

SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 1.5 × 1.5 × 6 | SUBMITTAL

File No: 43-701
Date: NOV. 26, 2014
Supersedes: 43-701
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 1.5" (38mm) Discharge: 1.5" (38mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

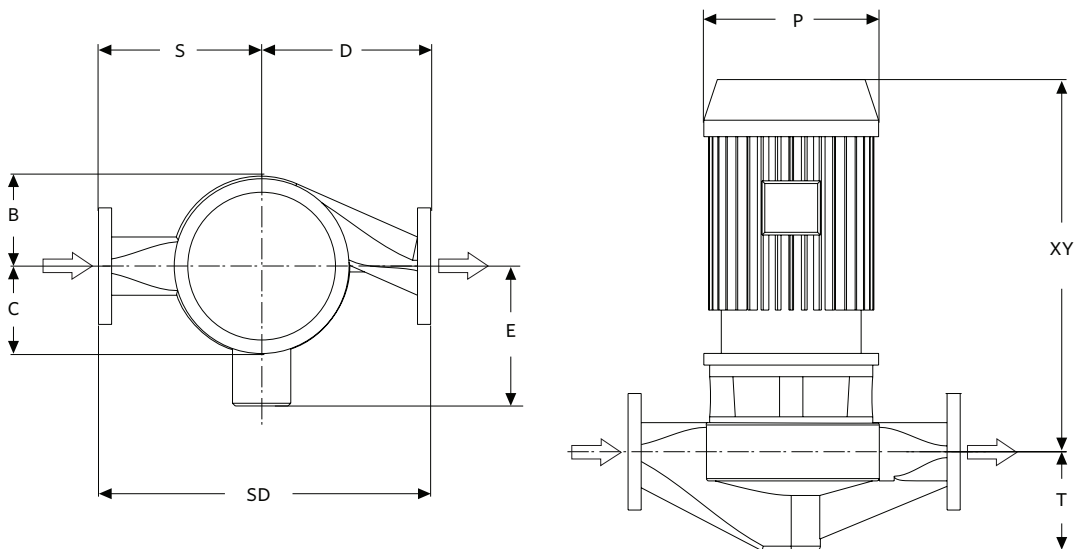
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR FRAME	HORSEPOWER - @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
56	—	0.17- 0.75	0.083- 0.163	6.00 (152)	7.50 (191)	15.97 (406)	127 (57.6)	—
143	1.5	1	—	6.13 (156)	8.63 (219)	17.22 (437)	147 (66.7)	148 (67.1)
145	2	—	—	6.13 (156)	8.63 (219)	17.22 (437)	149 (67.6)	159 (72.1)
145	3	—	—	6.13 (156)	8.63 (219)	17.22 (437)	154 (69.9)	197 (89.4)
182	5	—	—	7.50 (191)	10.38 (264)	19.22 (488)	156 (70.8)	206 (93.4)
184	7.5	—	—	7.50 (191)	10.38 (264)	19.22 (488)	168 (76.2)	249 (112.9)

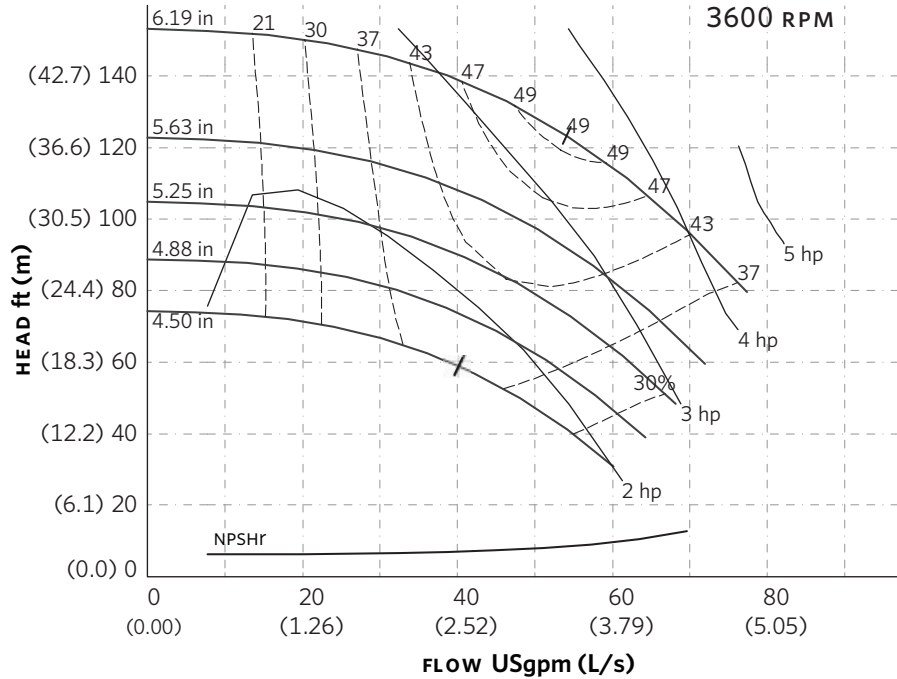
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
1.50	1.50	3.86	3.78	7.25	7.00	14.25	4.25
(38)	(38)	(98)	(96)	(184)	(178)	(362)	(108)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT13-1-0-3600

Series
4300
4380

Size
1.5 × 1.5 × 6

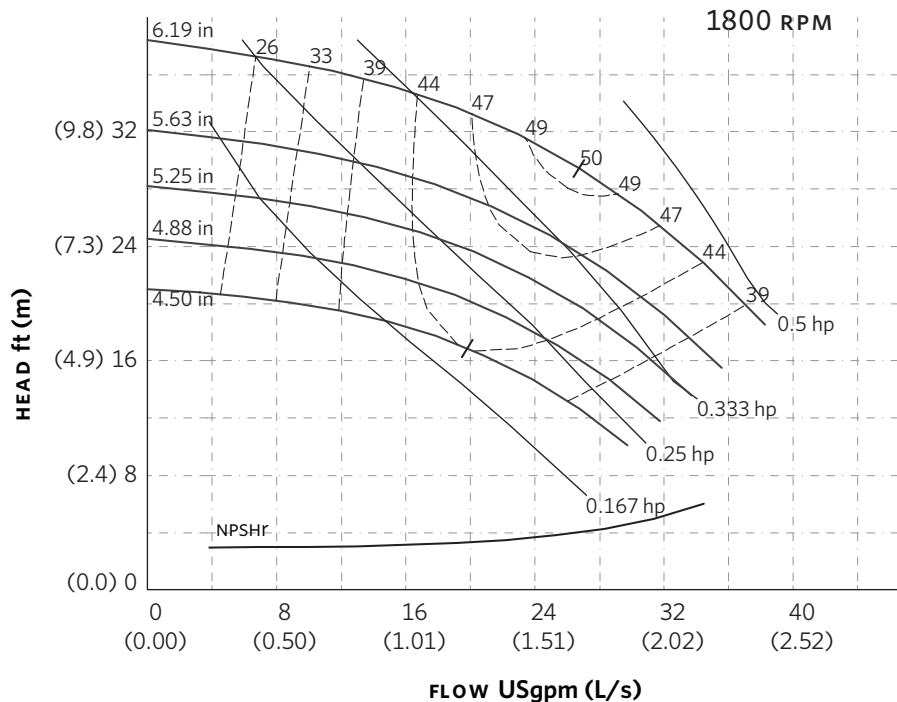
RPM
3600

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. 1.0000



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 MIN.
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 1.5 × 1.5 × 8 | SUBMITTAL

File No: 43-711
Date: NOV. 26, 2014
Supersedes: 43-711
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 1.5" (38mm) Discharge: 1.5" (38mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

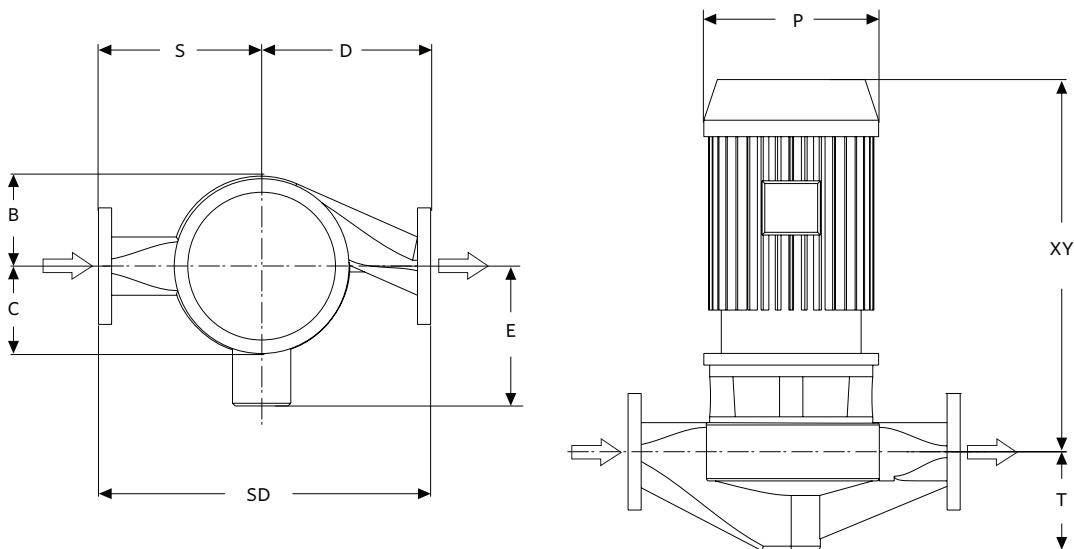
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

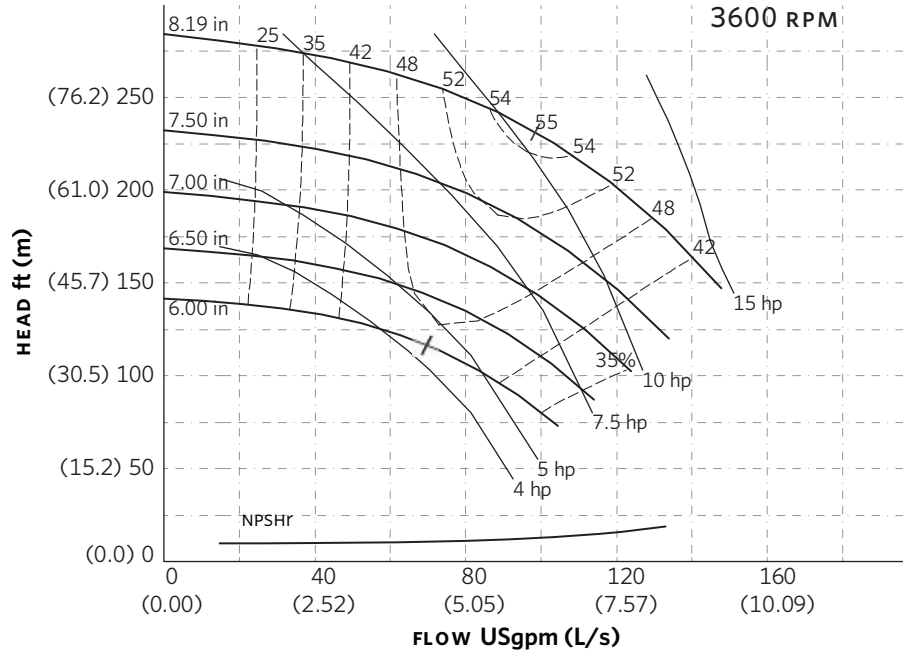
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
56	—	0.5- 0.75	0.167 - 0.5	6.00 (152)	7.50 (191)	16.01 (407)	142 (64.4)	—
143	—	1	0.75	6.13 (156)	8.63 (219)	17.26 (438)	161 (73.0)	164 (74.4)
145	—	1.5	—	6.13 (156)	8.63 (219)	17.26 (438)	168 (76.2)	172 (78.0)
145	—	2	—	6.13 (156)	8.63 (219)	17.26 (438)	168 (76.2)	174 (78.9)
182	5	—	—	7.50 (191)	10.38 (264)	19.26 (489)	172 (78.0)	222 (100.7)
184	7.5	—	—	7.50 (191)	10.38 (264)	19.26 (489)	184 (83.5)	265 (120.2)
213	10	—	—	8.25 (210)	12.13 (308)	25.49 (647)	266 (120.7)	308 (139.7)
215	15	—	—	8.25 (210)	12.13 (308)	25.49 (647)	271 (122.9)	396 (179.6)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
1.50	1.50	5.72	5.72	8.00	8.00	16.00	4.59
(38)	(38)	(145)	(145)	(203)	(203)	(406)	(117)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT15-1-0-3600

Series
4300
4380

Size
1.5 × 1.5 × 8

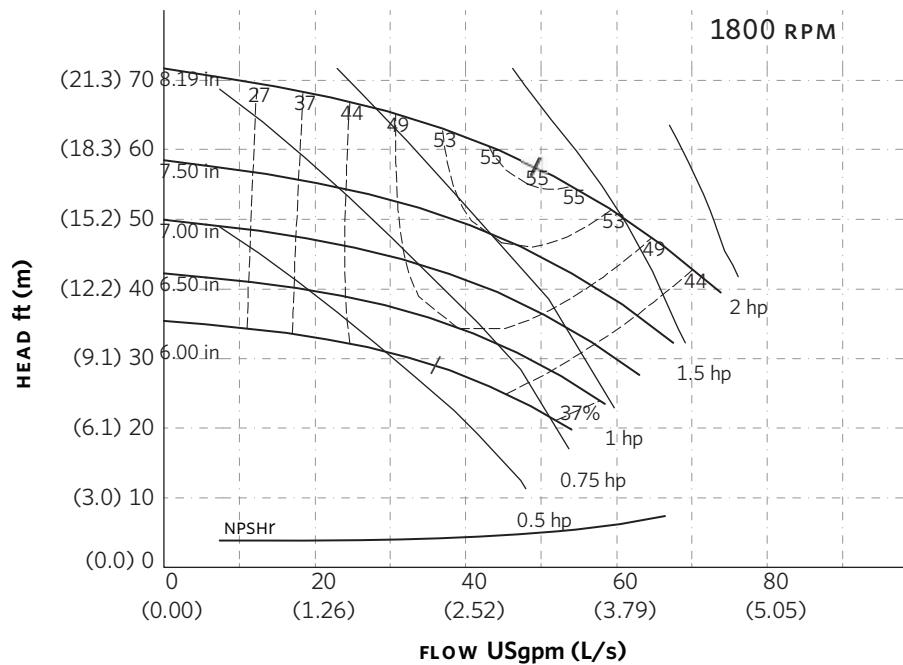
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000



Curve number
PT14-1-0-1800

Series
4300
4380

Size
1.5 × 1.5 × 8

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 FR 143 MIN.
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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**MAKING
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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 2 × 2 × 6 | SUBMITTAL

File No: 43-704
Date: NOV. 26, 2014
Supersedes: 43-704
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 2" (50mm) Discharge: 2" (50mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

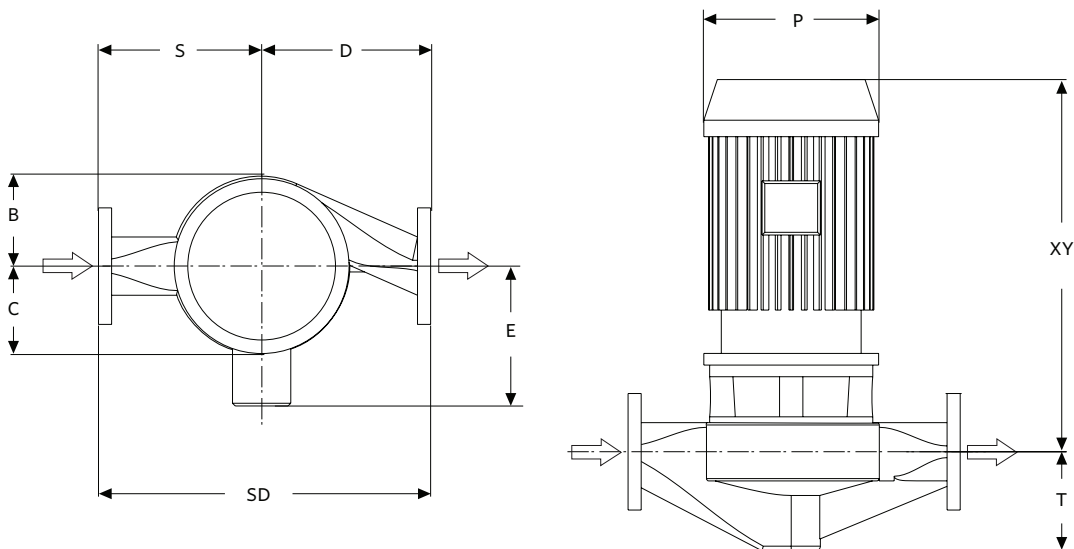
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

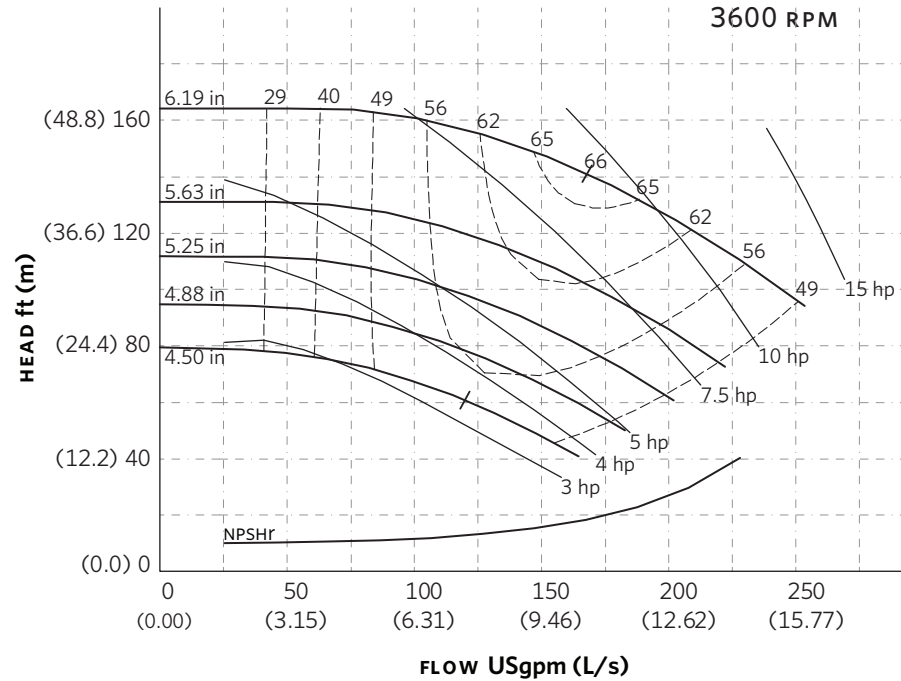
MOTOR	HORSEPOWER - @ RPM			DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC						lbs	(kgs)
FRAME	3600	1800	1200	E	P	XY	ODP	TEFC
56C	—	1.67-0.75	0.167-0.5	6.00 (152)	7.50 (191)	16.00 (406)	127 (57.6)	—
143	—	1	0.75	6.13 (156)	8.63 (219)	17.25 (438)	150 (68.0)	153 (69.4)
145	—	1.5	—	6.13 (156)	8.63 (219)	17.25 (438)	157 (71.2)	161 (73.0)
145	3	2	—	6.13 (156)	8.63 (219)	17.25 (438)	159 (72.1)	202 (91.6)
182	5	—	—	7.50 (191)	10.38 (264)	19.26 (489)	161 (73.0)	211 (95.7)
184	7.5	—	—	7.50 (191)	10.38 (264)	19.26 (489)	173 (78.5)	254 (115.2)
213	10	—	—	8.25 (210)	12.13 (308)	21.63 (549)	239 (108.4)	281 (127.5)
215	15	—	—	8.25 (210)	12.13 (308)	21.63 (549)	244 (110.7)	369 (167.4)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
2.00	2.00	4.47	4.47	7.00	8.00	15.00	4.88
(51)	(51)	(114)	(114)	(178)	(203)	(381)	(124)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT38-2-0-3600

Series
4300
4380

Size
2 × 2 × 6

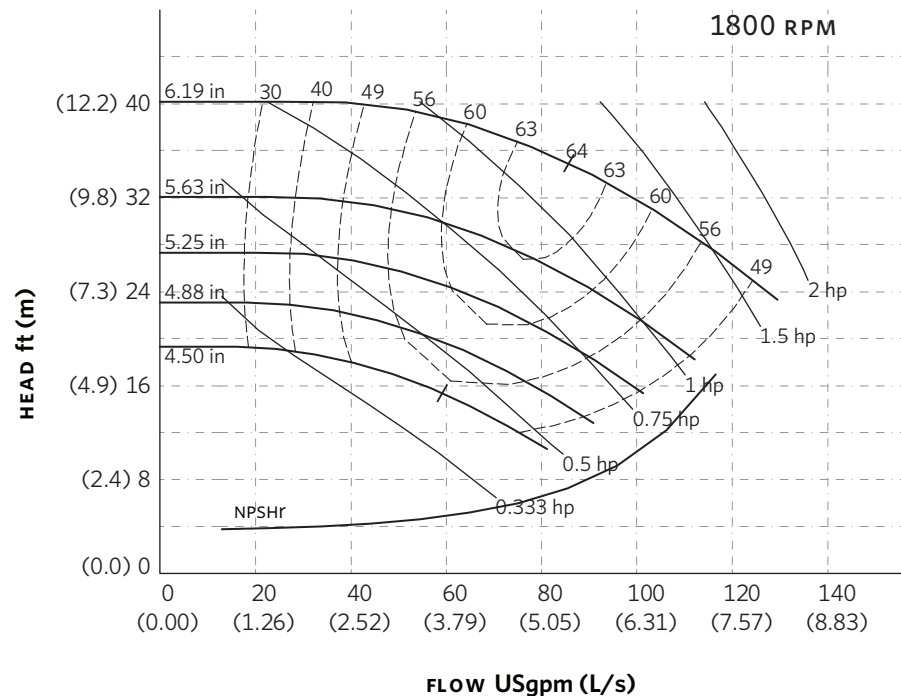
RPM
3600

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. 1.0000



Curve number
PT37-2-0-1800

Series
4300
4380

Size
2 × 2 × 6

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 FR 143 MIN.
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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**MAKING
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SERIES 4380 | VERTICAL IN-LINE PUMPS

CLOSED-COUPLED | 2 × 2 × 8 | SUBMITTAL

File No: 43-712
 Date: NOV. 26, 2014
 Supersedes: 43-712
 Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 2" (50mm) Discharge: 2" (50mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

- ANSI 125**
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)
- ANSI 250**
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)
- Tolerance of ±0.125" (±3 mm) should be used
 - See performance curves on page 3
 - For exact installation, data please write factory for certified dimensions
 - Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

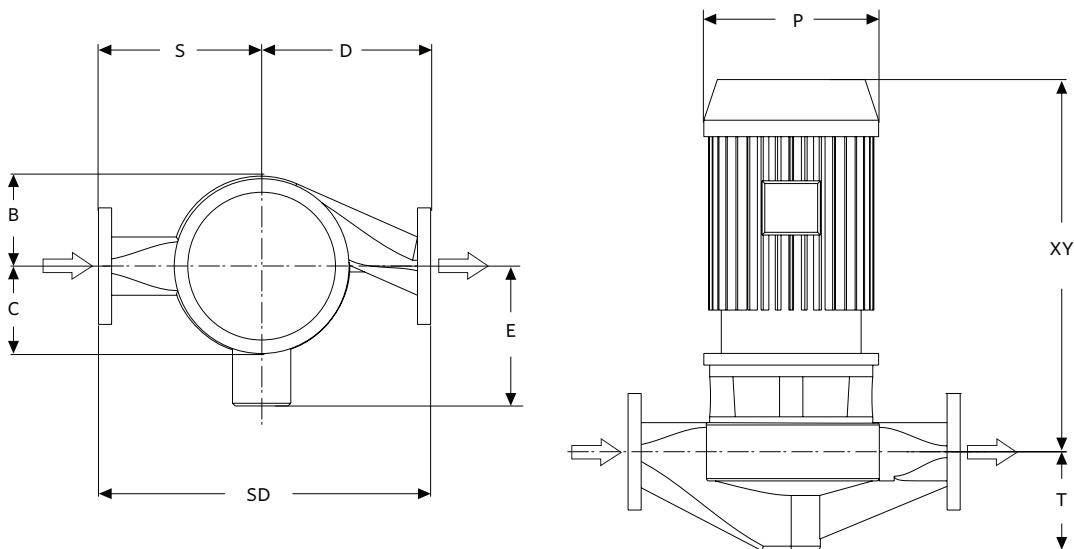
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

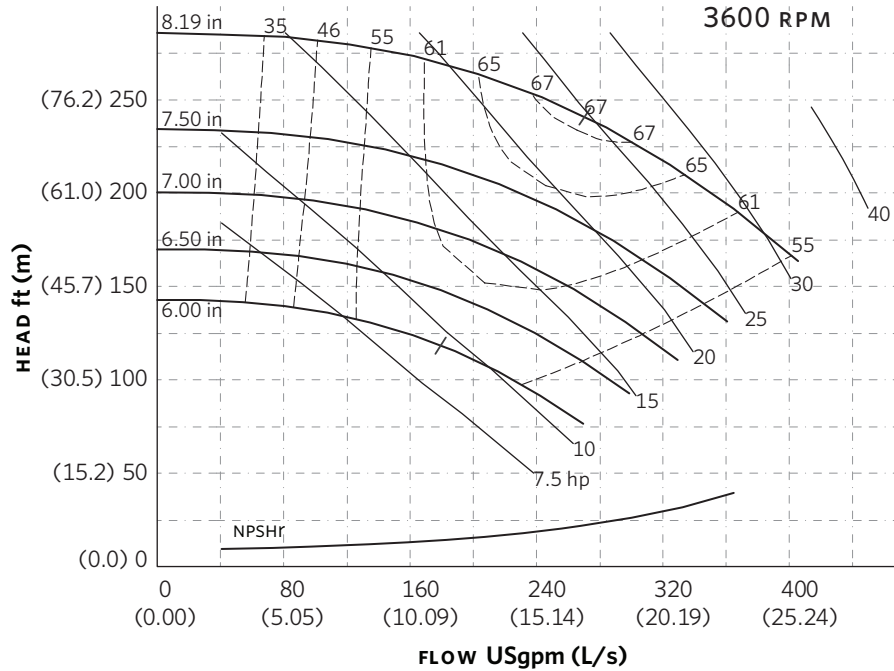
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
56C	—	—	0.5	6.00 (152)	7.50 (191)	16.01 (407)	—	—
143	—	1	0.75	6.13 (156)	8.63 (219)	17.26 (438)	177 (80.3)	180 (81.6)
145	—	1.5	1	6.13 (156)	8.63 (219)	17.26 (438)	184 (83.5)	188 (85.3)
145	—	2	1.5	6.13 (156)	8.63 (219)	17.26 (438)	184 (83.5)	190 (86.2)
182	—	3	—	7.50 (191)	10.38 (264)	19.26 (489)	187 (84.8)	231 (104.8)
184	7.5	5	—	7.50 (191)	10.38 (264)	19.26 (489)	200 (90.7)	281 (127.5)
213	10	—	—	8.25 (210)	12.13 (308)	25.49 (647)	276 (125.2)	318 (144.2)
215	15	—	—	8.25 (210)	12.13 (308)	25.49 (647)	281 (127.5)	406 (184.2)
254	20	—	—	9.94 (252)	12.13 (308)	24.86 (631)	361 (163.7)	466 (211.4)
256	25	—	—	9.94 (252)	12.13 (308)	24.86 (631)	425 (192.8)	551 (249.9)
284	30	—	—	10.81 (275)	11.50 (292)	27.73 (704)	528 (239.5)	587 (266.3)
286	40	—	—	10.81 (275)	11.50 (292)	27.73 (704)	612 (277.6)	745 (337.9)
324	50	—	—	10.81 (275)	11.50 (292)	28.98 (736)	694 (314.8)	782 (354.7)
326	60	—	—	10.81 (275)	11.50 (292)	28.98 (736)	780 (353.8)	1107 (502.1)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
2.00	2.00	5.72	5.72	8.50	9.50	18.00	5.09
(51)	(51)	(145)	(145)	(216)	(241)	(457)	(129)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT40-2-0-3600

Series
4300
4380

Size
2 × 2 × 8

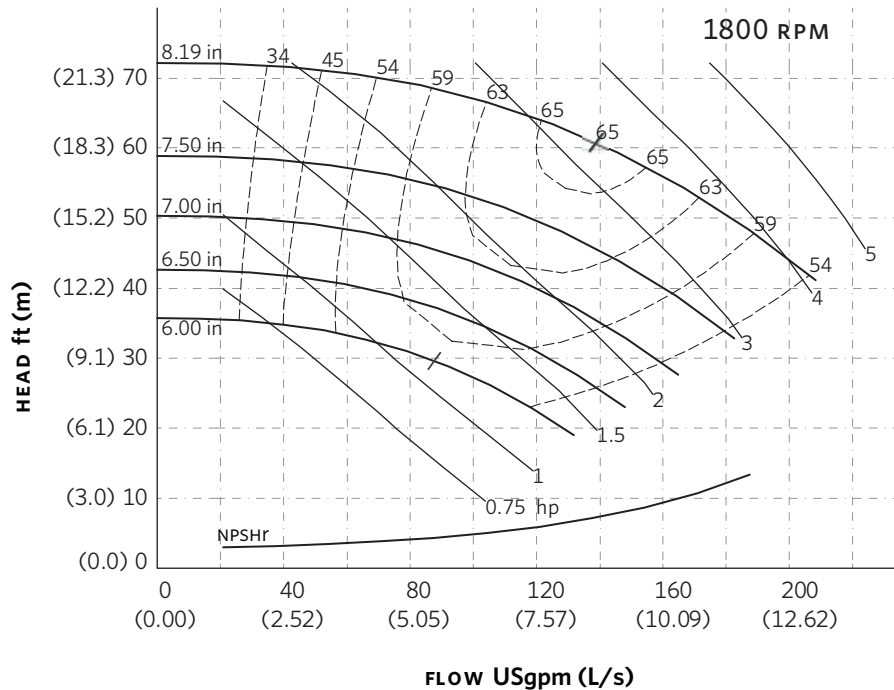
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000



Curve number
PT39-2-0-1800

Series
4300
4380

Size
2 × 2 × 8

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 2 × 2 × 10 | SUBMITTAL

File No: 43-724
Date: NOV. 26, 2014
Supersedes: 43-724
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 2" (50 mm) Discharge: 2" (50 mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

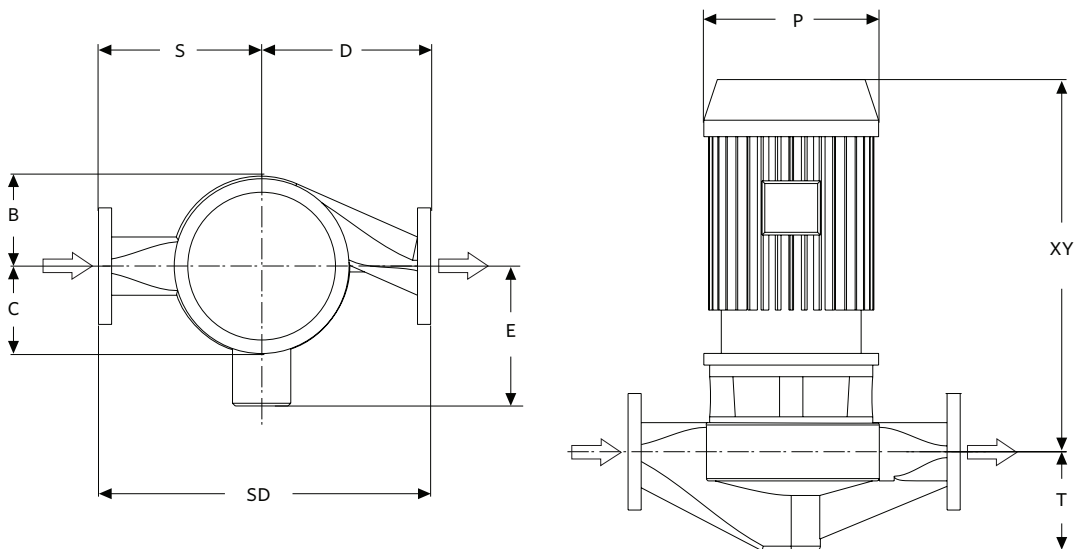
2

MOTOR FRAME	HORSEPOWER - @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
143	—	—	0.75	6.13 (156)	8.63 (219)	17.29 (439)	—	—
145	—	2	1	6.13 (156)	8.63 (219)	17.29 (439)	217 (98.4)	223 (101.2)
182	—	3	1.5	7.50 (191)	10.38 (264)	20.13 (511)	220 (99.8)	264 (119.7)
184	—	5	2	7.50 (191)	10.38 (264)	20.13 (511)	235 (106.6)	271 (122.9)
213	15	7.5	—	8.25 (210)	12.13 (308)	25.49 (647)	315 (142.9)	440 (199.6)

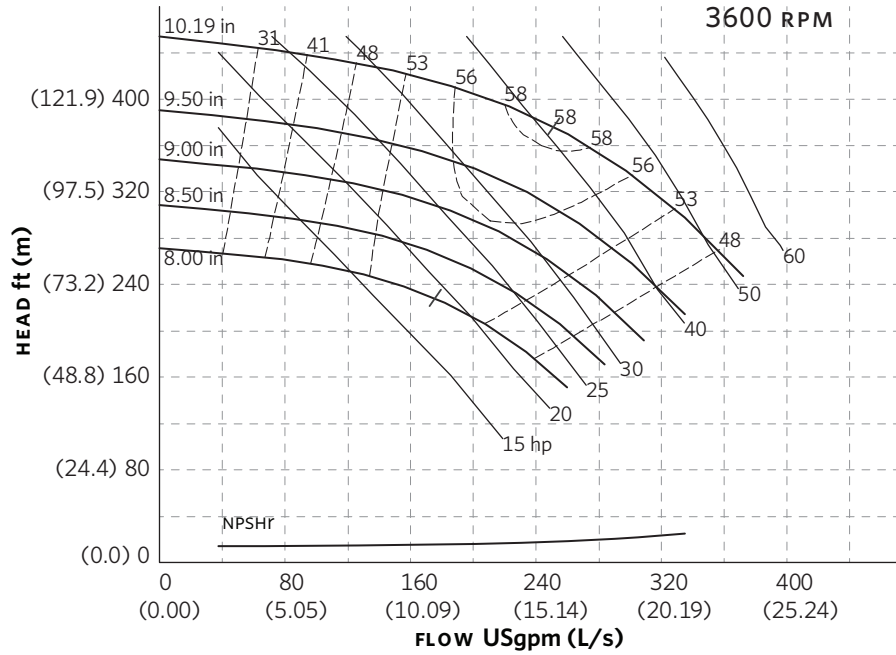
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
2.00	2.00	6.75	6.75	9.00	10.00	19.00	5.34
(51)	(51)	(172)	(172)	(229)	(254)	(483)	(136)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT36-1-0-3600

Series
4300
4380

Size
2 x 2 x 10

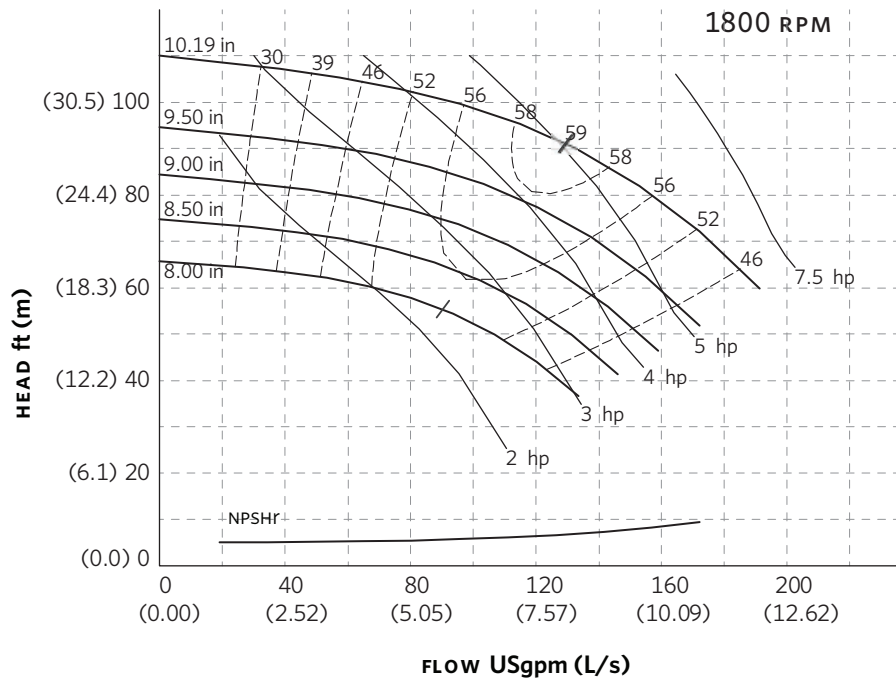
RPM
3600

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. 1.0000



Curve number
PT35-1-0-1800

Series
4300
4380

Size
2 x 2 x 10

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 3 × 3 × 5L | SUBMITTAL

File No: 43-700
Date: OCTOBER 17, 2016
Supersedes: 43-700
Date: NOVEMBER 26, 2014

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 3" (75mm) Discharge: 3" (75mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

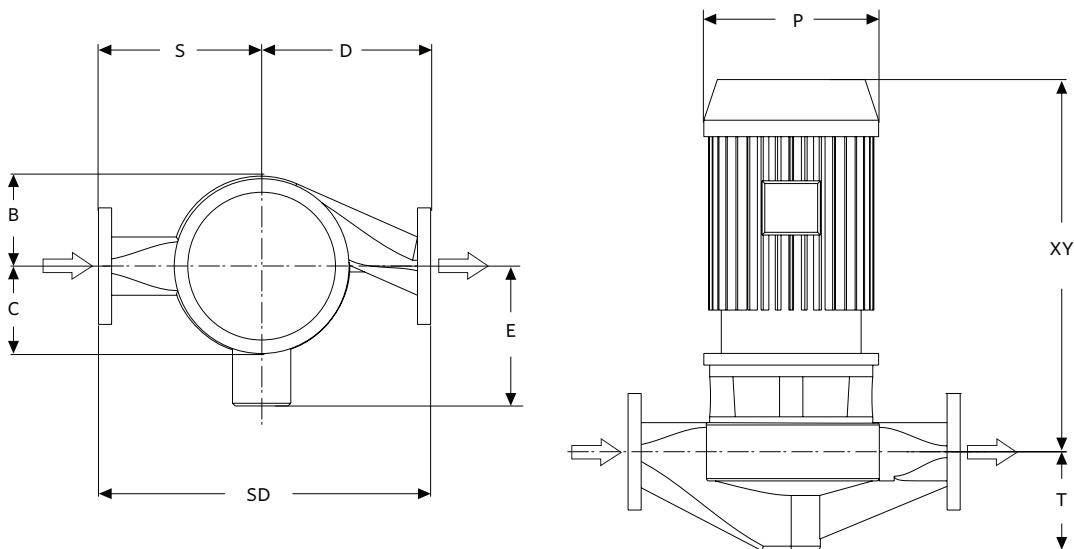
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

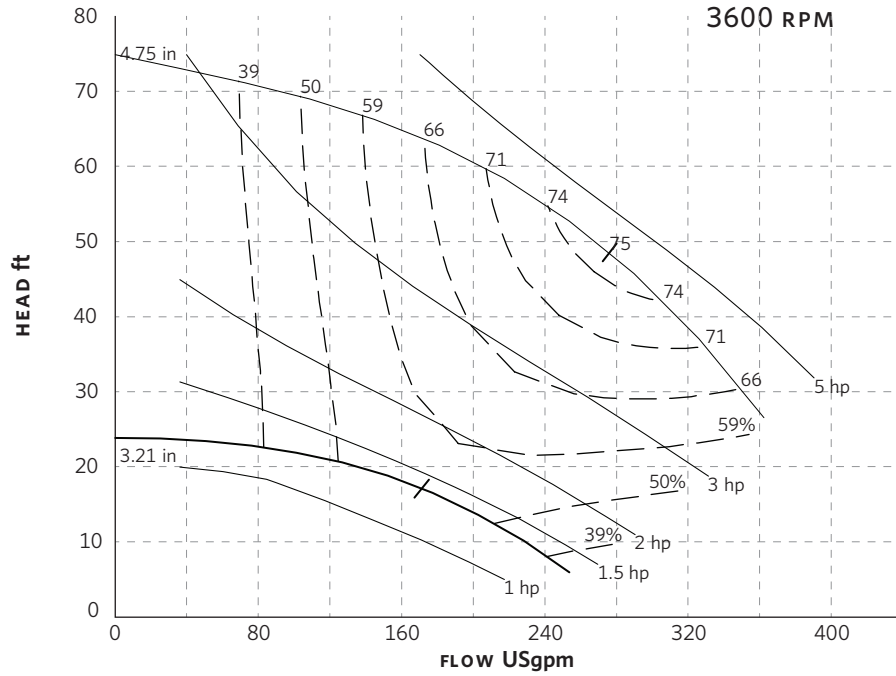
MOTOR FRAME	HORSEPOWER - @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
56	—	0.167- 0.75	0.083- 0.25	6.00 (152)	7.50 (191)	16.11 (409)	112 (50.8)	—
143	1.5	—	—	6.13 (156)	8.63 (219)	17.50 (445)	122 (55.3)	123 (55.8)
145	2	—	—	6.13 (156)	8.63 (219)	17.50 (445)	124 (56.2)	134 (60.8)
145	3	—	—	6.13 (156)	8.63 (219)	17.50 (445)	129 (58.5)	172 (78.0)
182	5	—	—	7.50 (191)	10.38 (264)	19.50 (495)	131 (59.4)	181 (82.1)
184	7.5	—	—	7.50 (191)	10.38 (264)	19.50 (495)	143 (64.9)	224 (101.6)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
9.50 (241)	8.00 (203)	5.14 (131)	3.88 (99)	7.87 (199)	9.38 (238)	17.25 (438)	5.00 (127)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT581-0-0-3600

Series
4380

Size
3 × 3 × 5L

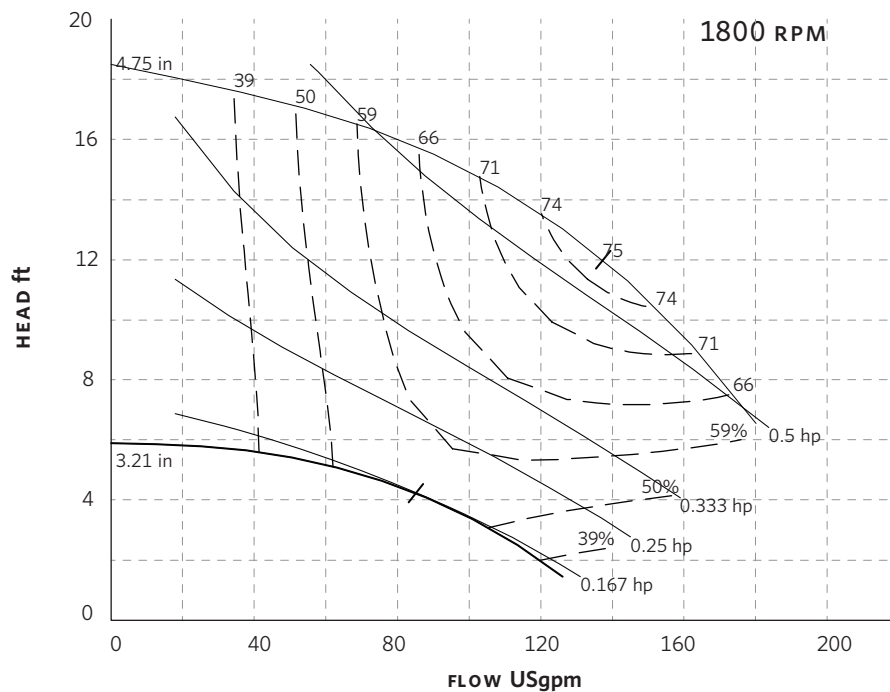
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4380 all ratings

Performance
guaranteed only
at operating point
indicated..

Curve shown for
clear, cold water
- SP. GR. 1.0000



Curve number
PT581-0-0-1800

Series
4380

Size
3 × 3 × 5L

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

Performance curves are for reference only.
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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 3 × 3 × 6 | SUBMITTAL

File No: 43-706
Date: DECEMBER 05, 2014
Supersedes: 43-706
Date: NOV. 26, 2014

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 3" (75mm) Discharge: 3" (75mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

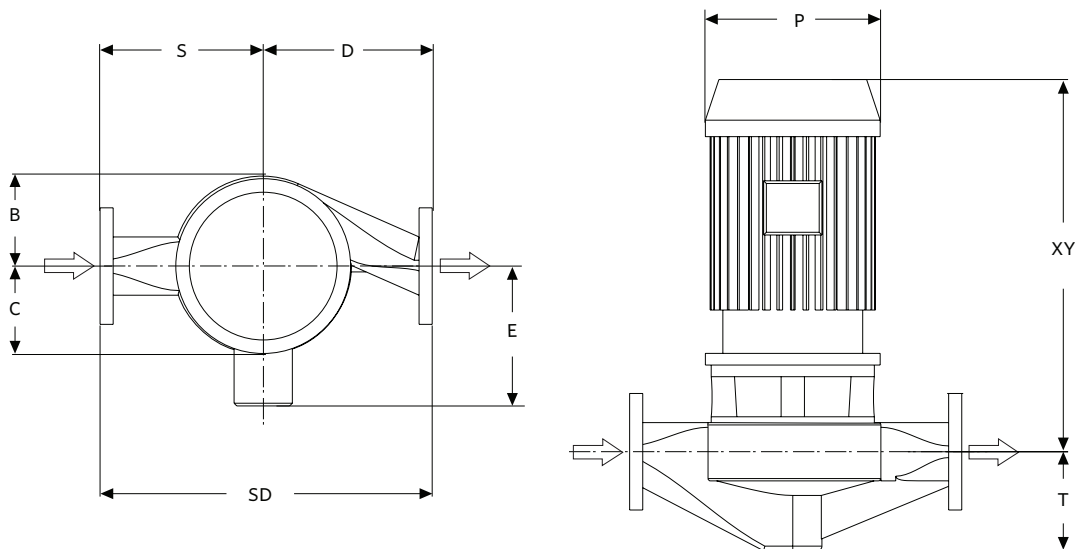
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR FRAME	HORSEPOWER - @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
56	—	0.75	0.167-0.5	6.00 (152)	7.50 (191)	16.00 (406)	148 (67.1)	—
143	—	1	0.75	6.13 (156)	8.63 (219)	17.25 (438)	166 (75.3)	169 (76.7)
145	—	1.5	—	6.13 (156)	8.63 (219)	17.25 (438)	173 (78.5)	177 (80.3)
145	3	2	—	6.13 (156)	8.63 (219)	17.25 (438)	175 (79.4)	218 (98.9)
182	5	3	—	7.50 (191)	10.38 (264)	19.25 (489)	177 (80.3)	227 (103.0)
184	7.5	—	—	7.50 (191)	10.38 (264)	19.25 (489)	189 (85.7)	270 (122.5)
213	10	—	—	8.25 (210)	12.13 (308)	21.63 (549)	255 (115.7)	297 (134.7)
215	15	—	—	8.25 (210)	12.13 (308)	21.63 (549)	260 (117.9)	385 (174.6)
254	15	—	—	9.94 (252)	14.19 (360)	27.97 (710)	—	426 (193.2)

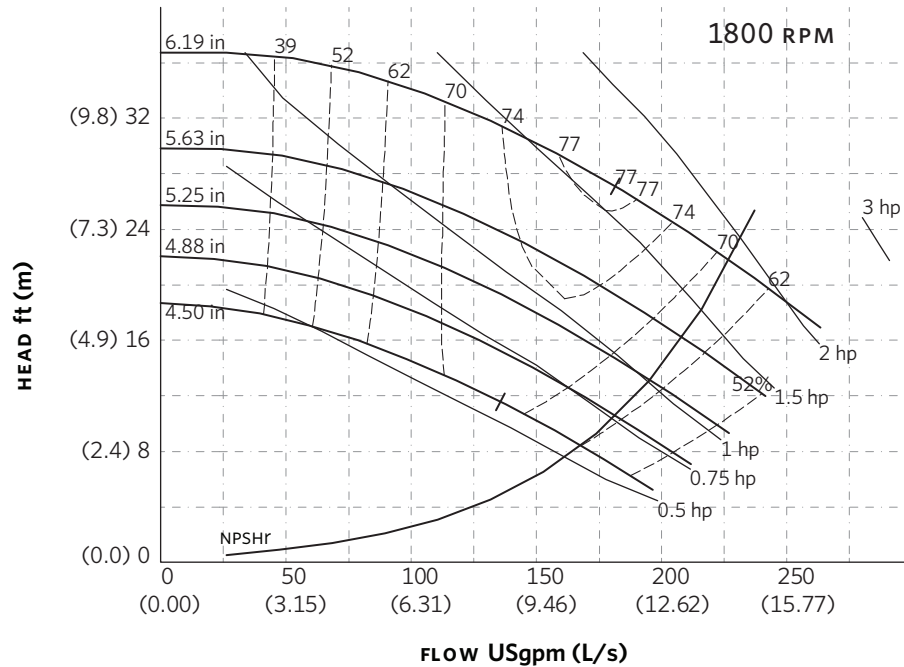
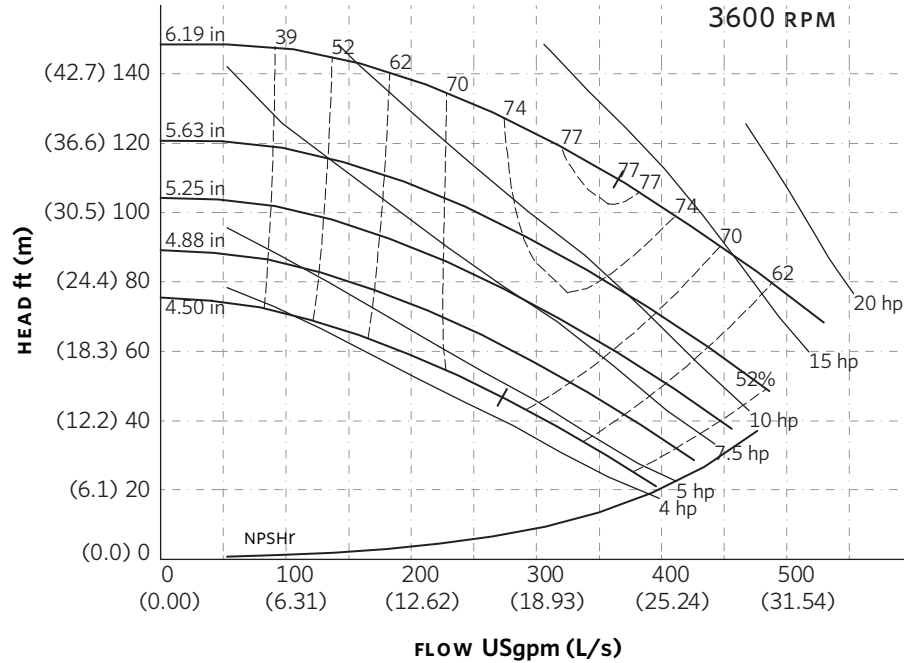
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
3.00	3.00	5.80	4.65	8.25	9.75	18.00	6.00
(76)	(76)	(147)	(118)	(210)	(248)	(457)	(152)



SERIES 4380 PERFORMANCE CURVES



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

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 3 × 3 × 8 | SUBMITTAL

File No: 43-714
Date: NOV. 26, 2014
Supersedes: 43-714
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 3" (75mm) Discharge: 3" (75mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

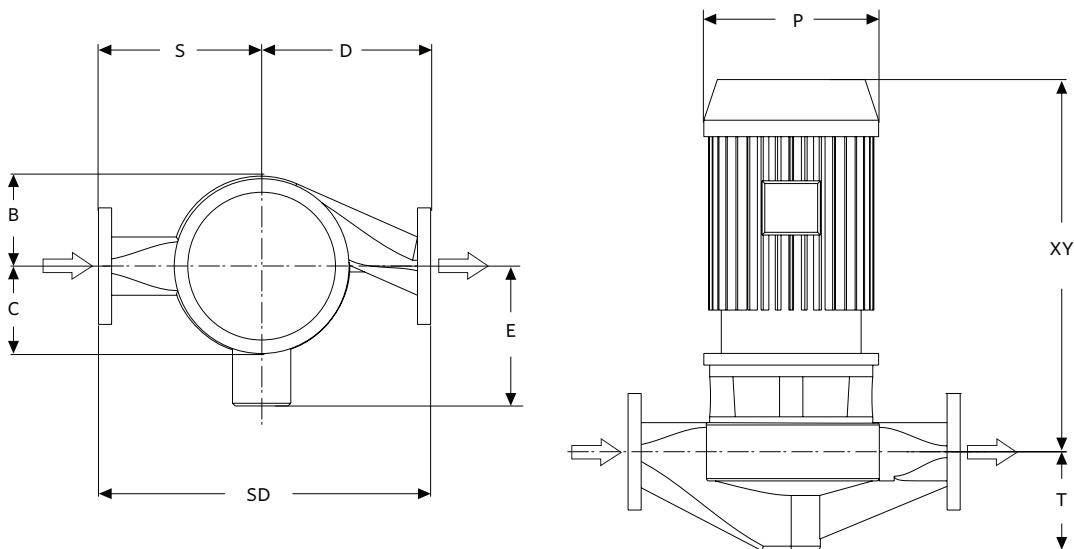
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

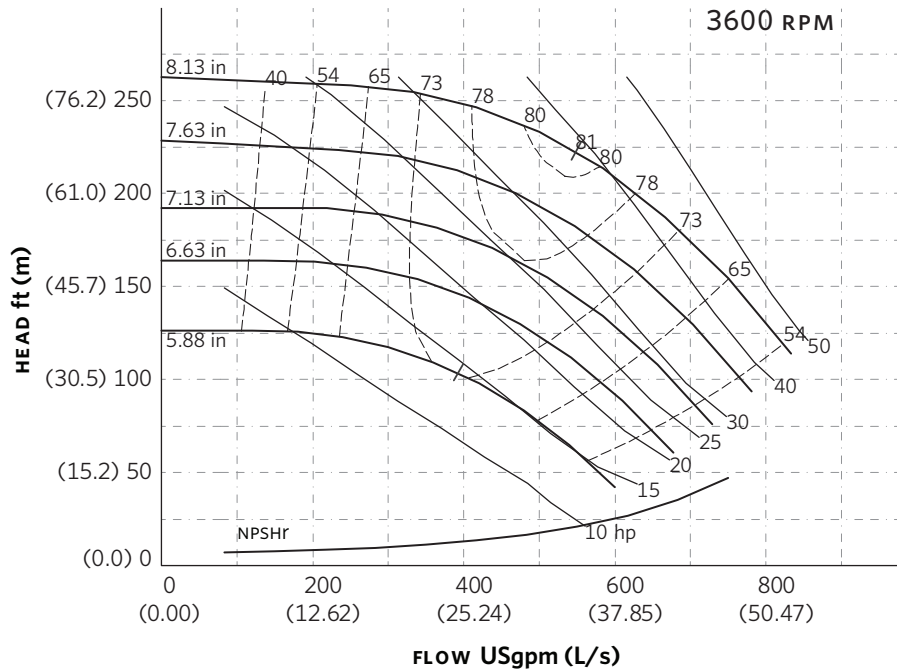
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
56C	—	—	0.5	6.00 (152)	7.50 (191)	16.01 (407)	—	—
143	—	—	0.75	6.13 (156)	8.63 (219)	17.26 (438)	—	—
145	—	2	1	6.13 (156)	8.63 (219)	17.26 (438)	210 (95.3)	216 (98.0)
182	—	3	1.5	7.50 (191)	10.38 (264)	19.26 (489)	213 (96.6)	257 (116.6)
184	—	5	2	7.50 (191)	10.38 (264)	19.26 (489)	228 (103.4)	307 (139.3)
213	10	7.5	—	8.25 (210)	12.12 (308)	25.49 (647)	302 (137.0)	353 (160.1)
215	15	—	—	8.25 (210)	12.12 (308)	25.49 (647)	307 (139.3)	432 (196.0)
254	20	—	—	9.94 (252)	12.12 (308)	24.86 (631)	381 (172.8)	486 (220.4)
256	25	—	—	9.94 (252)	12.12 (308)	24.86 (631)	486 (220.4)	571 (259.0)
284	30	—	—	10.81 (275)	11.50 (292)	27.73 (704)	550 (249.5)	609 (276.2)
286	40	—	—	10.81 (275)	11.50 (292)	27.73 (704)	634 (287.6)	767 (347.9)
324	50	—	—	10.81 (275)	11.50 (292)	28.98 (736)	716 (324.8)	804 (364.7)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
3.00	3.00	6.81	5.80	10.00	12.00	22.00	6.31
(76)	(76)	(173)	(147)	(254)	(305)	(559)	(160)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT73-1-0-3600

Series
4300
4380

Size
3 × 3 × 8

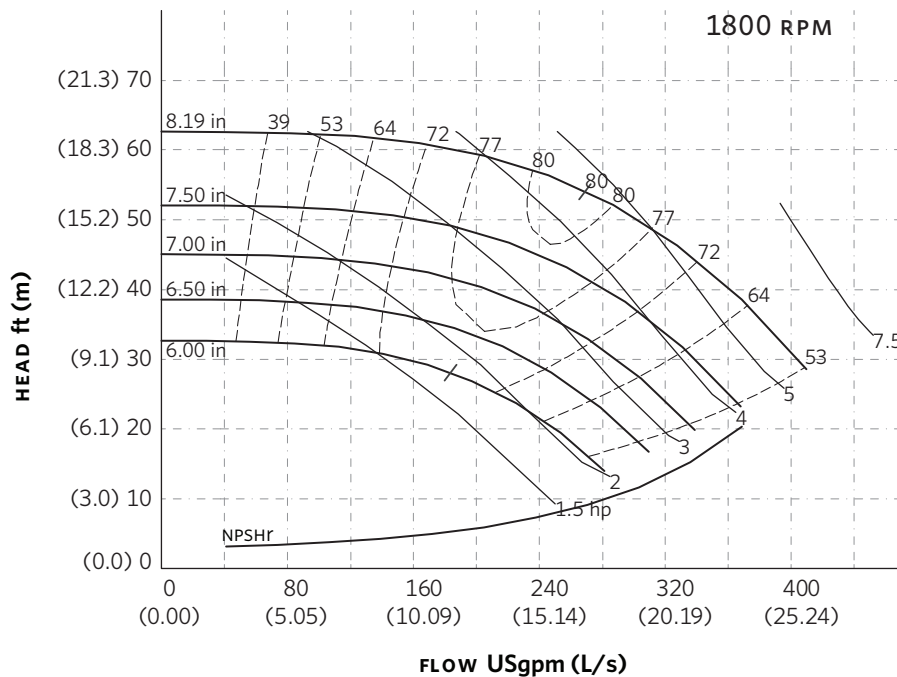
RPM
3600

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. 1.0000



Curve number
PT72-1-0-1800

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. 1.0000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 3 × 3 × 10 | SUBMITTAL

File No: 43-726
Date: NOV. 26, 2014
Supersedes: 43-726
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 3" (75mm) Discharge: 3" (75mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

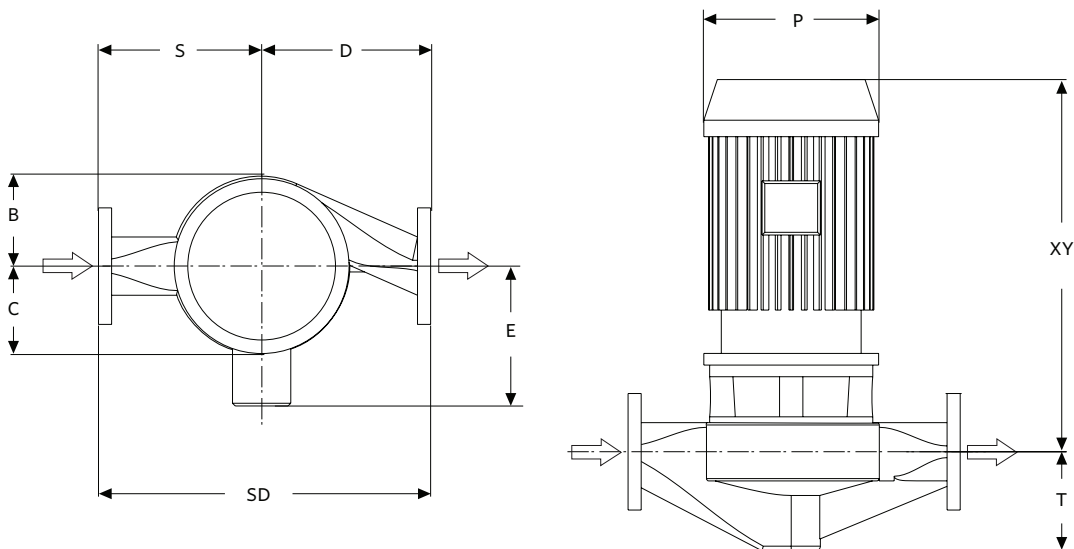
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

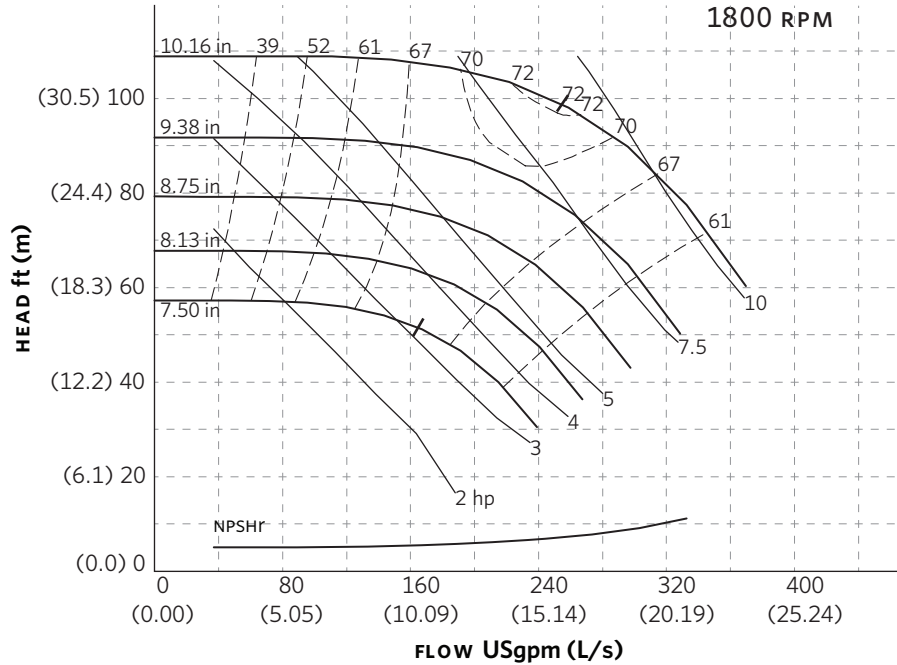
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
143	—	—	0.75	6.13 (156)	8.65 (220)	17.29 (439)	—	—
145	—	2	1	6.13 (156)	8.65 (220)	17.29 (439)	254 (115.2)	260 (117.9)
182	—	3	1.5	7.50 (191)	10.38 (264)	19.29 (490)	257 (116.6)	301 (136.5)
184	—	5	2	7.50 (191)	10.38 (264)	19.29 (490)	272 (123.4)	308 (139.7)
213	—	7.5	3	8.25 (210)	12.13 (308)	25.63 (651)	304 (137.9)	380 (172.4)
215	15	10	—	8.25 (210)	12.13 (308)	25.63 (651)	352 (159.7)	477 (216.4)
254	20	15	—	9.94 (252)	12.13 (308)	25.00 (635)	426 (193.2)	531 (240.9)
256	25	20	—	9.94 (252)	12.13 (308)	25.00 (635)	490 (222.3)	616 (279.4)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
3.00	3.00	7.16	6.37	9.50	11.50	21.00	5.44
(80)	(80)	(182)	(162)	(241)	(292)	(533)	(138)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT66-3-0-1800

Series
4300
4380

Size
3 × 3 × 10

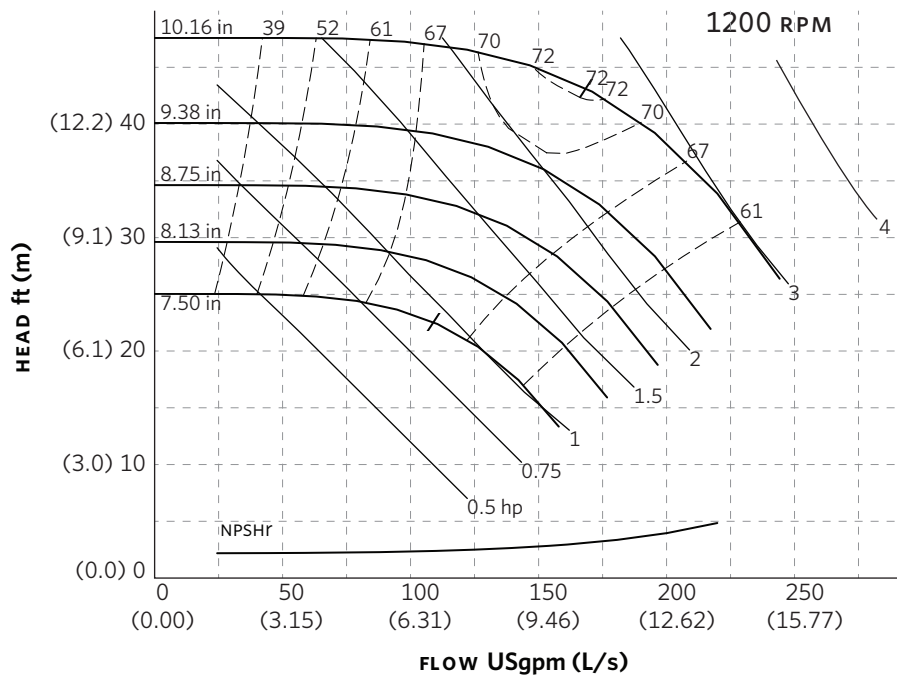
RPM
1800

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. 1.0000



Curve number
PT66-3-0-1200

Series
4300
4380

Size
3 × 3 × 10

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 FR 143 MIN.
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 3 × 3 × 13 | SUBMITTAL

File No: 43-742
Date: NOV. 26, 2014
Supersedes: 43-742
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
Order no.: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ USgpm (L/s) Head: _____ ft (m)
Liquid: _____ Viscosity: _____
Temperature: _____ °F (°C) Specific gravity: _____
Suction: 3" (75mm) Discharge: 3" (75mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
Volts: _____ Hertz: 60 Hz Phase: 3
Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

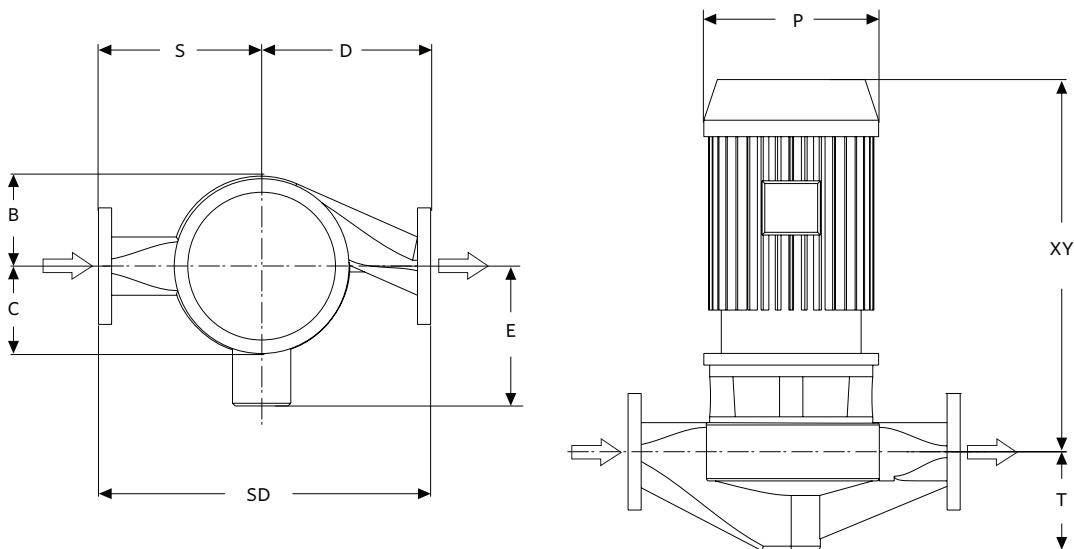
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

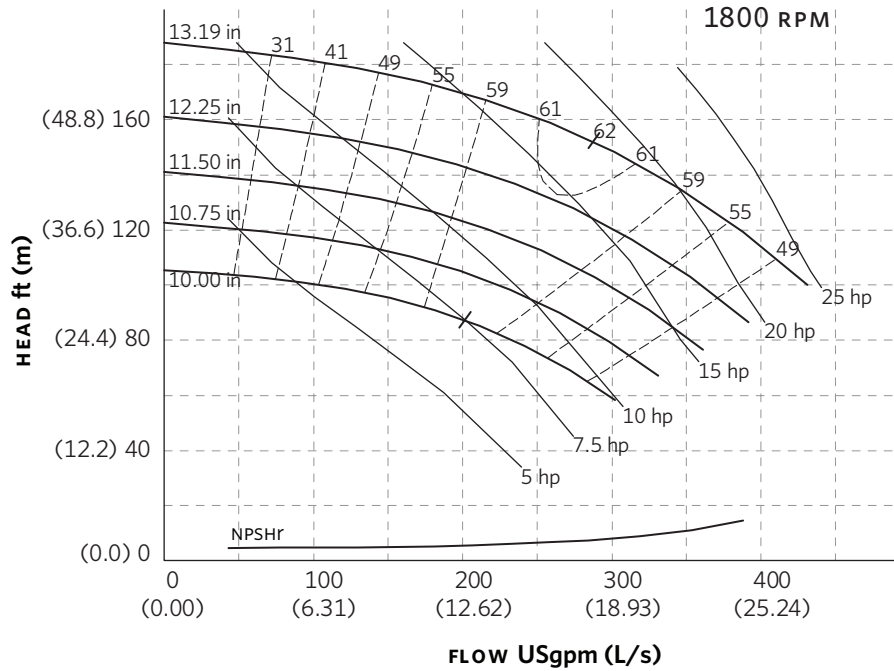
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
213	—	3	8.25 (210)	12.13 (308)	26.86 (682)	352 (159.7)	416 (188.7)
215	—	5	8.25 (210)	12.13 (308)	26.86 (682)	381 (172.8)	447 (202.8)
254	—	7.5	9.94 (252)	12.13 (308)	24.86 (631)	363 (164.7)	562 (254.9)
256	20	—	9.94 (252)	12.13 (308)	24.86 (631)	595 (269.9)	591 (268.1)
284	25	—	10.81 (275)	11.50 (292)	30.60 (777)	654 (296.6)	700 (317.5)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
3.00	3.00	8.82	8.02	12.00	13.50	25.50	6.63
(76)	(76)	(224)	(204)	(305)	(343)	(648)	(168)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT69-1-0-1800

Series
4300
4380

Size
3 × 3 × 13

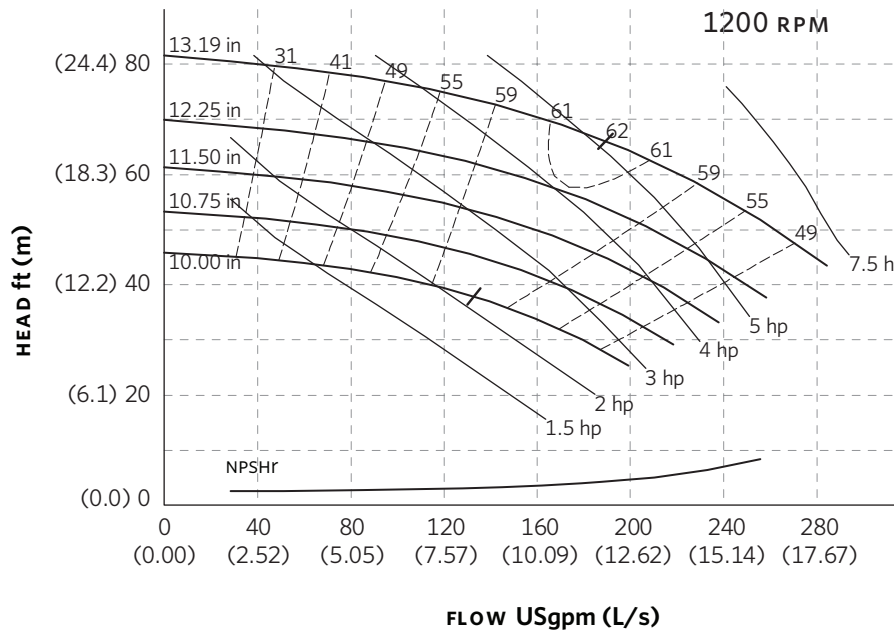
RPM
1800

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. 1.0000



Curve number
PT69-1-0-1200

Series
4300
4380

Size
3 × 3 × 13

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 FR 213 MIN.

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 4 × 4 × 6 | SUBMITTAL

File No: 43-708
Date: NOV. 26, 2014
Supersedes: 43-708
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 4" (100mm) Discharge: 4" (100mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

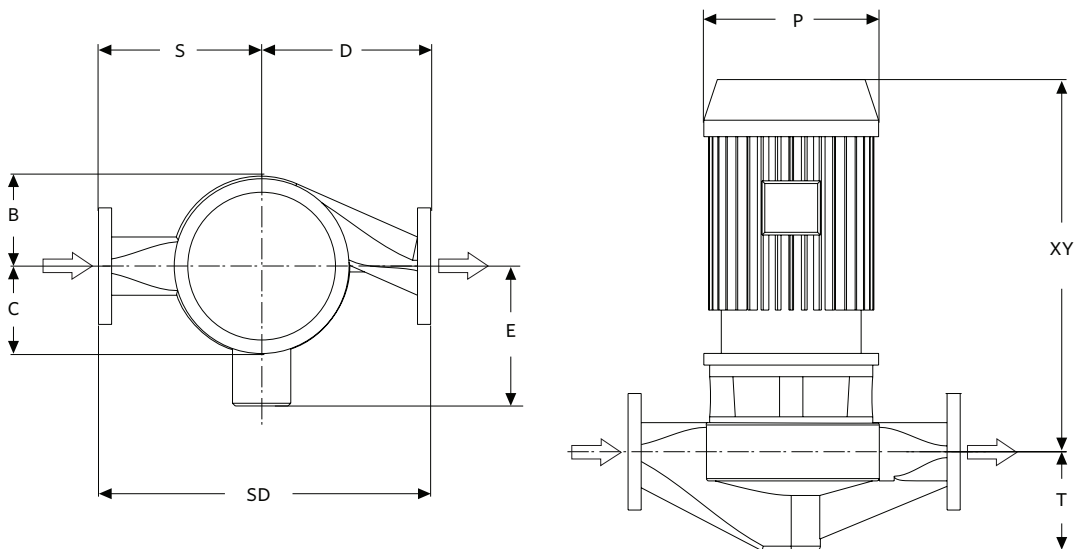
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR	HORSEPOWER - @ RPM			DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC						lbs (kgs)	
FRAME	3600	1800	1200	E	P	XY	ODP	TEFC
56C	—	—	0.33-0.5	6.00 (152)	7.50 (190)	16.26 (413)	—	—
143	—	1	0.75	6.13 (156)	8.63 (219)	17.50 (445)	203 (92.1)	206 (93.4)
145	—	1.5	1	6.13 (156)	8.63 (219)	17.50 (445)	210 (95.3)	214 (97.1)
145	—	2	—	6.13 (156)	8.63 (219)	17.50 (445)	210 (95.3)	216 (98.0)
182	—	3	—	7.50 (191)	10.38 (264)	19.50 (495)	213 (96.1)	257 (116.6)
184	7.5	—	—	7.50 (191)	10.38 (264)	19.50 (495)	226 (102.5)	307 (139.3)
213	10	—	—	8.25 (210)	12.13 (308)	21.88 (556)	292 (132.4)	334 (151.5)
215	15	—	—	8.25 (210)	12.13 (308)	21.88 (556)	297 (134.7)	422 (191.4)
254	20	—	—	9.94 (252)	12.13 (308)	25.10 (638)	374 (169.6)	486 (220.4)
256	25	—	—	9.94 (252)	12.13 (308)	25.10 (638)	438 (198.7)	590 (267.6)

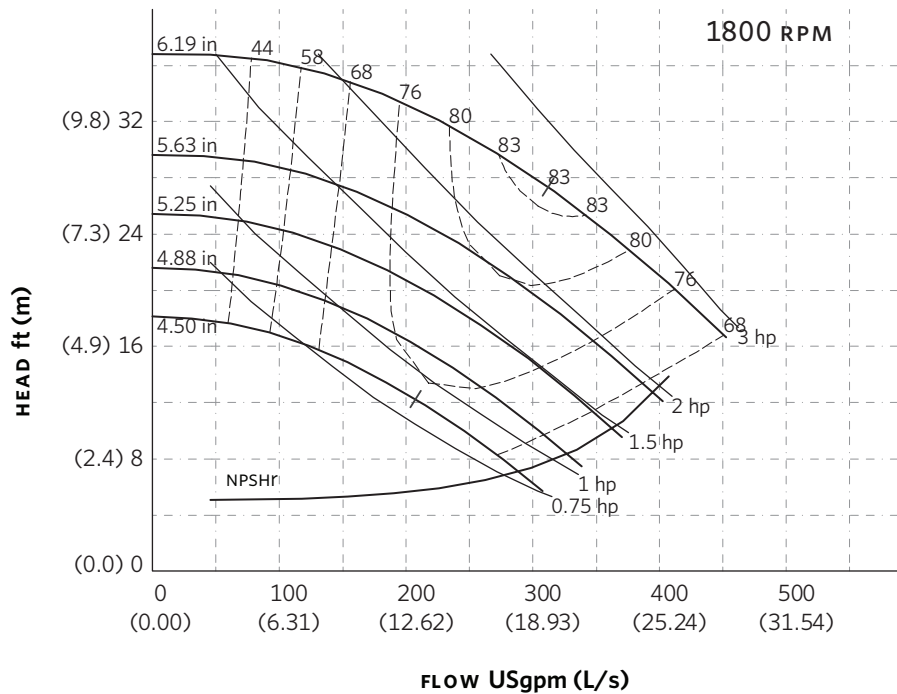
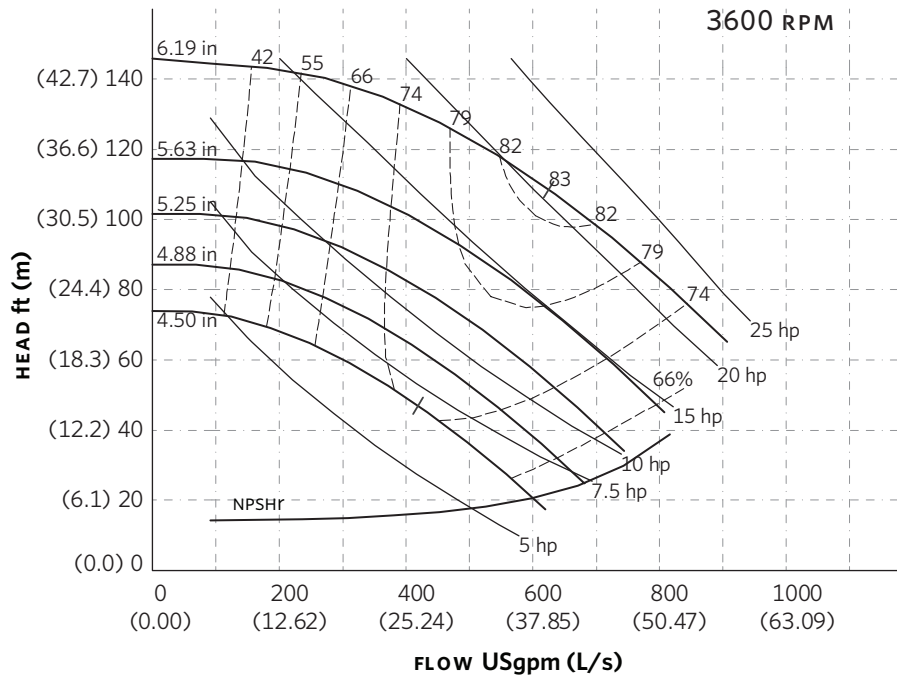
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
4.00	4.00	6.84	5.50	10.00	12.00	22.00	7.75
(102)	(102)	(174)	(139)	(254)	(305)	(559)	(152)



SERIES 4380 PERFORMANCE CURVES



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 4380 | VERTICAL IN-LINE PUMPS

CLOSED-COUPLED | 4 × 4 × 8 | SUBMITTAL

File No: 43-716
 Date: NOV. 26, 2014
 Supersedes: 43-716
 Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 4" (100mm) Discharge: 4" (100mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

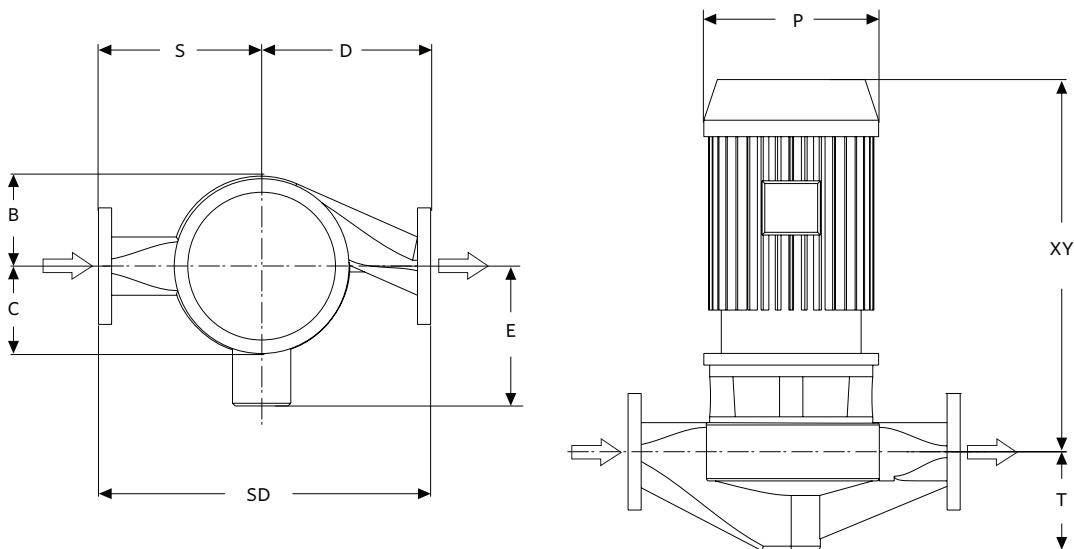
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

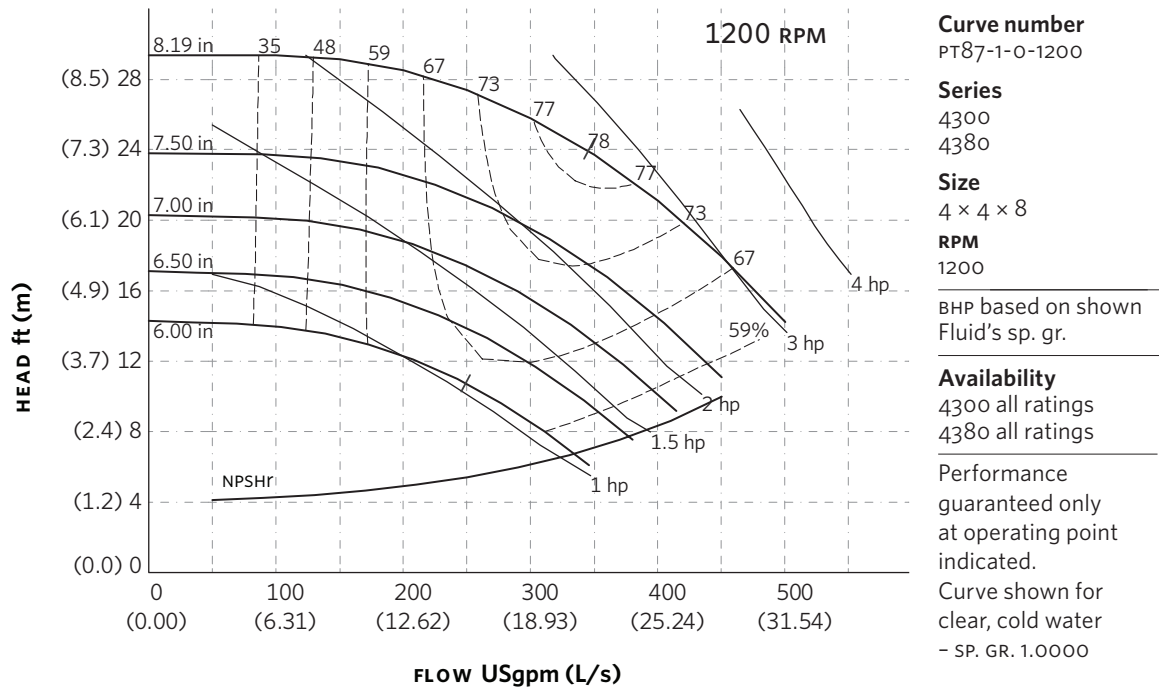
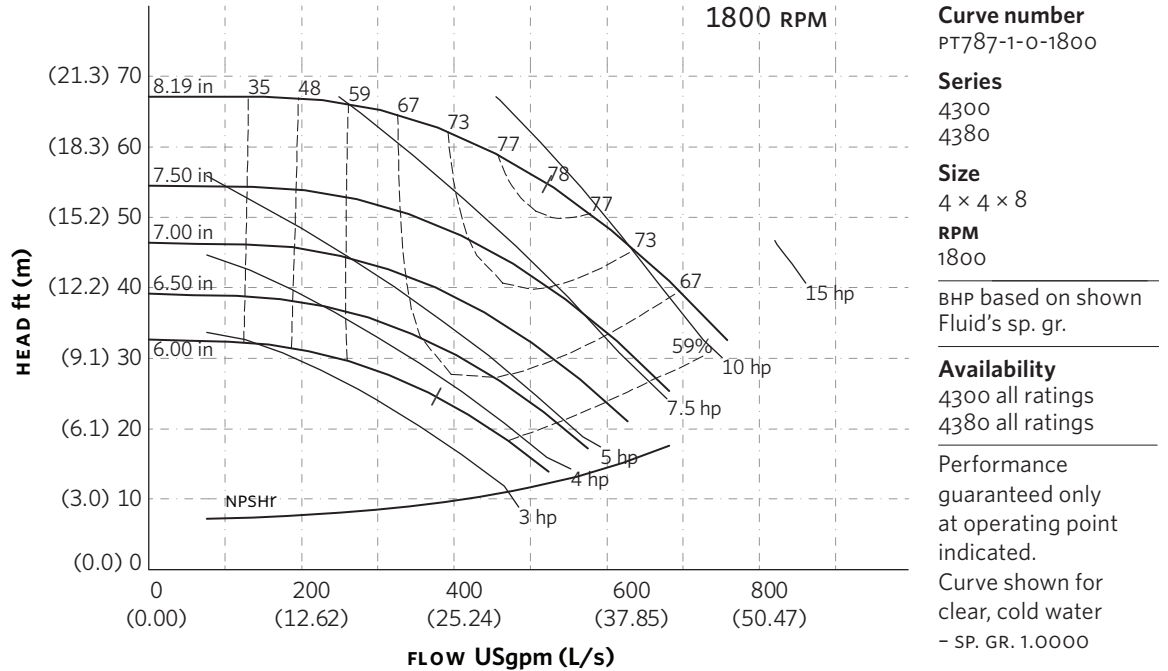
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC			DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	3600	1800	1200	E	P	XY	ODP	TEFC
145	—	—	1	6.13 (156)	8.63 (219)	17.42 (442)	231 (104.8)	245 (111.1)
182	—	3	1.5	7.50 (191)	10.38 (264)	19.42 (493)	240 (108.9)	284 (128.8)
184	—	5	2	7.50 (191)	10.38 (264)	19.42 (493)	255 (115.7)	334 (151.5)
213	—	7.5	3	8.25 (210)	12.13 (308)	25.64 (651)	287 (130.2)	363 (164.7)
215	—	10	—	8.25 (210)	12.13 (308)	25.64 (651)	309 (140.2)	381 (172.8)
254	—	15	—	9.94 (252)	12.13 (308)	25.01 (635)	484 (219.5)	481 (218.2)
284	30	—	—	10.81 (275)	11.50 (292)	27.89 (708)	479 (217.3)	635 (288.0)
286	40	—	—	10.81 (275)	11.50 (292)	27.89 (708)	576 (261.3)	793 (359.7)
324	50	—	—	10.81 (275)	11.50 (292)	29.14 (740)	660 (299.4)	830 (376.5)
326	60	—	—	10.81 (275)	11.50 (292)	29.14 (740)	742 (336.6)	1155 (523.9)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
4.00 (102)	4.00 (102)	8.89 (226)	6.80 (173)	11.00 (279)	14.00 (356)	25.00 (635)	8.00 (203)



SERIES 4380 PERFORMANCE CURVES



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

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ESTABLISHED 1934

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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 4 × 4 × 10 | SUBMITTAL

File No: 43-728
Date: NOV. 26, 2014
Supersedes: 43-728
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 4" (100mm) Discharge: 4" (100mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

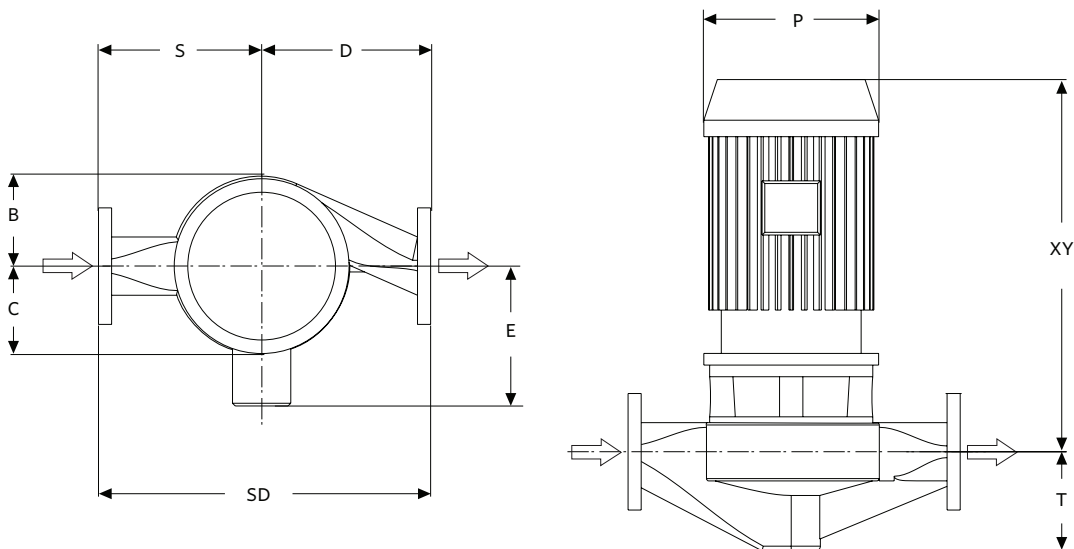
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

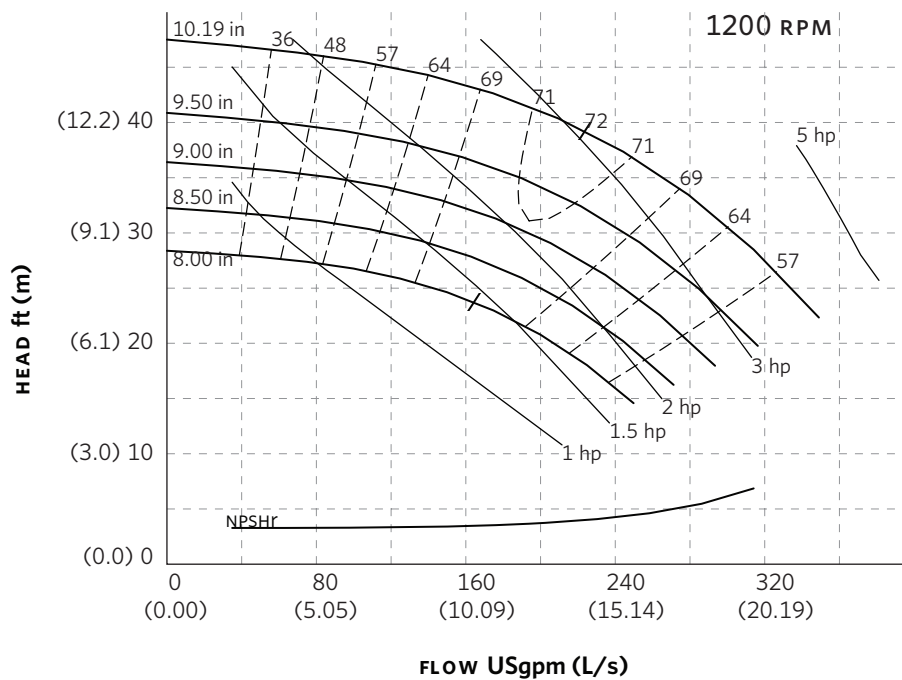
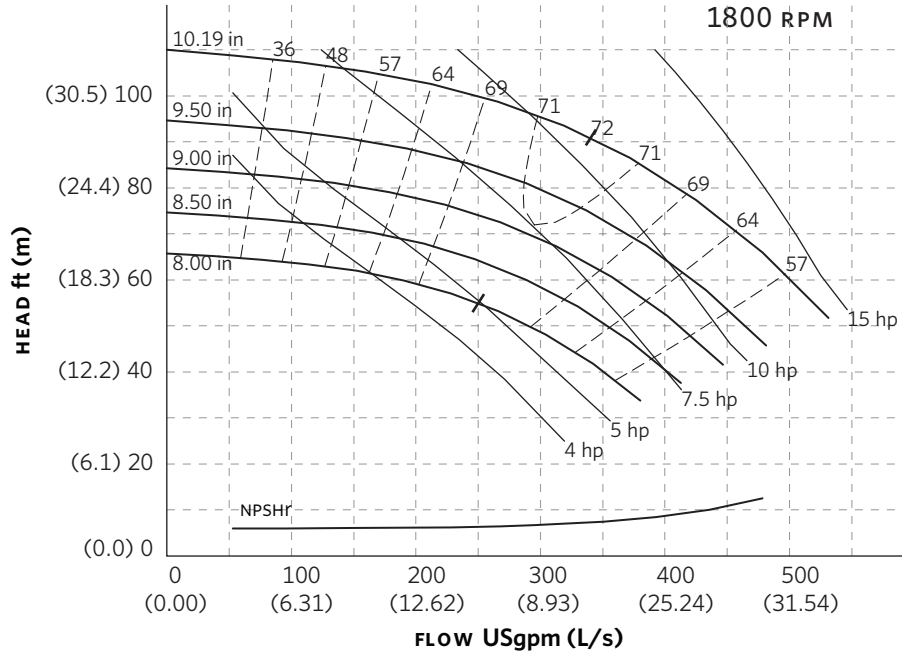
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
182	3	1.5	7.50 (191)	10.38 (264)	19.29 (490)	317 (143.8)	361 (163.7)
184	5	2	7.50 (191)	10.38 (264)	19.29 (490)	332 (150.6)	368 (166.9)
213	7.5	3	8.25 (21)	12.13 (308)	25.48 (647)	350 (158.8)	426 (193.2)
215	10	5	8.25 (21)	12.13 (308)	25.48 (647)	372 (168.7)	444 (201.4)
254	15	—	9.94 (252)	12.13 (308)	24.86 (631)	547 (248.1)	544 (246.8)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
4.00 (102)	4.00 (102)	8.47 (215)	6.84 (174)	12.00 (305)	14.00 (356)	26.00 (660)	7.53 (191)



SERIES 4380 PERFORMANCE CURVES



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 4380 | VERTICAL IN-LINE PUMPS

CLOSED-COUPLED | 4 × 4 × 11.5 | SUBMITTAL

File No: 43-734
 Date: NOV. 26, 2014
 Supersedes: 43-734
 Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 4" (100mm) Discharge: 4" (100mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

- ANSI 125**
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)
- ANSI 250**
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)
- Tolerance of ±0.125" (±3 mm) should be used
 - See performance curves on page 3
 - For exact installation, data please write factory for certified dimensions
 - Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

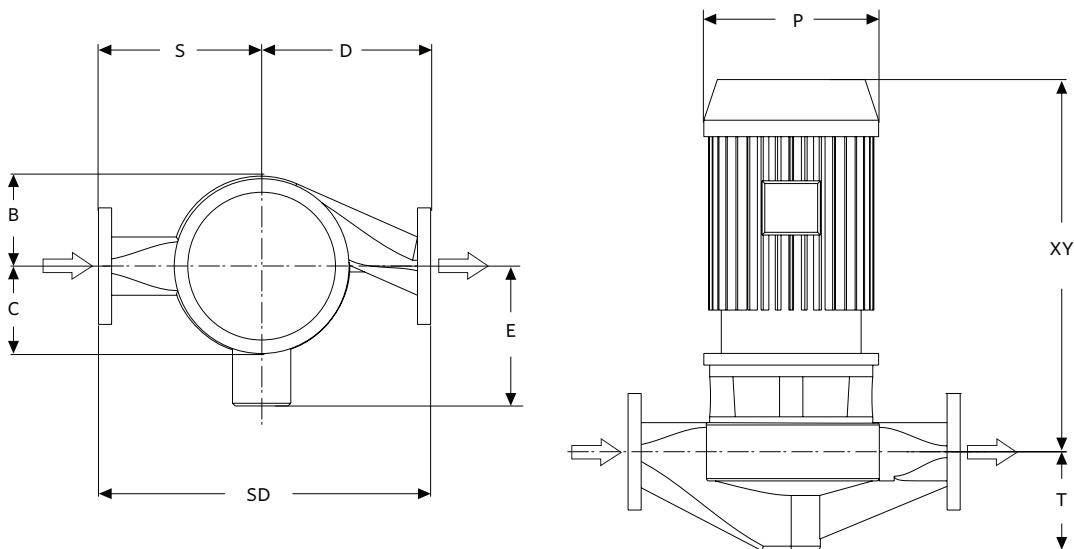
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

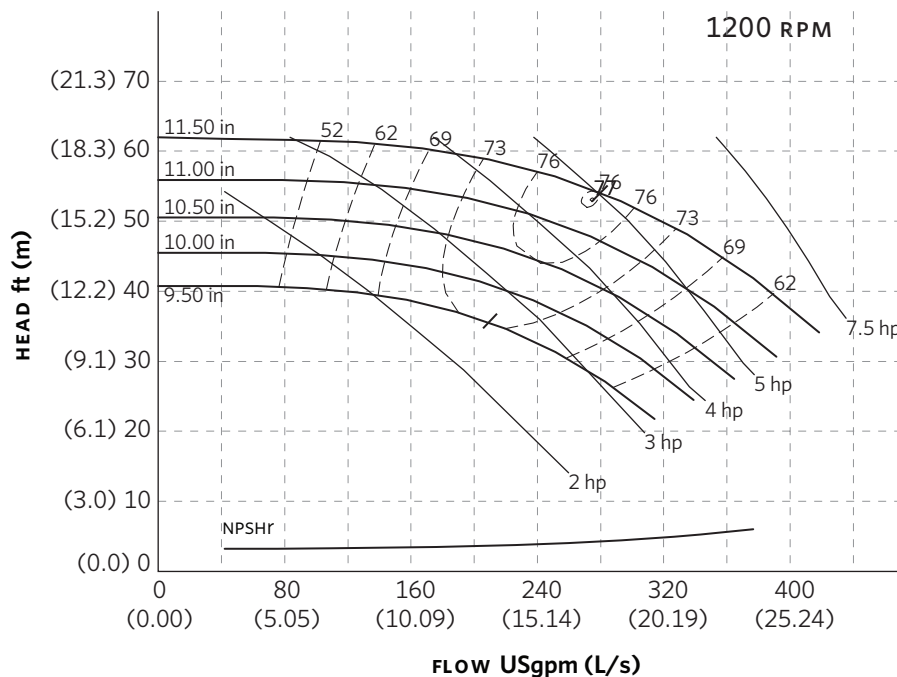
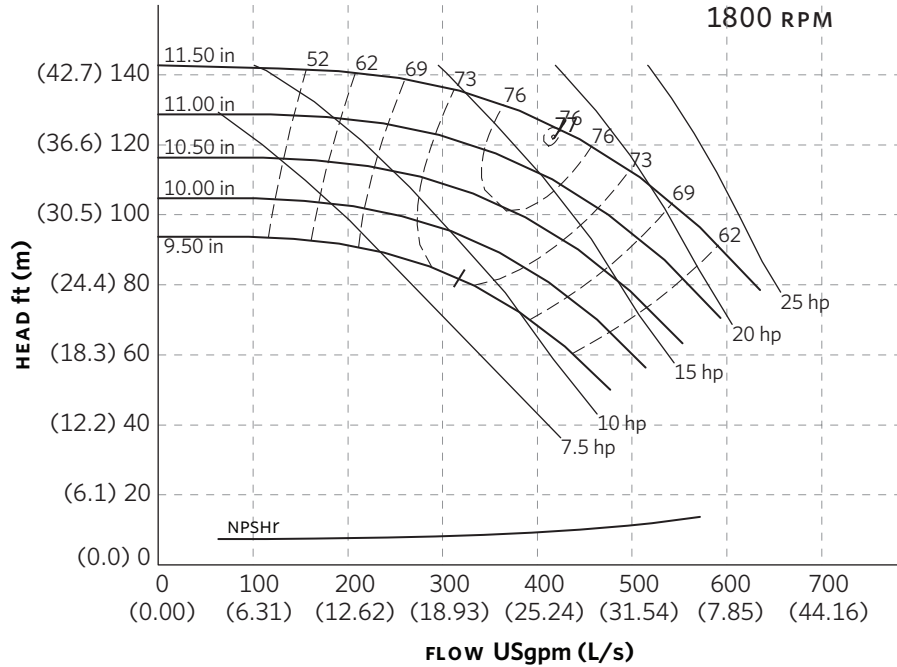
MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
184	—	2	7.50 (191)	10.38 (264)	19.44 (494)	365 (165.6)	395 (179.2)
213	7.5	3	8.25 (210)	12.13 (308)	25.63 (651)	385 (174.6)	461 (209.1)
215	10	5	8.25 (210)	12.13 (308)	25.63 (651)	407 (184.6)	479 (217.3)
254	15	7.5	9.94 (252)	12.13 (308)	25.10 (638)	579 (262.6)	576 (261.3)
256	20	—	9.94 (252)	12.13 (308)	25.10 (638)	620 (281.2)	616 (279.4)
284	25	—	10.81 (275)	11.50 (292)	30.85 (784)	679 (308.0)	725 (328.9)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
4.00	4.00	8.17	7.44	12.75	15.25	28.00	7.69
(102)	(102)	(208)	(189)	(324)	(387)	(711)	(195)



SERIES 4380 PERFORMANCE CURVES



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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 4 × 4 × 13 | SUBMITTAL

File No: 43-744
Date: NOV. 26, 2014
Supersedes: 43-744
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 4" (100mm) Discharge: 4" (100mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

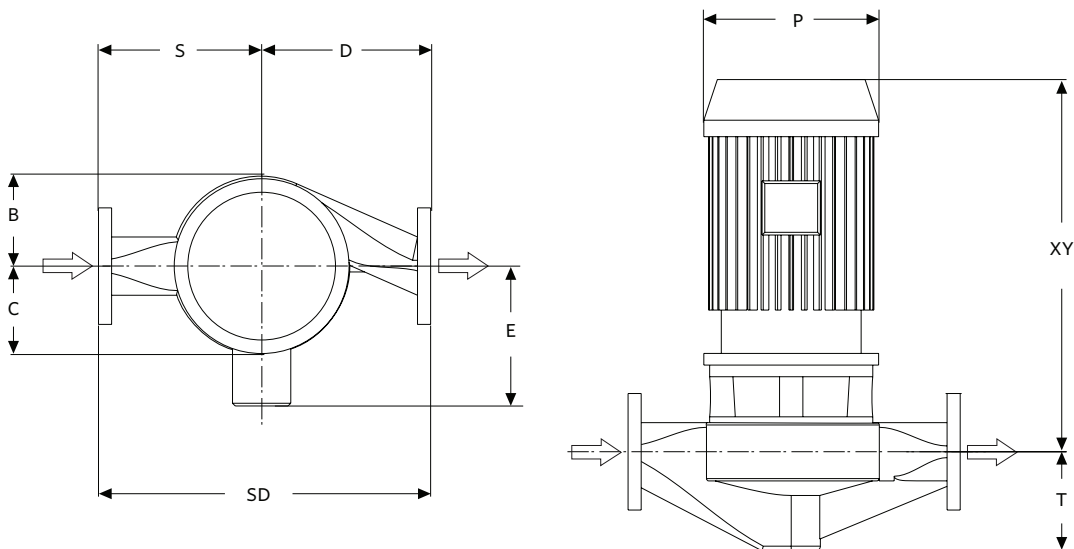
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

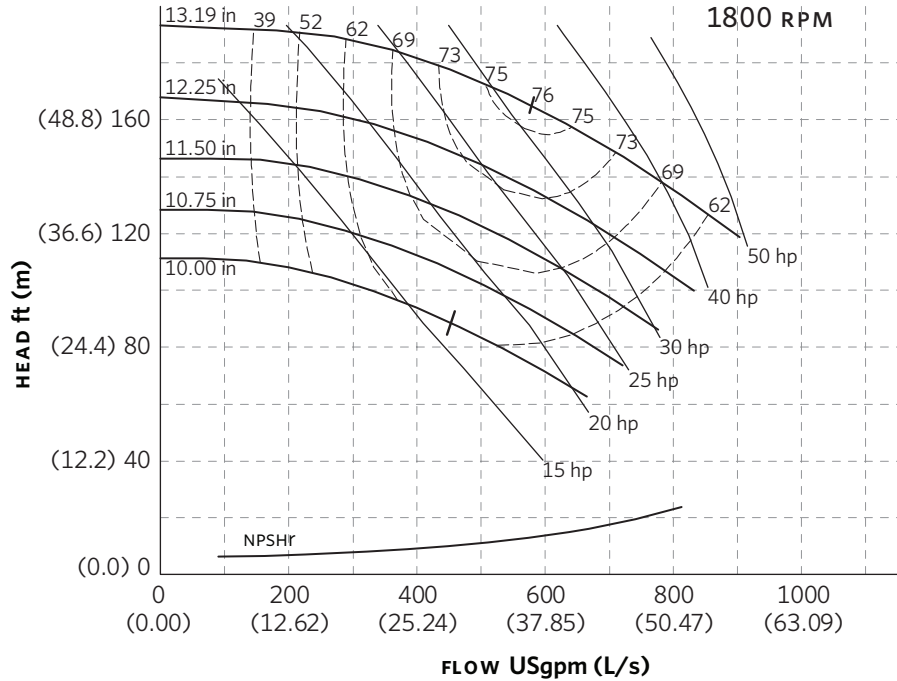
MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
FRAME	1800	1200					
213	—	3	8.25 (210)	12.13 (308)	26.86 (682)	409 (185.5)	473 (214.5)
215	—	5	8.25 (210)	12.13 (308)	26.86 (682)	438 (198.7)	504 (228.6)
254	15	7.5	9.94 (252)	12.13 (308)	24.86 (631)	611 (277.1)	608 (275.8)
256	20	10	9.94 (252)	12.13 (308)	24.86 (631)	652 (295.7)	648 (293.9)
284	25	15	10.81 (275)	11.50 (292)	30.61 (777)	714 (323.9)	760 (344.7)
286	30	—	10.81 (275)	11.50 (292)	30.61 (777)	791 (358.8)	809 (367.0)
324	40	—	10.81 (275)	14.19 (360)	31.85 (809)	882 (400.1)	8673 (93.3)
326	50	—	10.81 (275)	14.19 (360)	31.85 (809)	948 (430.0)	911 (413.2)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
4.00	4.00	9.72	8.37	13.50	15.50	29.00	8.06
(102)	(102)	(235)	(213)	(343)	(394)	(737)	(205)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT84-0-0-1800

Series
4300
4380

Size
4 × 4 × 13

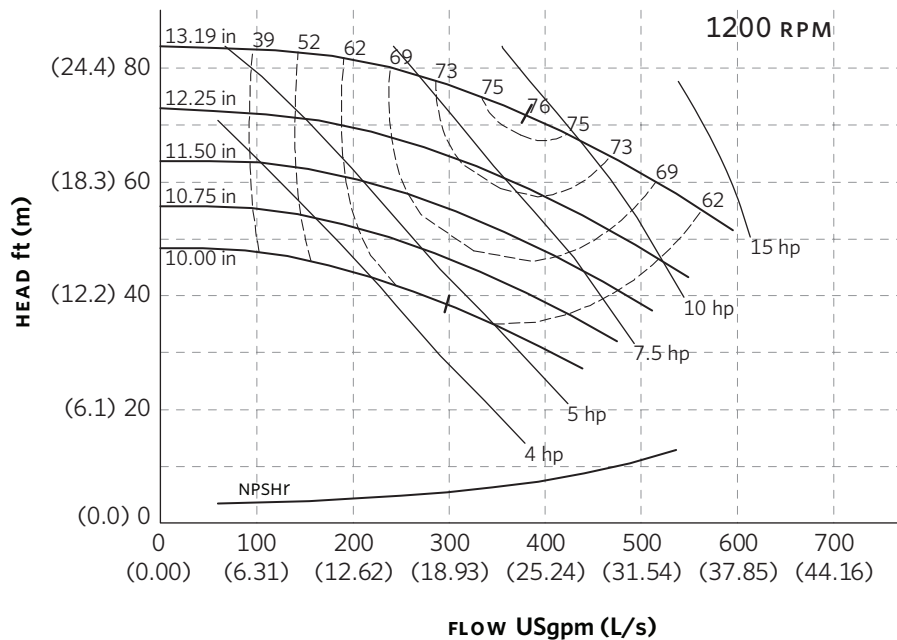
RPM
1800

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. 1.0000



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. 1.0000

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Confirm current performance data with Armstrong ACE Online selection software.

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

File No: 43-718
Date: NOV. 26, 2014
Supersedes: 43-718
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 5" (125mm) Discharge: 5" (125mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

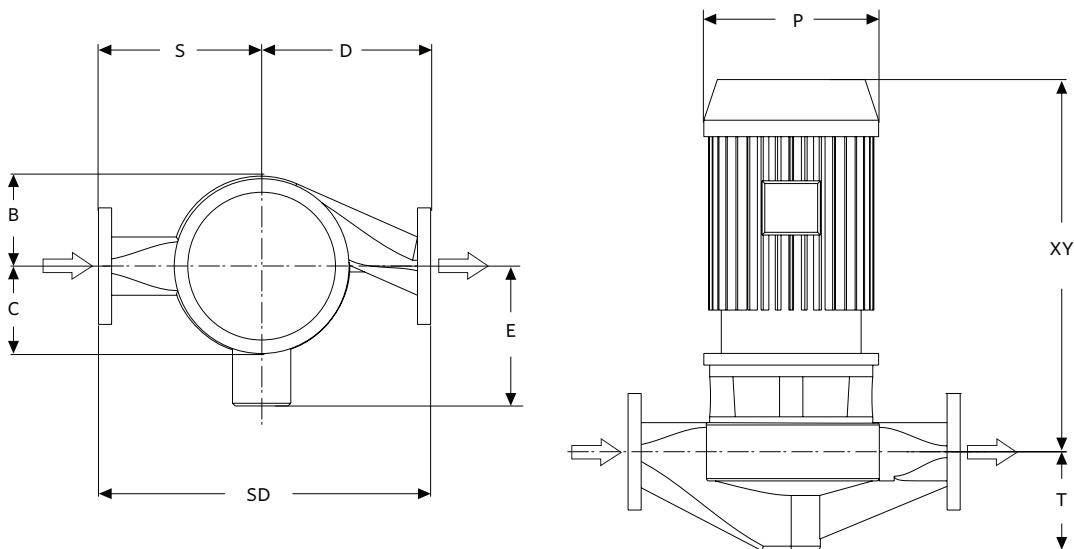
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

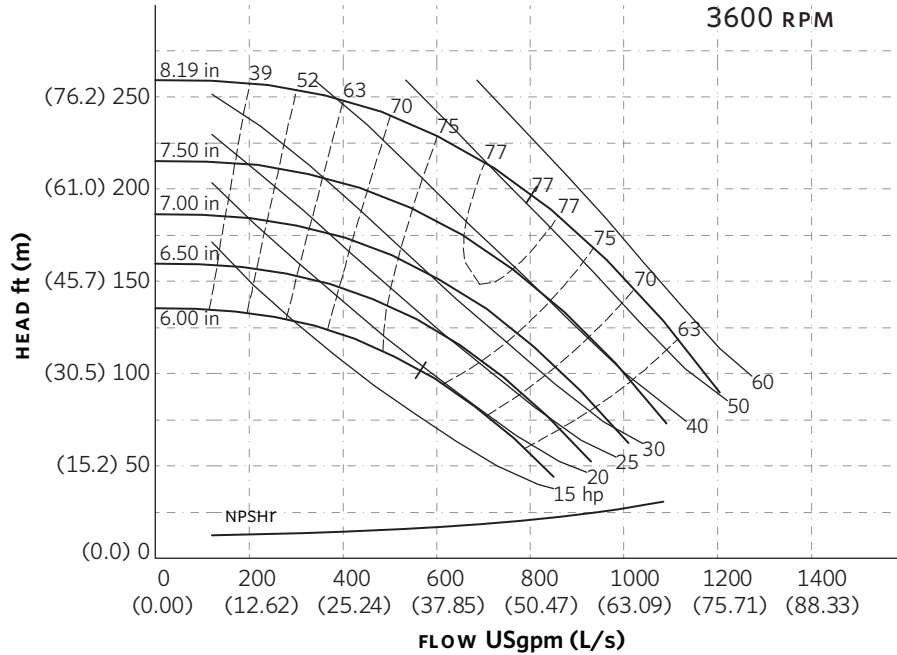
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
143	0.75	1.5	6.13 (156)	8.63 (219)	17.19 (437)	267 (121.1)	240 (108.9)
145	1	2	6.13 (156)	8.63 (219)	17.19 (437)	280 (127.0)	283 (128.4)
182	3	—	7.50 (191)	10.38 (264)	19.83 (504)	290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

PUMP DIMENSIONS
inches (mm)

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



SERIES 4380 PERFORMANCE CURVES



Curve number
PT95-1-0-3600

Series
4300
4380

Size
5 × 5 × 8

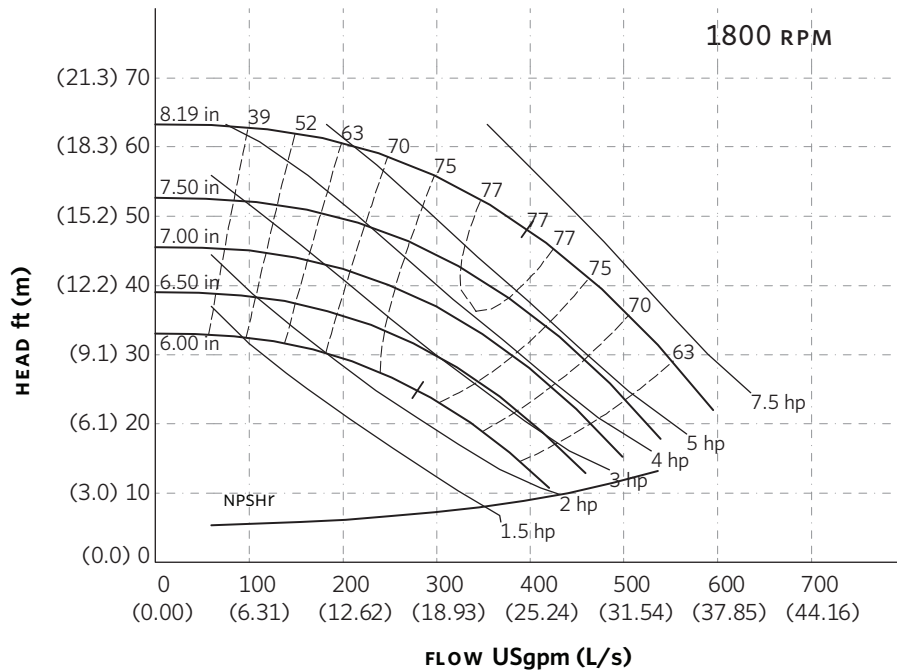
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000



Curve number
PT95-1-0-1800

Series
4300
4380

Size
5 × 5 × 8

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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**MAKING
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SERIES 4380 | VERTICAL IN-LINE PUMPS

CLOSED-COUPLED | 5 × 5 × 11.5 | SUBMITTAL

File No: 43-736
 Date: NOV. 26, 2014
 Supersedes: 43-736
 Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 5" (125mm) Discharge: 5" (125mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

- ANSI 125**
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)
- ANSI 250**
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)
- Tolerance of ±0.125" (±3 mm) should be used
 - See performance curves on page 3
 - For exact installation, data please write factory for certified dimensions
 - Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

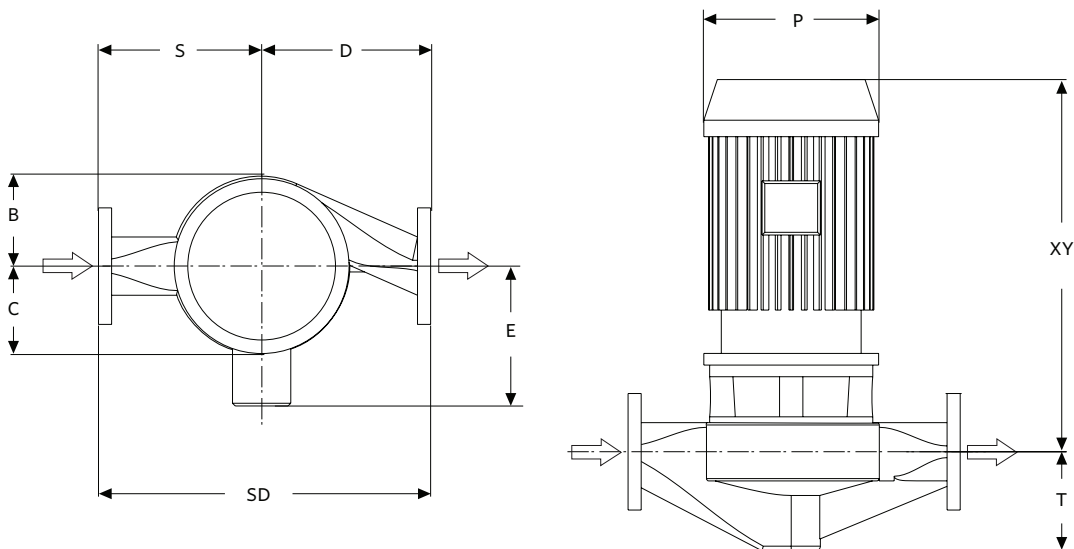
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

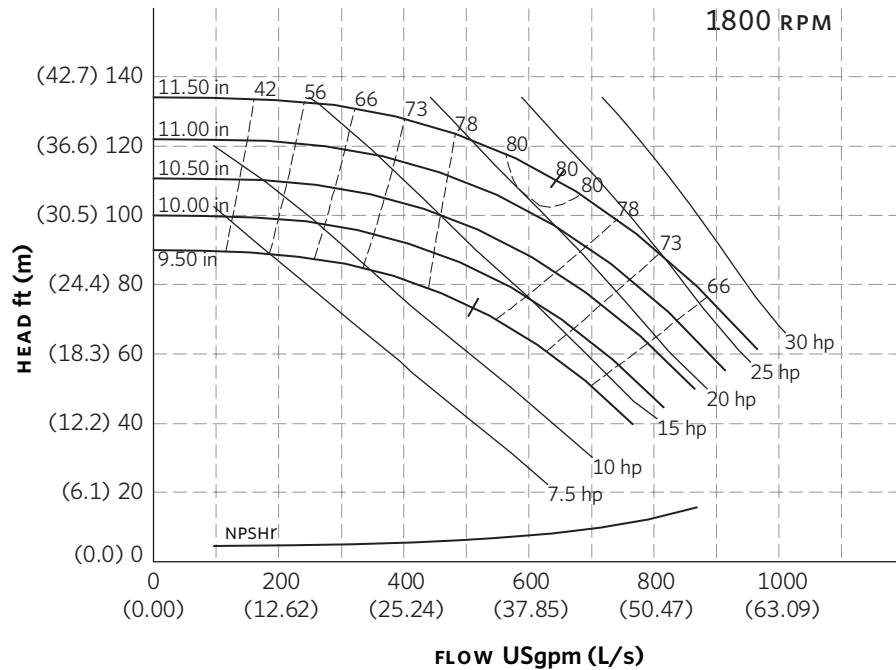
MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
213	7.5	3	8.25 (210)	12.13 (308)	25.88 (657)	431 (195.5)	507(230.0)
215	10	5	8.25 (210)	12.13 (308)	25.88 (657)	453 (205.5)	525 (238.1)
254	15	7.5	9.94 (252)	12.13 (308)	25.10 (638)	622 (282.1)	619 (280.8)
256	20	10	9.94 (252)	12.13 (308)	25.10 (638)	663 (300.7)	659 (298.9)
284	25	—	10.81 (275)	11.50 (292)	30.85 (784)	727 (329.8)	773 (350.6)
286	30	—	10.81 (275)	11.50 (292)	30.85 (784)	804 (364.7)	822 (372.9)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
5.00 (127)	5.00 (127)	9.08 (231)	8.13 (207)	13.75 (349)	17.25 (438)	31.00 (787)	8.88 (226)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT94-1-0-1800

Series
4300
4380

Size
5 × 5 × 11.5

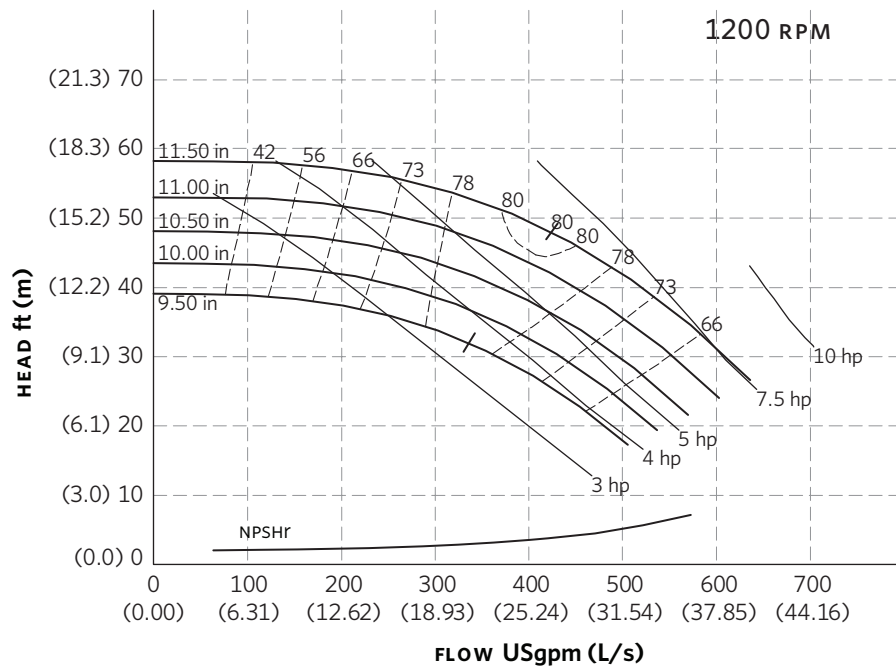
RPM
1800

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. 1.0000



Curve number
PT94-1-0-1200

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. 1.0000

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 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 5 × 5 × 13 | SUBMITTAL

File No: 43-745
Date: JUNE 05, 2013
Supersedes: NEW
Date: NEW

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 5" (125mm) Discharge: 5" (125mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

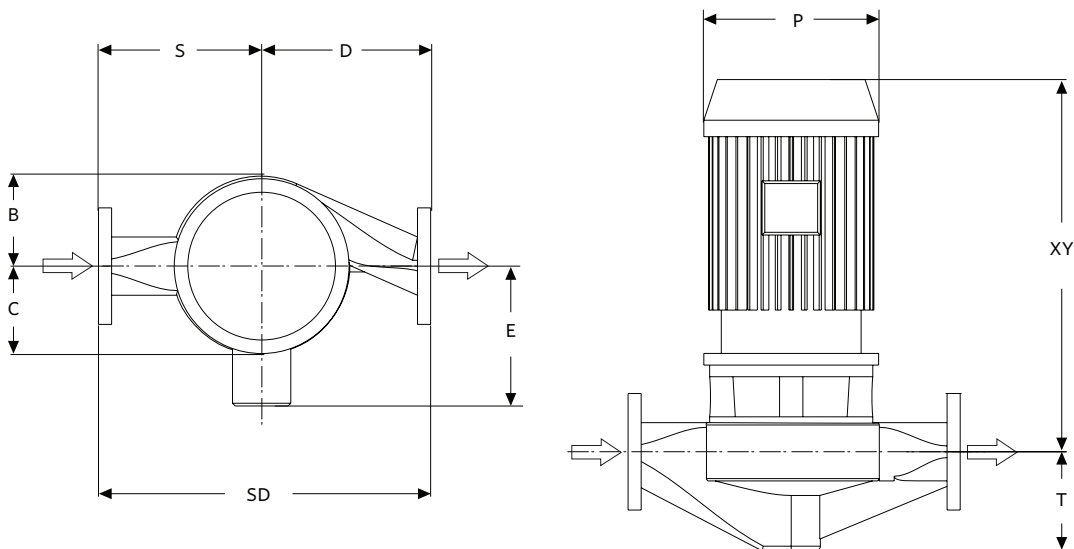
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)			WEIGHT*	
	ODP		TEFC		ODP/ TEFC			lbs (kgs)	
	1800	1200	1800	1200	E	P	XY	ODP	TEFC
254	—	7.5	—	7.5	9.94 (252)	12.13 (308)	24.92 (633)	420 (190.5)	619 (280.8)
256	20	10	20	10	9.94 (252)	12.13 (308)	24.92 (633)	652 (295.7)	648 (293.9)
284	25	15	25	15	10.81 (275)	11.50 (292)	30.55 (776)	714 (323.9)	760 (344.7)
286	30	—	30	—	10.81 (275)	11.50 (292)	30.55 (776)	791 (358.8)	809 (367.0)
324	40	—	40	—	10.81 (275)	14.19 (360)	31.93 (811)	882 (400.1)	867 (393.3)
326	50	—	50	—	10.81 (275)	14.19 (360)	31.93 (811)	948 (430.0)	911 (413.2)
364	60	—	60	—	16.38 (416)	18.43 (468)	31.16 (791)	1284 (582.4)	1328 (602.4)

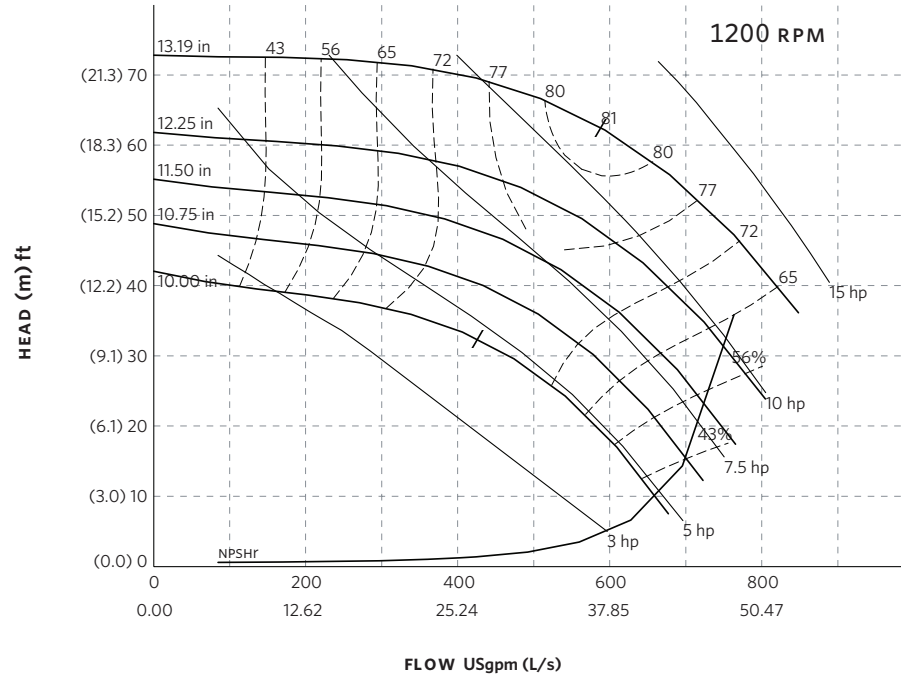
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

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



SERIES 4380 PERFORMANCE CURVES



Curve number
PT621-0-0-1200

Series
4300
4380

Size
5 × 5 × 13

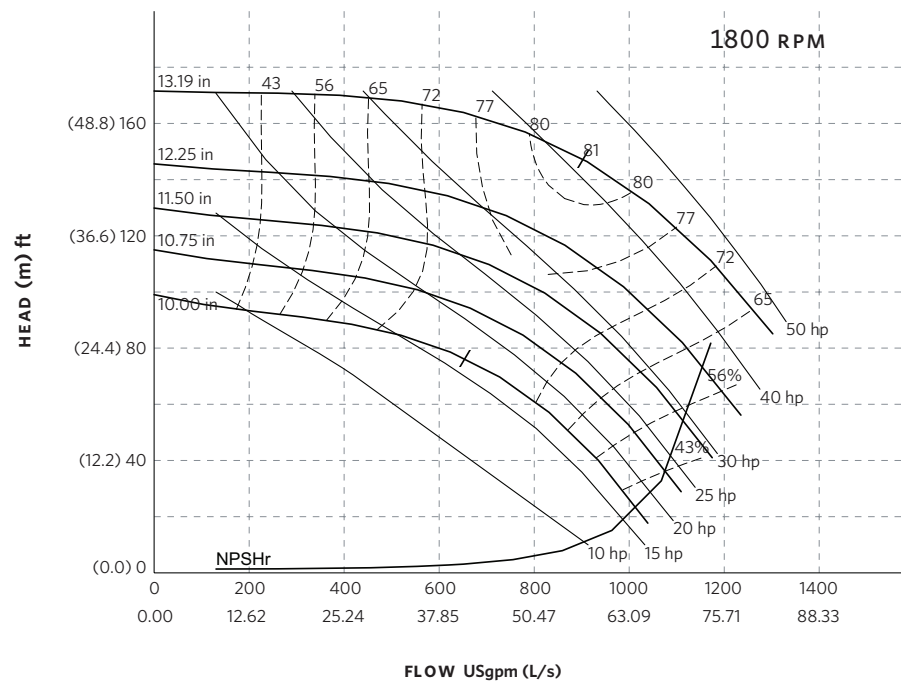
RPM
1300

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
PT621-0-0-1800

Series
4300
4380

Size
5 × 5 × 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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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 5 × 5 × 13H | SUBMITTAL

File No: 43-7451
Date: JUNE 05, 2013
Supersedes: NEW
Date: NEW

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 5" (125mm) Discharge: 5" (125mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

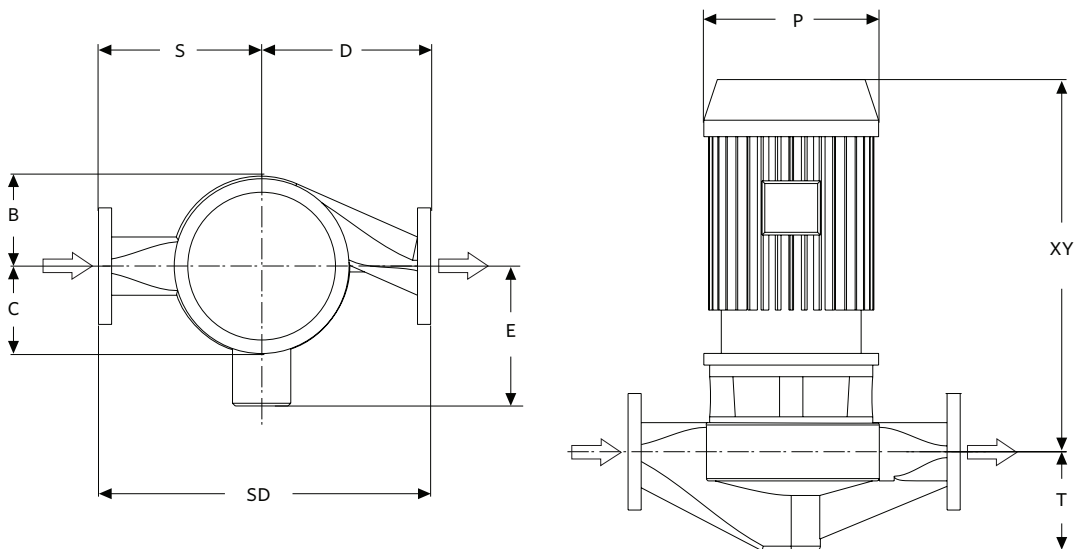
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR FRAME	HORSEPOWER @ RPM				DIMENSIONS INCHES (mm)			WEIGHT*	
	ODP		TEFC		ODP/ TEFC			lbs (kgs)	
	1800	1200	1800	1200	E	P	XY	ODP	TEFC
254	—	7.5	—	7.5	9.94 (252)	12.13 (308)	24.92 (633)	420 (190.5)	619 (280.8)
256	20	10	20	10	9.94 (252)	12.13 (308)	24.92 (633)	652 (295.7)	648 (293.9)
284	25	15	25	15	10.81 (275)	11.50 (292)	30.55 (776)	714 (323.9)	760 (344.7)
286	30	—	30	—	10.81 (275)	11.50 (292)	30.55 (776)	791 (358.8)	809 (367.0)
324	40	—	40	—	10.81 (275)	14.19 (360)	31.93 (811)	882 (400.1)	867 (393.3)
326	50	—	50	—	10.81 (275)	14.19 (360)	31.93 (811)	948 (430.0)	911 (413.2)
364	60	—	60	—	16.38 (416)	18.43 (468)	31.16 (791)	1284 (582.4)	1328 (602.4)

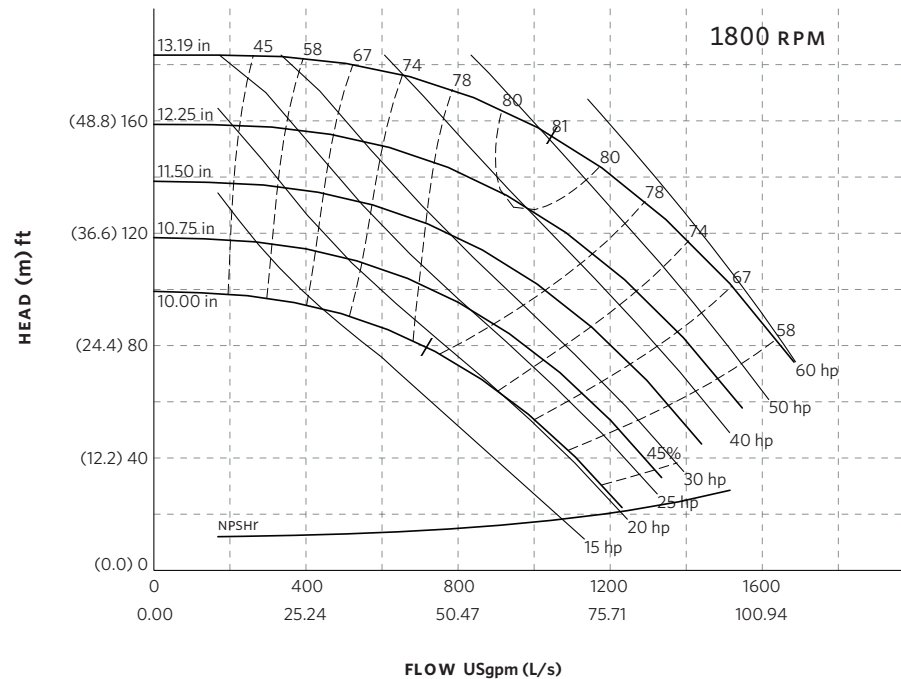
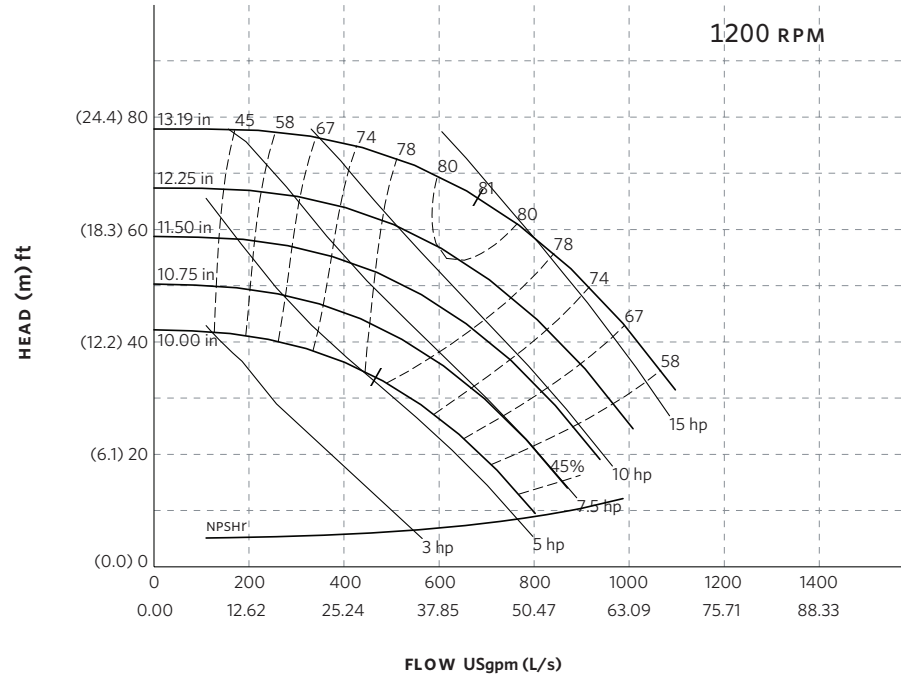
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
inches (mm)

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



SERIES 4380 PERFORMANCE CURVES



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

File No: 43-710
Date: NOV. 26, 2014
Supersedes: 43-710
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 6" (150mm) Discharge: 6" (150mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

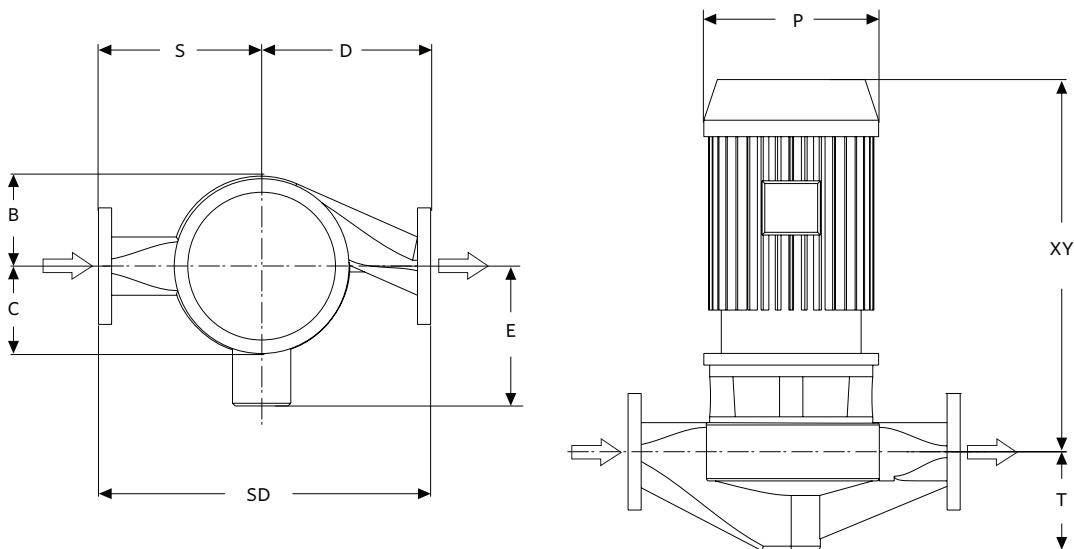
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

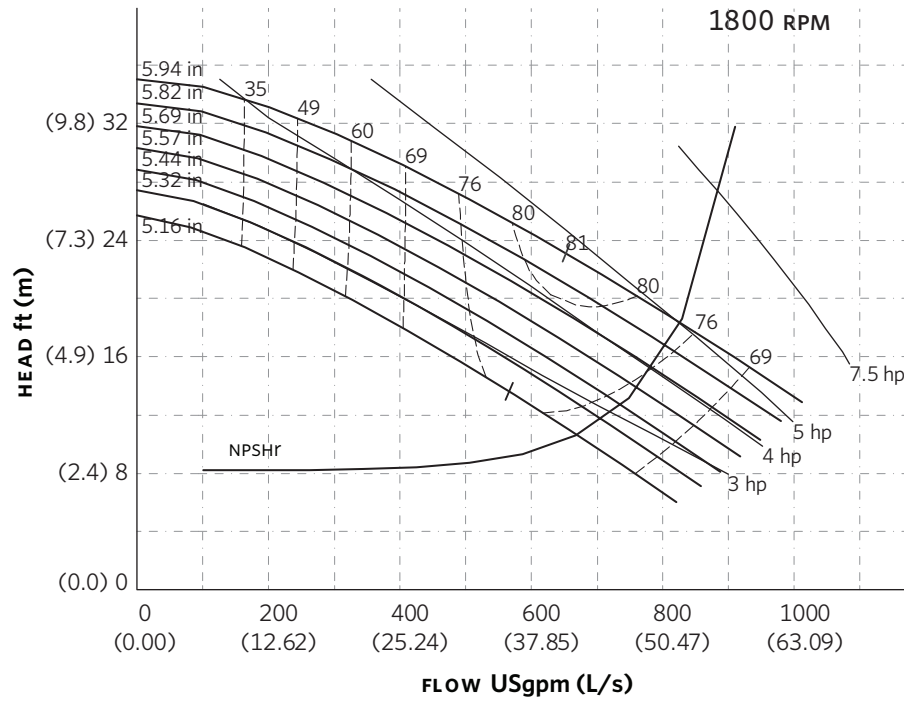
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
56C	—	0.5	6.00 (152)	7.50 (191)	18.27 (464)	—	—
143	—	0.75	6.13 (156)	8.63 (219)	19.52 (496)	—	—
145JM	—	1	6.13 (156)	8.63 (219)	19.52 (496)	321 (145.6)	335 (152.0)
182JM	3	1.5	7.50 (191)	10.38 (264)	21.52 (547)	330 (149.7)	374 (169.6)
184JM	5	2	7.50 (191)	10.38 (264)	21.52 (547)	345 (156.5)	381 (172.8)
213JM	7.5	3	8.25 (210)	12.13 (308)	23.90 (607)	373 (169.2)	449 (203.7)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
6.00 (152)	6.00 (152)	8.46 (215)	6.23 (156)	12.00 (305)	17.50 (445)	28.50 (724)	9.68 (246)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT209-1-0-1800

Series
4300
4380

Size
6 × 6 × 6

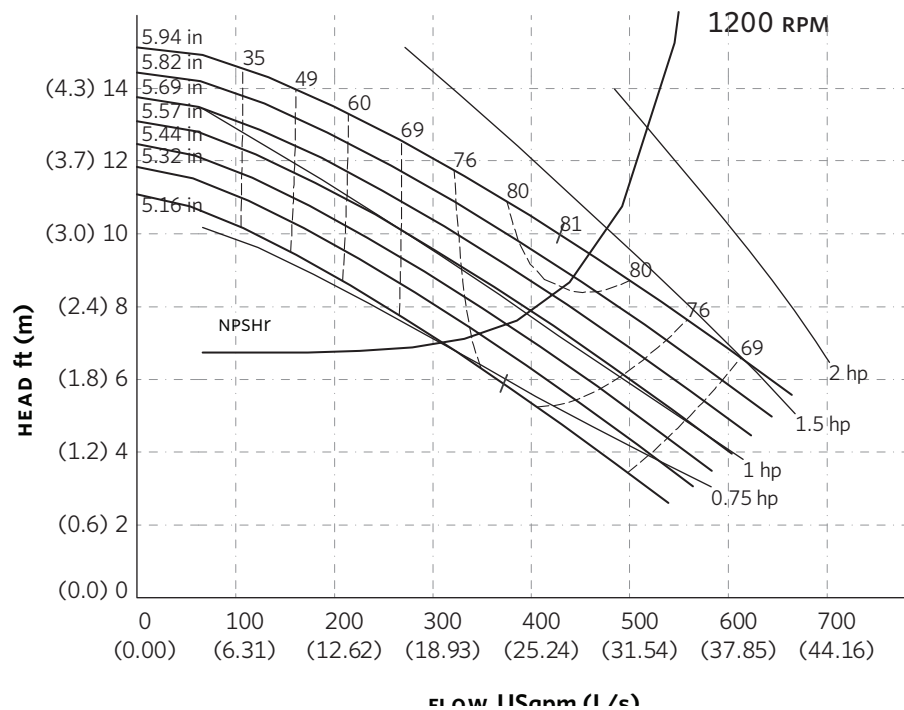
RPM
1800

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. 1.0000



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. 1.0000

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 4380 | VERTICAL IN-LINE PUMPS

CLOSED-COUPLED | 6 × 6 × 8 | SUBMITTAL

File No: 43-720
 Date: NOV. 26, 2014
 Supersedes: 43-720
 Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 6" (150mm) Discharge: 6" (150mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

- ANSI 125**
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)
- ANSI 250**
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)
- Tolerance of ±0.125" (±3 mm) should be used
 - See performance curves on page 3
 - For exact installation, data please write factory for certified dimensions
 - Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

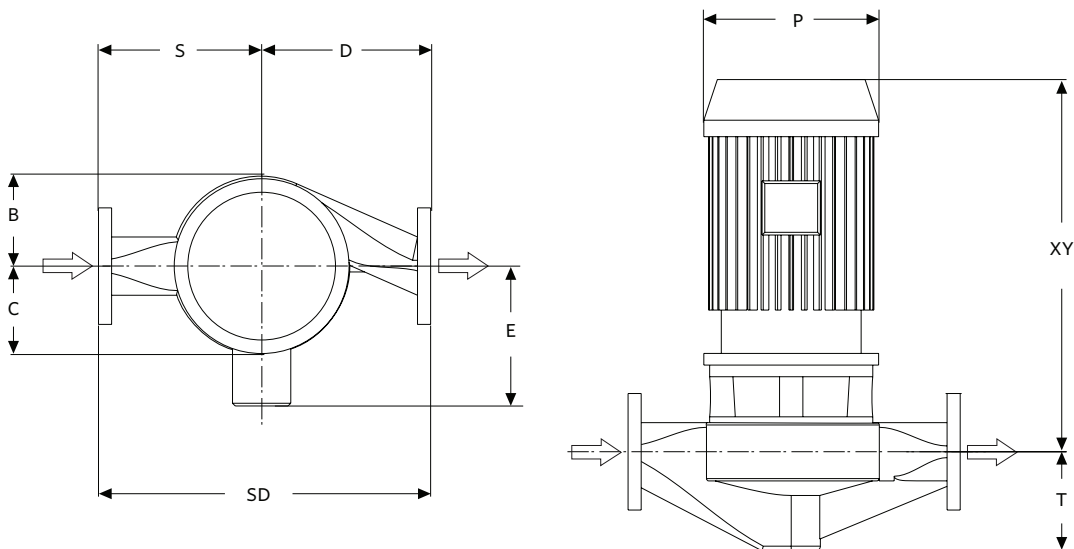
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

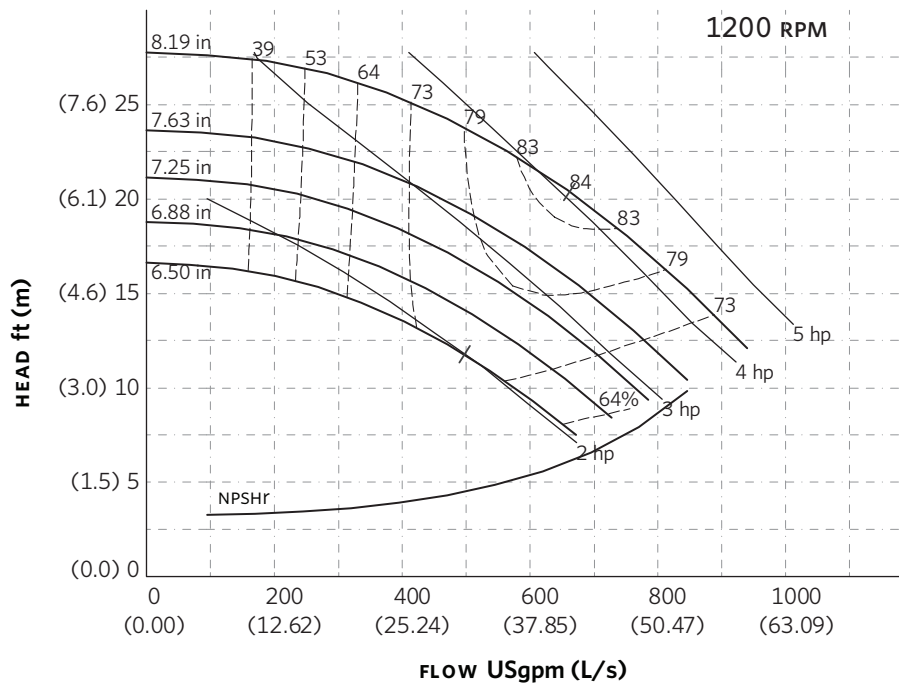
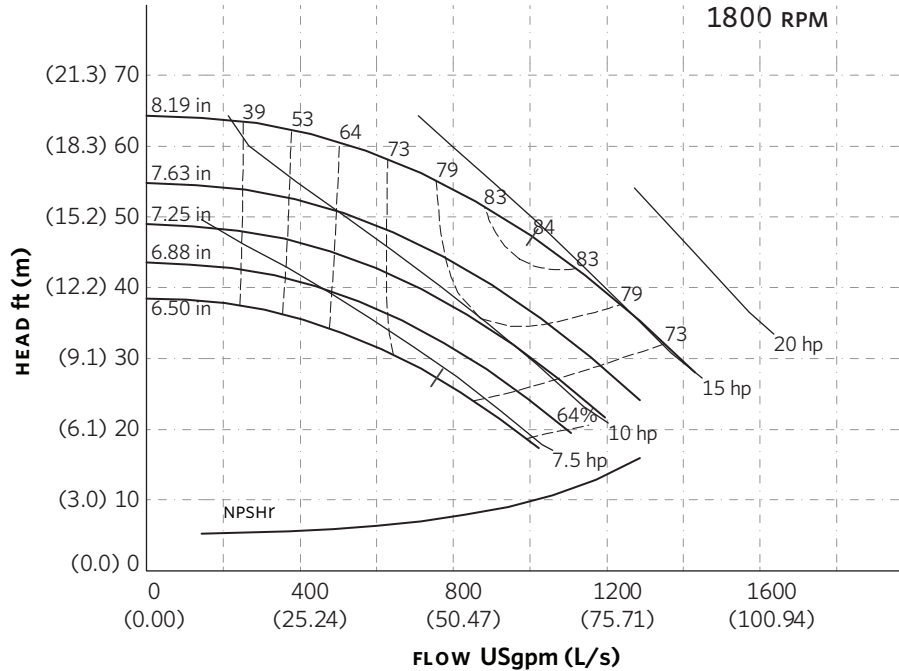
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
184	—	2	7.50 (191)	10.38 (264)	19.86 (504)	343 (155.6)	373 (169.2)
213	7.5	3	8.25 (210)	12.13 (308)	26.08 (662)	377 (171.0)	453 (205.5)
215	10	5	8.25 (210)	12.13 (308)	26.08 (662)	399 (181.0)	471 (213.6)
254	15	—	9.94 (252)	12.13 (308)	25.45 (646)	574 (260.4)	571 (259.0)
256	20	—	9.94 (252)	12.13 (308)	25.45 (646)	615 (279.0)	611 (277.1)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
6.00 (152)	6.00 (152)	9.50 (241)	7.19 (183)	13.50 (343)	19.50 (495)	33.00 (838)	10.38 (264)



SERIES 4380 PERFORMANCE CURVES



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

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

File No: 43-730
Date: NOV. 26, 2014
Supersedes: 43-730
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 6" (150mm) Discharge: 6" (150mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

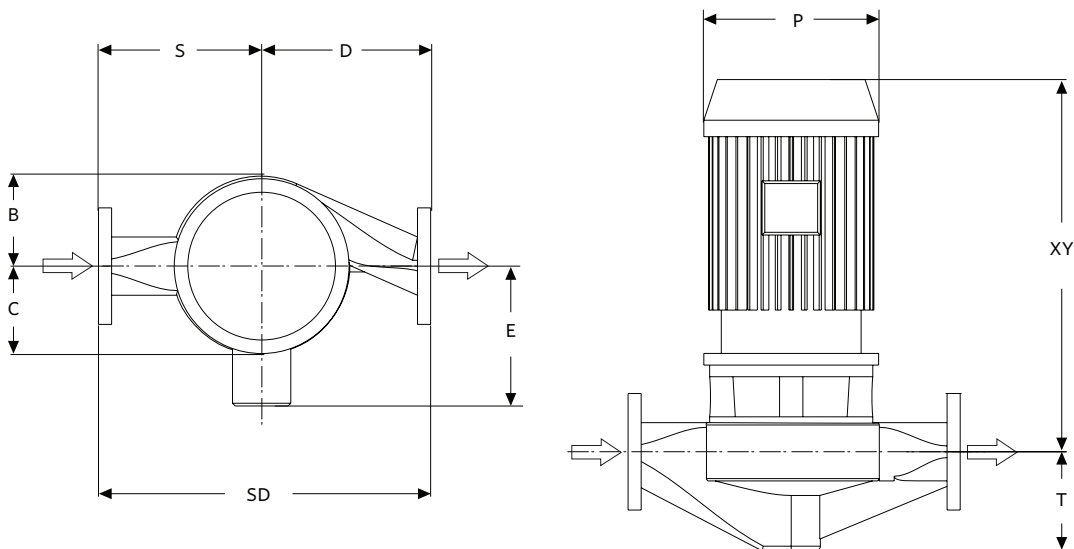
2

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

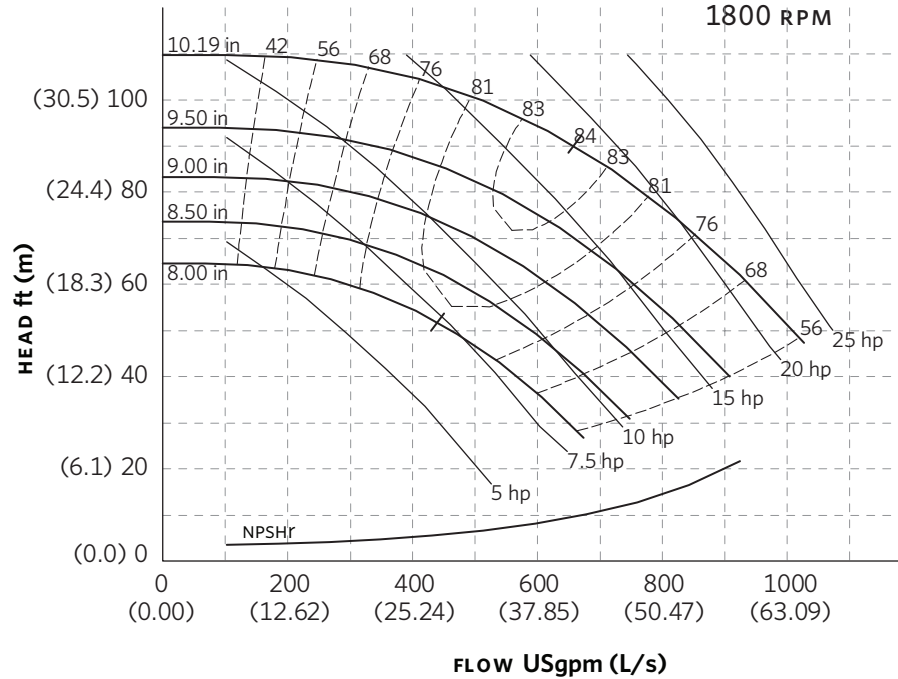
PUMP DIMENSIONS

inches (mm)

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



SERIES 4380 PERFORMANCE CURVES



Curve number
PT104-1-0-1800

Series
4300
4380

Size
6 × 6 × 10

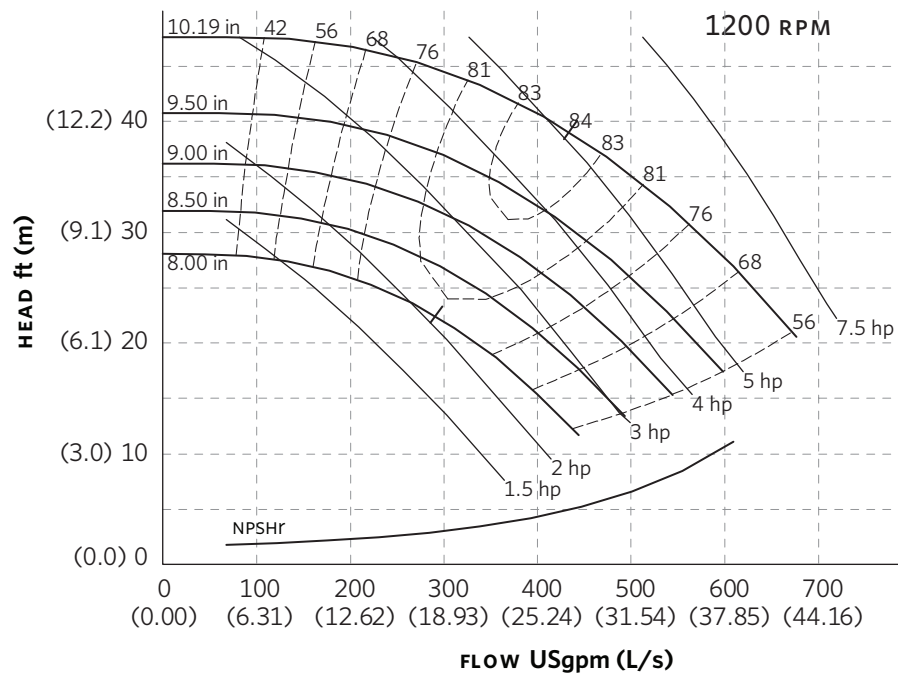
RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000



Curve number
PT104-1-0-1200

Series
4300
4380

Size
6 × 6 × 10

RPM
1200

BHP based on shown
Fluid's sp. gr.

Availability
4300 all ratings
4380 all ratings

Performance
guaranteed only
at operating point
indicated.

Curve shown for
clear, cold water
- SP. GR. 1.0000

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

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**MAKING
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SERIES 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 6 × 6 × 11.5 | SUBMITTAL

File No: 43-738
Date: NOV. 26, 2014
Supersedes: 43-738
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
Order no.: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ USgpm (L/s) Head: _____ ft (m)
Liquid: _____ Viscosity: _____
Temperature: _____ °F (°C) Specific gravity: _____
Suction: 6" (150mm) Discharge: 6" (150mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
Volts: _____ Hertz: 60 Hz Phase: 3
Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

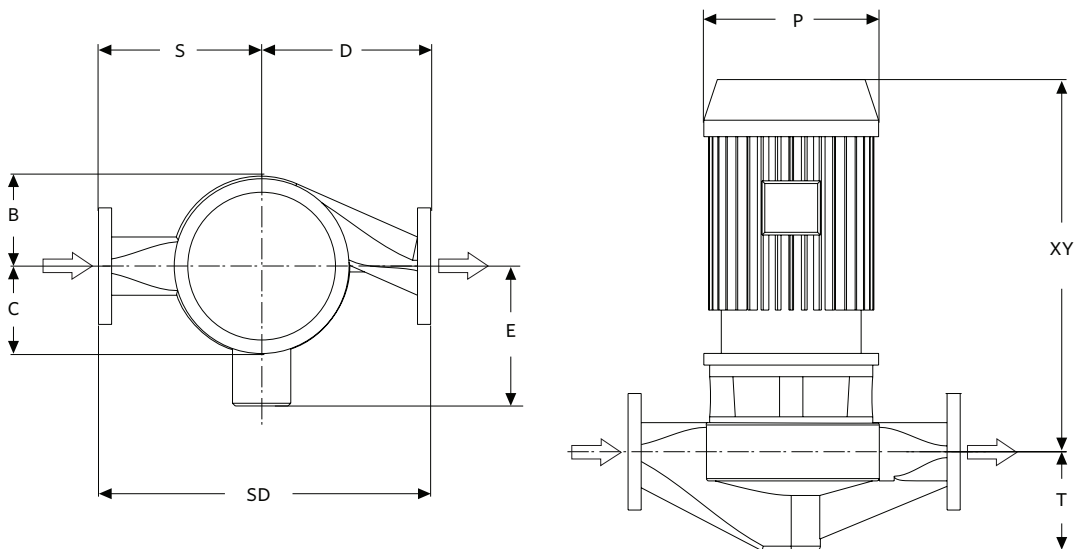
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
FRAME	1800	1200					
213	—	3	8.25 (210)	12.13 (308)	25.79 (655)	421 (191.0)	530 (240.4)
215	10	5	8.25 (210)	12.13 (308)	25.79 (655)	499 (226.3)	571 (259.0)
254	15	7.5	9.94 (252)	12.13 (308)	25.16 (639)	668 (303.0)	665 (301.6)
256	20	10	9.94 (252)	12.13 (308)	25.16 (639)	709 (321.6)	705 (319.8)
284	25	—	10.81 (275)	11.50 (292)	30.91 (785)	775 (351.5)	821 (372.4)
286	30	—	10.81 (275)	11.50 (292)	30.91 (785)	852 (386.5)	870 (394.6)
324	40	—	10.81 (275)	14.19 (360)	32.16 (817)	943 (427.7)	928 (420.9)

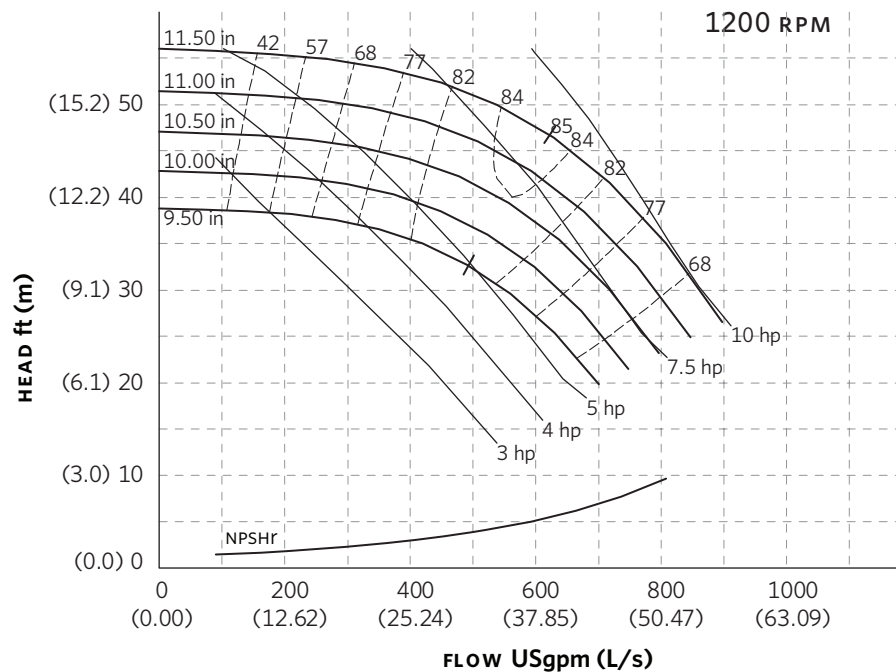
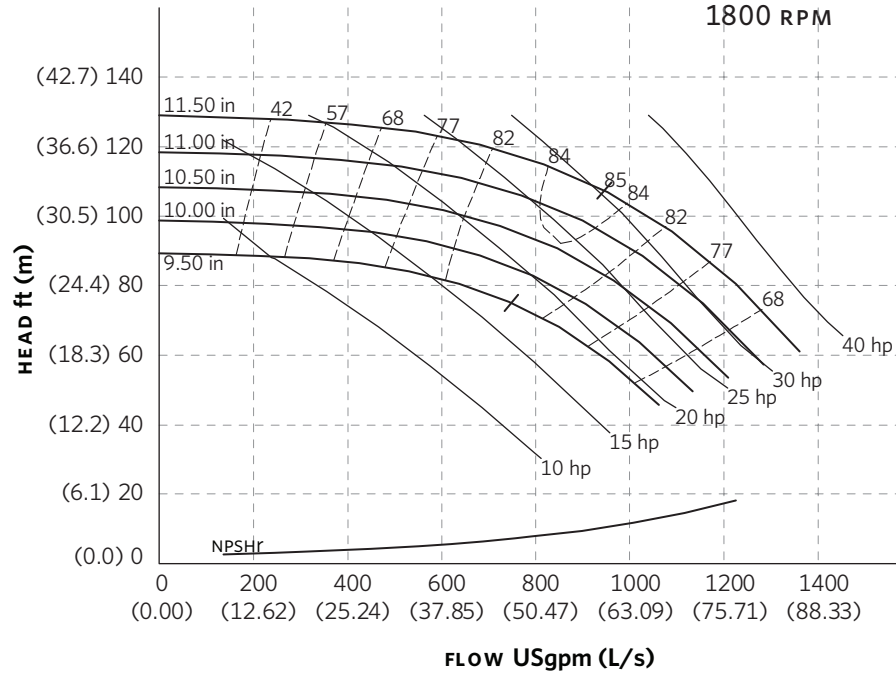
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
6.00	6.00	9.49	8.50	16.50	18.50	35.00	9.75
(152)	(152)	(249)	(216)	(419)	(470)	(889)	(248)



SERIES 4380 PERFORMANCE CURVES



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Confirm current performance data with Armstrong ACE Online selection software.

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

File No: 43-746
Date: NOV. 26, 2014
Supersedes: 43-746
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 6" (150mm) Discharge: 6" (150mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

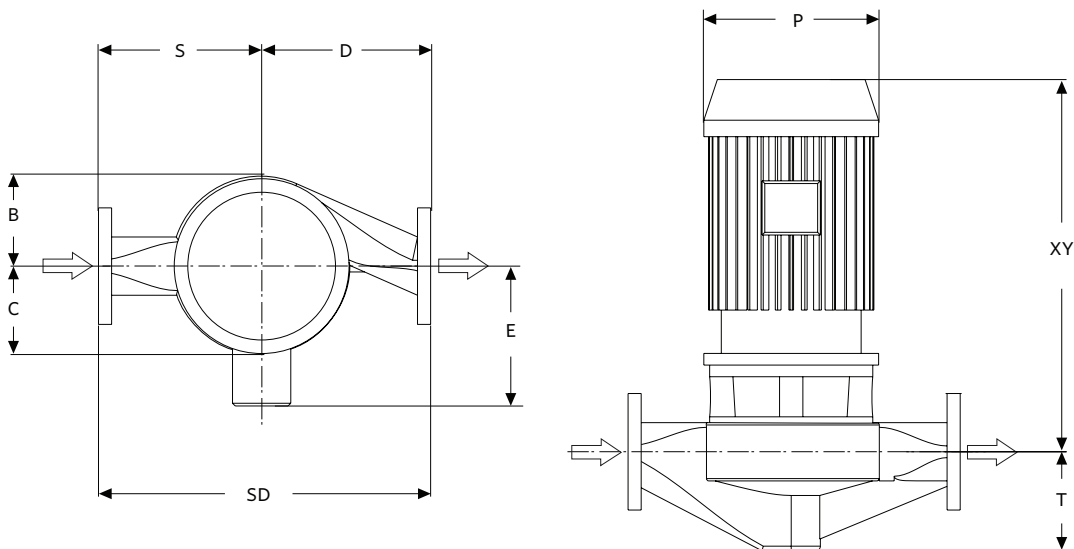
MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			ASSEMBLY WEIGHT*	
	ODP & TEFC		E	P	XY	ODP	TEFC
FRAME	1800	1200					
254	—	7.5	9.94 (252)	14.19 (360)	28.28 (718)	402 (182.3)	601 (272.6)
256	—	10	9.94 (252)	14.19 (360)	28.28 (718)	590 (267.6)	628 (284.9)
284	25	15	10.81 (275)	13.38 (340)	33.90 (861)	695 (315.2)	741 (336.1)
286	30	20	10.81 (275)	13.38 (340)	33.90 (861)	772 (350.2)	790 (358.3)
324	40	—	10.81 (275)	14.19 (360)	35.90 (912)	863 (391.5)	848 (384.6)
326	50	—	10.81 (275)	14.19 (360)	35.90 (912)	929 (421.4)	892 (404.6)

PUMP DIMENSIONS

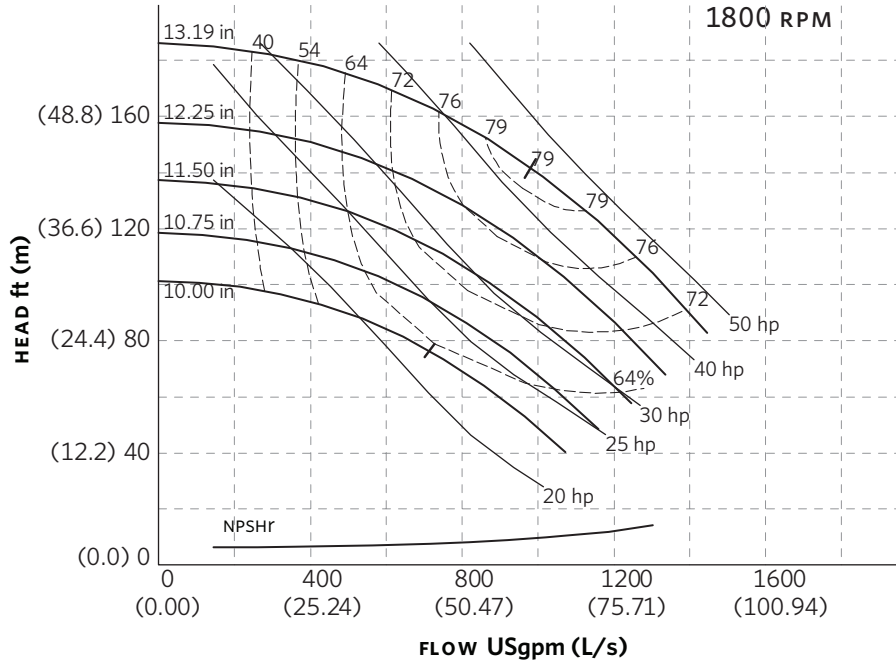
inches (mm)

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

*Assembly weight combines pump and motor.



SERIES 4380 PERFORMANCE CURVES



Curve number
PT106-1-0-1800

Series
4300
4380

Size
6 × 6 × 13

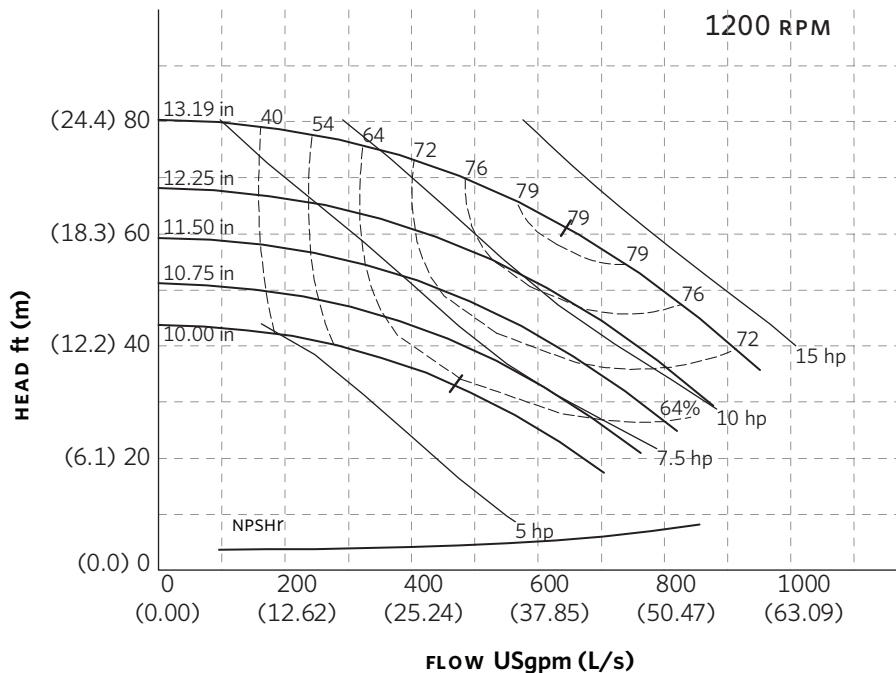
RPM
1800

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. 1.0000



Curve number
PT106-1-0-1200

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. 1.0000

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

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

File No: 43-747
Date: NOV. 26, 2014
Supersedes: 43-747
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 6" (150mm) Discharge: 6" (150mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

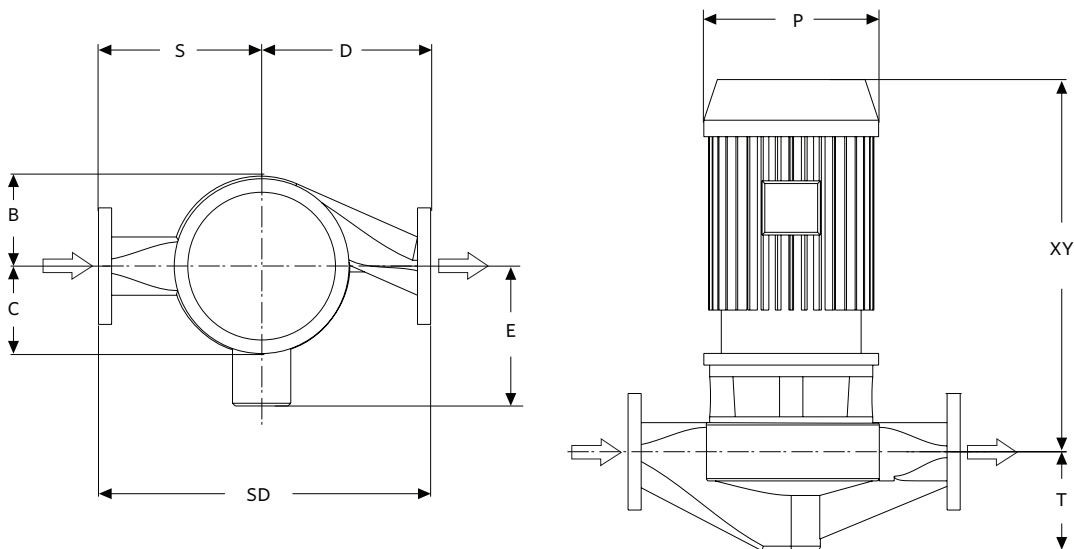
MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			ASSEMBLY WEIGHT*	
	ODP & TEFC		E	P	XY	ODP	TEFC
FRAME	1800	1200					
256	—	10	9.94 (252)	14.19 (360)	28.28 (718)	590 (267.6)	628 (284.9)
284	—	15	10.81 (275)	13.38 (340)	33.90 (861)	717 (325.2)	732 (332.0)
286	30	20	10.81 (275)	13.38 (340)	33.90 (861)	772 (350.2)	790 (358.3)
324	40	25	10.81 (275)	14.19 (360)	35.90 (912)	863 (391.5)	848 (384.6)
326	50	—	10.81 (275)	14.19 (360)	35.90 (912)	929 (421.4)	892 (404.6)

PUMP DIMENSIONS

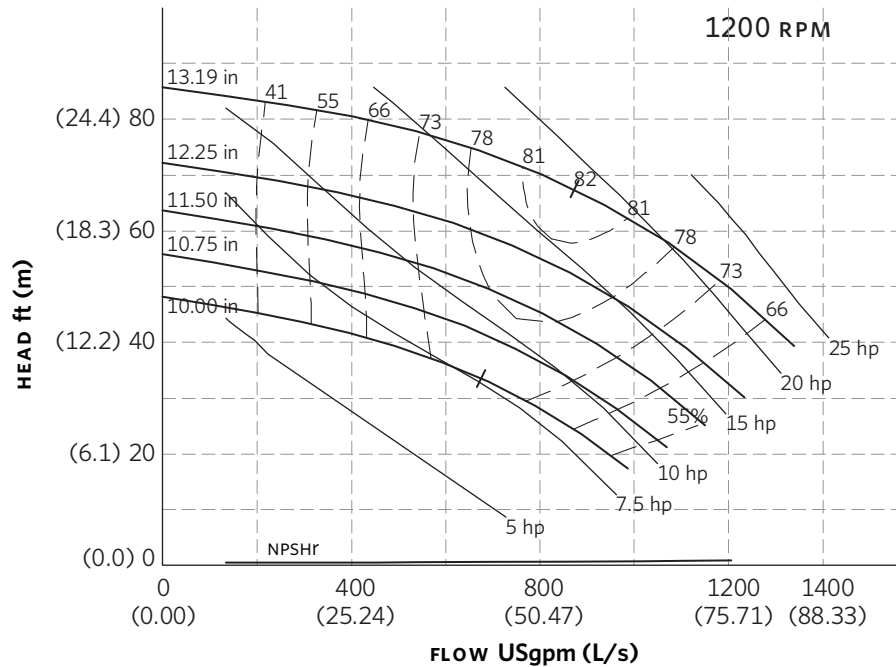
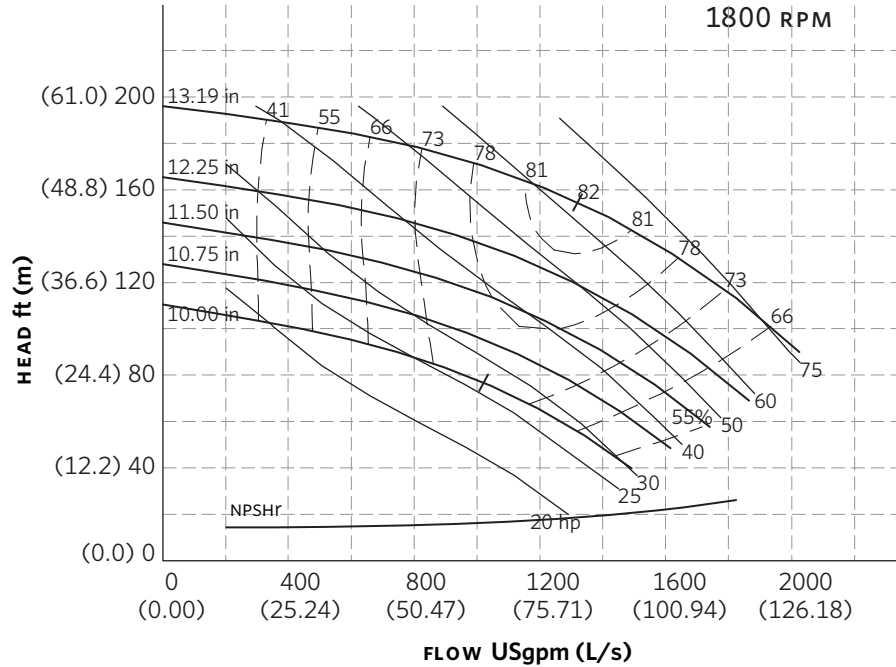
inches (mm)

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

*Assembly weight combines pump and motor.



SERIES 4380 PERFORMANCE CURVES



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

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

File No: 43-722
Date: NOV. 26, 2014
Supersedes: 43-722
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 8" (200mm) Discharge: 8" (200mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

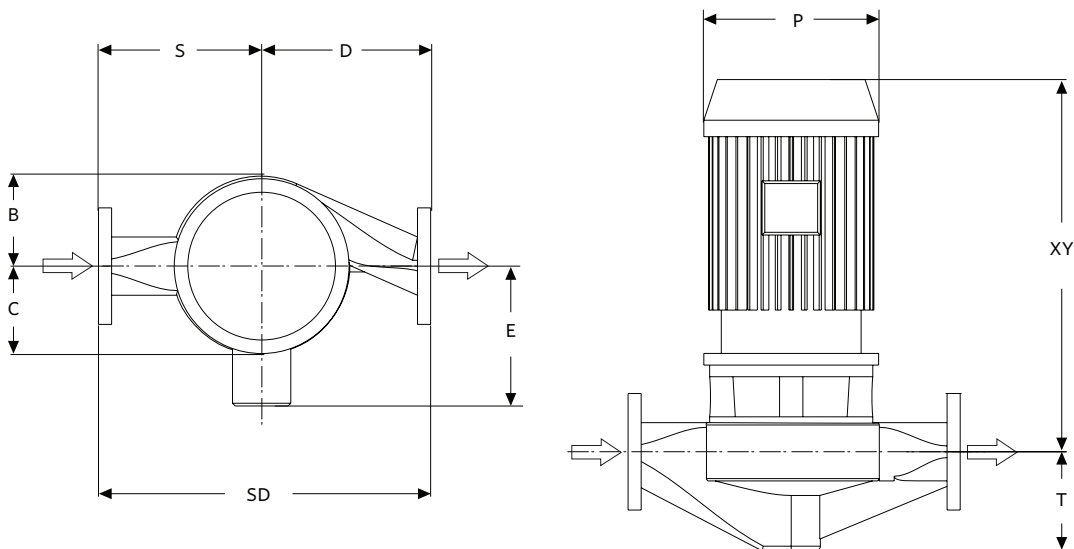
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
213JP	—	3	8.25 (210)	12.13 (308)	28.52 (724)	602 (273.1)	666 (302.1)
215JP	10	5	8.25 (210)	12.13 (308)	28.52 (724)	635 (288.0)	707 (320.7)
254JM	15	—	9.94 (252)	12.13 (308)	27.89 (708)	804 (364.7)	801 (363.3)
256JM	20	—	9.94 (252)	12.13 (308)	27.89 (708)	845 (383.3)	841 (381.5)

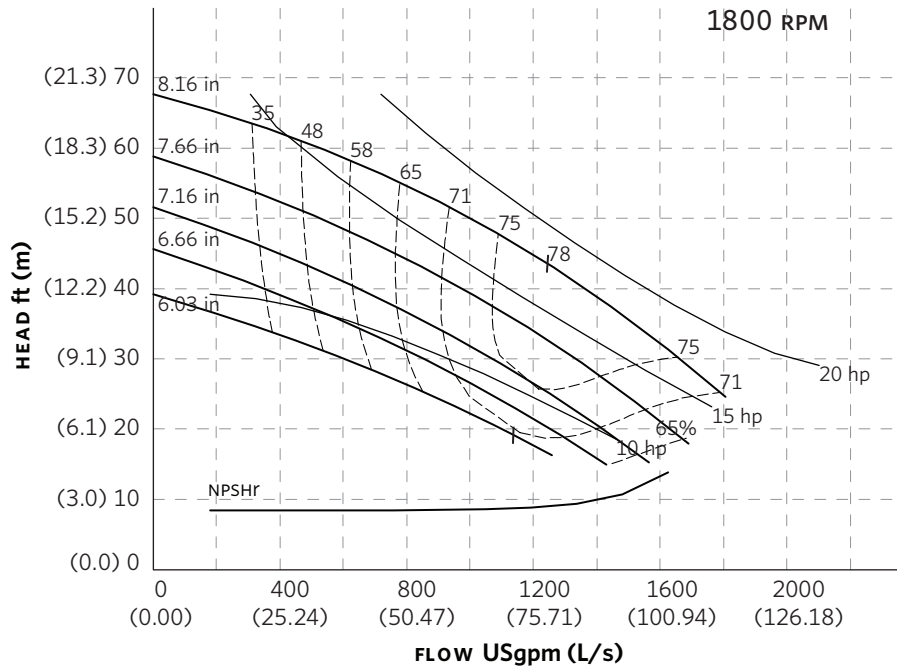
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
8.00 (203)	8.00 (203)	11.36 (289)	8.35 (212)	16.00 (406)	22.00 (559)	38.00 (965)	12.43 (316)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT469-0-0-1800

Series
4300
4380

Size
8 × 8 × 8

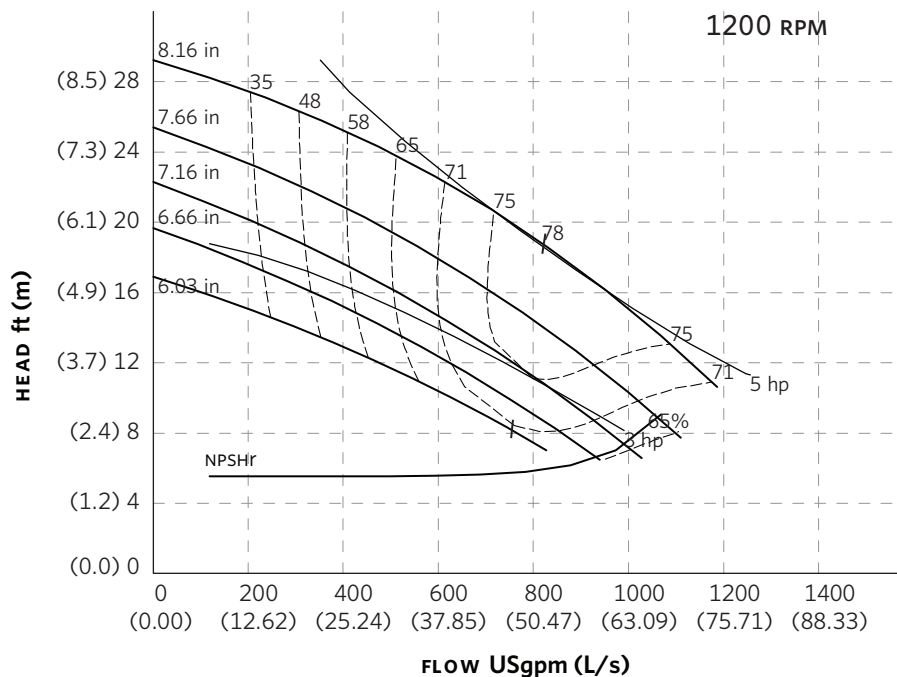
RPM
1800

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. 1.0000



Curve number
PT469-0-0-1200

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. 1.0000

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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SERIES 4380 | VERTICAL IN-LINE PUMPS

CLOSED-COUPLED | 8 × 8 × 10 | SUBMITTAL

File No: 43-732
 Date: NOV. 26, 2014
 Supersedes: 43-732
 Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 8" (200mm) Discharge: 8" (200mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

OPTIONAL EQUIPMENT

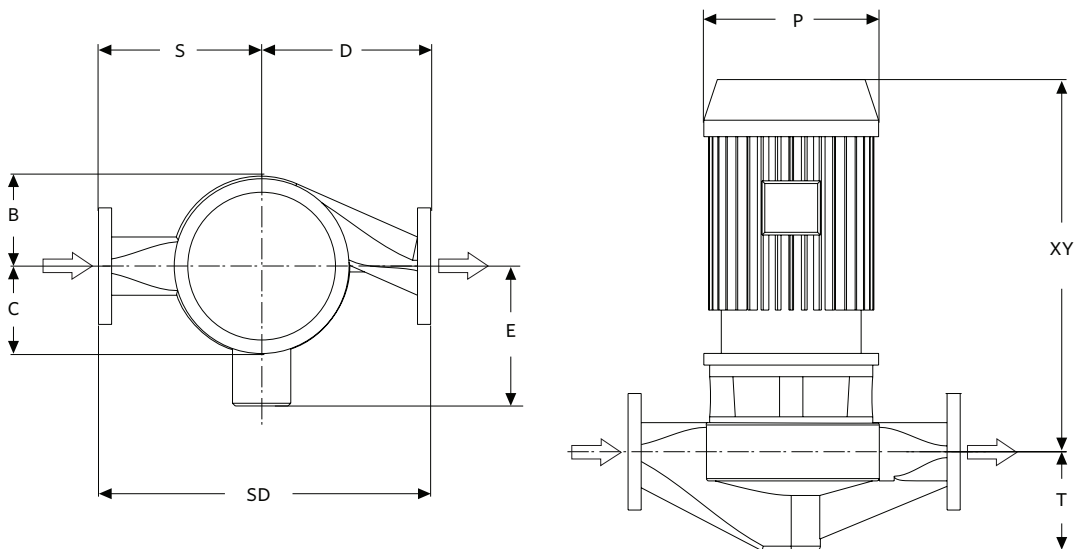
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
FRAME	1800	1200					
215	—	5	8.25 (210)	12.13 (308)	26.02 (661)	566 (256.7)	632 (286.7)
254	15	7.5	9.94 (252)	12.13 (308)	25.39 (645)	739 (335.2)	836 (379.2)
256	20	10	9.94 (252)	12.13 (308)	25.39 (645)	780 (353.8)	776 (352.0)
284	25	15	10.81 (275)	11.50 (292)	31.14 (791)	842 (381.9)	888 (402.8)
286	30	—	10.81 (275)	11.50 (292)	31.14 (791)	919 (416.9)	937 (425.0)
324	40	—	10.81 (275)	14.19 (360)	32.39 (823)	1010 (458.1)	995 (451.3)
326	50	—	10.81 (275)	14.19 (360)	32.39 (823)	1076 (488.1)	1039 (471.3)

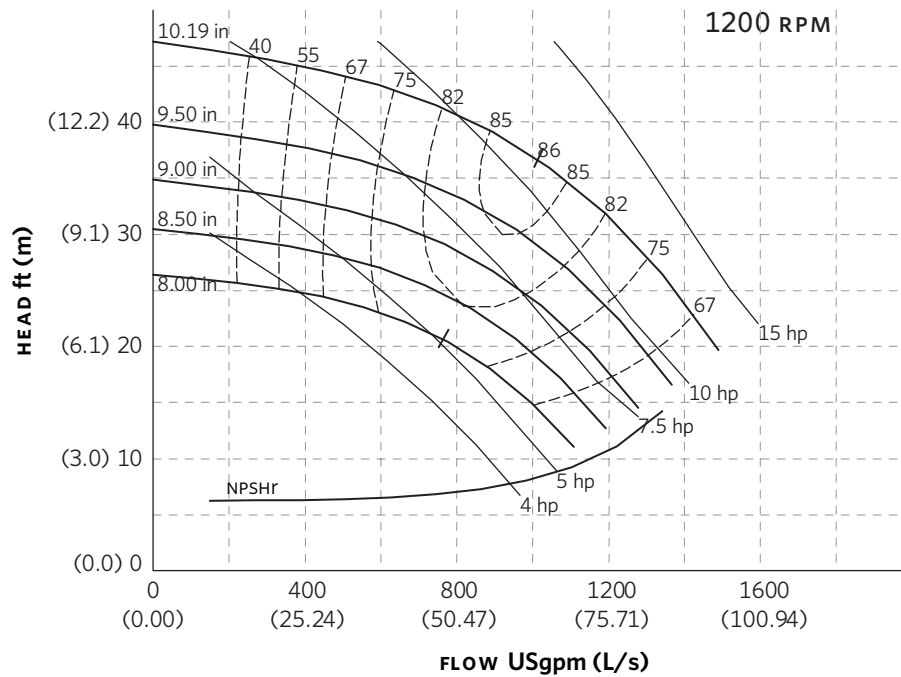
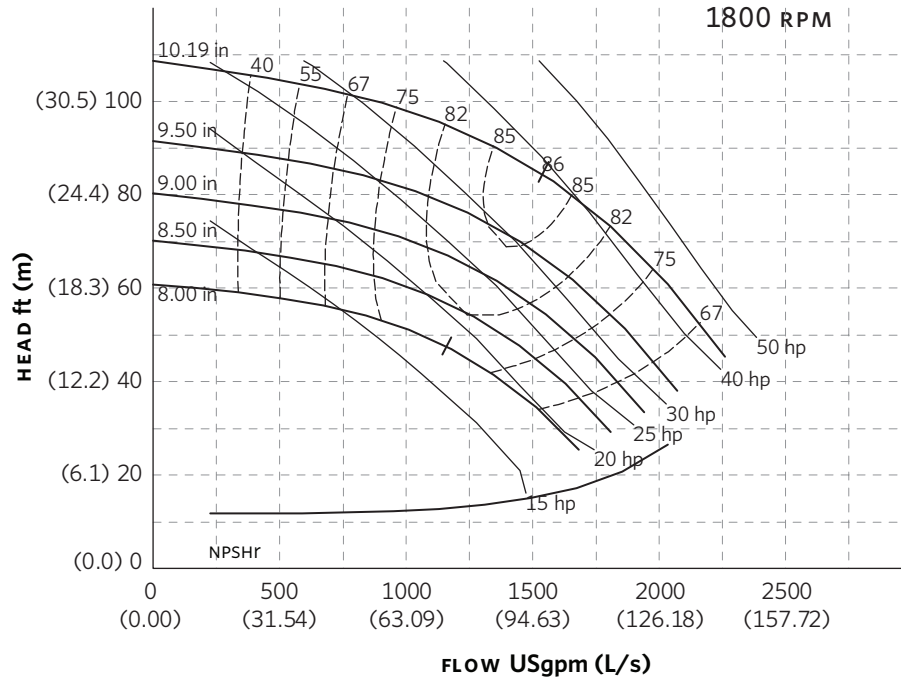
PUMP DIMENSIONS

inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
8.00	8.00	11.56	8.94	17.00	22.00	39.00	9.75
(203)	(203)	(294)	(227)	(432)	(559)	(991)	(248)



SERIES 4380 PERFORMANCE CURVES



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 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 8 × 8 × 11.5 | SUBMITTAL

File No: 43-740
Date: NOV. 26, 2014
Supersedes: 43-740
Date: SEPTEMBER 10, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 8" (200mm) Discharge: 8" (200mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze
Gasket: Confined non-asbestos fiber
Shaft: Carbon steel
Shaft sleeve: Bronze
Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125
 175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250
 300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

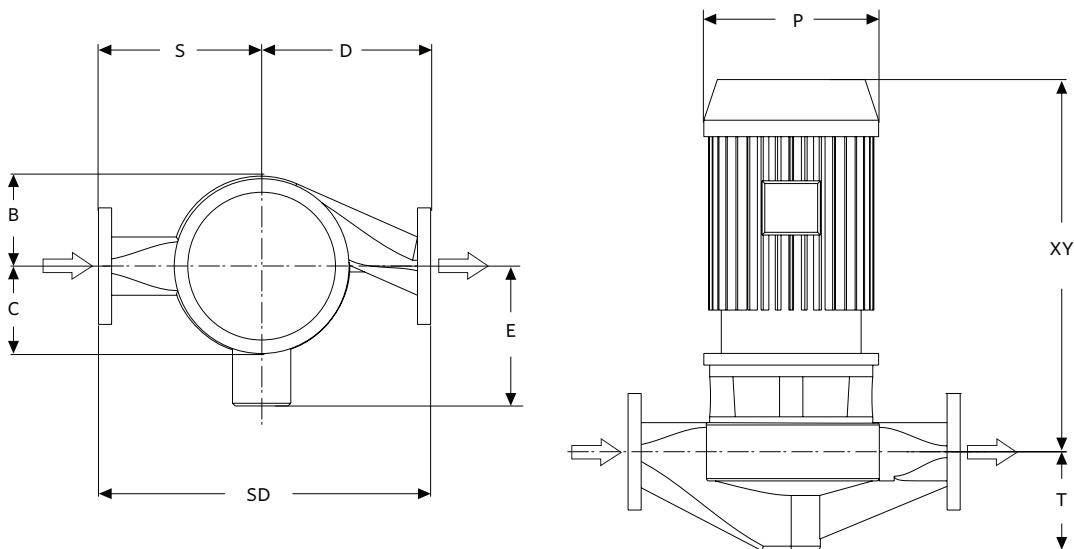
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

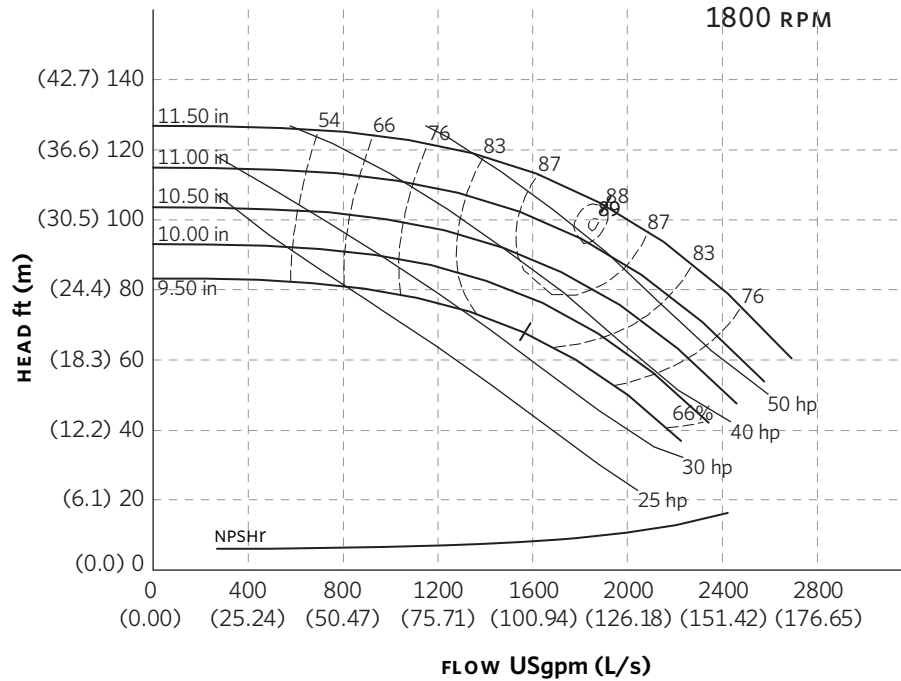
MOTOR	HORSEPOWER @ RPM		DIMENSIONS inches (mm)			SHIP. WEIGHT	
	ODP & TEFC		E	P	XY	ODP	TEFC
FRAME	1800	1200					
254	—	7.5	9.94 (252)	12.13 (308)	25.54 (649)	588 (266.7)	787 (357.0)
256	—	10	9.94 (252)	12.13 (308)	25.54 (649)	776 (352.0)	814 (369.2)
284	25	15	10.81 (275)	11.50 (292)	31.29 (795)	881 (399.6)	927 (420.5)
286	30	20	10.81 (275)	11.50 (292)	31.29 (795)	958 (434.5)	976 (442.7)
324	40	—	10.81 (275)	14.19 (360)	32.54 (827)	1049 (475.8)	1034 (469.0)
326	50	—	10.81 (275)	14.19 (360)	32.54 (827)	1115 (505.8)	1078 (489.0)

PUMP DIMENSIONS
inches (mm)

INLET	OUTLET	B	C	D	S	SD	T
8.00	8.00	11.63	9.75	17.50	22.00	39.50	10.00
(203)	(203)	(295)	(248)	(445)	(559)	(1003)	(254)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT113-1-0-1800

Series
4300
4380

Size
8 × 8 × 11.5

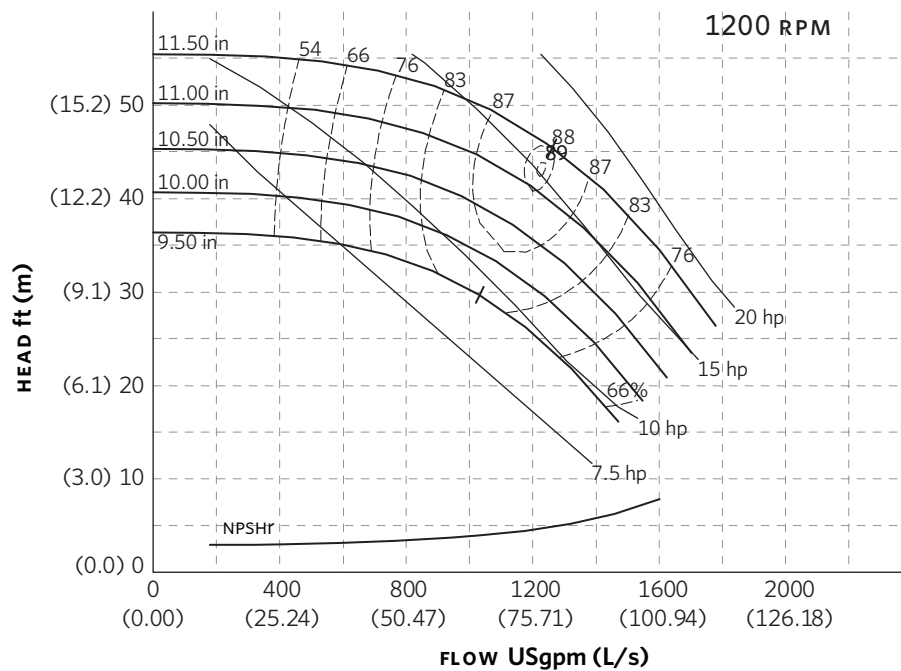
RPM
1800

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. 1.0000



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. 1.0000

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 4380 | VERTICAL IN-LINE PUMPS CLOSED-COUPLED | 8 × 8 × 13 | SUBMITTAL

File No: 43-748
Date: JAN. 27, 2015
Supersedes: 43-748
Date: NOV. 26, 2014

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
 Capacity: _____ USgpm (L/s) Head: _____ ft (m)
 Liquid: _____ Viscosity: _____
 Temperature: _____ °F (°C) Specific gravity: _____
 Suction: 8" (200mm) Discharge: 8" (200mm)

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
 Volts: _____ Hertz: 60 Hz Phase: 3
 Efficiency: Energy EFF 12.11 NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

Flush line: Braided stainless steel

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
 140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide
Secondary seal: EPDM **Rotating hardware:** Stainless steel
Spring: Stainless steel

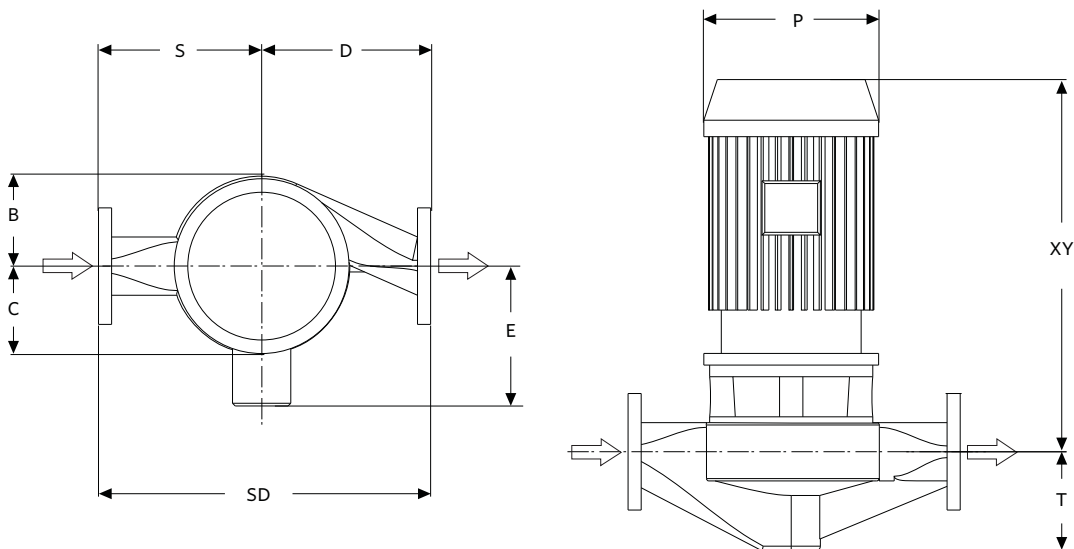
OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

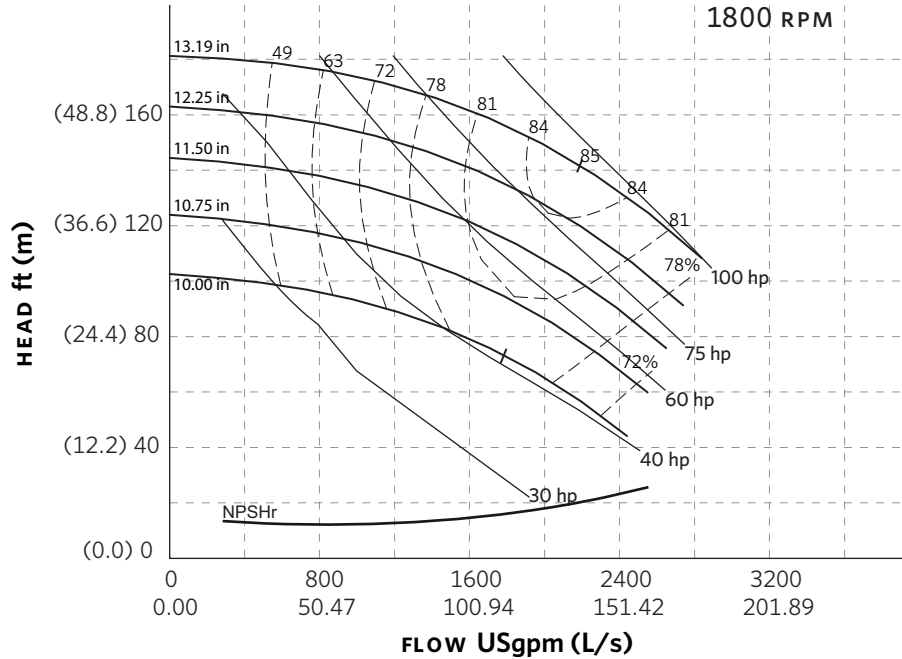
MOTOR FRAME	HORSEPOWER @ RPM ODP & TEFC		DIMENSIONS inches (mm)			SHIP. WEIGHT lbs (kgs)	
	1800	1200	E	P	XY	ODP	TEFC
254	—	7.5	9.94 (252)	12.13 (308)	25.26 (642)	628 (284.9)	827 (375.1)
256	—	10	9.94 (252)	12.13 (308)	25.26 (642)	816 (370.1)	854 (387.4)
284	—	15	10.81 (275)	11.50 (292)	31.01 (788)	943 (427.7)	958 (434.5)
286	30	20	10.81 (275)	11.50 (292)	31.01 (788)	998 (452.7)	1016 (460.8)
324	40	—	10.81 (275)	14.19 (360)	32.26 (819)	1089 (494.0)	1074 (487.2)
326	50	—	10.81 (275)	14.19 (360)	32.26 (819)	1155 (523.9)	1118 (507.1)

PUMP DIMENSIONS
inches (mm)

B	C	D	S	SD	T	INLET	OUTLET
11.25 (286)	9.81 (249)	19.00 (483)	23.00 (584)	42.00 (1067)	9.94 (252)	8.00 (203)	8.00 (203)



SERIES 4380 PERFORMANCE CURVES



Curve number
PT664-0-0-1800

Series
4300
4380

Size
8 × 8 × 13

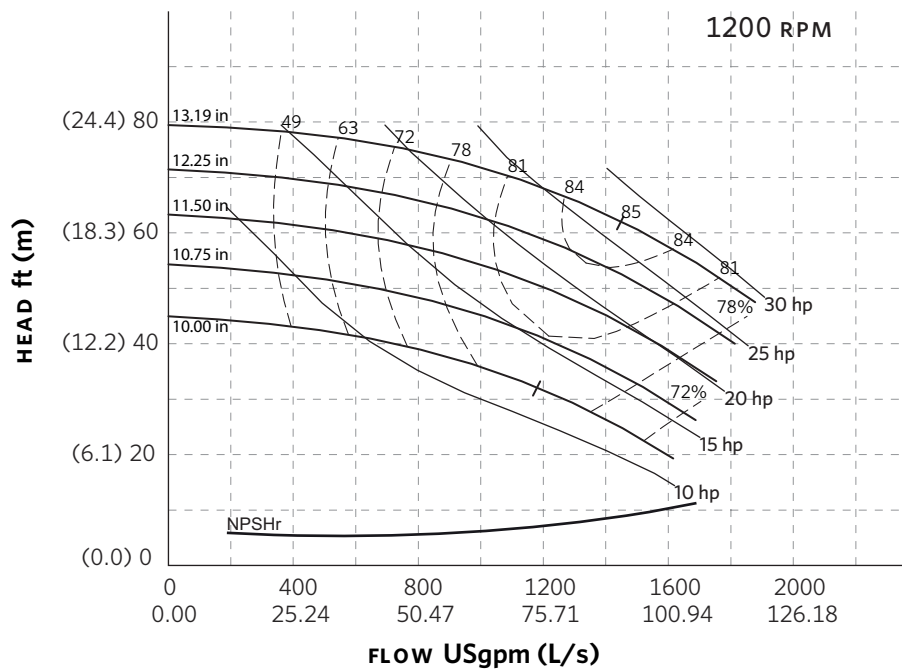
RPM
1800

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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