

## SERIES 4380 | CLOSED-COUPLED VERTICAL IN-LINE | 150-250A (6×6×10) | SUBMITTAL

File No: 43.730L  
Date: APRIL 04, 2016  
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: \_\_\_\_\_ m<sup>3</sup>/h (USgpm) Head: \_\_\_\_\_ m(ft)  
 Liquid: \_\_\_\_\_ Viscosity: \_\_\_\_\_  
 Temperature: \_\_\_\_\_ °C (°F) Specific gravity: \_\_\_\_\_  
 Suction: 150mm (6") Discharge: 150mm (6")

### MATERIALS OF CONSTRUCTION

DIN FLANGE RATING	PN 16	PN 25
<b>Construction</b>	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
<b>Casing</b>	Cast iron	Ductile iron
<b>Adapter</b>	Cast iron	Ductile iron

**Impeller:** Bronze

**Gasket:** Confined non-asbestos fiber

**Shaft:** Carbon steel

**Shaft sleeve:** Bronze

**Flush line:** Braided stainless steel

### MECHANICAL SEAL DATA

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

### MOTOR DESIGN DATA

kW: \_\_\_\_\_ RPM: \_\_\_\_\_  
 Frame size: \_\_\_\_\_ Enclosure: \_\_\_\_\_  
 Volts: \_\_\_\_\_ Hertz: 50 Hz      Phase: 3  
 Efficiency:  IE1     IE2     IE3

### MAXIMUM PUMP OPERATING CONDITIONS

#### PN 16

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

#### PN 25

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

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

### OPTIONAL EQUIPMENT

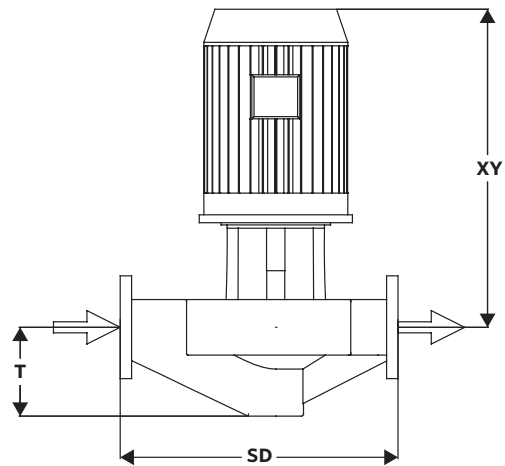
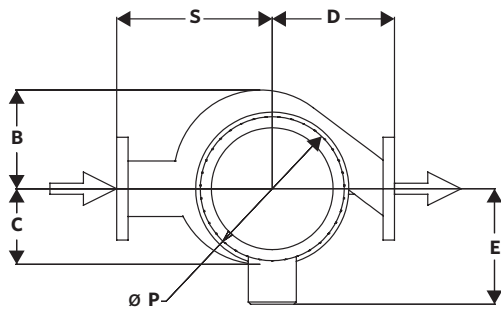
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
<b>Temperature</b>	up to 93°C (200°F)	over 93°C (200°F)	up to 93°C (200°F)	over 93°C (200°F)	up to 93°C (200°F)	over 93°C (200°F)
<b>Rotating face</b>	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
<b>Seat elastomer</b>	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
<b>Material code</b>	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	KILOWATT @ RPM		FULL LOAD CURRENT (A)	STARTING CURRENT (A)		DIMENSIONS mm (inches)			WEIGHT kg (lbs)
	3000	1500		STAR DELTA (SD)	DIRECT ON LINE (DOL)	E	P	XY	
100L	—	3	6.4	—	37.1	138 (5.43)	200 (7.87)	443 (17.46)	182 (402)
112M	—	4	8.4	18.5	58.9	148 (5.83)	235 (9.25)	487 (19.17)	190 (419)
132S	—	5.5	10.9	24.0	81.8	175 (6.89)	280 (11.02)	564 (22.20)	200 (442)
132M	—	7.5	14.9	32.8	111.8	175 (6.89)	280 (11.02)	587 (23.11)	208 (459)
160M	—	11	21.9	50.37	168.63	208 (8.19)	315 (12.40)	664 (26.15)	269 (594)
180M	22	—	40.9	114.52	368.1	248 (9.76)	316 (12.44)	734 (28.90)	357 (787)
200L	30	—	55.9	139.75	436.02	275 (10.83)	390 (15.35)	943 (37.13)	413 (911)
200L	37	—	68.7	171.75	535.86	275 (10.83)	390 (15.35)	943 (37.13)	433 (955)
225M	45	—	81.5	179.3	570.5	392 (15.43)	468 (18.43)	978 (38.51)	468 (1032)

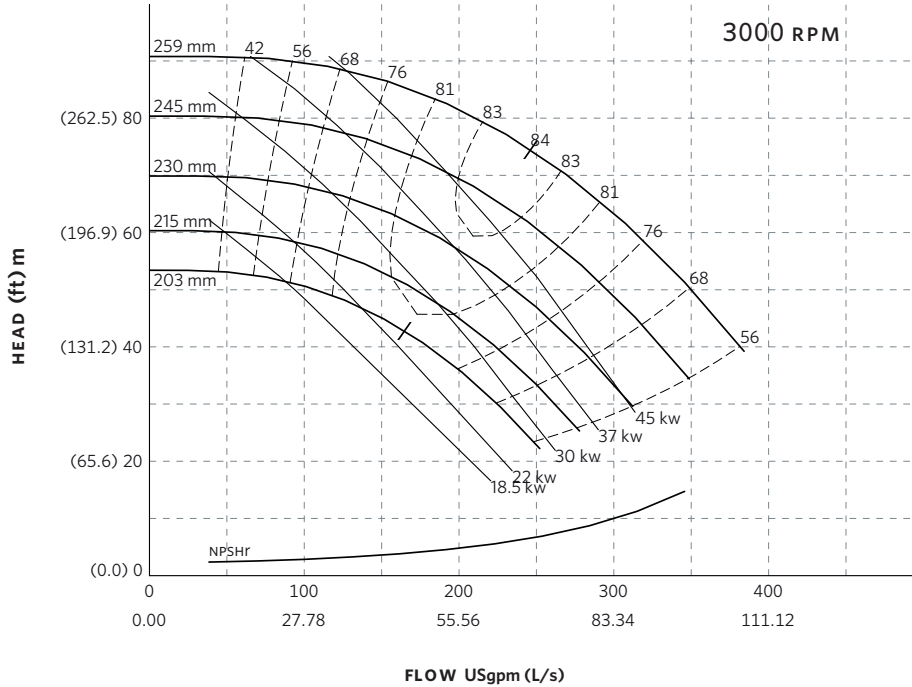
**PUMP DIMENSIONS**

mm (inches)

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



## SERIES 4380 PERFORMANCE CURVES



**Curve number**  
PT104-1-0-3000

**Series**  
4300  
4380

**Size**  
150-250A

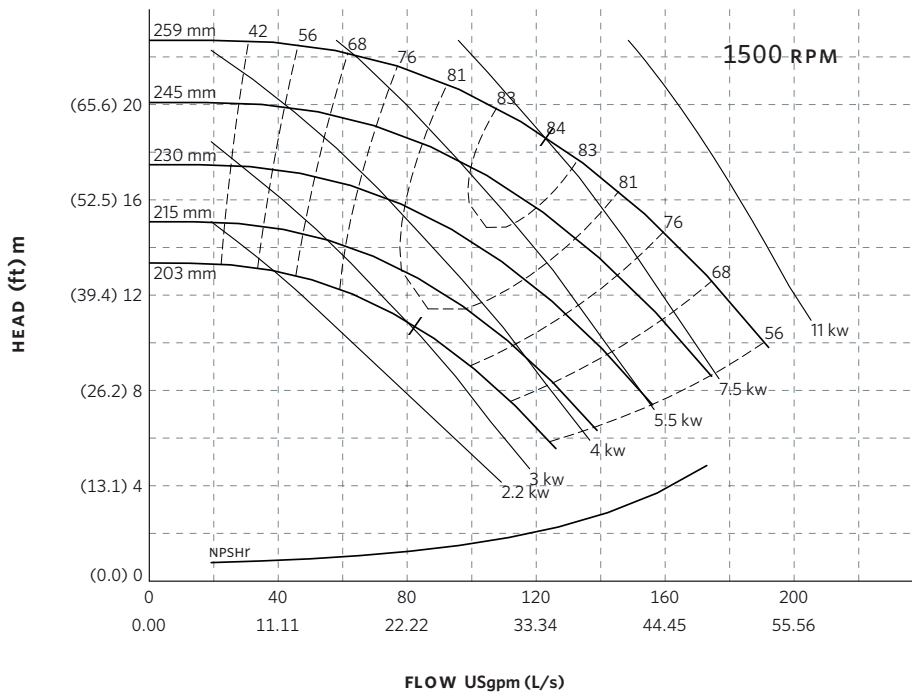
**RPM**  
3000

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**  
PT104-1-0-1500

**Series**  
4300  
4380

**Size**  
150-250A

**RPM**  
1500

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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