (160)	45.74 (1162)	1595 (723.5)	1972 (894.5)
404TC	100	—	—	—	17.69 (449)	21.41 (544)	8.00 (200)	52.37 (1330)	1903 (863.2)	—
405TC	125	—	100	—	17.69 (449)	21.41 (544)	8.00 (200)	52.37 (1330)	2572 (1166.6)	2227 (1010.2)
444TC	—	—	125	—	18.63 (473)	23.25 (591)	9.00 (230)	63.43 (1611)	—	2766 (1254.6)

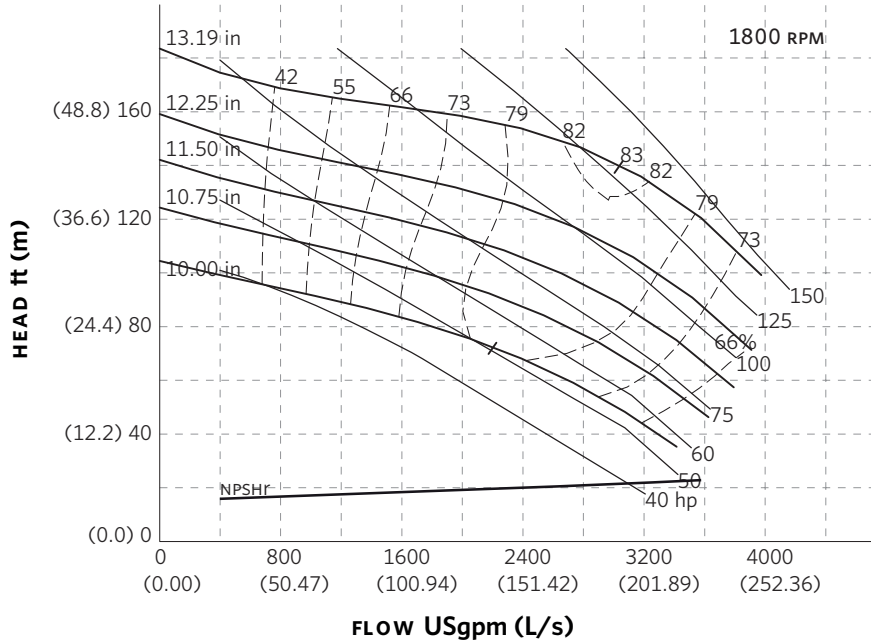
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
13.50 (343)	11.63 (295)	21.00 (533)	26.00 (660)	47.00 (1194)	12.00 (305)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT131-4-0-1800

Series
4300

Size
10 × 10 × 13

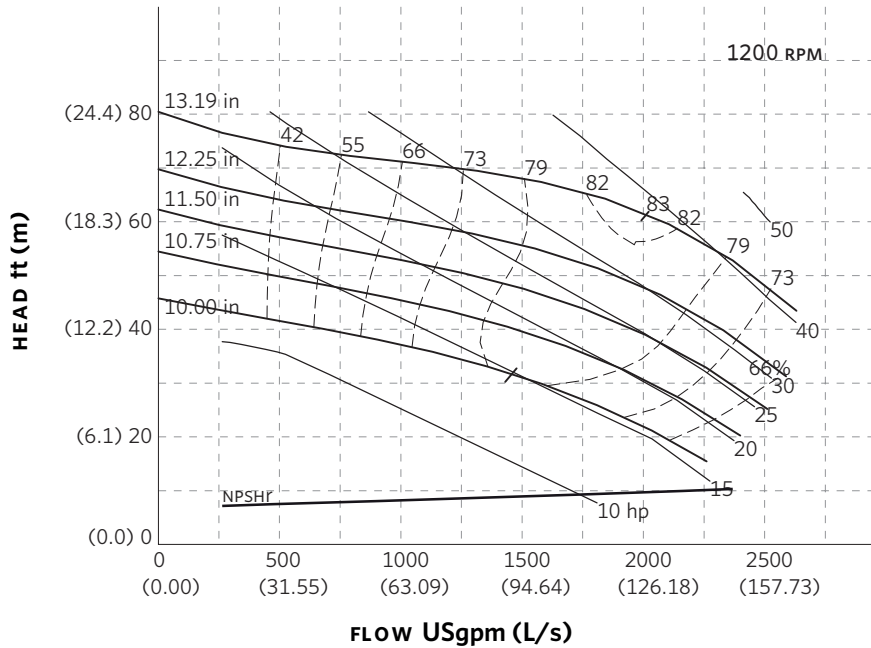
RPM
1800

BHP based on shown Fluid's sp. gr.

Availability
4300 all ratings

Performance guaranteed only at operating point indicated

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



Curve number
PT131-4-0-1200

Series
4300

Size
10 × 10 × 13

RPM
1200

BHP based on shown Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **10 x 10 x 15** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

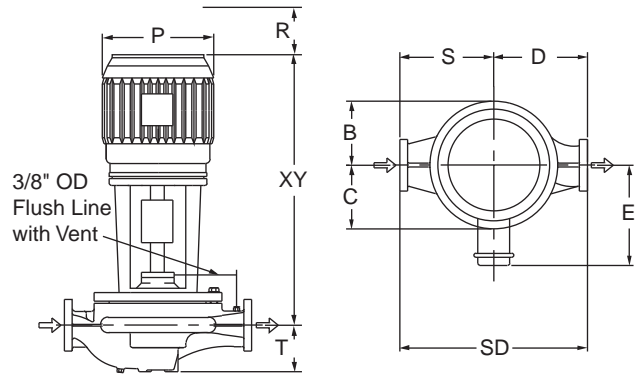
MOTOR DESIGN DATA	
HP:	RPM:
FRAME SIZE:	ENCLOSURE:
VOLTS:	HERTZ: 50 Hz PHASE:
EFFICIENCY: <input type="checkbox"/> ENERGY EFFICIENT 12.11 <input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 250 mm (10") DISCHARGE: 250 mm (10")

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				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES



MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

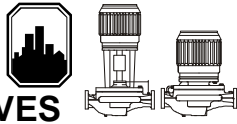
- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
368 (14.50)	292 (11.50)	572 (22.50)	660 (26.00)	1232 (48.50)	341 (13.44)

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	50	---	50	326TC	353 (13.91)	432 (17.00)	150 (6.00)	1200 (47.25)	783.2 (1725)	862.6 (1900)
---	60	---	60	364TC	418 (16.44)	483 (19.03)	160 (7.00)	1154 (45.43)	858.1 (1890)	862.6 (1900)
---	75	---	75	365TC	418 (16.44)	483 (19.03)	160 (7.00)	1154 (45.43)	858.1 (1890)	1030.6 (2270)
---	100	---	---	404TC	449 (17.69)	544 (21.41)	200 (8.00)	1322 (52.06)	960.2 (2115)	---
---	125	---	100	405TC	449 (17.69)	544 (21.41)	200 (8.00)	1322 (52.06)	960.2 (2115)	1244.0 (2740)
---	150	---	125	444TC	473 (18.63)	591 (23.25)	230 (9.00)	1603 (63.12)	1121.4 (2470)	1425.6 (3140)
---	---	---	150	445TC	473 (18.63)	591 (23.25)	230 (9.00)	1603 (63.12)	---	1679.8 (3700)

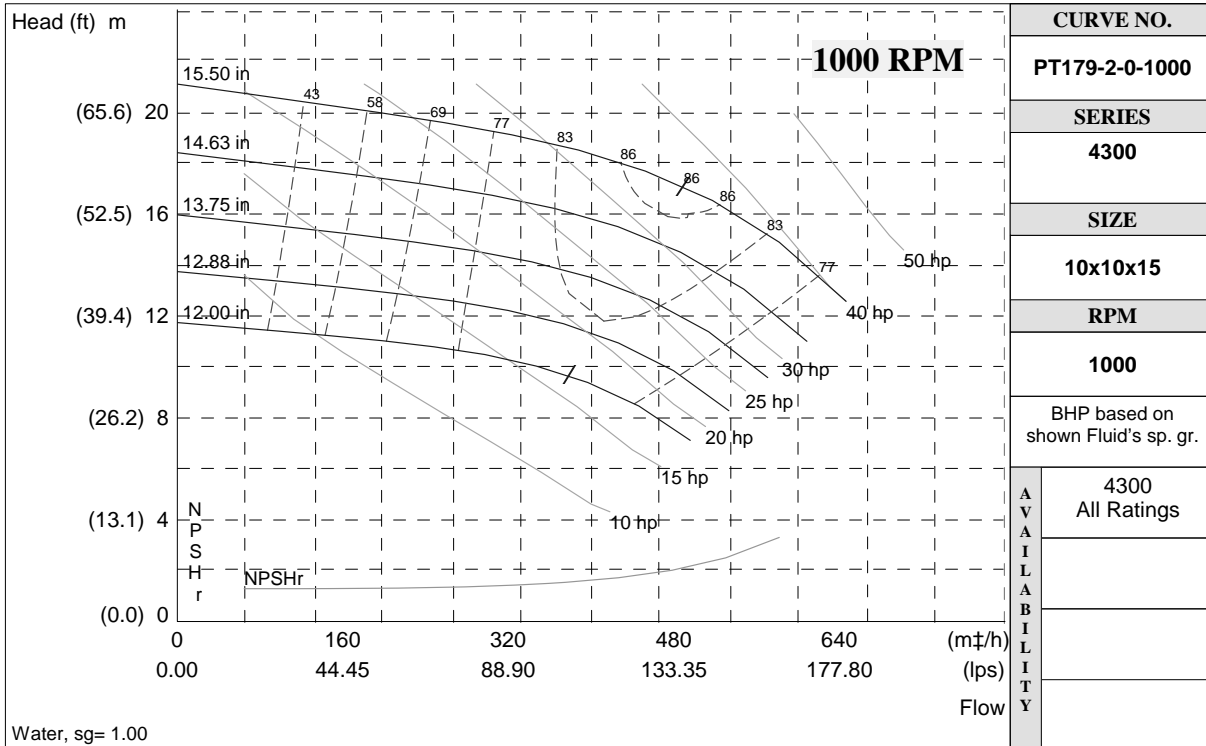
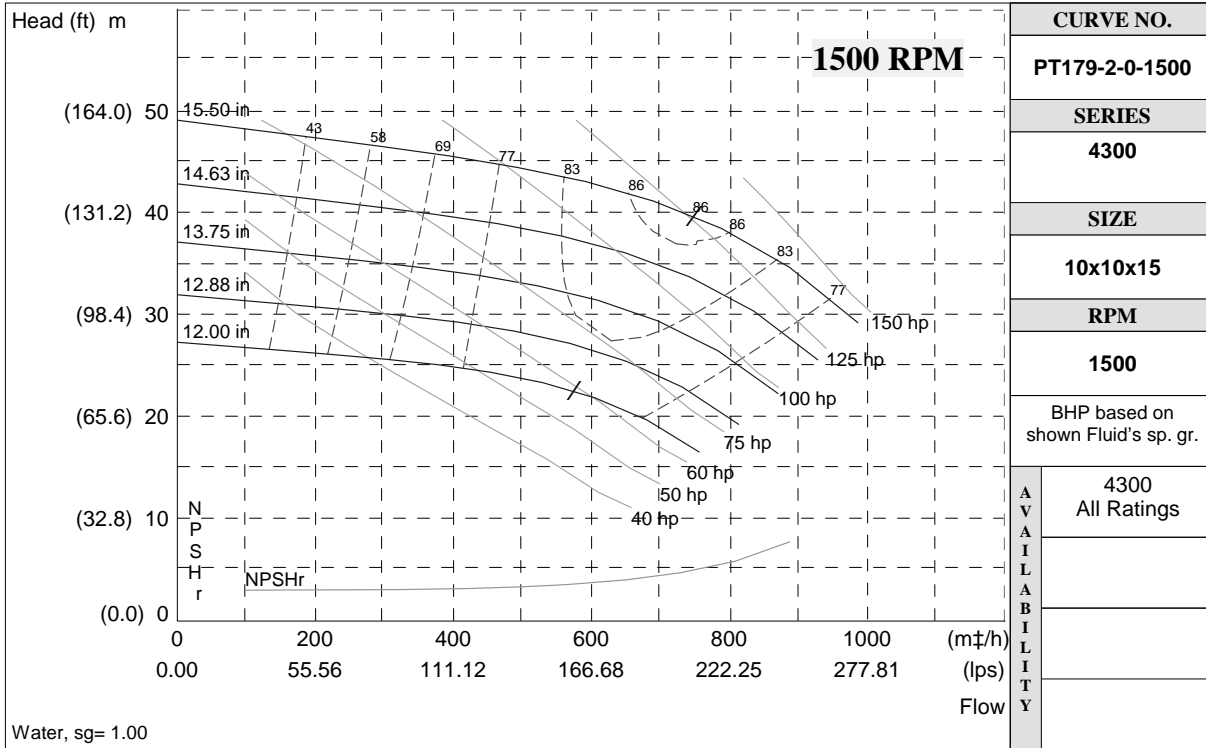
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

10×10×15 | SUBMITTAL

File No: 43-557
 Date: NOV. 26, 2014
 Supersedes: 43-557
 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: 10" (250 MM) Discharge: 10" (250 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

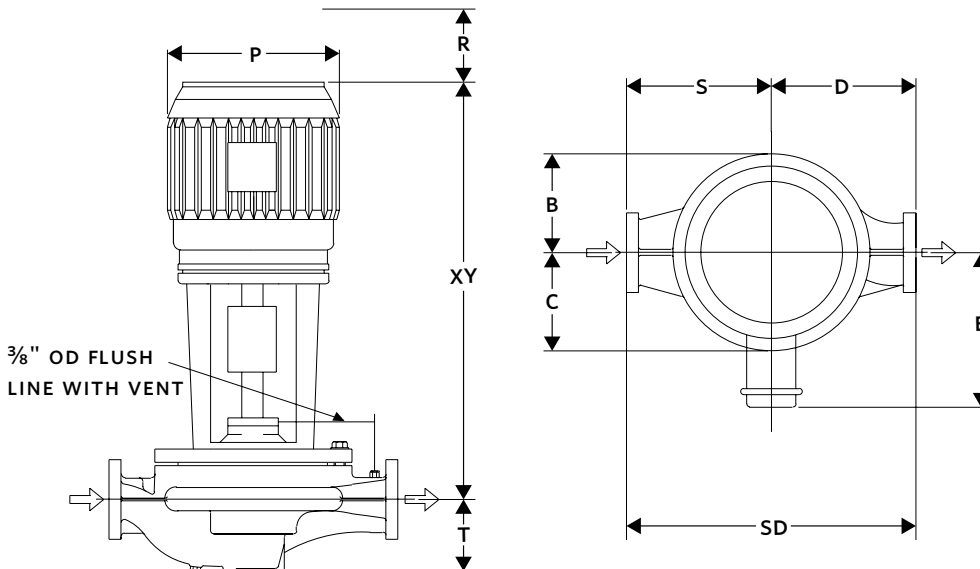
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
324TC	—	25	—	25	13.91 (353)	17.00 (432)	6.00 (150)	47.25 (1200)	1760 (798.3)	1773 (804.2)
326TC	—	30	—	30	13.91 (353)	17.00 (432)	6.00 (150)	47.25 (1200)	1810 (821.0)	1825 (827.8)
364TC	—	40	—	40	16.44 (418)	19.03 (483)	7.00 (160)	45.43 (1154)	2053 (931.2)	2150 (975.2)
365TC	—	50	—	50	16.44 (418)	19.03 (483)	7.00 (160)	45.43 (1154)	2300 (1043.3)	2327 (1055.5)
404TC	100	60	—	60	17.69 (449)	21.41 (544)	8.00 (200)	52.06 (1322)	2178 (987.9)	—
405TC	125	75	100	75	17.69 (449)	21.41 (544)	8.00 (200)	52.06 (1322)	2847 (1291.4)	2502 (1134.9)
444TC	150	—	125	—	18.63 (473)	23.25 (591)	9.00 (230)	63.12 (1603)	2719 (1233.3)	3041 (1379.4)
445TC	200 & 250	—	—	—	18.63 (473)	23.25 (591)	9.00 (230)	63.12 (1603)	2990 (1356.2)	—

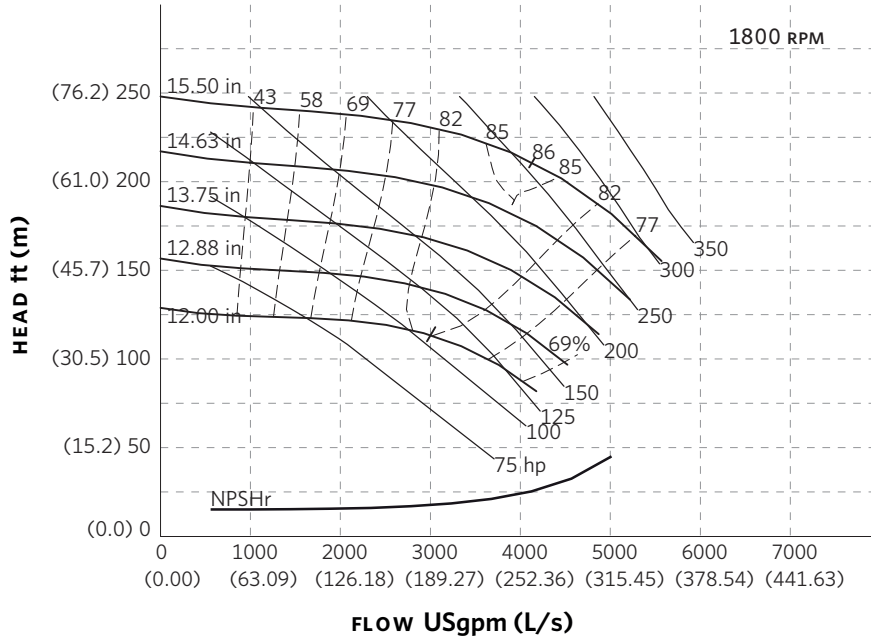
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
14.50 (368)	11.50 (292)	22.50 (572)	26.00 (660)	48.50 (1232)	13.44 (341)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT179-3-0-1800

Series
4300

Size
10 × 10 × 15

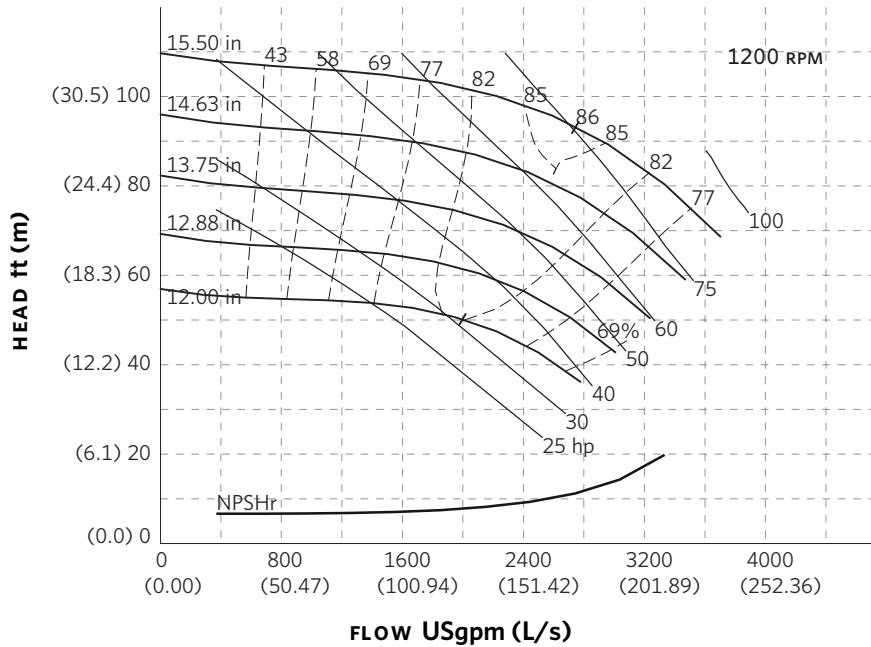
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT179-3-0-1200

Series
4300

Size
10 × 10 × 15

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
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SENSE™**

Series 4300 Vertical In-Line **12 x 12 x 13** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 300 mm (12")	DISCHARGE: 300 mm (12")	

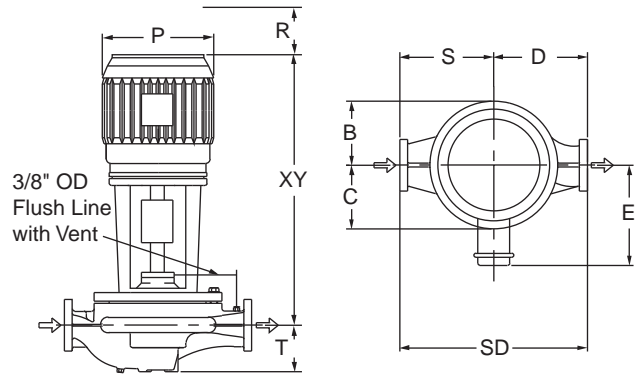
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



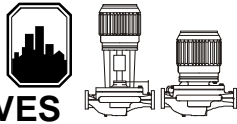
PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
410 (16.13)	292 (11.50)	616 (24.25)	565 (22.25)	1181 (46.50)	286 (11.25)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	30	---	30	286TC	305 (12.00)	389 (15.31)	130 (5.00)	1379 (54.31)	896.7 (1975)	921.6 (2030)
---	40	---	40	324TC	353 (13.91)	432 (17.00)	150 (6.00)	1372 (54.00)	964.8 (2125)	980.6 (2160)
---	50	---	50	326TC	353 (13.91)	432 (17.00)	150 (6.00)	1372 (54.00)	964.8 (2125)	1044.2 (2300)
---	60	---	60	364TC	418 (16.44)	483 (19.03)	160 (7.00)	1376 (54.19)	1039.7 (2290)	1044.2 (2300)
---	75	---	75	365TC	418 (16.44)	483 (19.03)	160 (7.00)	1376 (54.19)	1039.7 (2290)	1212.2 (2670)
---	100	---	---	404TC	449 (17.69)	544 (21.41)	200 (8.00)	1472 (57.95)	1141.8 (2515)	---
---	125	---	100	405TC	449 (17.69)	544 (21.41)	200 (8.00)	1472 (57.95)	1141.8 (2515)	1425.6 (3140)
---	150	---	125	444TC	460 (18.13)	587 (23.13)	230 (9.00)	1634 (64.32)	---	1425.6 (3140)
---	---	---	150	445TC	460 (18.13)	587 (23.13)	230 (9.00)	1634 (64.32)	---	1678.0 (3700)

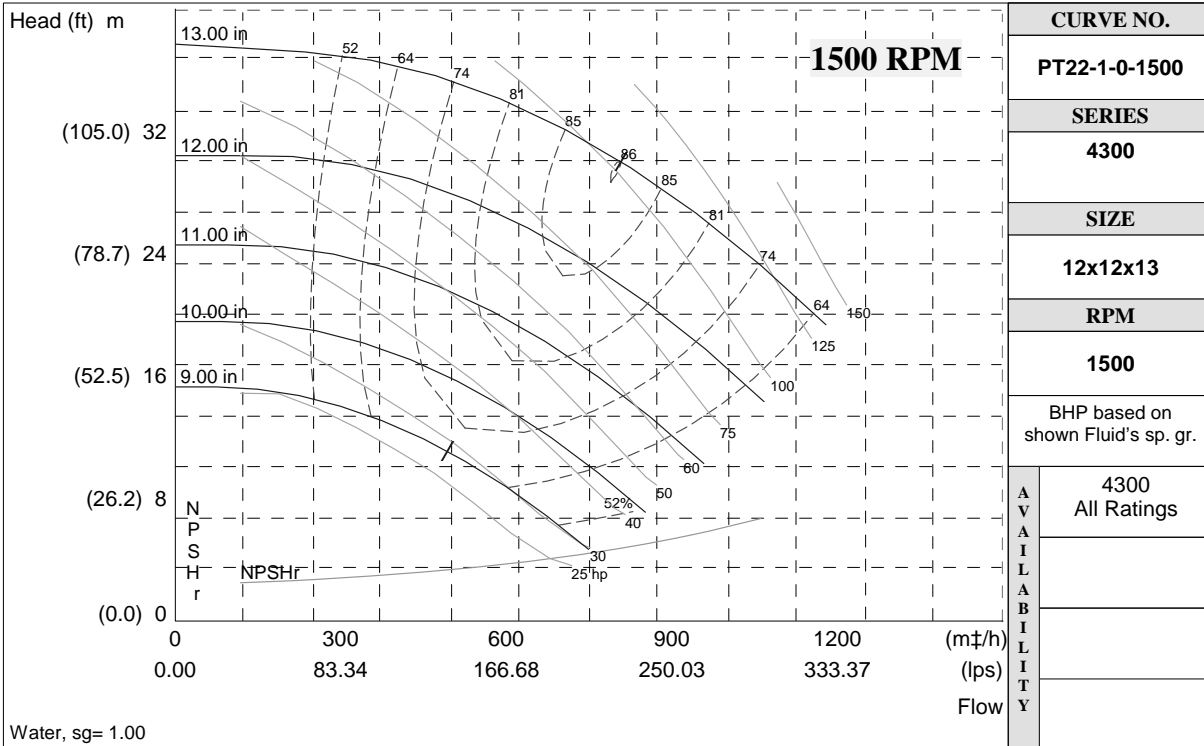
*Assembly weight combines pump and motor.

ARMSTRONG

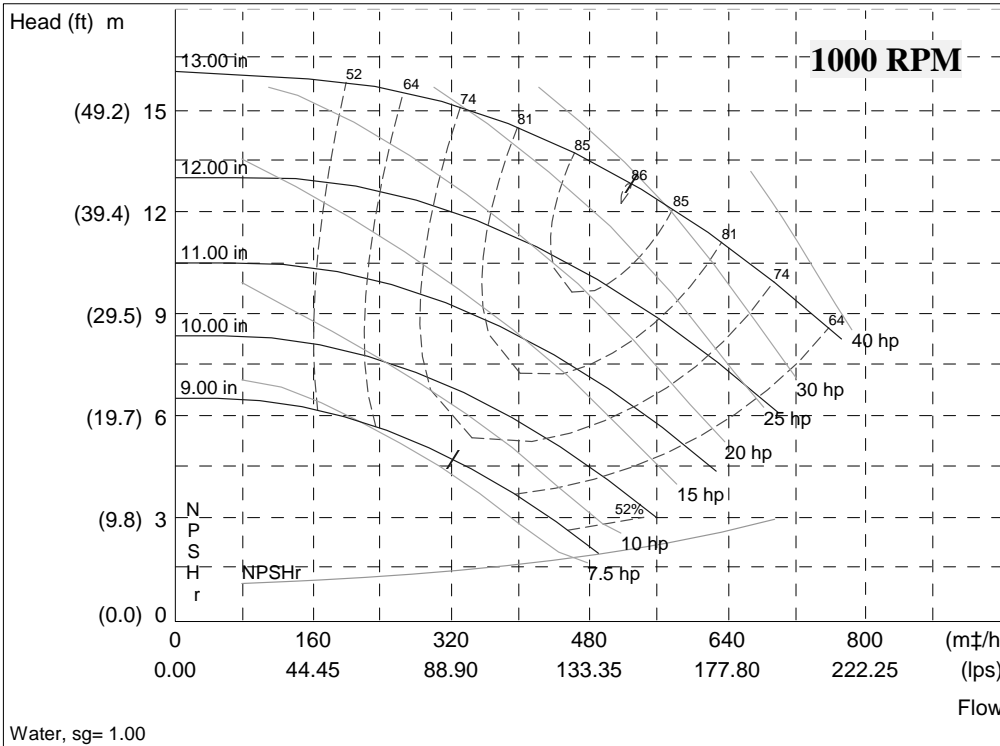


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT22-1-0-1500
SERIES	4300
SIZE	12x12x13
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings



CURVE NO.	PT22-1-0-1000
SERIES	4300
SIZE	12x12x13
RPM	1000
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

12x12x13 | SUBMITTAL

File No: 43-551
 Date: NOV. 26, 2014
 Supersedes: 43-551
 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: 12" (300 MM) Discharge: 12" (300 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

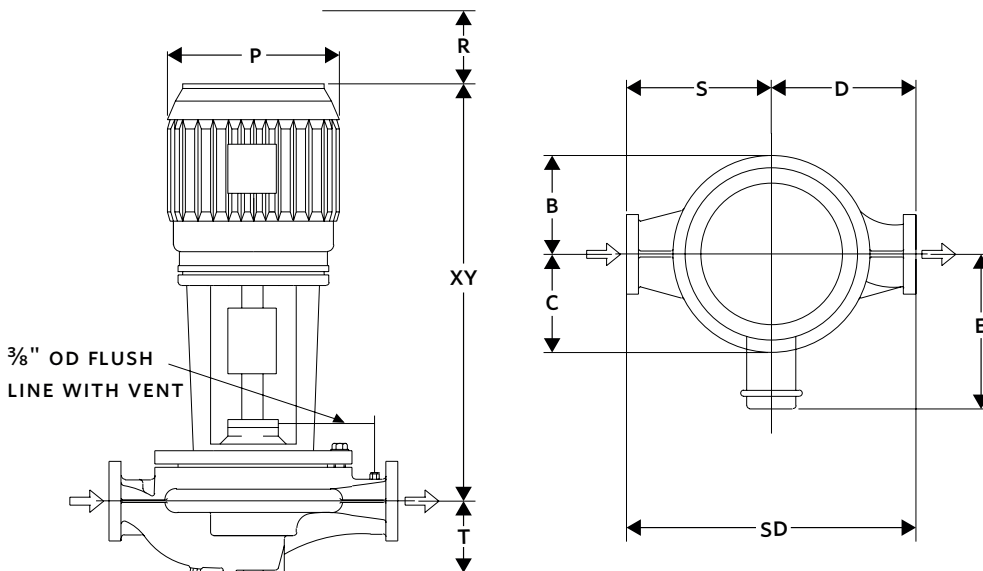
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
284TC	—	15	—	15	12.00 (305)	15.31 (389)	5.00 (130)	54.31 (1379)	2000 (907.2)	1960 (889.0)
286TC	—	20	—	20	12.00 (305)	15.31 (389)	5.00 (130)	54.31 (1379)	1970 (893.6)	2103 (953.9)
324TC	—	25	—	25	13.91 (353)	17.00 (432)	6.00 (150)	54.00 (1372)	2160 (979.8)	2173 (985.7)
326TC	50	30	50	30	13.91 (353)	17.00 (432)	6.00 (150)	54.00 (1372)	2195 (995.6)	2478 (1124.0)
364TC	60	40	60	40	16.44 (418)	19.03 (483)	7.00 (160)	52.19 (1326)	2460 (1115.8)	2538 (1151.2)
365TC	75	50	75	50	16.44 (418)	19.03 (483)	7.00 (160)	52.19 (1326)	2270 (1029.7)	2647 (1200.7)
404TC	100	60	—	60	17.69 (449)	21.41 (544)	8.00 (200)	57.95 (1472)	2578 (1169.4)	—
405TC	125	75	100	75	17.69 (449)	21.41 (544)	8.00 (200)	57.95 (1472)	3247 (1472.8)	2902 (1316.3)
444TC	150	—	125	—	18.13 (460)	23.13 (587)	9.00 (230)	64.32 (1634)	3119 (1414.8)	3441 (1560.8)
445TC	200 & 250	—	—	—	18.13 (460)	23.13 (587)	9.00 (230)	64.32 (1634)	3390 (1537.7)	—

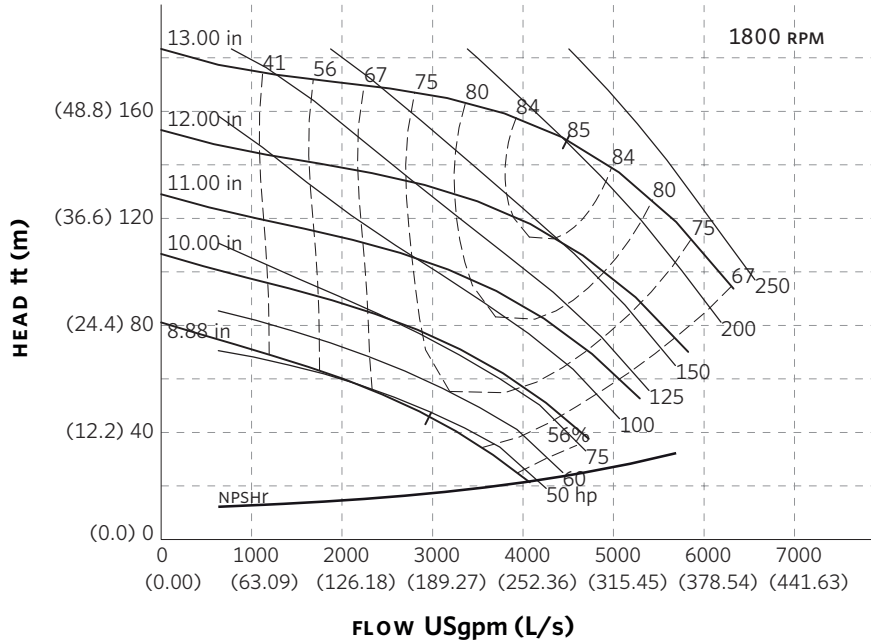
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
16.13 (410)	11.50 (292)	24.25 (616)	22.25 (565)	46.50 (1181)	11.25 (286)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT22-2-0-1800

Series
4300

Size
12 × 12 × 13

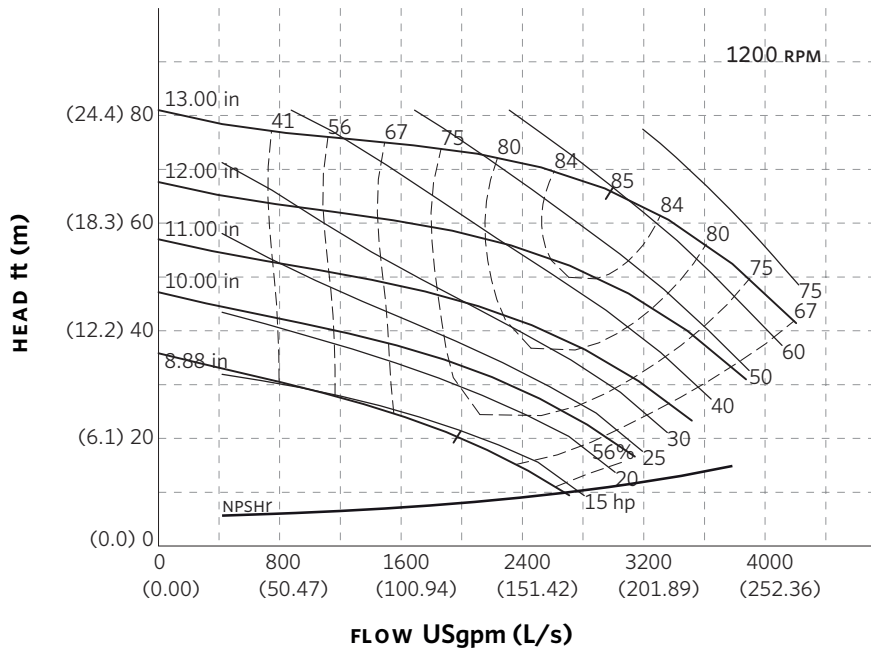
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT22-2-0-1200

Series
4300

Size
12 × 12 × 13

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **12 x 12 x 17** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 300 mm (12")	DISCHARGE: 300 mm (12")	

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				

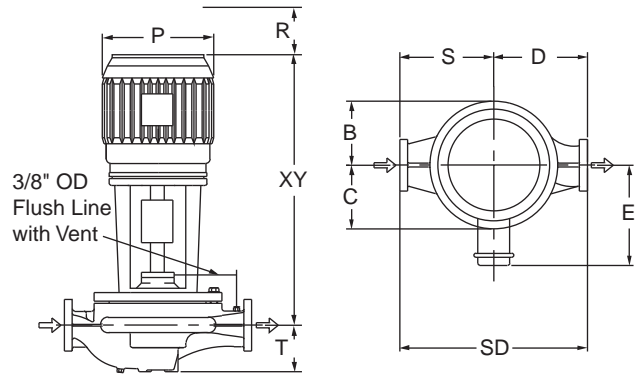
MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

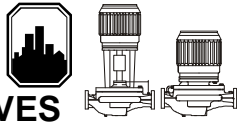
- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.



PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
457 (18.00)	356 (14.00)	686 (27.00)	635 (25.00)	1321 (52.00)	349 (13.75)

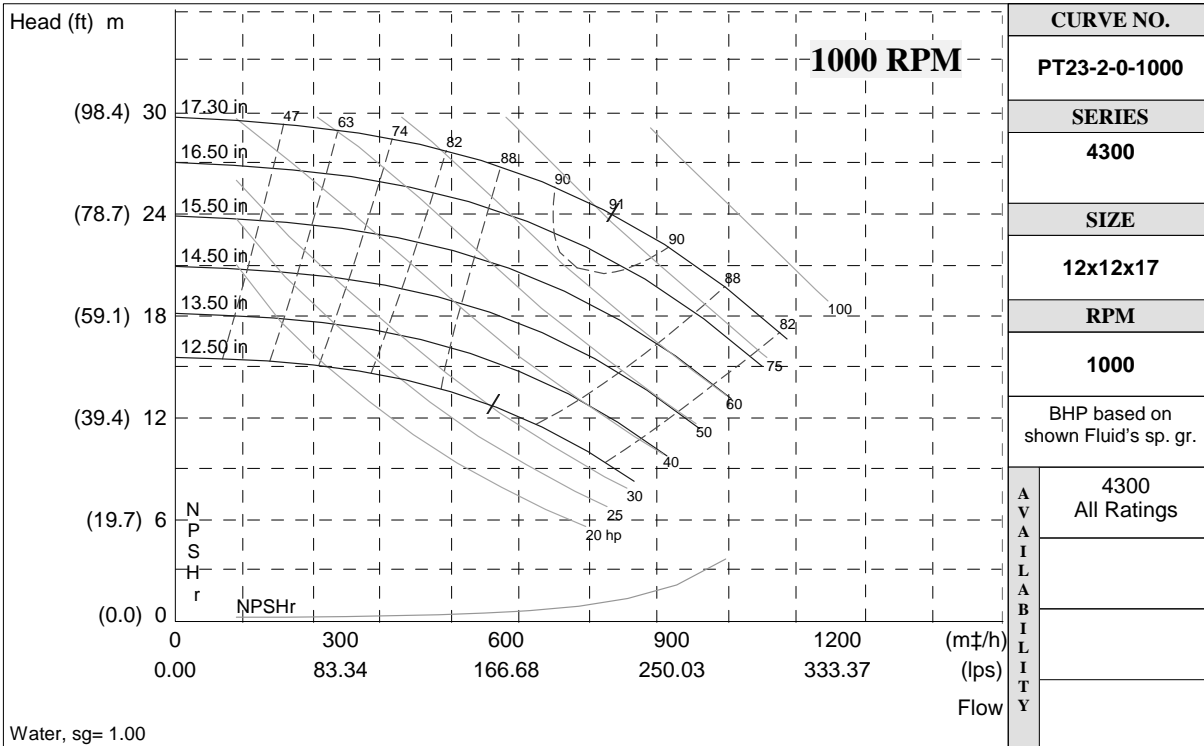
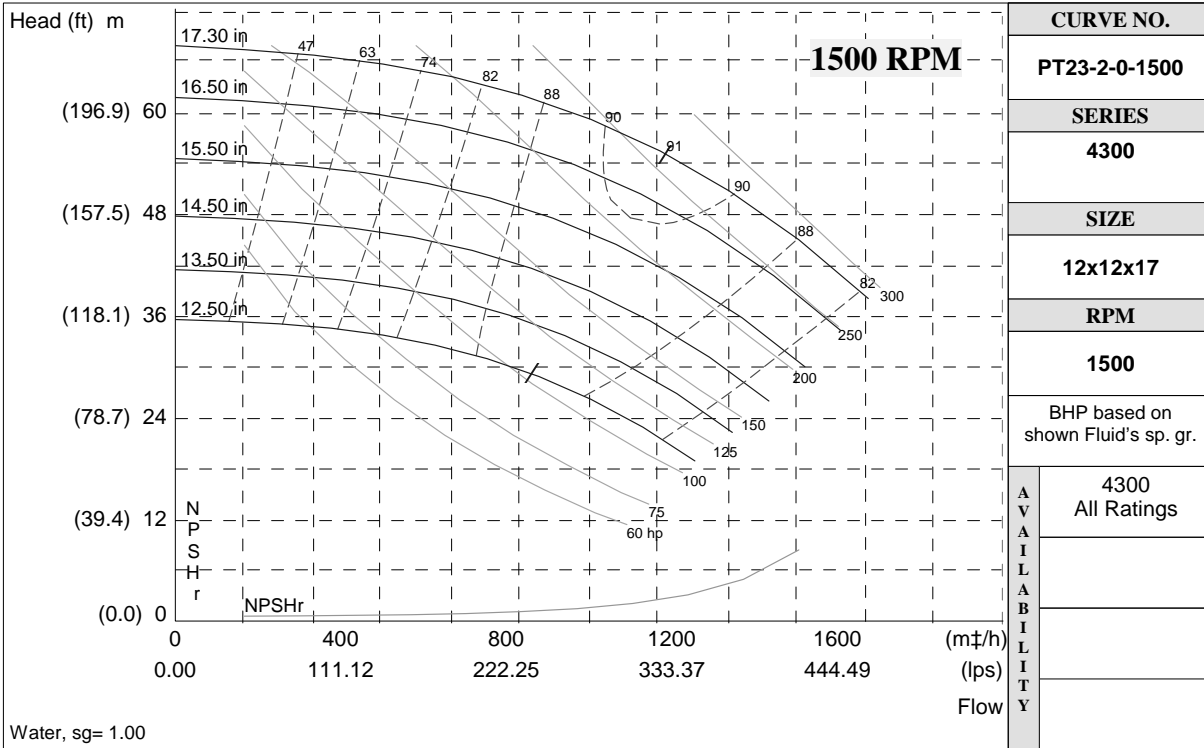
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	100	---	---	404TCZ	435 (17.13)	538 (21.19)	150 (6.00)	1605 (63.19)	1551.0 (3420)	---
---	125	---	100	405TCZ	435 (17.13)	538 (21.19)	150 (6.00)	1605 (63.19)	1582.8 (3490)	1628.1 (3590)
---	150	---	125	444TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1700 (66.94)	1646.3 (3630)	1832.2 (4040)
---	200 & 250	---	150 & 200	445TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1700 (66.94)	1832.2 (4040)	2013.6 (4440)
---	300	---	---	447TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1789 (70.44)	2240.4 (4940)	---
---	---	---	250 & 300	449TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1789 (70.44)	---	2399.1 (5290)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE 12x12x17 | SUBMITTAL

File No: 43.563
Date: NOV. 26, 2014
Supersedes: 43.563
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: 12" (300 MM) Discharge: 12" (300 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

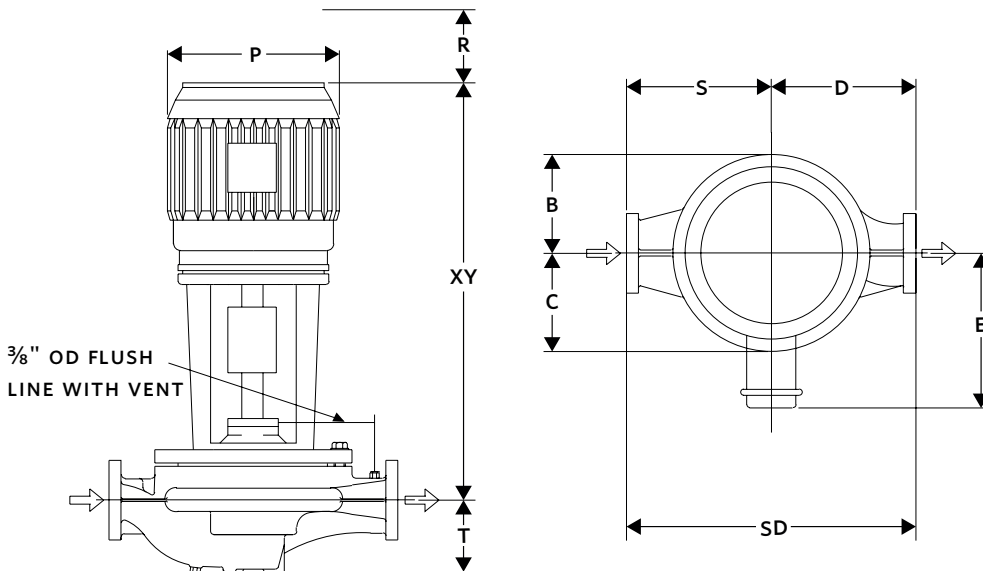
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
404TCZ	—	60	—	60	17.13 (435)	21.19 (538)	6.00 (150)	63.19 (1605)	3339 (1514.5)	3457 (1568.1)
405TCZ	—	75	—	75	17.13 (435)	21.19 (538)	6.00 (150)	63.19 (1605)	3365 (1526.3)	3486 (1581.2)
444TCZ	—	100	—	100	18.63 (473)	23.25 (591)	6.00 (150)	66.94 (1700)	3767 (1708.7)	4131 (1873.8)
445TCZ	200 & 250	125 & 150	—	150	18.63 (473)	23.25 (591)	6.00 (150)	66.94 (1700)	4030 (1828.0)	—
447TCZ	—	—	150 & 200	125	18.63 (473)	23.25 (591)	6.00 (150)	70.44 (1789)	—	3759 (1705.1)
449TCZ	—	—	250	—	18.63 (473)	23.25 (591)	6.00 (150)	70.44 (1789)	—	4030 (1828.0)
TCZ	300 & 350	—	300 & 350	—	26.94 (684)	34.00 (864)	6.00 (150)	81.56 (2072)	4361 (1978.1)	4915 (2229.4)
TCZ	400 - 500	—	400 - 500	—	26.94 (684)	34.00 (864)	6.00 (150)	98.94 (2513)	4765 (2161.4)	5585 (2533.3)

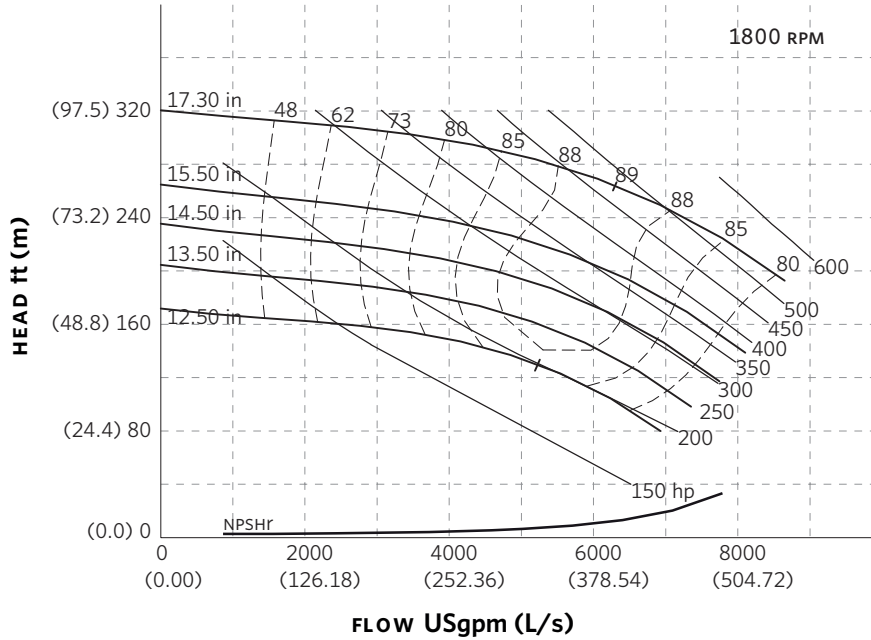
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
18.00 (457)	14.00 (356)	27.00 (686)	25.00 (635)	52.00 (1321)	13.75 (349)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT23-3-0-1800

Series
4300

Size
12 × 12 × 17

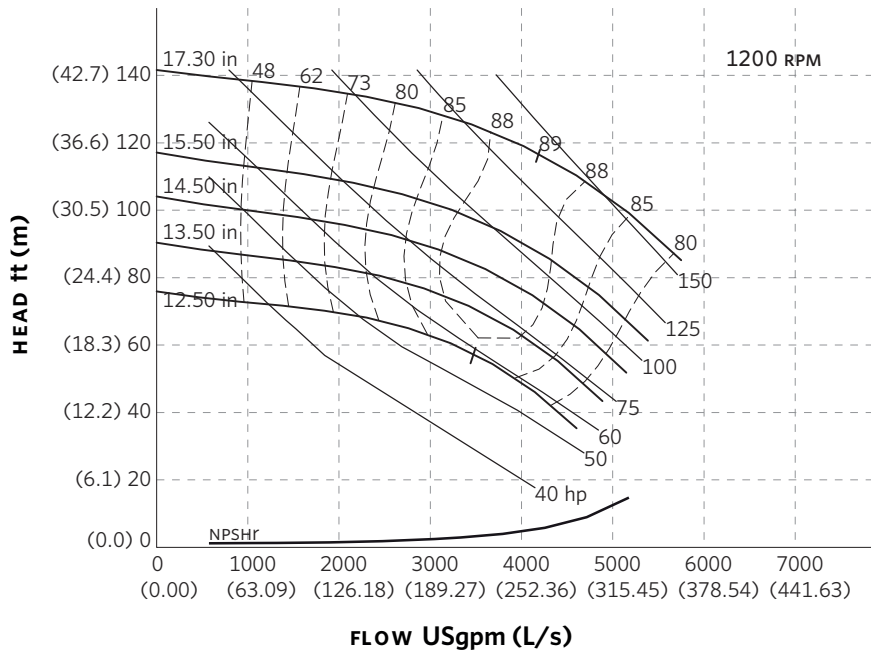
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT23-3-0-1200

Series
4300

Size
12 × 12 × 17

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **14 x 14 x 14** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 350 mm (14")	DISCHARGE: 350 mm (14")	

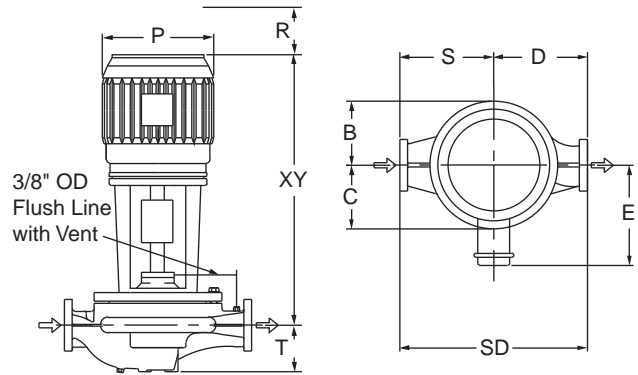
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

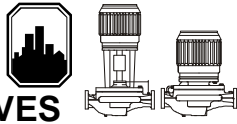


PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
521 (20.50)	349 (13.75)	686 (27.00)	635 (25.00)	1321 (52.00)	349 (13.75)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

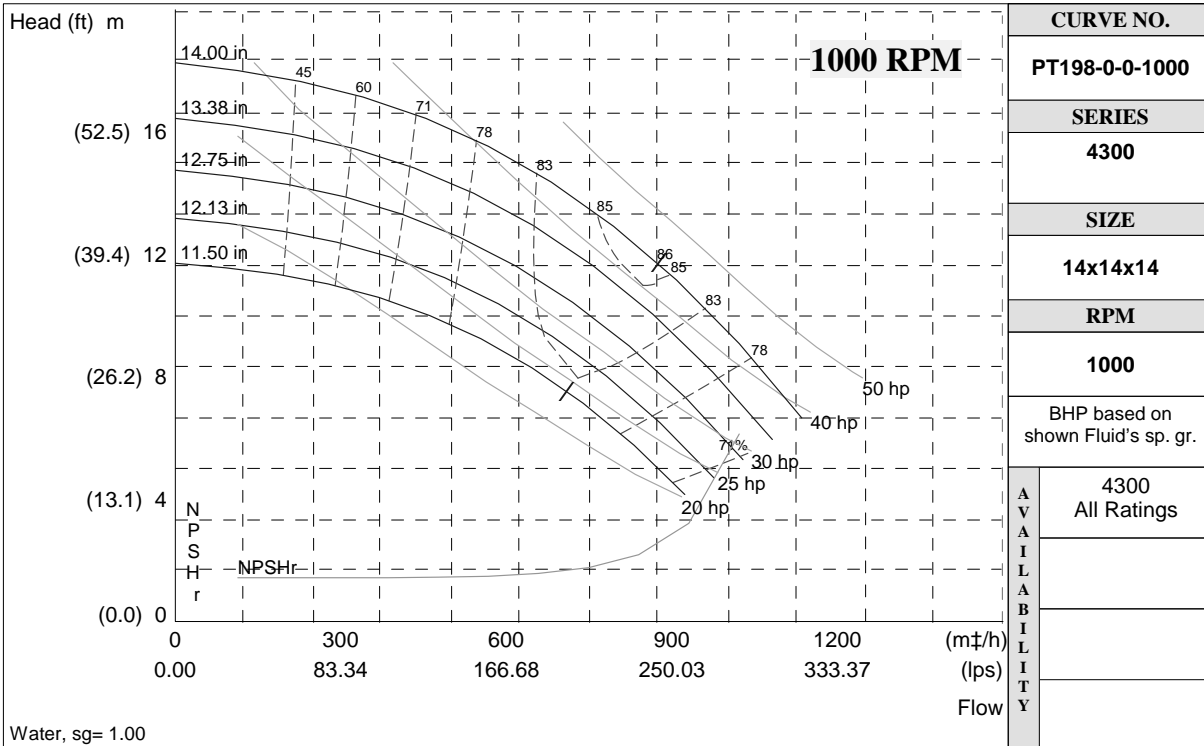
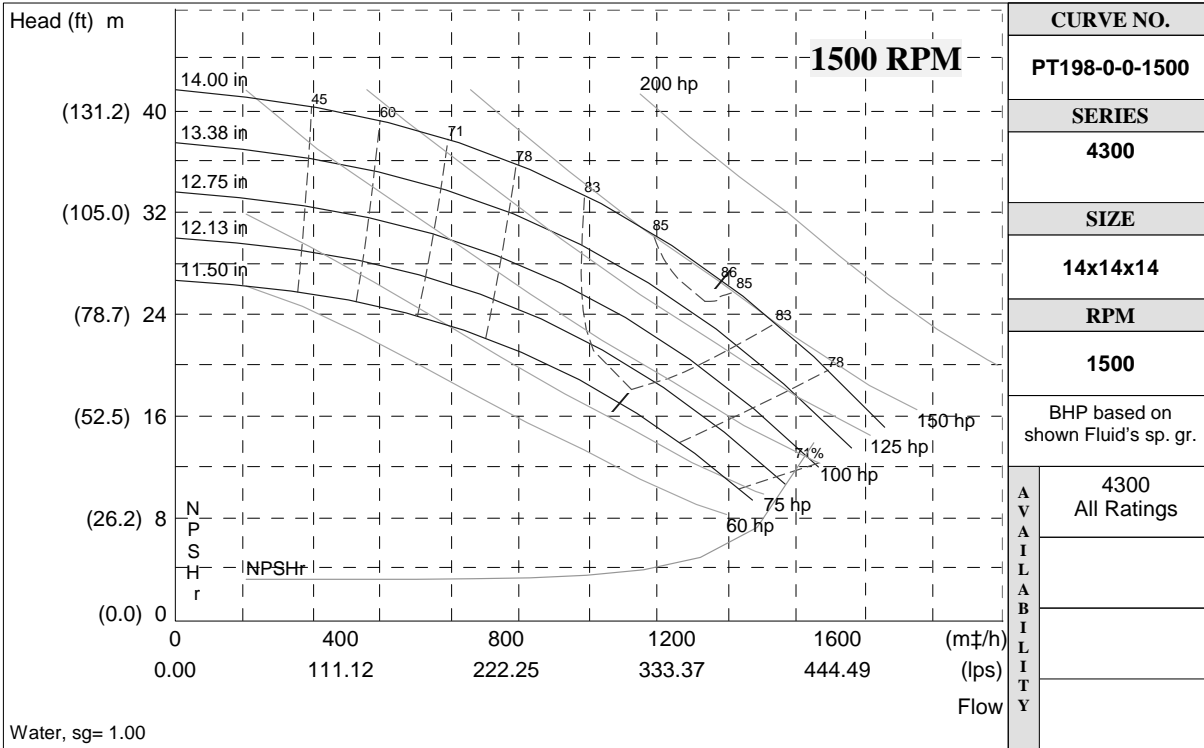
MOTOR HORSEPOWER				MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	75	---	75	365TCZ	403 (15.88)	476 (18.75)	150 (6.00)	1454 (57.25)	1374.1 (3030)	1415.0 (3120)
---	100	---	---	404TCZ	435 (17.13)	538 (21.19)	150 (6.00)	1599 (62.94)	1532.9 (3380)	---
---	125	---	100	405TCZ	435 (17.13)	538 (21.19)	150 (6.00)	1599 (62.94)	1564.6 (3450)	1610.0 (3550)
---	150	---	125	444TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1694 (66.69)	1628.1 (3590)	1814.1 (4000)
---	---	---	150	445TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1694 (66.69)	---	1950.1 (4300)

*Assembly weight combines pump and motor.



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

14x14x14 | SUBMITTAL

File No: 43-553
 Date: NOV. 26, 2014
 Supersedes: 43-553
 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: 14" (350 MM) Discharge: 14" (350 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

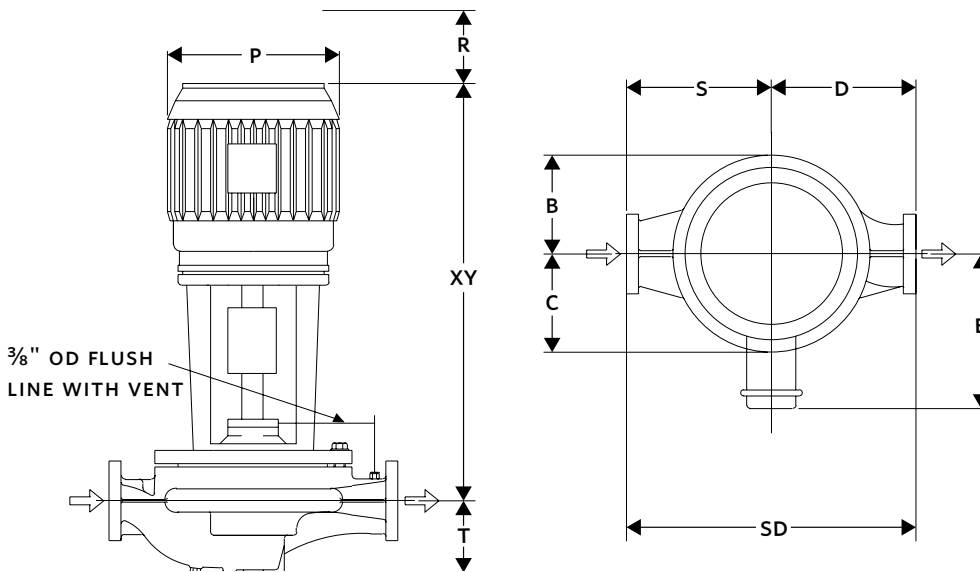
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
364TCZ	—	40	—	40	15.88 (403)	20.75 (527)	6.00 (150)	57.25 (1454)	3053 (1384.8)	3150 (1428.8)
365TCZ	—	50	—	50	15.88 (403)	20.75 (527)	6.00 (150)	57.25 (1454)	3300 (1496.9)	3327 (1509.1)
404TCZ	—	60	—	60	17.13 (435)	21.19 (538)	6.00 (150)	62.94 (1599)	3299 (1496.4)	3417 (1549.9)
405TCZ	—	75	—	75	17.13 (435)	21.19 (538)	6.00 (150)	62.94 (1599)	3325 (1508.2)	3446 (1563.1)
444TCZ	150	100	—	100	18.63 (473)	23.25 (591)	6.00 (150)	66.69 (1694)	3719 (1686.9)	—
445TCZ	200 & 250	—	—	—	18.63 (473)	23.25 (591)	6.00 (150)	66.69 (1694)	3990 (1809.8)	—
447TCZ	—	—	150 & 200	—	18.63 (473)	23.25 (591)	6.00 (150)	70.19 (1783)	—	4160 (1886.9)
449TCZ	—	—	250	—	18.63 (473)	23.25 (591)	6.00 (150)	70.19 (1783)	—	4862 (2205.4)
TCZ	300	—	300	—	26.94 (684)	34.00 (864)	6.00 (150)	81.31 (2065)	4321 (1960.0)	4875 (2211.3)

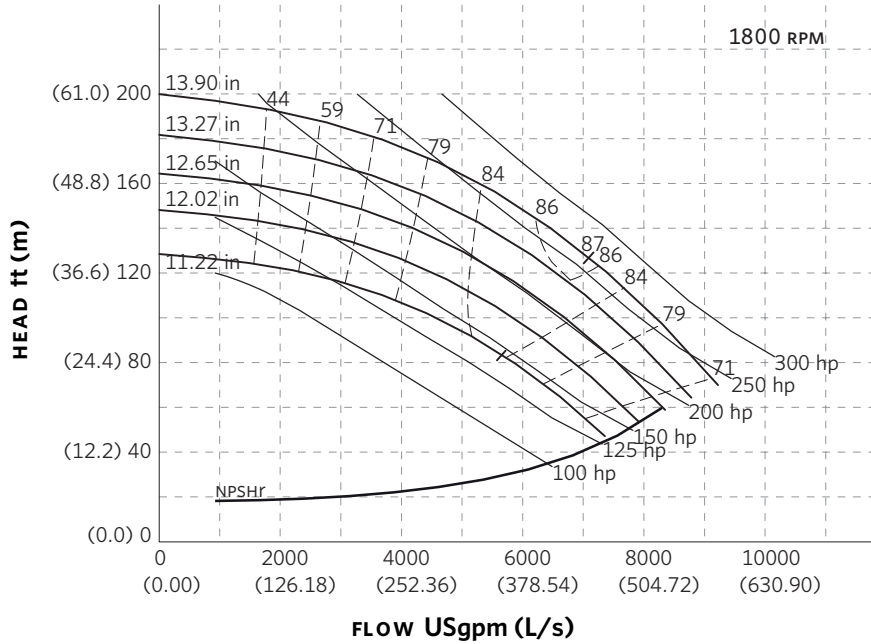
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
20.50 (521)	13.75 (349)	27.00 (686)	25.00 (635)	52.00 (1321)	13.75 (349)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT198-2-0-1800

Series
4300

Size
14 × 14 × 14

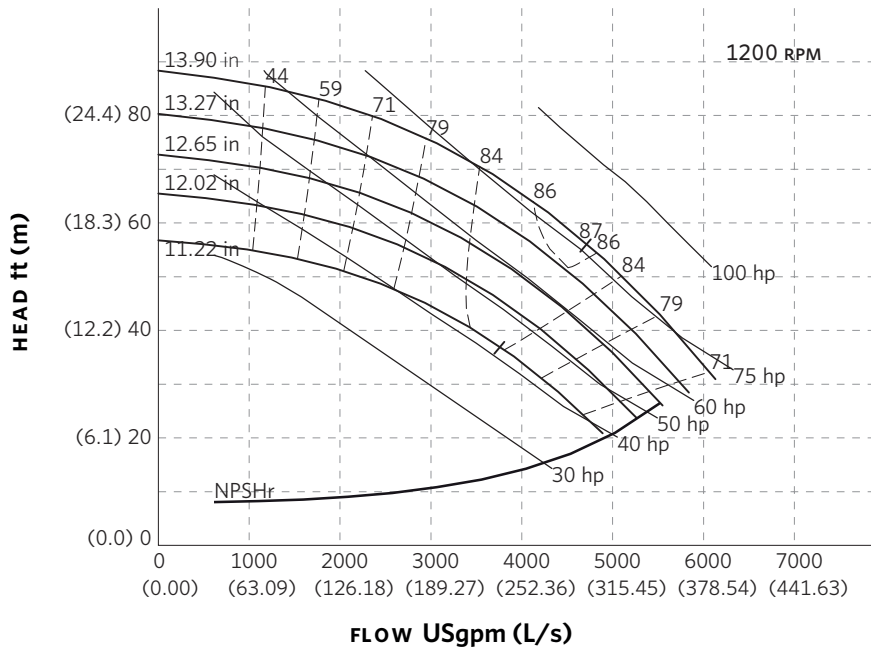
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT198-2-0-1200

Series
4300

Size
14 × 14 × 14

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **14 x 14 x 15** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 350 mm (14")	DISCHARGE: 350 mm (14")	

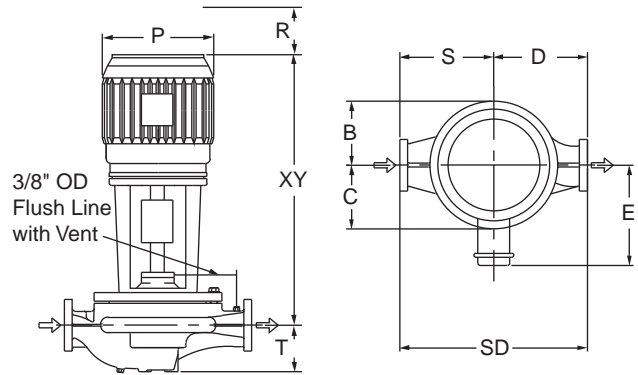
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



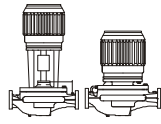
PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
521 (20.50)	349 (13.75)	686 (27.00)	635 (25.00)	1321 (52.00)	349 (13.75)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	125	---	---	405TCZ	435 (17.13)	538 (21.19)	150 (6.00)	1599 (62.94)	1564.6 (3450)	---
---	150	---	125	444TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1694 (66.69)	1628.1 (3590)	1854.9 (4090)
---	200 & 250	---	150 & 200	445TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1694 (66.69)	1795.9 (3960)	2040.8 (4500)
---	300	---	250 & 300	449TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1783 (70.19)	2222.2 (4900)	2381.0 (5250)

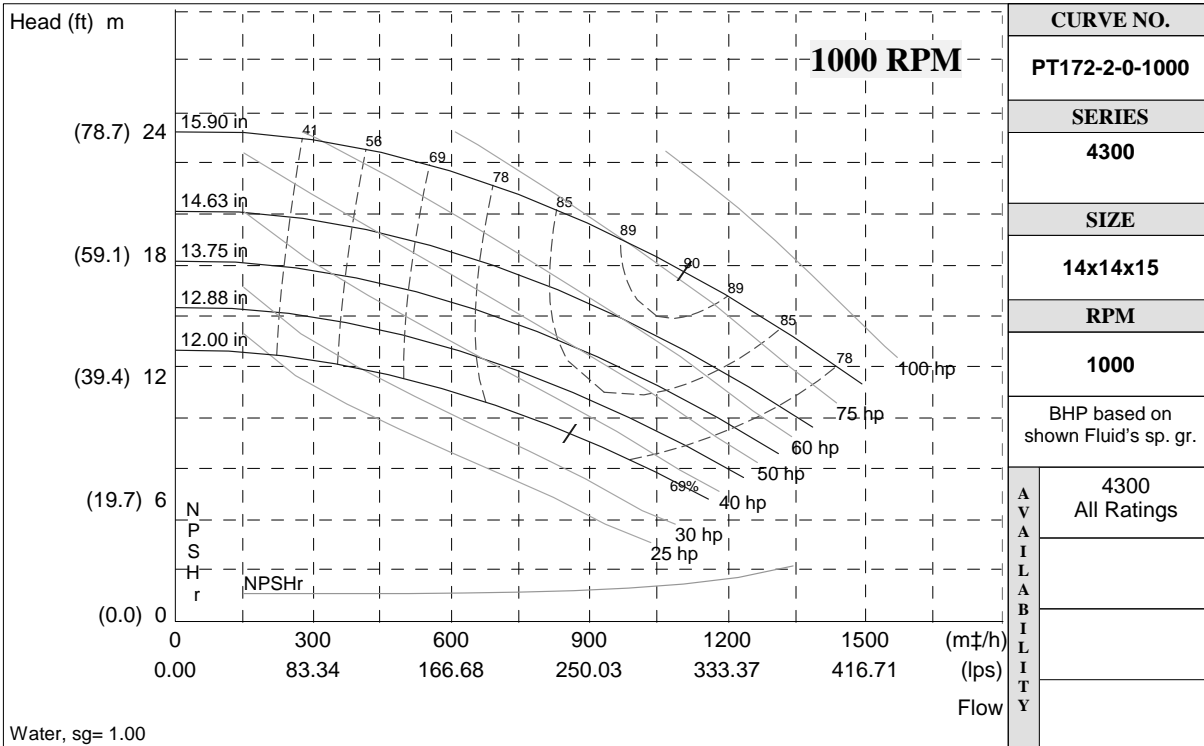
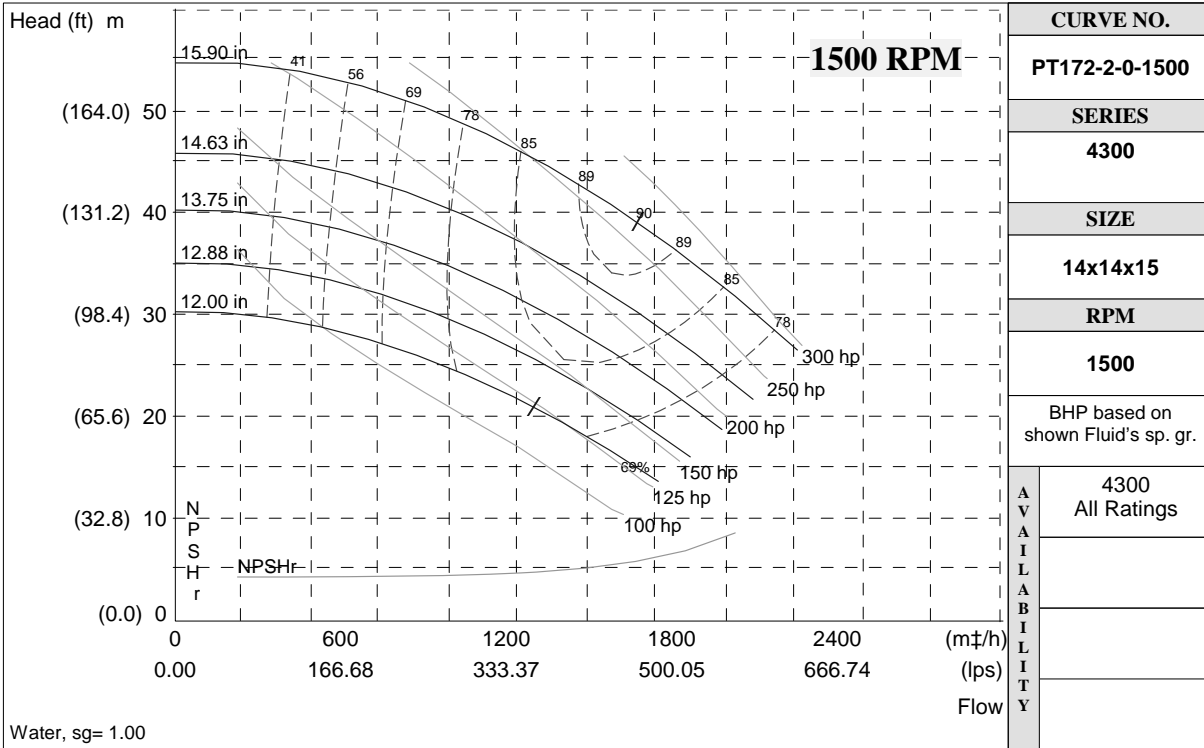
*Assembly weight combines pump and motor.

ARMSTRONG



PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



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SERIES 4300 | VERTICAL IN-LINE

14x14x15 | SUBMITTAL

File No: 43-559
 Date: NOV. 26, 2014
 Supersedes: 43-559
 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: 14" (350 MM) Discharge: 14" (350 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

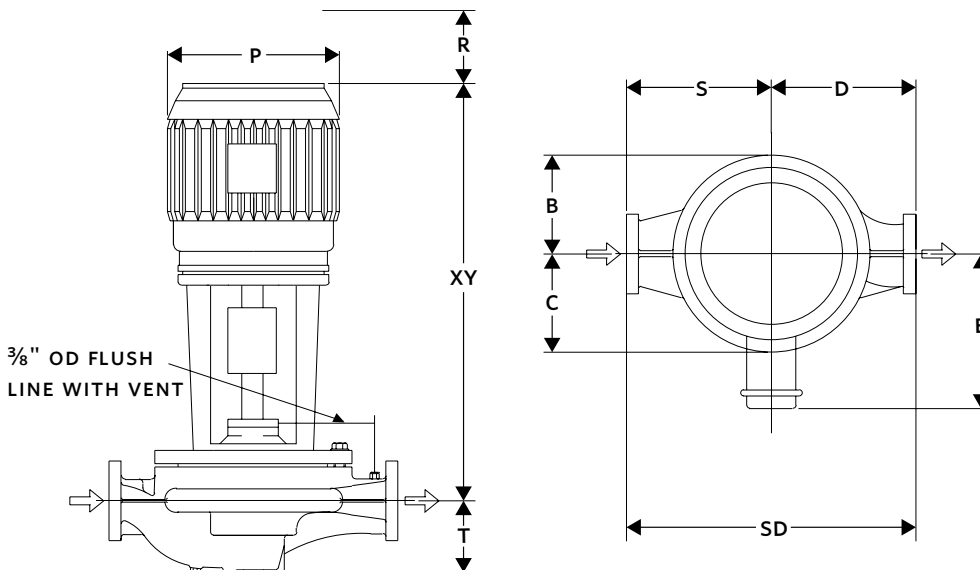
See file no. 43.50 for environmental accessories

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
404TCZ	—	60	—	60	17.13 (435)	21.19 (538)	6.00 (150)	62.94 (1599)	3299 (1496.4)	3417 (1549.9)
405TCZ	—	75	—	75	17.13 (435)	21.19 (538)	6.00 (150)	62.94 (1599)	3325 (1508.2)	3446 (1563.1)
444TCZ	—	100	—	100	18.63 (473)	23.25 (591)	6.00 (150)	66.69 (1694)	3727 (1690.5)	4091 (1855.6)
445TCZ	200 & 250	125 & 150	—	150	18.63 (473)	23.25 (591)	6.00 (150)	66.69 (1694)	3990 (1809.8)	—
447TCZ	—	—	150 & 200	125	18.63 (473)	23.25 (591)	6.00 (150)	70.19 (1783)	—	3719 (1686.9)
449TCZ	—	—	250	—	18.63 (473)	23.25 (591)	6.00 (150)	70.19 (1783)	—	3990 (1809.8)
TCZ	300 & 350	—	300	—	26.94 (684)	34.00 (864)	6.00 (150)	81.31 (2065)	4321 (1960.0)	4875 (2211.3)
TCZ	400 - 500	—	400 - 500	—	26.94 (684)	34.00 (864)	6.00 (150)	98.69 (2507)	4725 (2143.2)	5545 (2515.2)
TCZ	600	—	600	—	32.00 (813)	34.00 (864)	6.00 (150)	113.69 (2888)	—	7125 (3231.8)

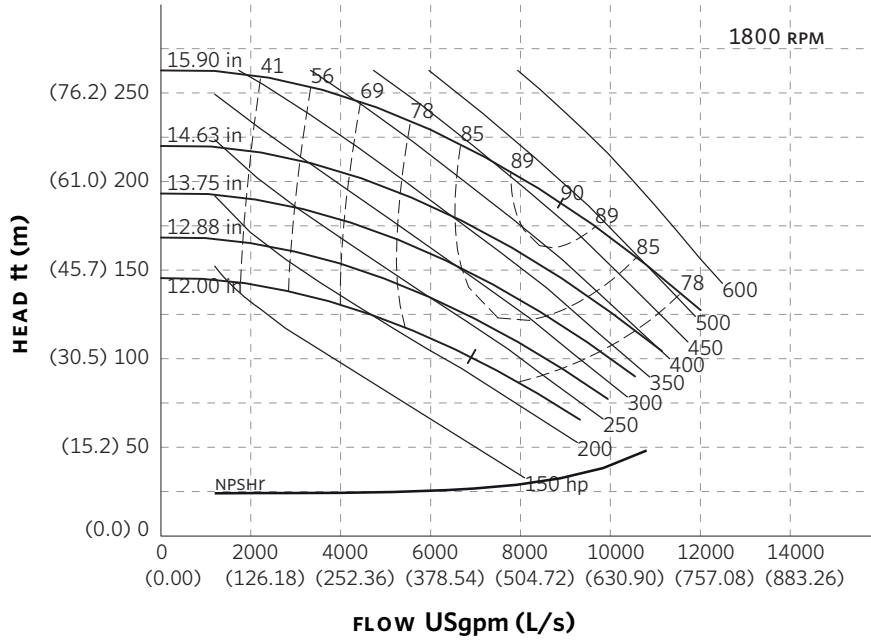
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
20.50 (521)	13.75 (349)	27.00 (686)	25.00 (635)	52.00 (1321)	13.75 (349)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT172-2-0-1800

Series
4300

Size
14 × 14 × 15

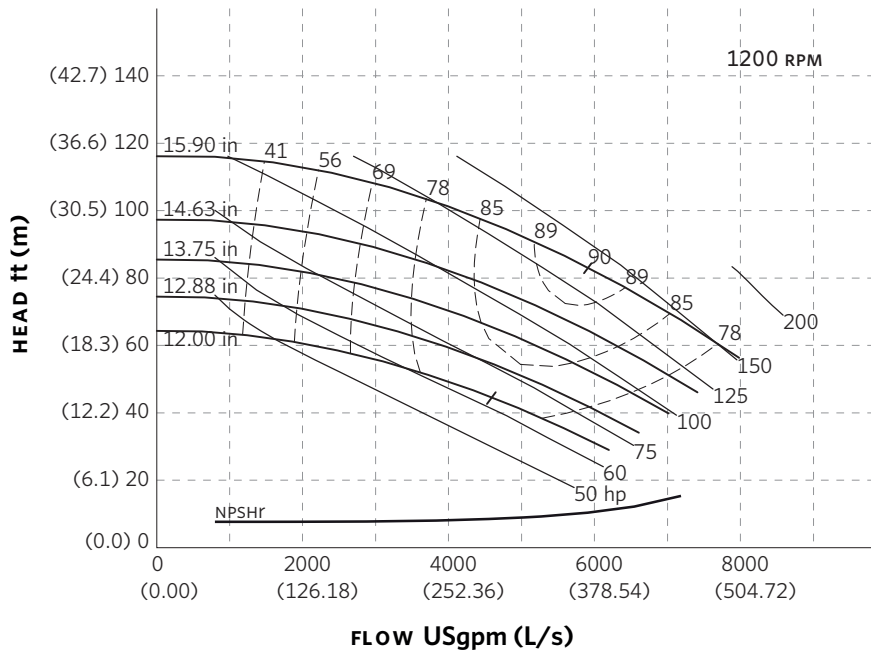
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT172-2-0-1200

Series
4300

Size
14 × 14 × 15

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **16 x 16 x 15** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 400 mm (16")	DISCHARGE: 400 mm (16")	

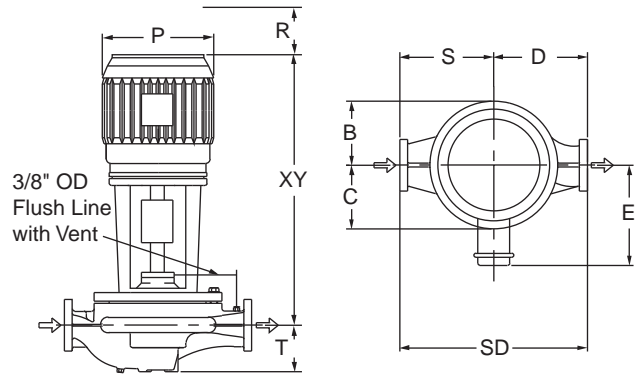
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

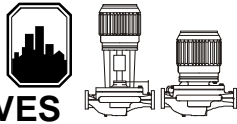


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
515 (20.27)	388 (15.27)	914 (36.00)	737 (29.00)	1651 (65.00)	452 (17.78)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

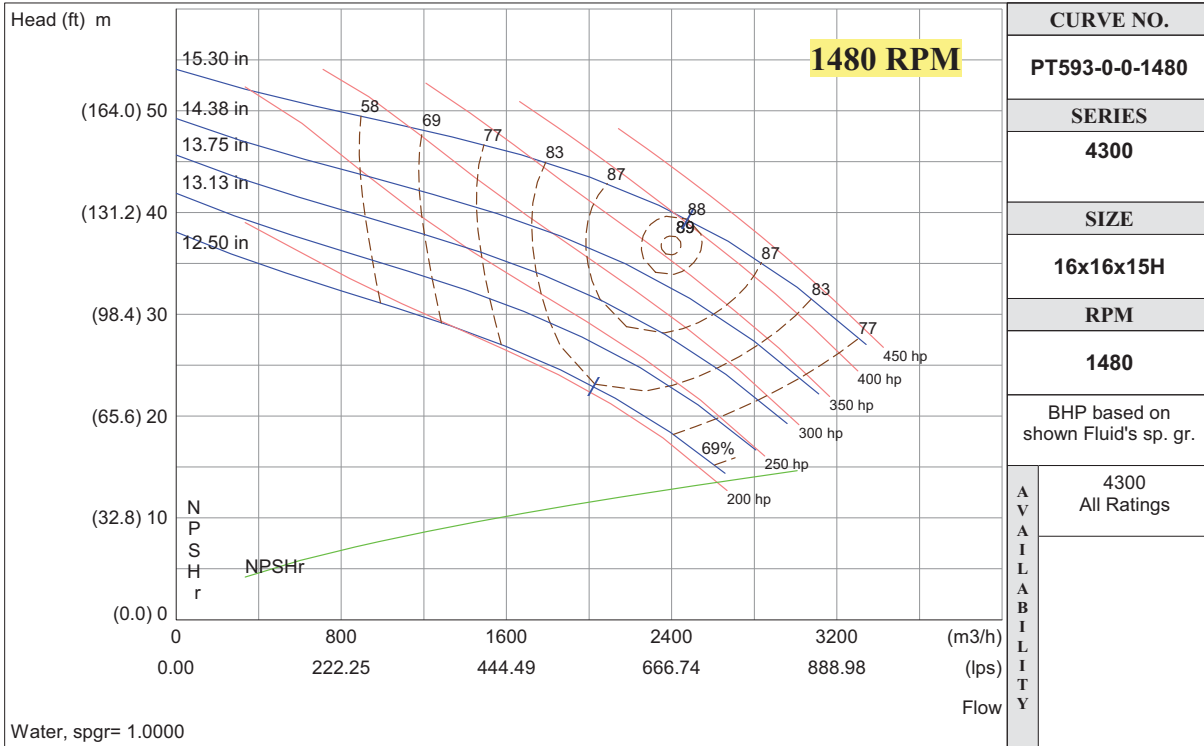
MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	150	---	---	444TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1733 (68.24)	1832.2 (4040)	---
---	200 & 250	---	150 & 200	445TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1733 (68.24)	2018.1 (4450)	2199.5 (4850)
---	300	---	---	447TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1822 (71.74)	2426.3 (5350)	---
---	---	---	250 & 300	449TCZ	473 (18.63)	591 (23.25)	150 (6.00)	1822 (71.74)	---	2585.0 (5700)

*Assembly weight combines pump and motor.

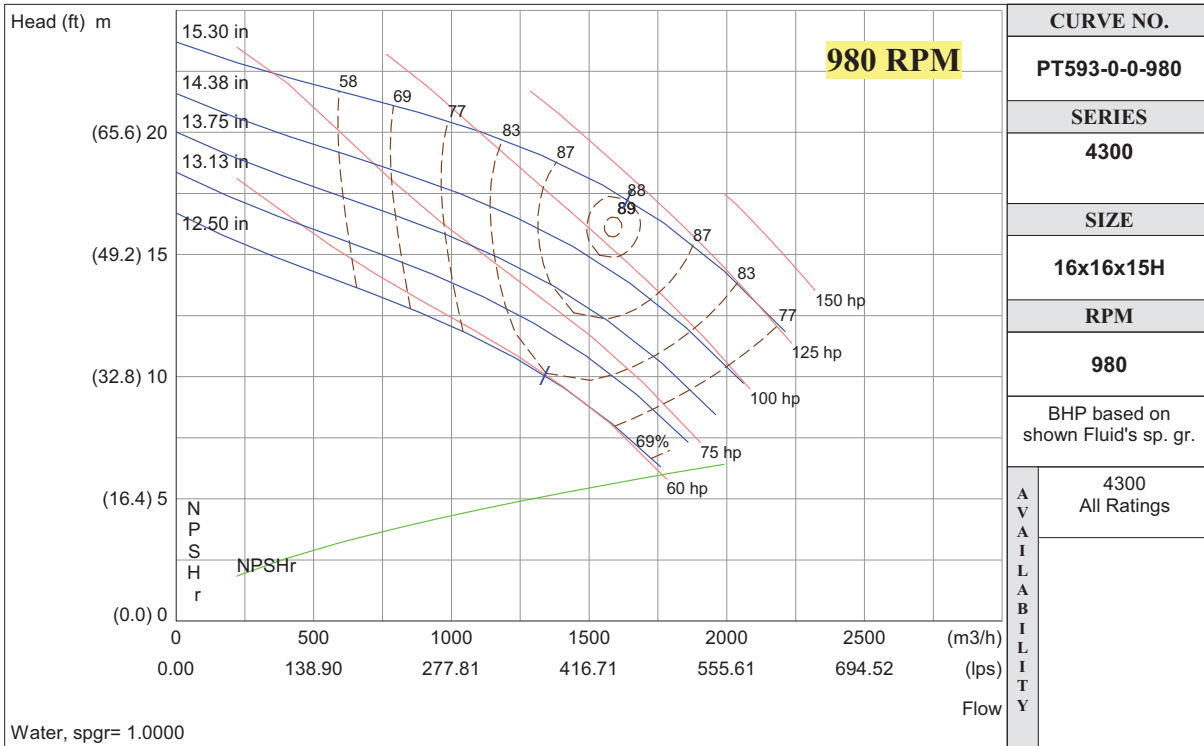


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	
PT593-0-0-1480	
SERIES	
4300	
SIZE	
16x16x15H	
RPM	
1480	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings



CURVE NO.	
PT593-0-0-980	
SERIES	
4300	
SIZE	
16x16x15H	
RPM	
980	
BHP based on shown Fluid's sp. gr.	
A V A I L A B I L I T Y	4300 All Ratings

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 F: (716) 693-8970

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 F: +44 (0) 8444 145 146



SERIES 4300 | VERTICAL IN-LINE

16x16x15 | SUBMITTAL

File No: 43.561
 Date: NOV. 26, 2014
 Supersedes: 43.561
 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: 16" (400 MM) Discharge: 16" (400 MM)

MOTOR DESIGN DATA

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

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.

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

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

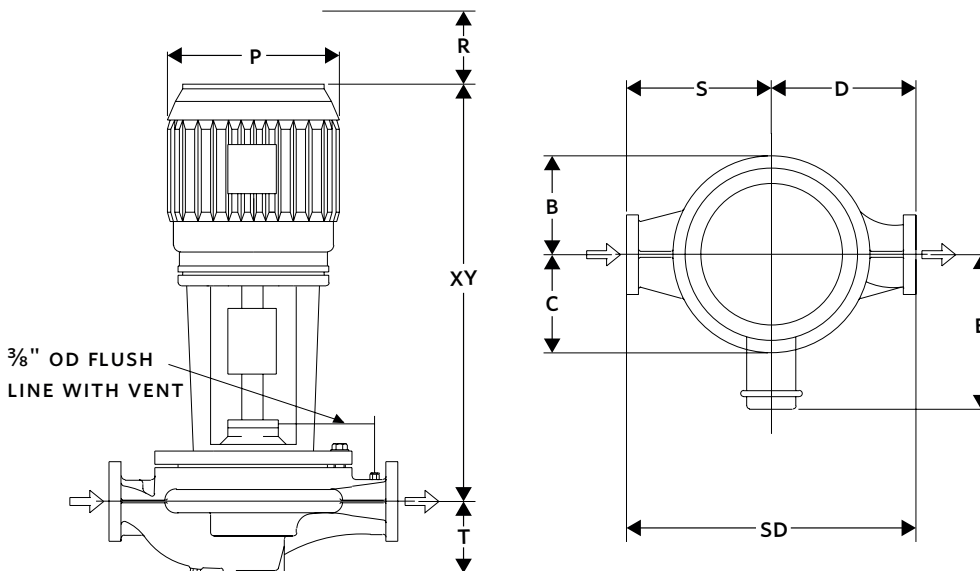
Gasket: Confined fiber

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
405TCZ	—	75	—	75	17.13 (435)	21.19 (538)	6.00 (150)	64.49 (1638)	3775 (1712.3)	3896 (1767.2)
444TCZ	—	100	—	100	18.63 (473)	23.25 (591)	6.00 (150)	68.24 (1733)	4177 (1894.7)	4541 (2059.8)
445TCZ	250	125 & 150	—	150	18.63 (473)	23.25 (591)	6.00 (150)	68.24 (1733)	44402 (014.0)	5187 (2352.8)
447TCZ	—	—	200	125	18.63 (473)	23.25 (591)	6.00 (150)	71.74 (1822)	—	4169 (1891.0)
449TCZ	—	—	250	—	18.63 (473)	23.25 (591)	6.00 (150)	71.74 (1822)	—	4440 (2014.0)
TCZ	300 & 350	—	300 & 350	—	26.94 (684)	34.00 (864)	6.00 (150)	82.86 (2105)	4771 (2164.1)	5325 (2415.4)
TCZ	400 - 500	—	400 - 500	—	26.94 (684)	34.00 (864)	6.00 (150)	100.24 (2546)	5175 (2347.3)	5995 (2719.3)

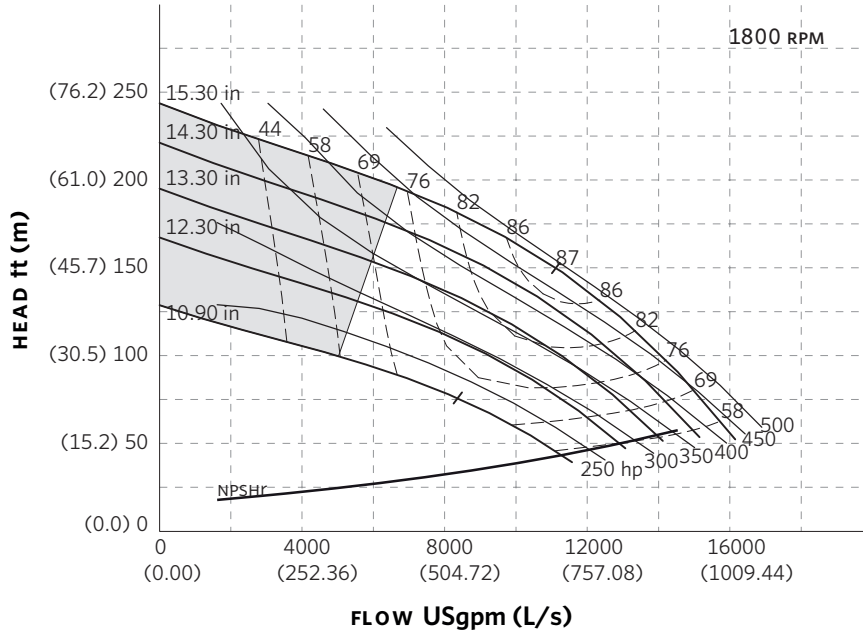
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
20.27 (515)	15.27 (388)	36.00 (914)	29.00 (737)	65.00 (1651)	17.78 (452)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT199-5-0-1800

Series
4300

Size
16 × 16 × 15

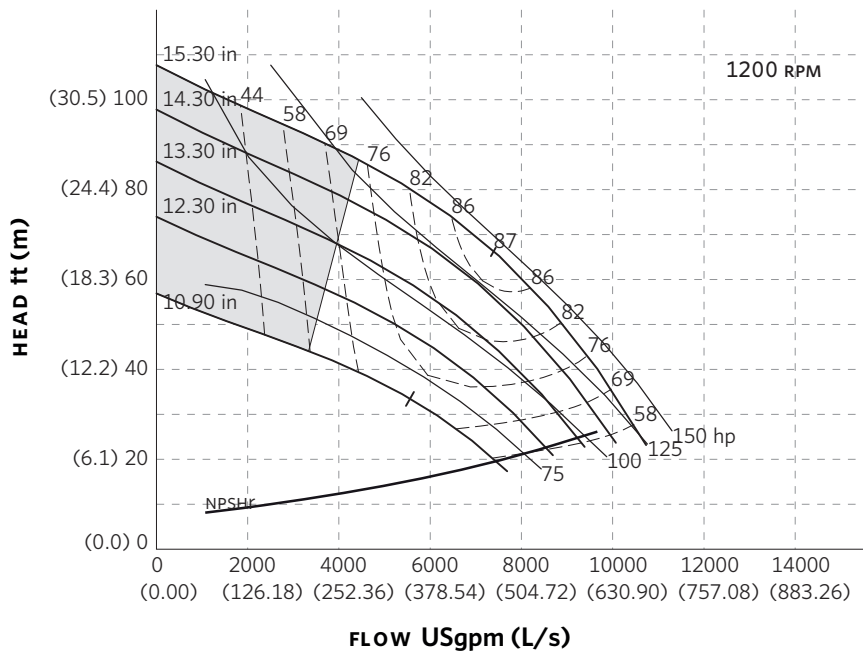
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT199-5-0-1200

Series
4300

Size
16 × 16 × 15

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **16 x 16 x 15H** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 400 mm (16")	DISCHARGE: 400 mm (16")	

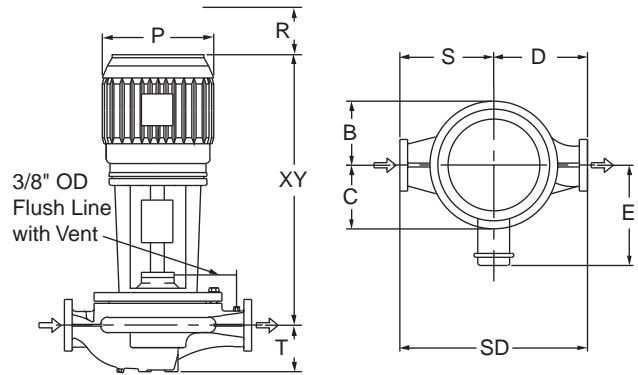
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

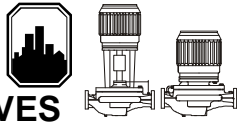


PUMP DIMENSIONS inches (mm)					
B	C	D	S	SD	T
515 (20.27)	388 (15.27)	826 (32.50)	826 (32.50)	1651 (65.00)	452 (17.78)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

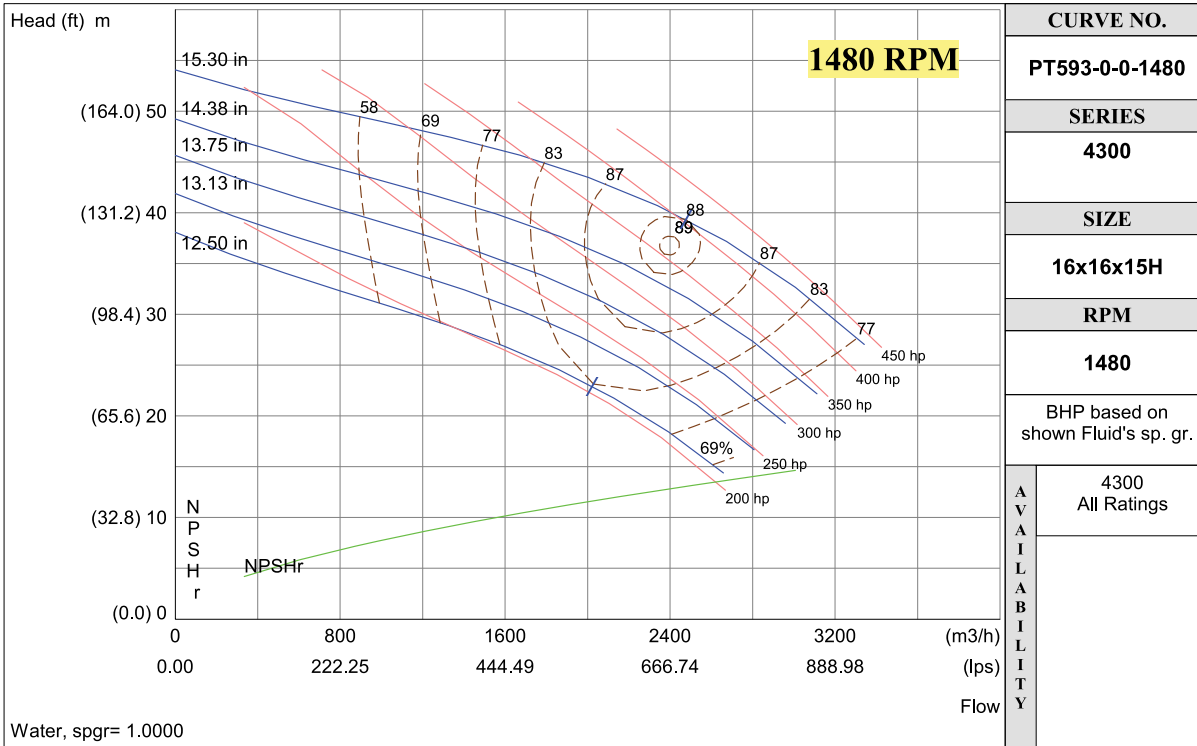
MOTOR HORSEPOWER				MAX. DIMENSIONS inches (mm)				ASSEMBLY WEIGHT*		
ODP		TEFC		Frame	ODP / TEFC			lbs. (kg)		
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	250	---	---	445TCZ	684 (26.94)	864 (34.00)	150 (6.00)	1984 (78.11)	2610.5 (5750)	---
---	---	---	250	449TCZ	684 (26.94)	864 (34.00)	150 (6.00)	2073 (81.61)	---	3359.6 (7400)
---	300 & 350	---	300 & 350	TCZ	684 (26.94)	864 (34.00)	150 (6.00)	2471 (97.30)	3019.1 (6650)	3268.8 (7200)
---	400 - 500	---	400 - 500	TCZ	684 (26.94)	864 (34.00)	150 (6.00)	2471 (97.30)	3178.0 (7000)	3859.0 (8500)

*Assembly weight combines pump and motor.

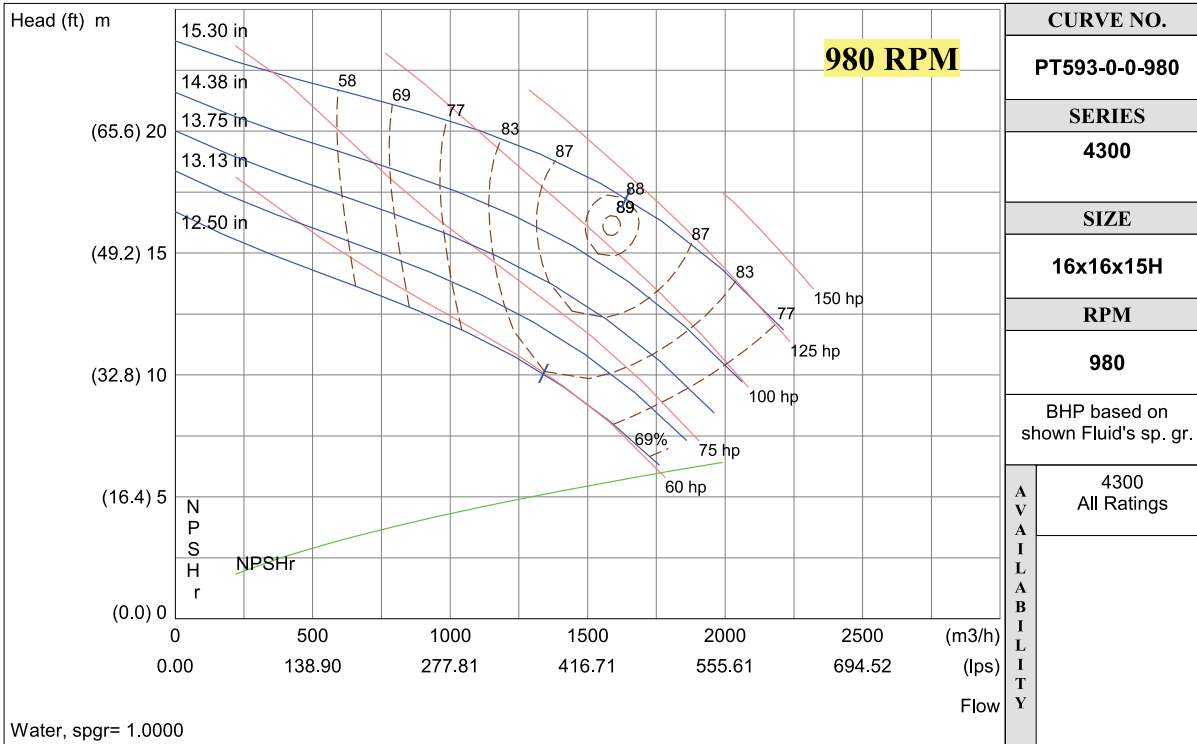


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT593-0-0-1480
SERIES	4300
SIZE	16x16x15H
RPM	1480
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings



CURVE NO.	PT593-0-0-980
SERIES	4300
SIZE	16x16x15H
RPM	980
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings

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 F: +44 (0) 8444 145 146



Series 4300 Vertical In-Line **16 x 16 x 19** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:			RPM:
FRAME SIZE:	ENCLOSURE:		
VOLTS:	HERTZ: 50 Hz	PHASE:	
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 400 mm (16")	DISCHARGE: 400 mm (16")	

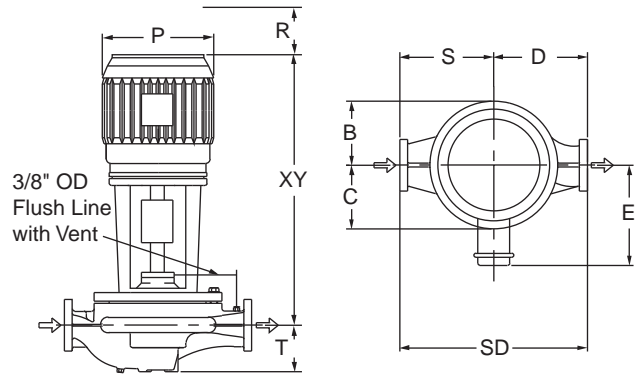
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	



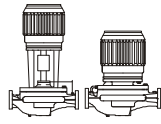
PUMP DIMENSIONS mm (inches)						
B	C	D	S	SD	T	
581 (22.88)	398 (15.66)	914 (36.00)	914 (36.00)	1829 (72.00)	452 (17.78)	

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

MOTOR HORSEPOWER					MAX. DIMENSIONS mm (inches)				ASSEMBLY WEIGHT*	
ODP		TEFC		Frame	ODP / TEFC				kg (lbs.)	
3000rpm	1500rpm	3000rpm	1500rpm		E	P	R	XY	ODP	TEFC
---	250	---	---	445TC	418 (16.44)	483 (19.03)	150 (6.00)	1601 (63.04)	2607.7 (5750)	---
---	300	---	---	447TC	418 (16.44)	483 (19.03)	150 (6.00)	1601 (63.04)	2993.2 (6600)	---
---	---	---	250 & 300	449TC	473 (18.63)	483 (19.03)	150 (6.00)	2073 (81.60)	---	3151.9 (6950)
---	350 & 500	---	350 & 500	P-Base	473 (18.63)	483 (19.03)	150 (6.00)	2073 (81.60)	3310.7 (7300)	3990.9 (8800)
---	600	---	600	P-Base	927 (36.50)	925 (36.42)	150 (6.00)	2156 (84.88)	3582.8 (7900)	4943.3 (10900)

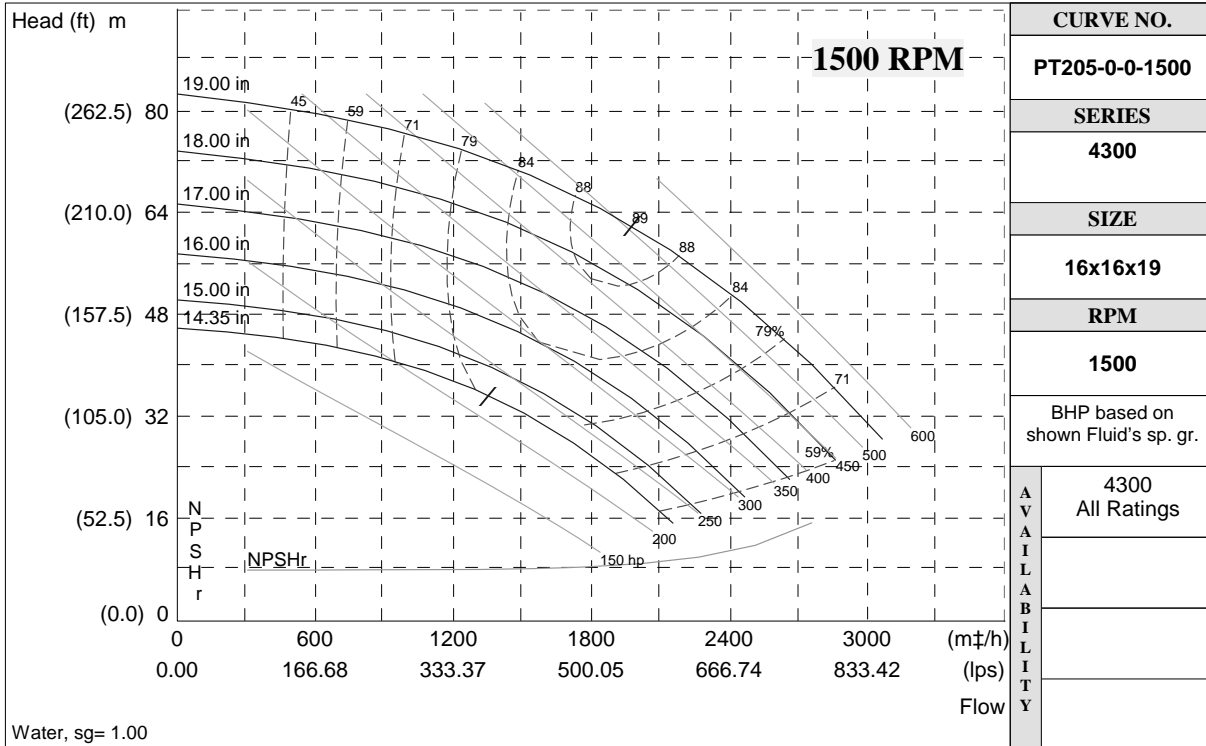
*Assembly weight combines pump and motor.

ARMSTRONG

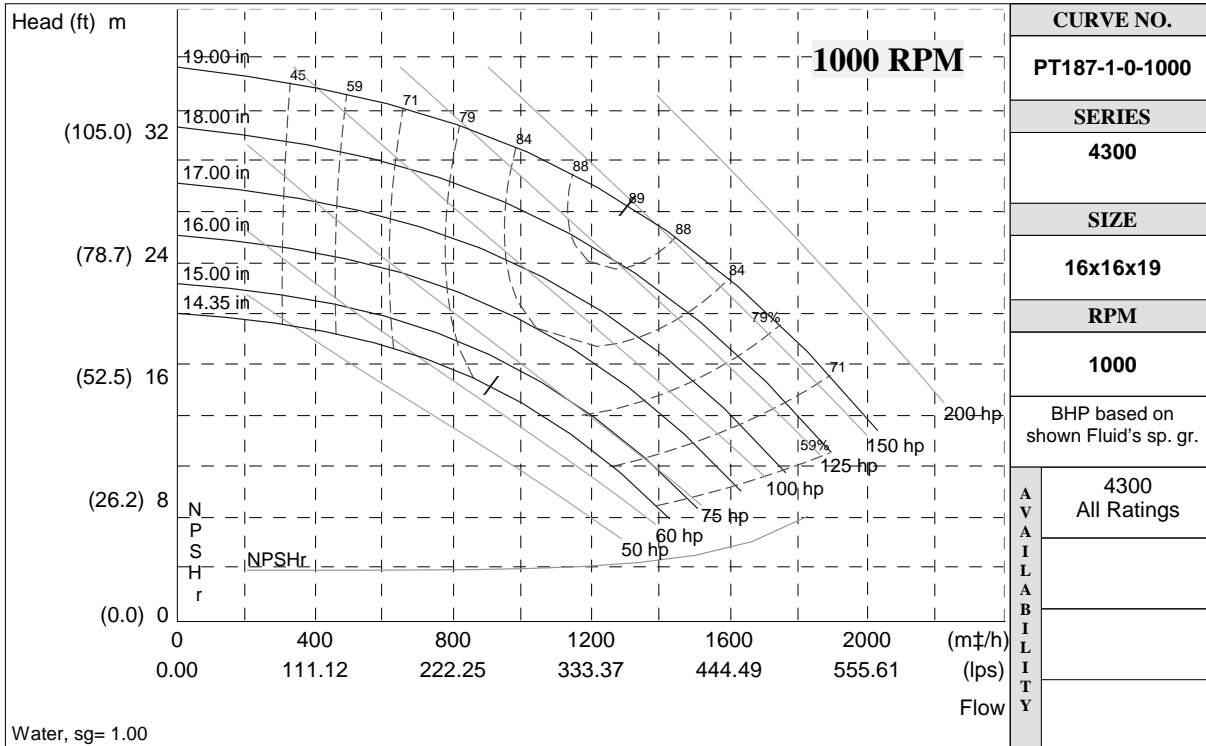


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.	PT205-0-0-1500
SERIES	4300
SIZE	16x16x19
RPM	1500
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings



CURVE NO.	PT187-1-0-1000
SERIES	4300
SIZE	16x16x19
RPM	1000
BHP based on shown Fluid's sp. gr.	
AVAILABILITY	4300 All Ratings

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SERIES 4300 | VERTICAL IN-LINE

16x16x19 | SUBMITTAL

File No: 43.565
 Date: NOV. 26, 2014
 Supersedes: 43.565
 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: 16" (400 MM) Discharge: 16" (400 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

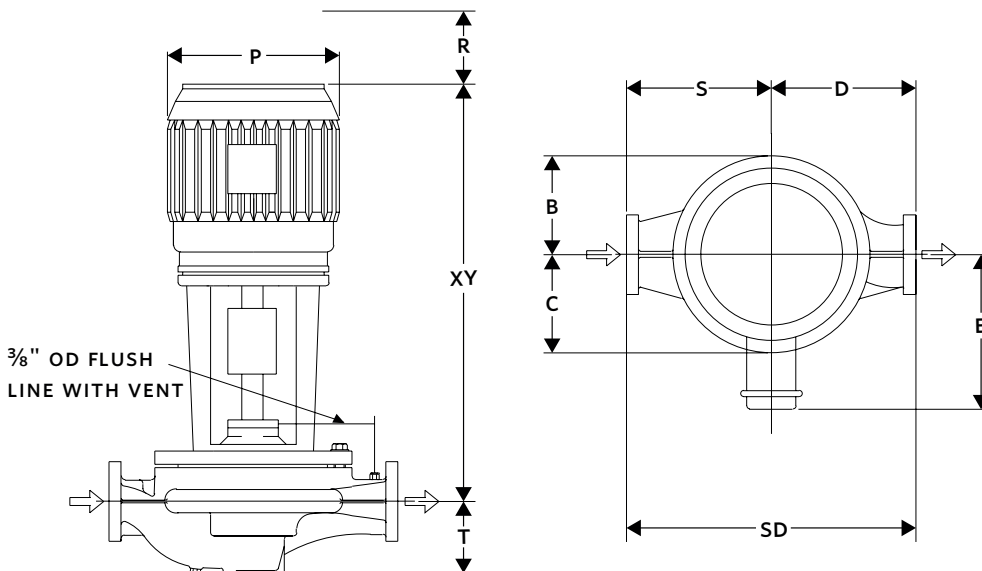
See file no. 43.50 for environmental accessories

MOTOR FRAME	DIMENSIONS INCHES (mm)				DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP		TEFC		ODP/ TEFC				lbs (kgs)	
	1800	1200	1800	1200	E	P	R	XY	ODP	TEFC
445TCZ	200 & 250	125 & 150	—	150	16.44 (418)	19.03 (483)	6.00 (150)	63.04 (1601)	5690 (2580.9)	6158 (2793.2)
447TCZ	—	200	150 & 200	125	16.44 (418)	19.03 (483)	6.00 (150)	63.04 (1601)	—	5419 (2458.0)
449TCZ	—	250 & 300	250	200 - 300	18.63 (473)	19.03 (483)	6.00 (150)	81.60 (2073)	—	5690 (2580.9)
P-Base	300 - 500	—	300 - 500	—	18.63 (473)	19.03 (483)	6.00 (150)	81.60 (2073)	6121 (2776.4)	6675 (3027.7)
P-Base	600 - 700	—	600 - 700	—	36.50 (927)	36.42 (925)	6.00 (150)	84.88 (2156)	—	8925 (4048.3)
P-Base	800 - 900	—	800 - 900	—	36.50 (927)	36.42 (925)	6.00 (150)	99.88 (2537)	—	—
P-Base	1000	—	1000	—	36.50 (927)	36.42 (925)	6.00 (150)	99.88 (2537)	—	—

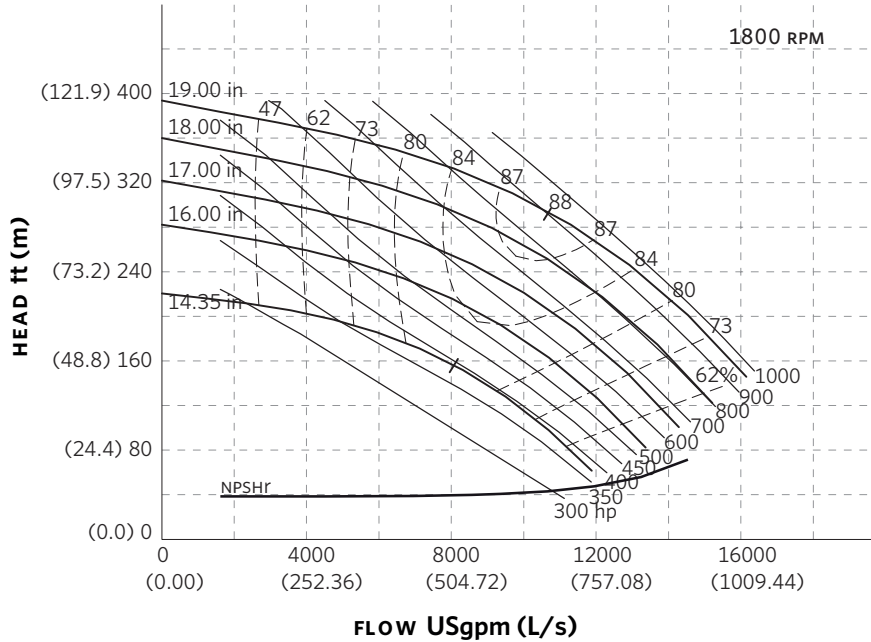
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
22.88 (581)	15.66 (398)	36.00 (914)	36.00 (914)	72.00 (1829)	17.78 (452)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT205-2-0-1800

Series
4300

Size
16 × 16 × 19

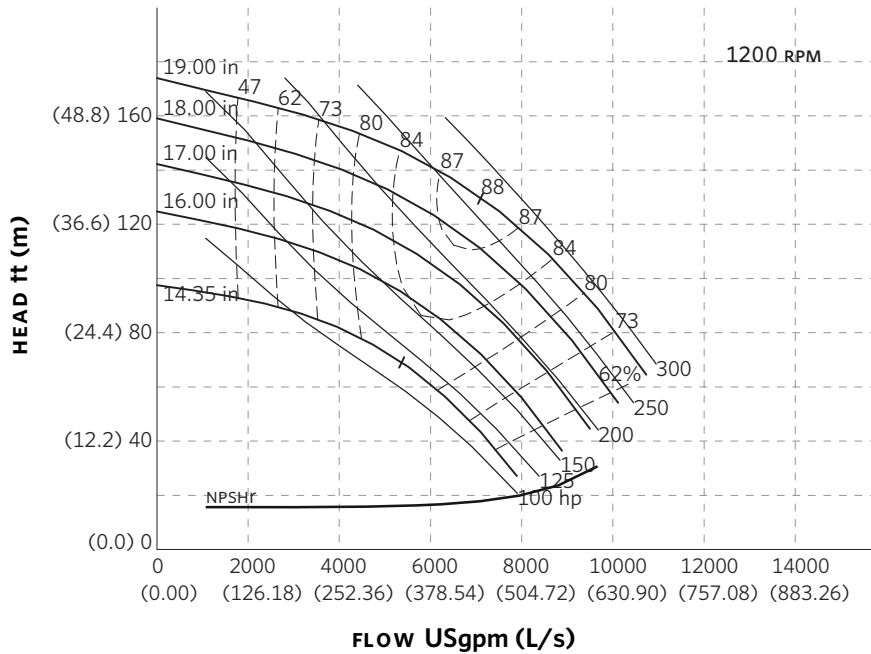
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT187-3-0-1200

Series
4300

Size
16 × 16 × 19

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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**MAKING
ENERGY
MAKE
SENSE™**

Series 4300 Vertical In-Line **20 x 20 x 19** *SUBMITTAL*

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA			
NO. OF PUMPS:			
TAG:			
CAPACITY:	m ³ /h (L/s)	HEAD:	m (ft)
LIQUID:		VISCOSITY:	
TEMPERATURE:		°C (°F)	SPECIFIC GRAVITY:

MOTOR DESIGN DATA			
HP:		RPM:	
FRAME SIZE:		ENCLOSURE:	
VOLTS:		HERTZ: 50 Hz	PHASE:
EFFICIENCY:	<input type="checkbox"/> ENERGY EFFICIENT 12.11	<input type="checkbox"/> NEMA PREMIUM 12.12	
FLANGE SIZE:	SUCTION: 500 mm (20")	DISCHARGE: 500 mm (20")	

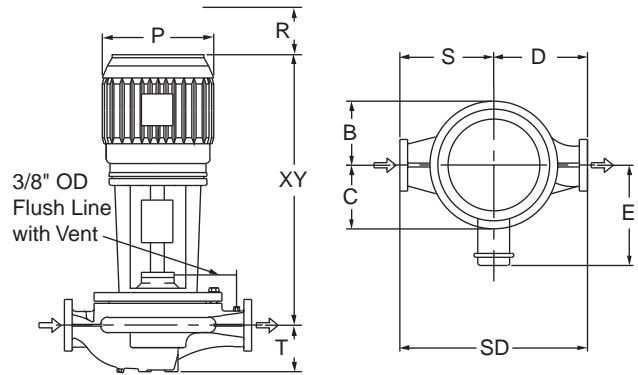
MATERIALS OF CONSTRUCTION					
ANSI FLANGE RATING	ANSI 125			ANSI 250	
CONSTRUCTION	<input type="checkbox"/> BF	<input type="checkbox"/> AI	<input type="checkbox"/> AB	<input type="checkbox"/> DBF	<input type="checkbox"/> DI
CASING	CAST IRON	CAST IRON	BRONZE	DUCTILE IRON	DUCTILE IRON
IMPELLER	BRONZE	CAST IRON	BRONZE	BRONZE	CAST IRON
FLUSH LINE	BRAIDED STAINLESS STEEL				
PUMP SHAFT	416 STAINLESS STEEL				
COUPLING	HIGH TENSILE ALUMINUM				
GASKET	CONFINED FIBER				

MECHANICAL SEAL DESIGN DATA
See File No. 43.50 for standard mechanical seal details as indicated below
Armstrong Seal Reference Number
<input type="checkbox"/> C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT
SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

MAXIMUM PUMP OPERATING CONDITIONS	
ANSI 125	ANSI 250
12 bar at 60°C (175 psi at 140°F)	26 bar at 38°C (375 psi at 100°F)
7 bar at 149°C (100 psi at 300°F)	19 bar at 149°C (275 psi at 300°F)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

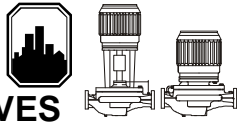


PUMP DIMENSIONS mm (inches)					
B	C	D	S	SD	T
787 (31.00)	508 (20.00)	121 (48.00)	1016 (40.00)	2235 (88.00)	508 (20.00)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF ±3 mm (±0.125") SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- SEE PERFORMANCE CURVES ON PAGE 2.

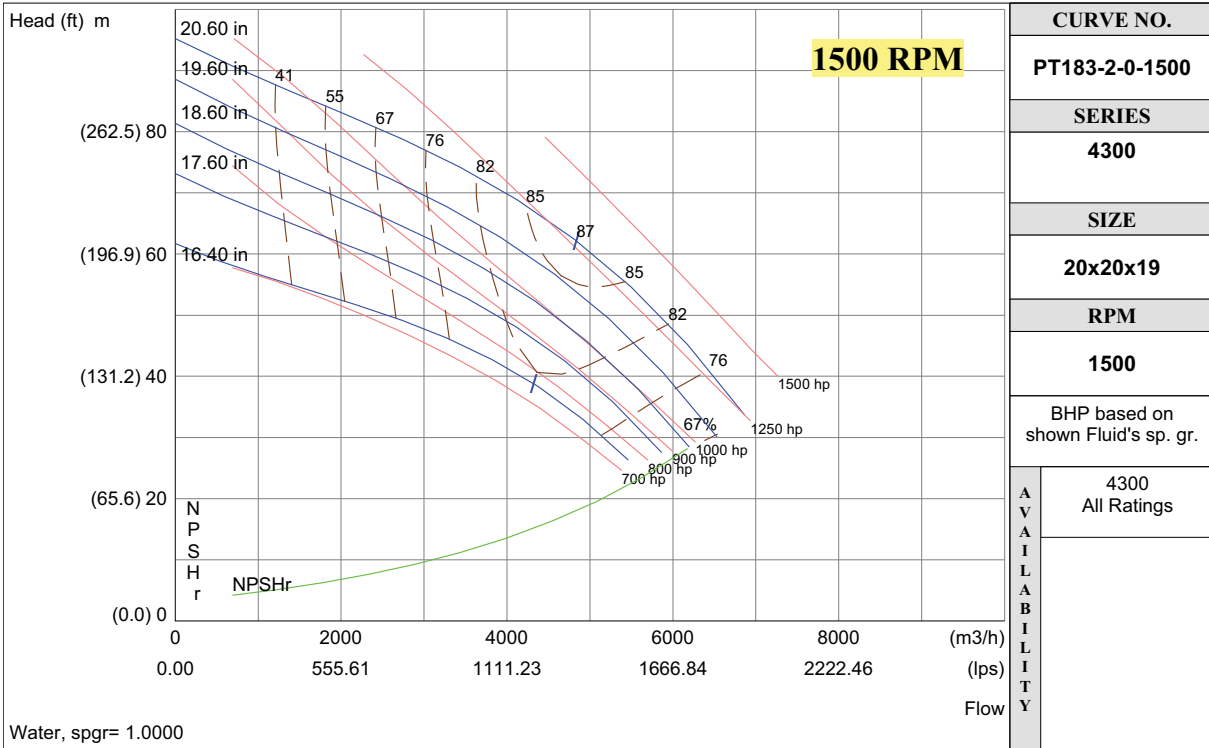
MOTOR HORSEPOWER		Frame	MAX. DIMENSIONS mm (inches)				MAX. ASSEMBLY WEIGHT*
ODP & TEFC	ODP & TEFC		E	P	R	XY	ODP & TEFC
1500 rpm	1000 rpm						kg (lbs.)
---	200 - 250	P-Base	610 (24.00)	737 (29.00)	150 (6.00)	2388 (94.00)	4445.0 (9800)
---	300 - 400	P-Base	635 (25.00)	737 (29.00)	150 (6.00)	2591 (102.00)	4672.0 (10300)
600 - 900	---	P-Base	711 (28.00)	864 (34.00)	150 (6.00)	2870 (113.00)	5579.0 (12300)
1000 - 1250	---	P-Base	1016 (40.00)	1092 (43.00)	150 (6.00)	3175 (125.00)	6985.0 (15400)

*Assembly weight combines pump and motor.

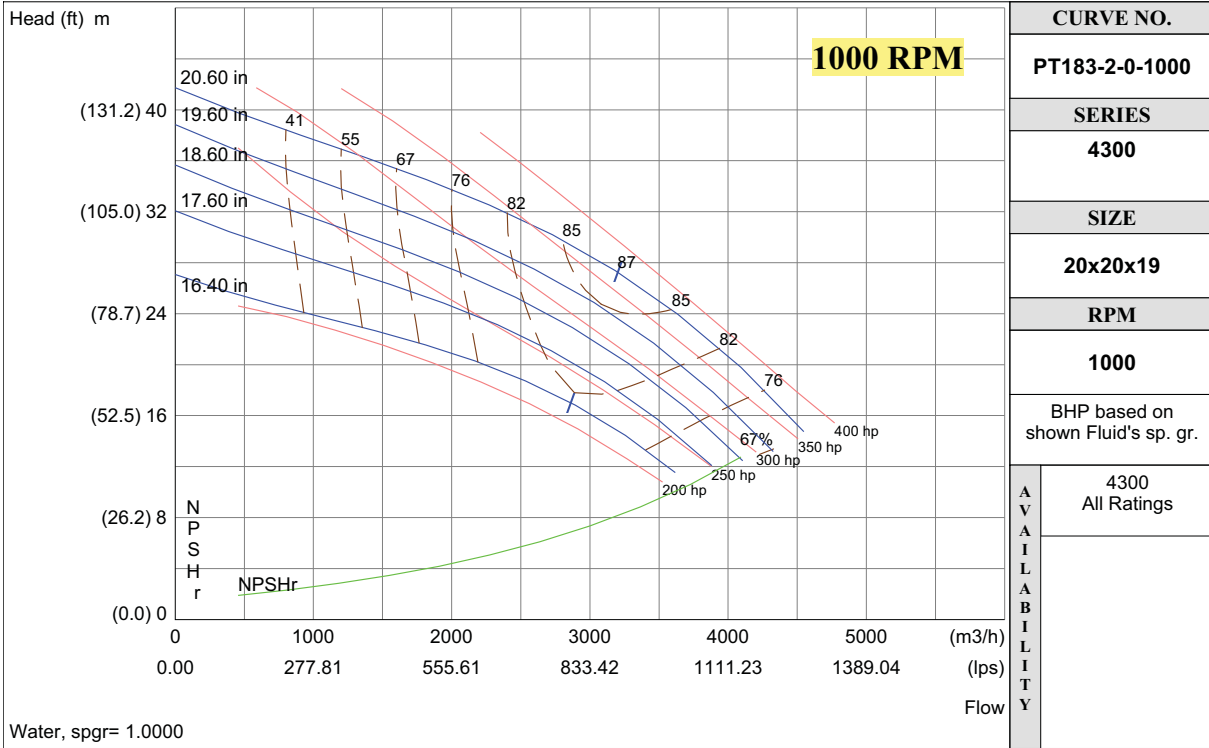


PERFORMANCE CURVES

Performance Guaranteed Only At Operating Point Indicated
 CURVE SHOWN FOR CLEAR, COLD WATER - SP. GR. 1.0



CURVE NO.
PT183-2-0-1500
SERIES
4300
SIZE
20x20x19
RPM
1500
BHP based on shown Fluid's sp. gr.
4300 All Ratings
AVAILABILITY



CURVE NO.
PT183-2-0-1000
SERIES
4300
SIZE
20x20x19
RPM
1000
BHP based on shown Fluid's sp. gr.
4300 All Ratings
AVAILABILITY

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 23 Bertrand Avenue
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 Canada, M1L 2P3
 T: (416) 755-2291
 F (Main): (416) 759-9101

Armstrong Pumps Inc.
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 North Tonawanda, New York
 U.S.A. 14120-6594
 T: (716) 693-8813
 F: (716) 693-8970

Armstrong Integrated Limited
 Wenlock Way
 Manchester
 United Kingdom, M12 5JL
 T: +44 (0) 8444 145 145
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For Armstrong locations worldwide, please visit www.armstrongintegrated.com

SERIES 4300 | VERTICAL IN-LINE 20x20x19 | SUBMITTAL

File No: 43.567
Date: NOV. 26, 2014
Supersedes: 43.567
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: 20" (500 MM) Discharge: 20" (500 MM)

MOTOR DESIGN DATA

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

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.

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

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

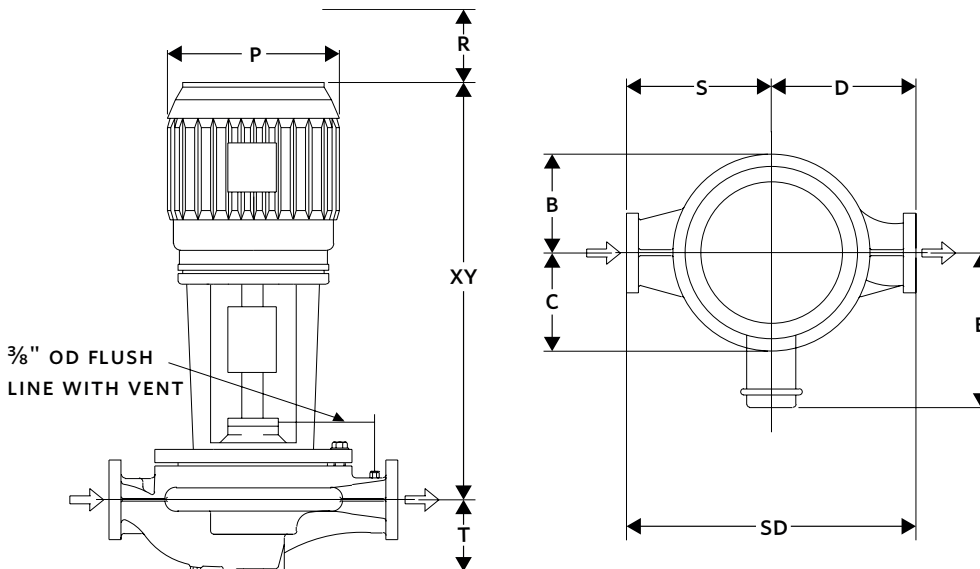
2

MOTOR			DIMENSIONS INCHES (mm)				ASSEMBLY WEIGHT*	
	ODP	TEFC	ODP/ TEFC				lbs (kgs)	
FRAME	1200	1200	E	P	R	XY	ODP	TEFC
P-Base	300 - 500	300 - 500	25.00 (635)	29.00 (737)	6.00 (150)	102.00 (2591)	7819 (3546.6)	8137 (3690.9)
P-Base	600 - 700	600 - 700	28.00 (711)	34.00 (864)	6.00 (150)	113.00 (2870)	12500 (5670.0)	9925 (4501.9)

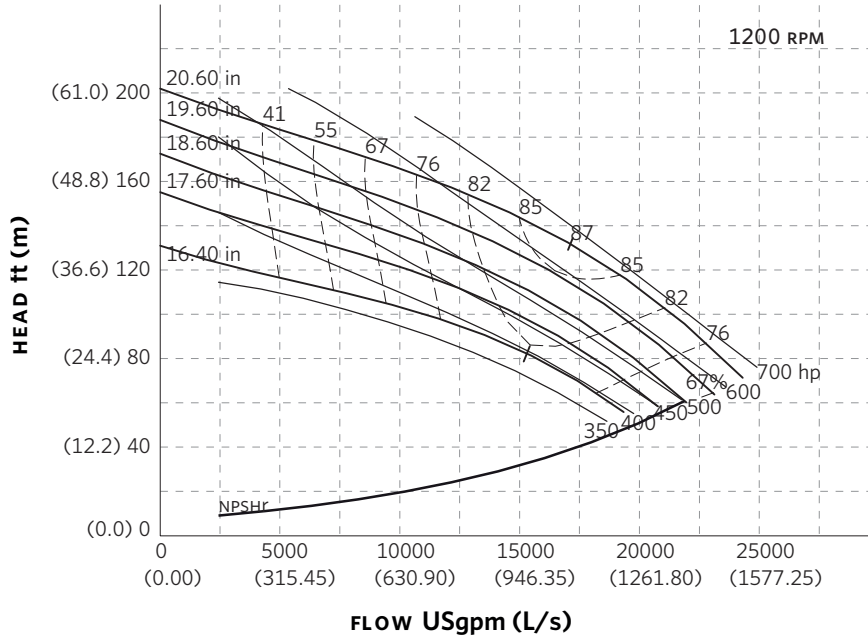
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T
31.00 (787)	20.00 (508)	48.00 (1219)	40.00 (1016)	88.00 (2235)	20.00 (508)



SERIES 4300 PERFORMANCE CURVES



Curve number
PT183-2-0-1200

Series
4300

Size
20 × 20 × 19

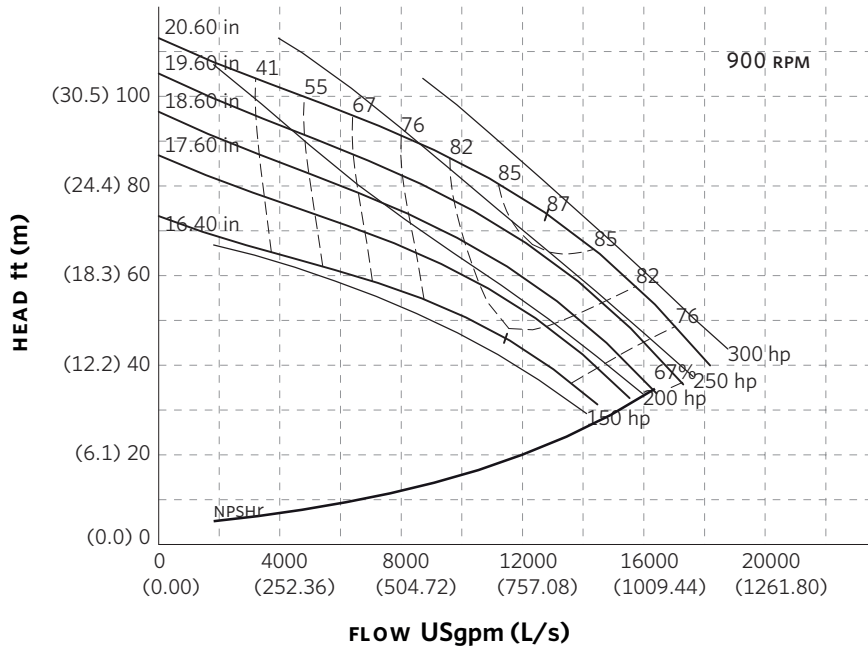
RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings

Performance
guaranteed only
at operating point
indicated

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



Curve number
PT183-2-0-900

Series
4300

Size
20 × 20 × 19

RPM
900

BHP based on shown
Fluid's sp. gr.

Availability
4300 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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ENERGY
MAKE
SENSE™**