

# SERIES 4302 | VERTICAL IN-LINE DUALARM SPLIT-COUPLED | 3 × 3 × 8 | SUBMITTAL

File No: 43D.513  
Date: DECEMBER 4, 2014  
Supersedes: 43D.513  
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:  NEMA premium 12.12  Other \_\_\_\_\_ %

## MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
<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:** 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

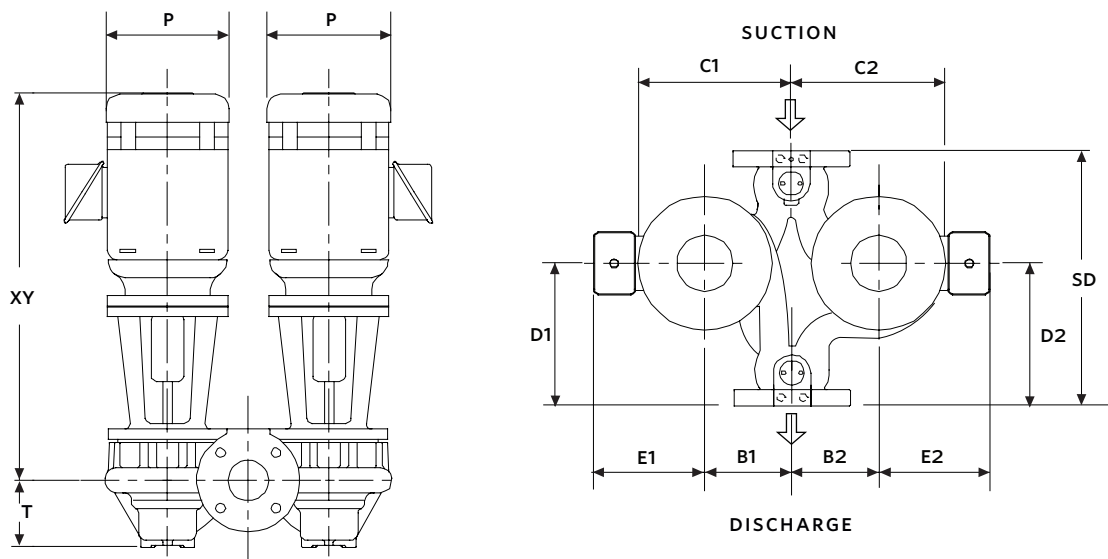
## SEAL DATA OPTIONS

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
143TC	—	—	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)	414 (187.8)	428 (194.1)
145TC	—	—	1.5 & 2.0	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)	416 (188.7)	432 (196.0)
182TC	—	—	3	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)	456 (206.8)	518 (235.0)
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)	480 (217.7)	536 (243.1)
215TC	15	10	—	—	7.59 (193)	8.25 (210)	7.59 (193)	8.25 (210)	12.13 (308)	11.25 (286)	28.02 (712)	29.14 (740)	600 (272.2)	666 (302.1)
254TC	20	15	—	—	9.94 (252)	8.90 (226)	9.94 (252)	8.90 (226)	13.38 (340)	13.38 (340)	34.02 (864)	34.08 (866)	750 (340.2)	880 (399.2)
256TC	25	20	—	—	9.94 (252)	8.90 (226)	9.94 (252)	8.90 (226)	13.38 (340)	13.38 (340)	34.02 (864)	34.08 (866)	860 (390.1)	946 (429.1)

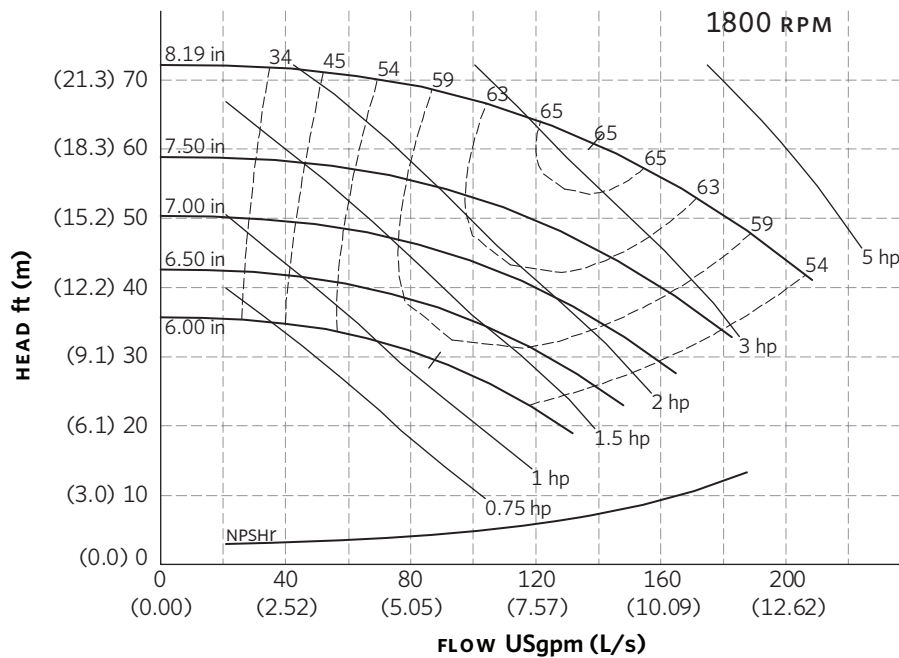
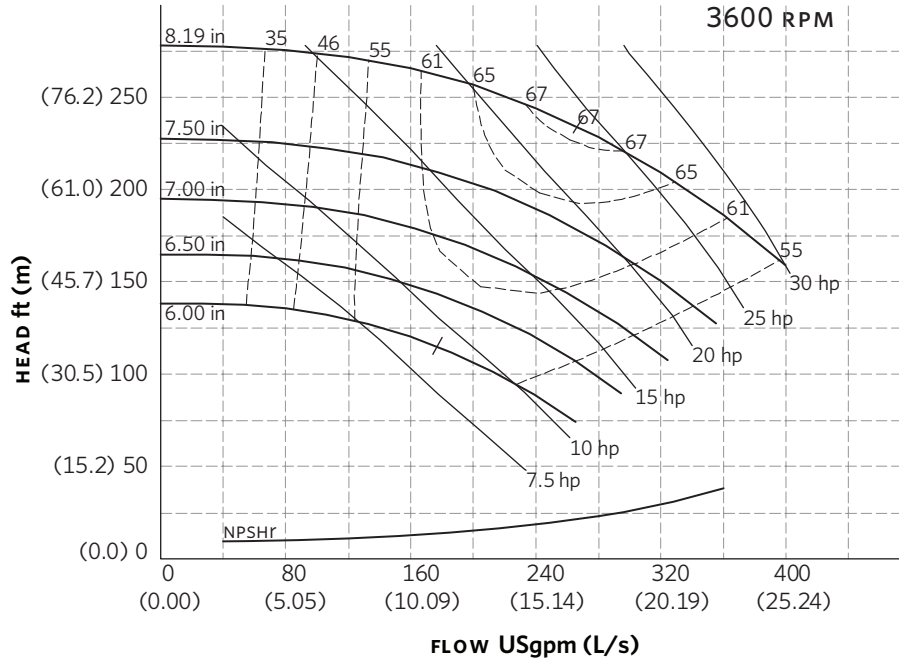
**PUMP DIMENSIONS**

inches (mm)

B1	B2	C1	C2	D1	D2	SD	T
7.00	7.00	12.50	12.63	10.69	10.69	19.06	5.08
(178)	(178)	(318)	(321)	(272)	(272)	(484)	(129)



SERIES 4302 PERFORMANCE CURVES



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

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