

# SERIES 4302 | VERTICAL IN-LINE DUALARM SPLIT-COUPLED | 4 × 4 × 8 | SUBMITTAL

File No: 43D.515  
Date: DECEMBER 4, 2014  
Supersedes: 43D.515  
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:  NEMA premium 12.12  Other \_\_\_\_\_ %

### 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:** 416 stainless steel  
**Coupling:** High tensile aluminum  
**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**  
 250 psig at 150°F (17 bars at 65°C)  
 250 psig at 250°F (17 bars at 121°C)

- Coupling guard (not shown) is supplied
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions

### MECHANICAL SEAL DATA

See file no. 43.50 for standard mechanical seal details as indicated below.

ARMSTRONG SEAL REFERENCE NUMBER:

c1 (a) Other: \_\_\_\_\_

### OPTIONAL EQUIPMENT

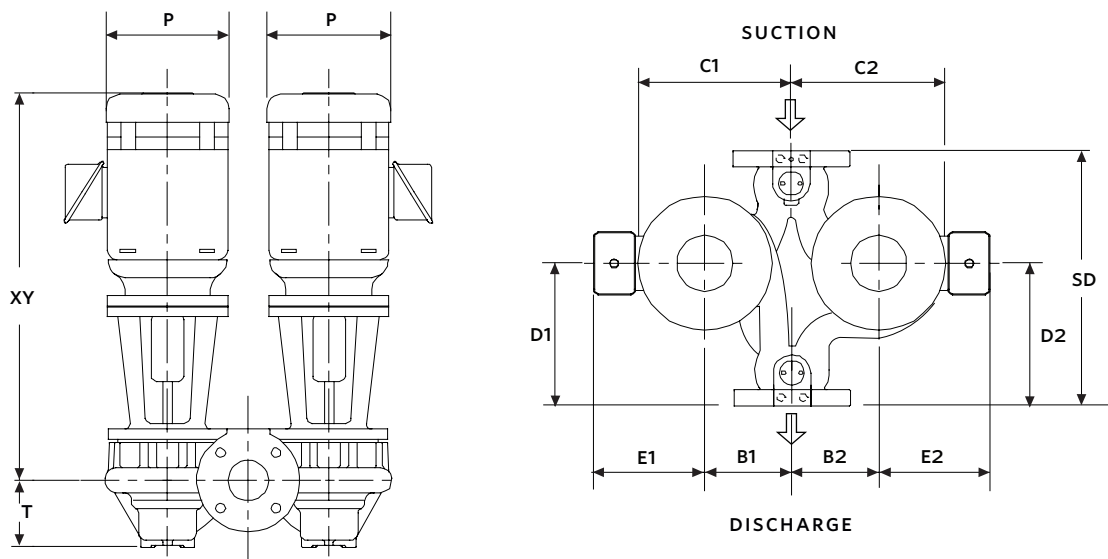
### SEAL DATA OPTIONS

MOTOR FRAME	HP @ RPM				MAX. DIMENSIONS inches (mm)								WEIGHT	
	3600		1800	1200	E1		E2		P		XY		lbs (kgs)	
	ODP	TEFC			ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC
145TC	—	—	—	1	4.12 (105)	6.09 (155)	4.12 (105)	6.09 (155)	8.63 (219)	7.28 (185)	22.03 (560)	20.53 (521)	484 (219.5)	498 (225.9)
182TC	—	—	—	1.5	6.84 (174)	7.50 (191)	6.84 (174)	7.50 (191)	10.38 (264)	9.56 (243)	26.54 (674)	26.42 (671)	486 (220.4)	502 (227.7)
182TC	—	—	3	—	6.84 (174)	7.50 (191)	6.84 (174)	7.50 (191)	10.38 (264)	9.56 (243)	26.54 (674)	26.42 (671)	526 (238.6)	588 (266.7)
184TC	—	—	5	—	6.84 (174)	7.50 (191)	6.84 (174)	7.50 (191)	10.38 (264)	9.56 (243)	26.54 (674)	26.42 (671)	550 (249.5)	606 (274.9)
184TC	—	—	—	2	6.84 (174)	7.50 (191)	6.84 (174)	7.50 (191)	10.38 (264)	9.56 (243)	26.54 (674)	26.42 (671)	522 (236.8)	576 (261.3)
213TC	—	—	7.5	—	7.59 (193)	8.25 (210)	7.59 (193)	8.25 (210)	12.13 (308)	11.25 (286)	28.04 (712)	29.16 (741)	620 (281.2)	720 (326.6)
254TC	20	—	—	—	9.94 (252)	8.90 (226)	9.94 (252)	8.90 (226)	13.38 (340)	13.38 (340)	34.02 (864)	34.10 (866)	820 (371.9)	—
254TC	25	—	—	—	9.94 (252)	8.90 (226)	9.94 (252)	8.90 (226)	13.38 (340)	13.38 (340)	34.02 (864)	34.10 (866)	930 (421.8)	—
256TC	—	20	—	—	9.94 (252)	8.90 (226)	9.94 (252)	8.90 (226)	13.38 (340)	13.38 (340)	34.02 (864)	34.10 (866)	—	1016 (460.8)
256TC	—	25	—	—	9.94 (252)	8.90 (226)	9.94 (252)	8.90 (226)	13.38 (340)	13.38 (340)	34.02 (864)	34.10 (866)	—	1120 (508.0)
284TSC	30	—	—	—	11.75 (298)	12.00 (305)	11.75 (298)	12.00 (305)	13.38 (340)	15.31 (389)	37.23 (946)	43.36 (1101)	1176 (533.4)	—
286TSC	—	30	—	—	11.75 (298)	12.00 (305)	11.75 (298)	12.00 (305)	13.38 (340)	15.31 (389)	37.23 (946)	43.36 (1101)	—	1286 (583.3)
286TSC	40	—	—	—	11.75 (298)	12.00 (305)	11.75 (298)	12.00 (305)	13.38 (340)	15.31 (389)	37.23 (946)	43.36 (1101)	1344 (609.6)	1552 (704.0)

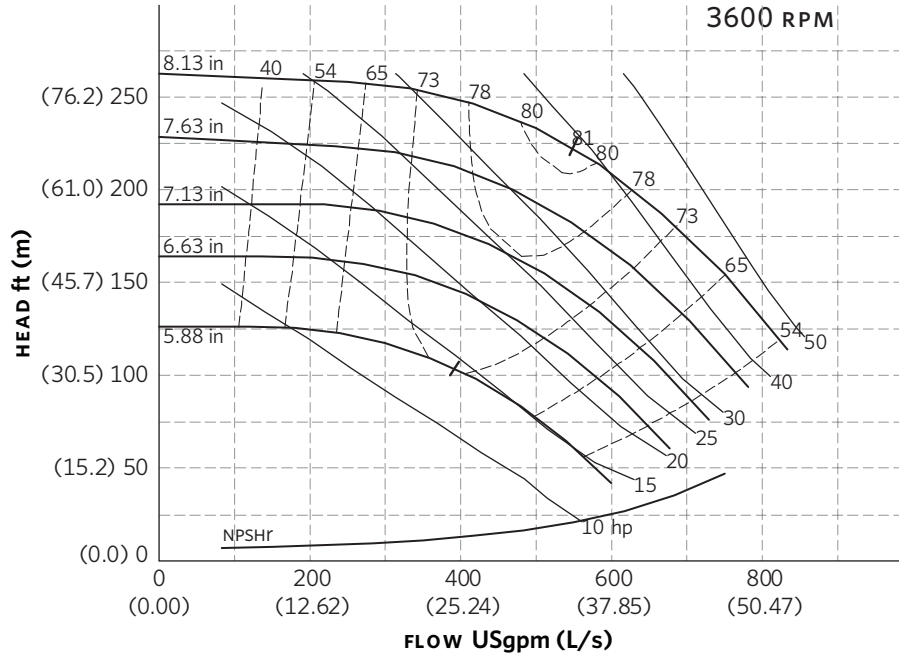
**PUMP DIMENSIONS**

inches (mm)

B1	B2	C1	C2	D1	D2	SD	T
8.75	8.75	15.09	15.63	14.84	14.84	27.63	6.28
(222)	(222)	(383)	(397)	(377)	(377)	(702)	(160)



SERIES 4302 PERFORMANCE CURVES



**Curve number**  
PT73-1-0-3600

**Series**  
4302  
4382

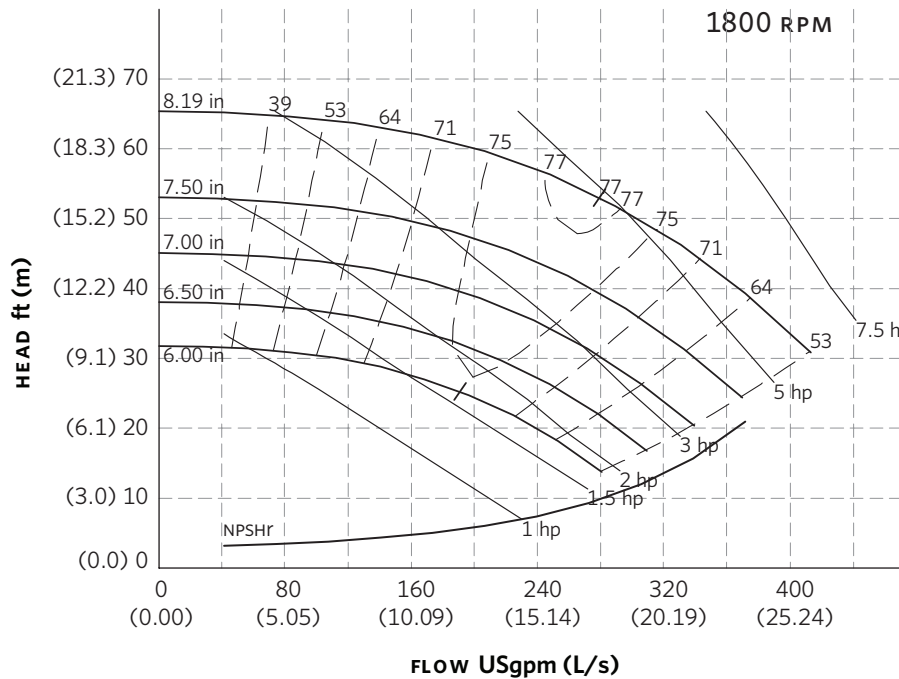
**Size**  
4 × 4 × 8

**RPM**  
3600

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4302 all ratings  
4382 all ratings

Performance  
guaranteed only  
at operating point  
indicated.  
Curve shown for  
clear, cold water  
- SP. GR. 1.0000



**Curve number**  
PT597-0-0-1740

**Series**  
4302  
4382

**Size**  
4 × 4 × 8

**RPM**  
1800

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4302 all ratings  
4382 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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