

## SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 8 × 8 × 8 | SUBMITTAL

File No: 40.595  
Date: OCTOBER 15, 2013  
Supersedes: 40.595  
Date: JULY 10, 2013

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) Flanged  
 Discharge: 8"(200mm) Flanged

### MATERIALS OF CONSTRUCTION

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

**Impeller:** Bronze  
**Gasket:** Confined non-asbestos fiber  
**Bearing frame:** Cast iron  
**Anti-friction bearings:** Permanently lubricated  
**Shaft:** Carbon steel  
**Shaft sleeve:** Stainless steel  
**Coupler:** Constant speed: Woods sure-flex or equal  
 Variable speed: Woods dura-flex or equal  
**Coupler guard:** Steel OSHA  
**Baseplate:** Fabricated steel

### MECHANICAL SEAL DATA

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

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 DESIGN DATA

HP: \_\_\_\_\_ RPM: \_\_\_\_\_ Frame size: \_\_\_\_\_ Enclosure: \_\_\_\_\_  
 Volts: \_\_\_\_\_ Hertz: 60 Hz Phase: 3  
 Efficiency\*:  NEMA premium 12.12     Other \_\_\_\_\_ %

\* Fractional power and frame 56 motors are supplied with the standard efficiency of the manufacturer.

### 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

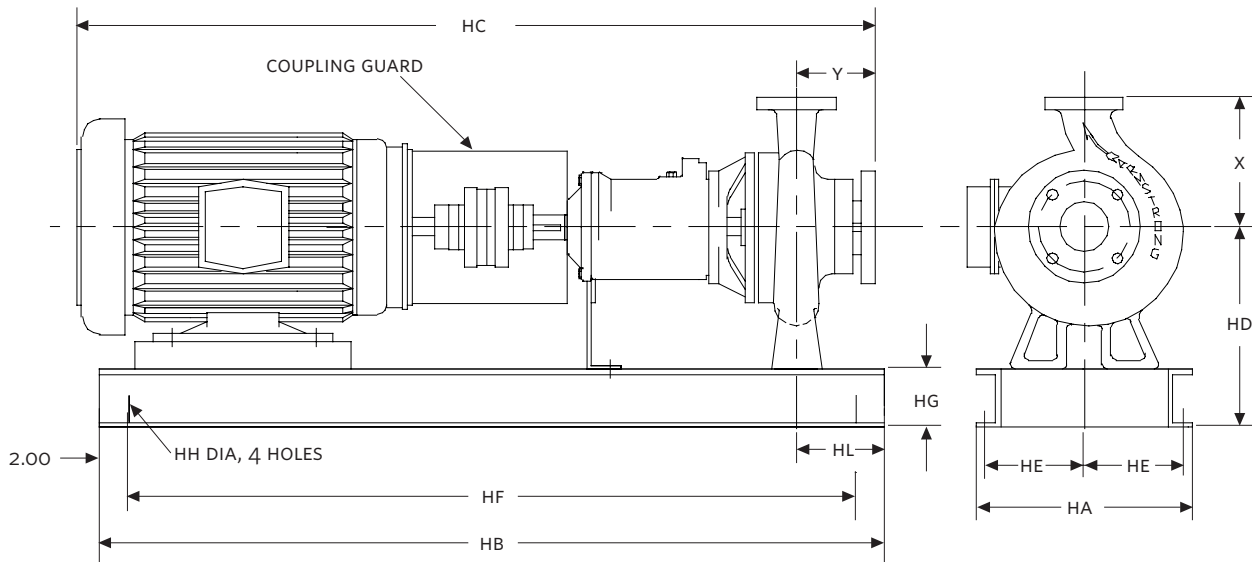
300 psig at 150°F (20 bars at 65°C)  
 250 psig at 250°F (17 bars at 121°C)

- 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

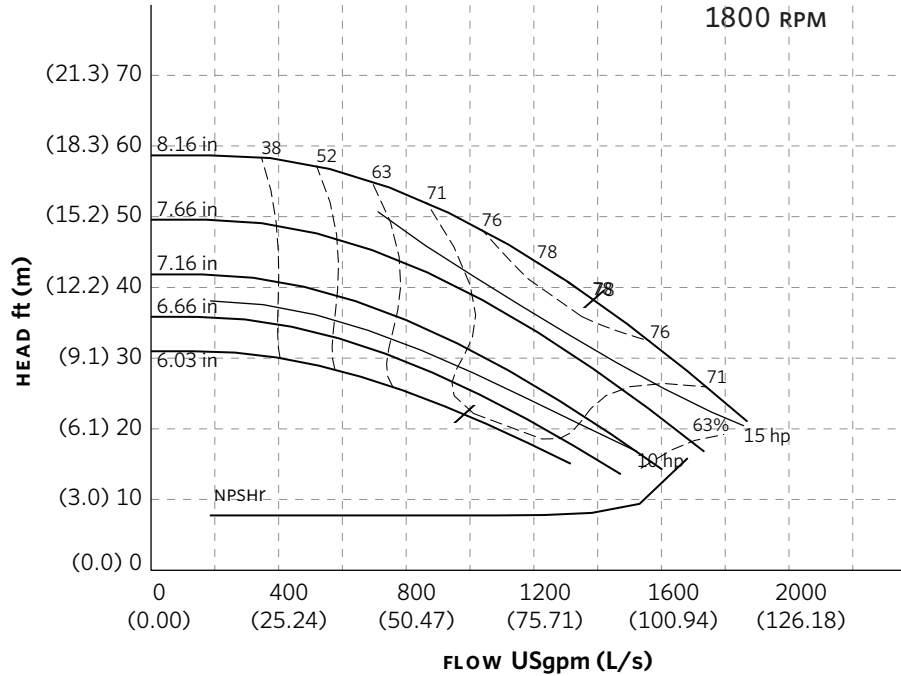
### OPTIONAL EQUIPMENT

MOTOR	HORSEPOWER @ RPM		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
FRAME	ODP/TEFC													
213TC	7.5	3	25.00 (635)	50.00 (1270)	43.61 (1108)	15.00 (381)	11.88 (302)	46.00 (1168)	4.00 (102)	0.75 (19)	7.50 (191)	16.00 (406)	7.00 (178)	525 (238.4)
215TC	10	5	25.00 (635)	50.00 (1270)	43.61 (1108)	15.00 (381)	11.88 (302)	46.00 (1168)	4.00 (102)	0.75 (19)	7.50 (191)	16.00 (406)	7.00 (178)	540 (245.2)
254TC	15	—	25.00 (635)	50.00 (1270)	49.56 (1259)	15.00 (381)	11.88 (302)	46.00 (1168)	4.00 (102)	0.75 (19)	7.50 (191)	16.00 (406)	7.00 (178)	610 (276.9)
256TC	20	—	25.00 (635)	50.00 (1270)	49.56 (1259)	15.00 (381)	11.88 (302)	46.00 (1168)	4.00 (102)	0.75 (19)	7.50 (191)	16.00 (406)	7.00 (178)	650 (295.1)

\*Assembly weight combines pump and motor.



**SERIES 4030 PERFORMANCE CURVES**



**Curve number**  
PT210-1-0-1800

**Series**  
4030  
4280

**Size**  
8 × 8 × 8

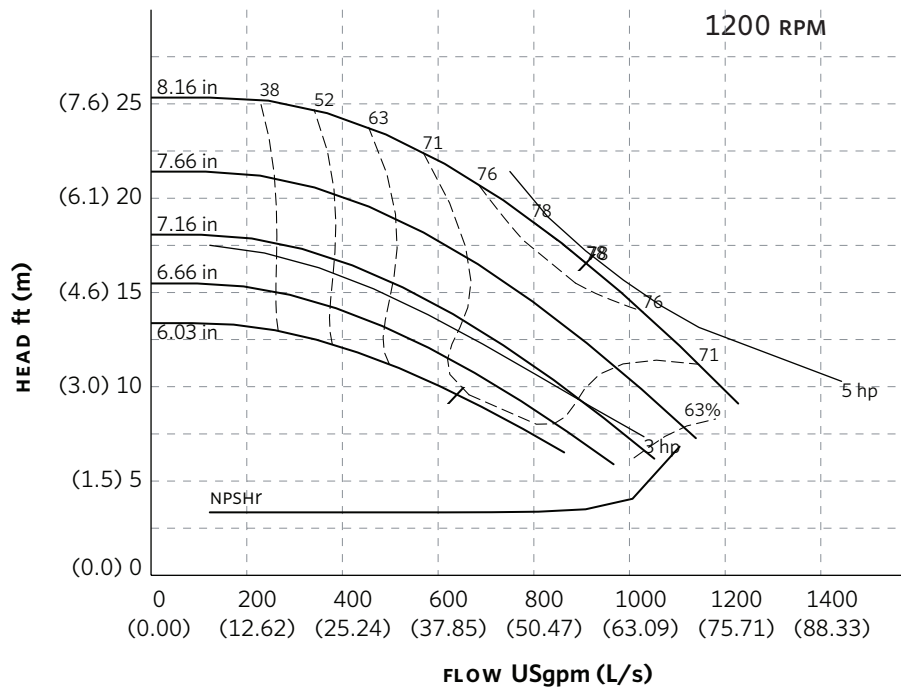
**RPM**  
1800

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4030 all ratings  
4280 all ratings.

Performance  
guaranteed only  
at operating point  
indicated.

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



**Curve number**  
PT210-1-0-1200

**Series**  
4030  
4280

**Size**  
8 × 8 × 8

**RPM**  
1200

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4030 all ratings  
4280 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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