

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 1.5 × 1 × 6 | SUBMITTAL

File No: 40.50
Date: OCTOBER 15, 2013
Supersedes: 40.50
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: 1.5" (38mm) Flanged
Discharge: 1" (25mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

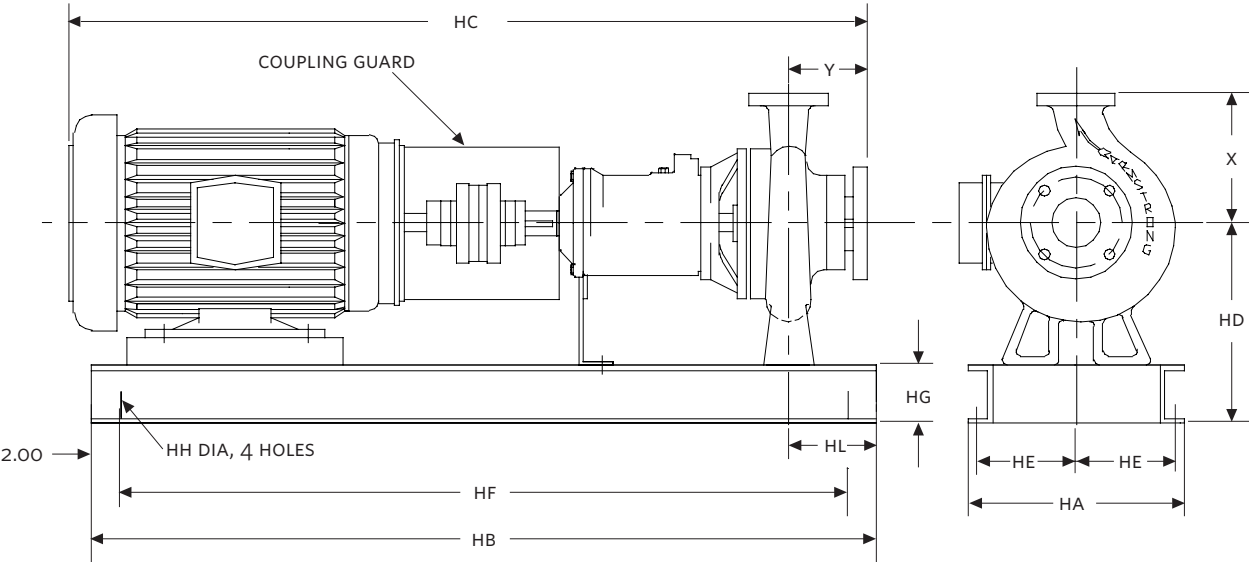
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

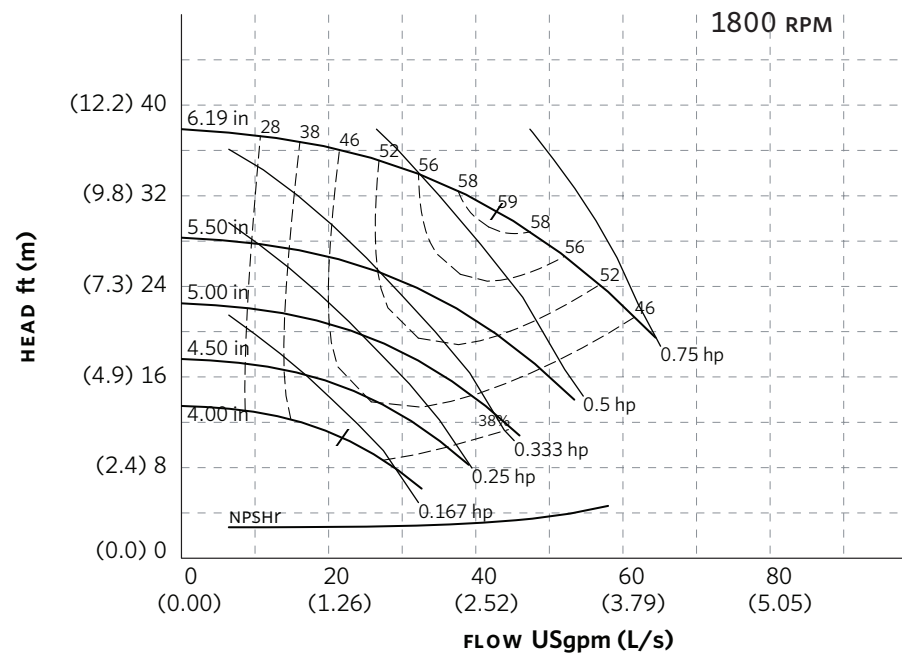
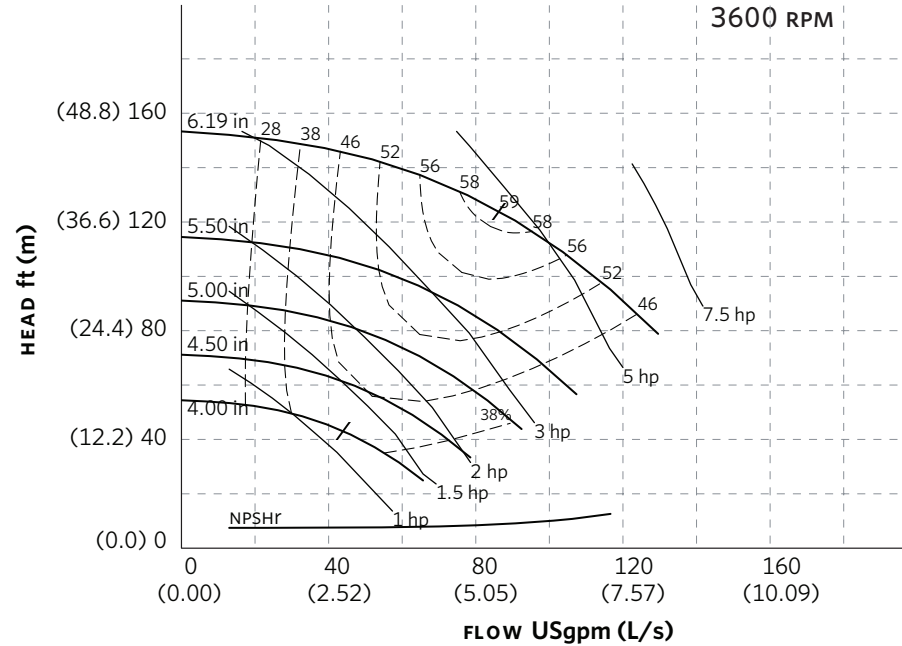
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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					MAX. DIMENSIONS INCHES (mm)										MAX. ASSEMBLY WEIGHT*	
FRAME	3600		1800		1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC	ODP	TEFC													
56C	1	1	0.33-0.75	0.33-0.75	0.33	14.00 (356)	30.00 (762)	26.38 (670)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	101 (45.9)
143TC	1.5	1.5	1	—	—	14.00 (356)	30.00 (762)	28.03 (712)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	111 (50.4)
145TC	2 & 3	2	—	—	—	14.00 (356)	30.00 (762)	28.03 (712)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	136 (61.7)
182TC	5	3	—	—	—	14.00 (356)	30.00 (762)	30.73 (781)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	136 (61.7)
184TC	7.5	5	—	—	—	14.00 (356)	30.00 (762)	30.73 (781)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	146 (66.3)
213TC	—	7.5	—	—	—	14.00 (356)	33.00 (838)	34.40 (874)	8.25 (210)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	181 (82.2)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 1.5 × 1 × 8 | SUBMITTAL

File No: 40.55
Date: OCTOBER 15, 2013
Supersedes: 40.55
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: 1.5" (38mm) Flanged
Discharge: 1" (25mm) Tapped

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

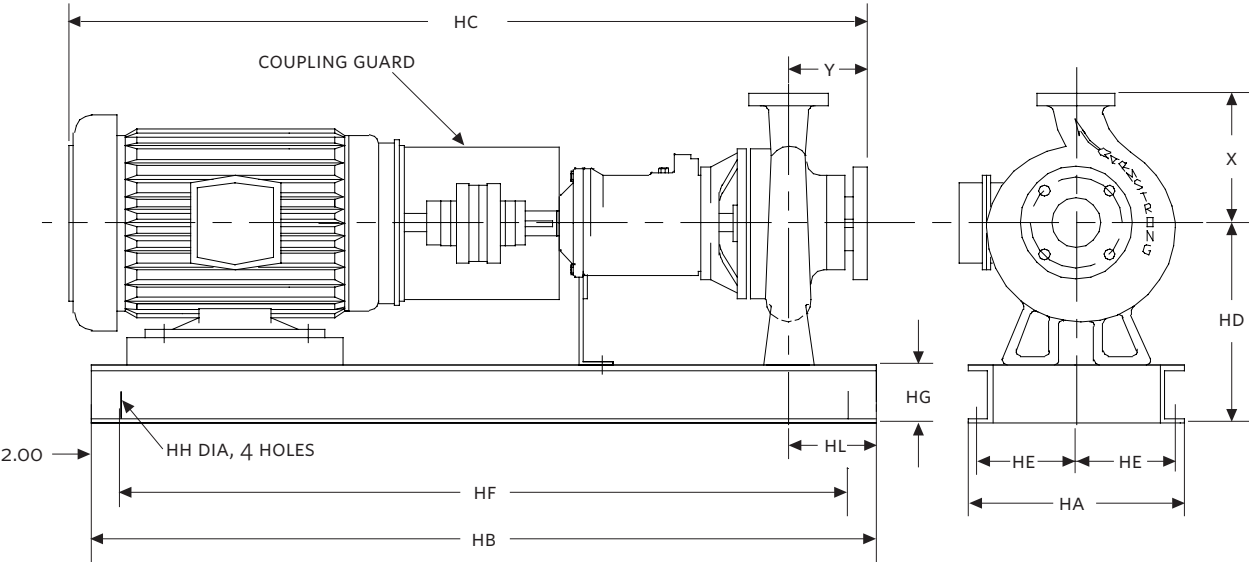
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

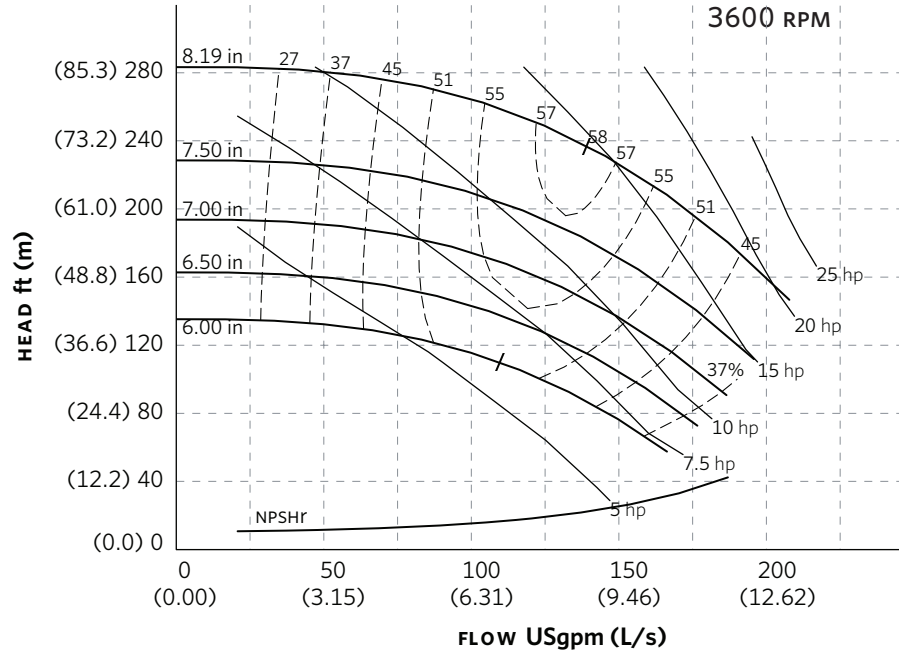
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC														
56C	—	—	0.75	0.33 & 0.5	14.00 (356)	30.00 (762)	26.40 (671)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	130 (59.0)
143TC	—	—	1	0.75	14.00 (356)	30.00 (762)	28.05 (713)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	138 (62.7)
145TC	—	—	1.5 & 2	—	14.00 (356)	30.00 (762)	28.05 (713)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	138 (62.7)
182TC	5	—	3	—	14.00 (356)	30.00 (762)	30.74 (781)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	163 (74.0)
184TC	7.5	5	—	—	14.00 (356)	30.00 (762)	30.74 (781)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	173 (78.5)
213TC	10	7.5	—	—	14.00 (356)	33.00 (838)	34.42 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	208 (94.4)
215TC	15	10	—	—	14.00 (356)	33.00 (838)	34.42 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	223 (101.2)
254TC	20	15	—	—	16.00 (406)	40.00 (1016)	40.40 (1026)	9.25 (235)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	293 (133.0)
256TC	—	20	—	—	16.00 (406)	40.00 (1016)	40.40 (1026)	9.25 (235)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	313 (142.1)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT18-1-0-3600

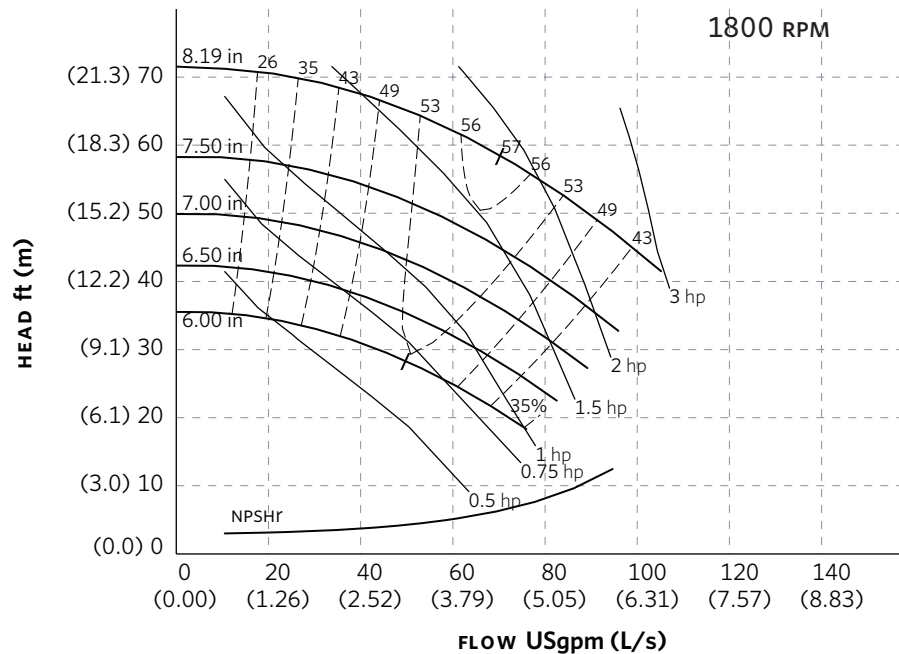
Series
4030
4280

Size
1.5 x 1 x 8

RPM
3600

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
PT17-1-0-1800

Series
4030
4280

Size
1.5 x 1 x 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

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 2 × 1 × 10 | SUBMITTAL

File No: 40.60
Date: OCTOBER 15, 2013
Supersedes: 40.60
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: 2"(50mm) Flanged**
Discharge: 1"(25mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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.

** Suction connection on ANSI 250 units will be Lugged.

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)

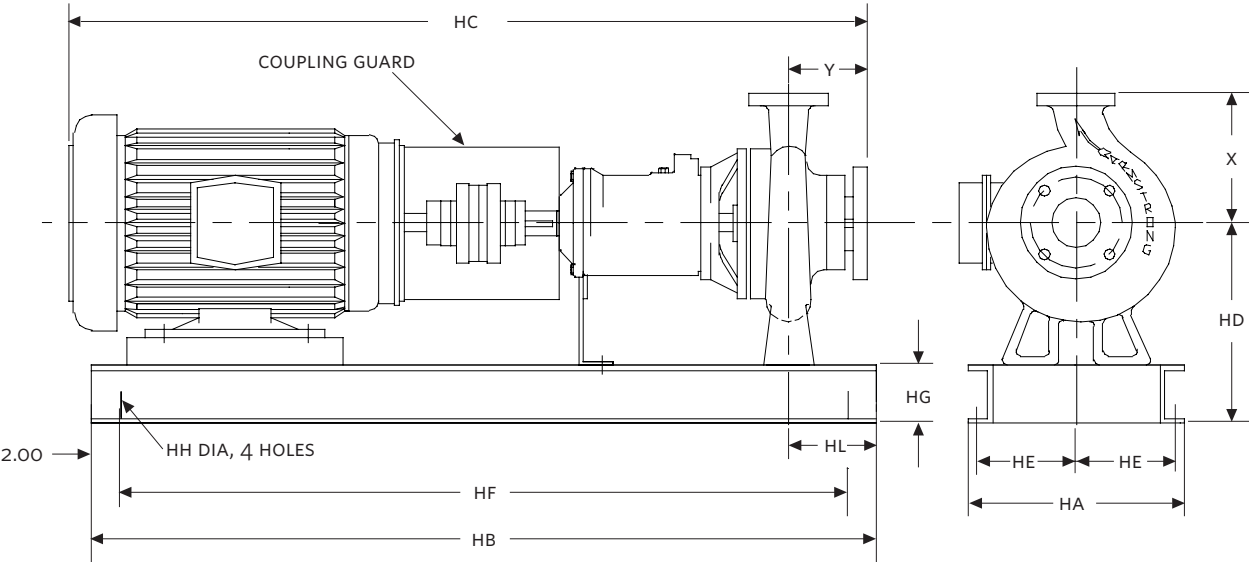
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

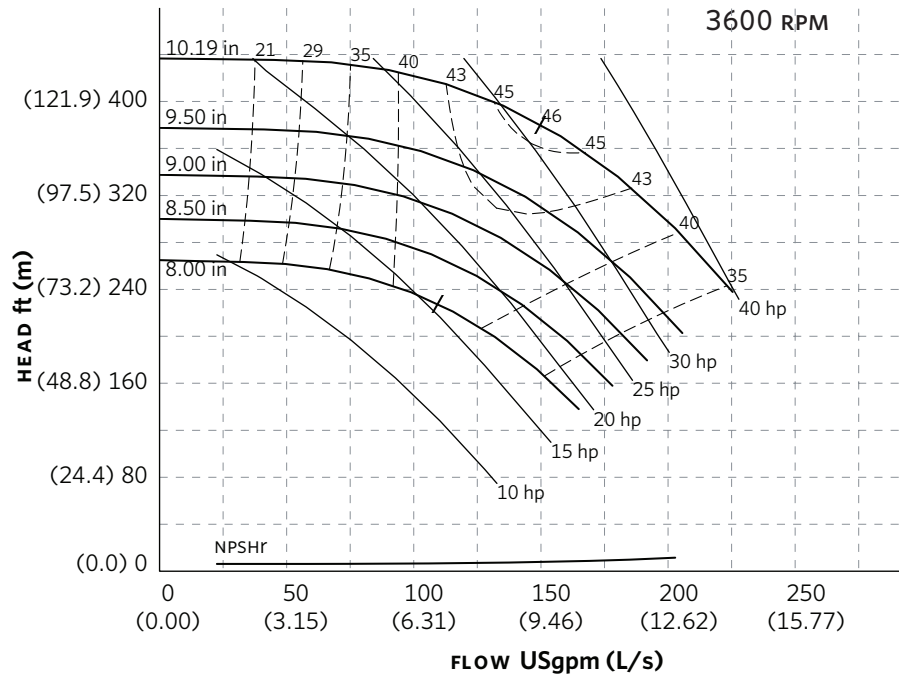
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
FRAME	ODP	TEFC														
56C	—	—	—	0.5	14.00 (356)	30.00 (762)	25.90 (658)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	154 (69.9)
143TC	—	—	—	0.75	14.00 (356)	30.00 (762)	27.55 (700)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	164 (74.5)
145TC	—	—	1.5 & 2	1	14.00 (356)	30.00 (762)	27.55 (700)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	164 (74.5)
182TC	—	—	3	1.5	14.00 (356)	30.00 (762)	30.24 (768)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	193 (87.6)
184TC	—	—	5	—	14.00 (356)	30.00 (762)	30.24 (768)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	199 (90.3)
213TC	10	—	—	—	14.00 (356)	33.00 (838)	33.92 (862)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	219 (99.4)
215TC	15	10	—	—	14.00 (356)	33.00 (838)	33.92 (862)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	249 (113.0)
254TC	20	15	—	—	16.00 (406)	45.00 (1143)	43.53 (1106)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	369 (167.5)
256TC	25	20	—	—	16.00 (406)	45.00 (1143)	43.53 (1106)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	409 (185.7)
284TSC	30	25	—	—	19.00 (483)	48.00 (1219)	45.03 (1144)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	429 (194.8)
286TSC	40	30	—	—	19.00 (483)	48.00 (1219)	45.03 (1144)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	479 (217.5)
324TSC	—	40	—	—	19.00 (483)	48.00 (1219)	47.94 (1218)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	709 (321.9)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT34-2-0-3600

Series
4030
4280

Size
2 × 1 × 10

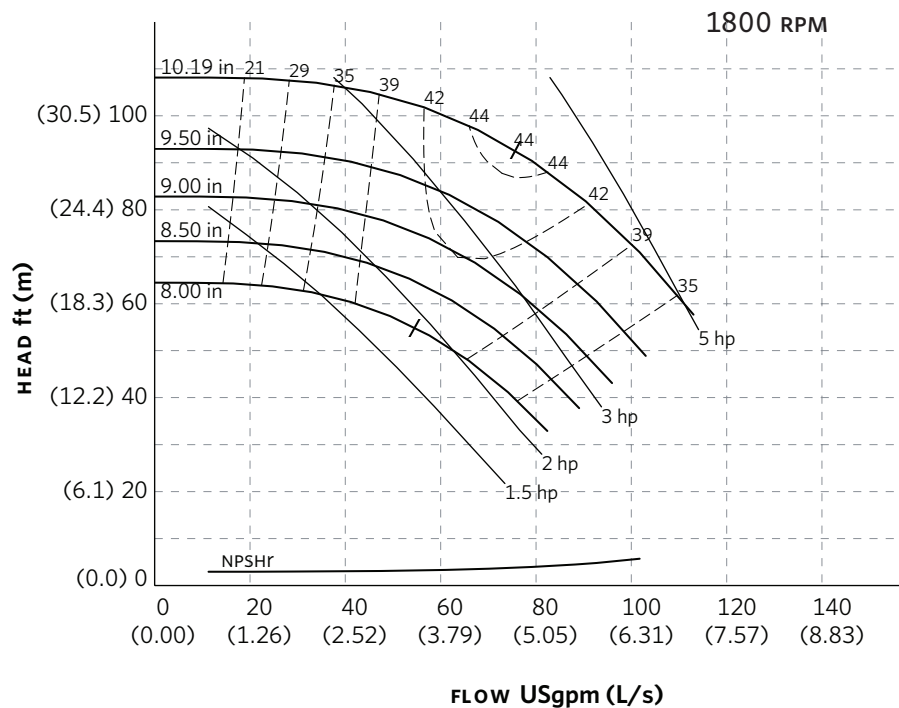
RPM
3600

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
PT33-2-0-1800

Series
4030
4280

Size
2 × 1 × 10

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

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 1.5 × 6 | SUBMITTAL

File No: 40.51
Date: OCTOBER 15, 2013
Supersedes: 40.51
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: 3" (75mm) Flanged
Discharge: 1.5" (38mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

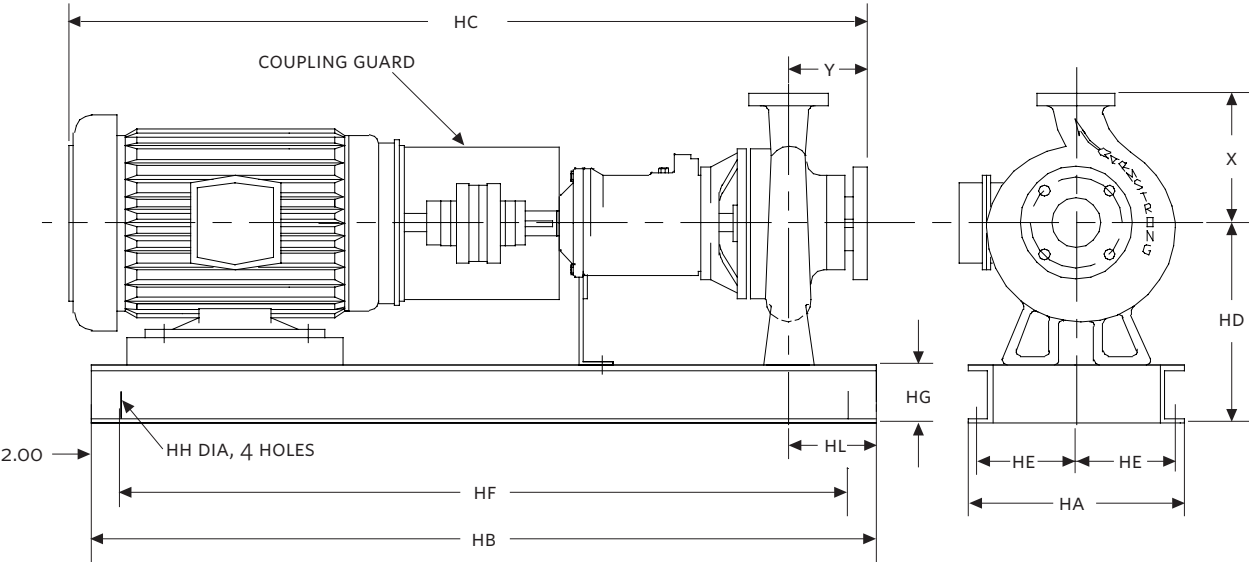
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

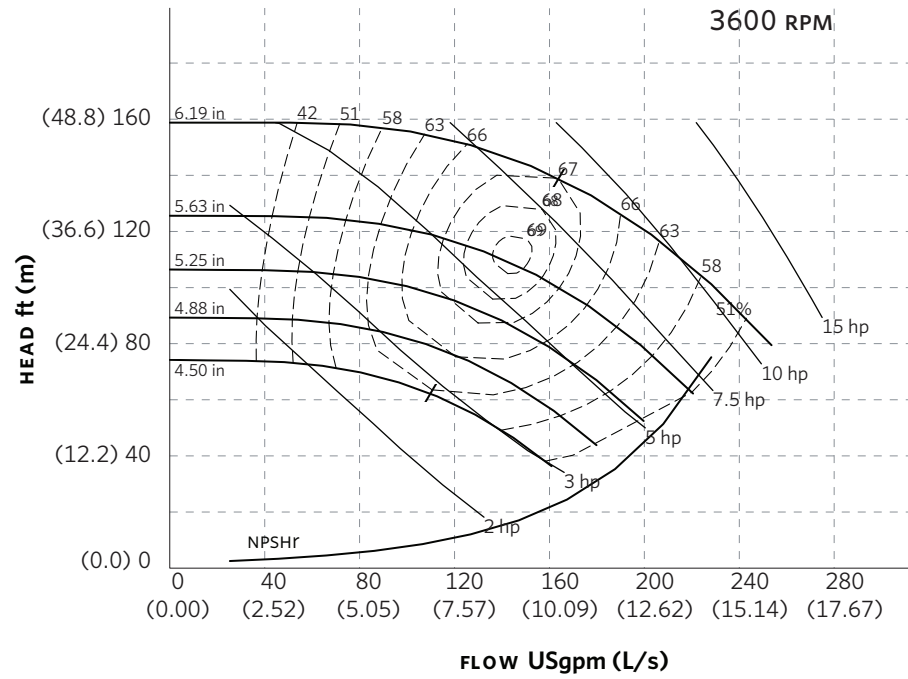
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC														
56C	—	—	0.33-0.75	0.33	14.00 (356)	30.00 (762)	26.38 (670)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	109 (49.5)
143TC	—	—	1	1	14.00 (356)	30.00 (762)	28.03 (712)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	117 (53.1)
145TC	3	—	1.5	—	14.00 (356)	30.00 (762)	28.03 (712)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	117 (53.1)
182TC	5	3	—	—	14.00 (356)	30.00 (762)	30.73 (781)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	142 (64.5)
184TC	7.5	5	—	—	14.00 (356)	30.00 (762)	30.73 (781)	8.25 (210)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	152 (69.0)
213TC	10	7.5	—	—	14.00 (356)	33.00 (838)	34.40 (874)	8.25 (210)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	187 (84.9)
215TC	—	10	—	—	14.00 (356)	33.00 (838)	34.40 (874)	8.25 (210)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	6.50 (165)	4.00 (102)	202 (91.7)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT49-3-0-3600

Series
4030
4280

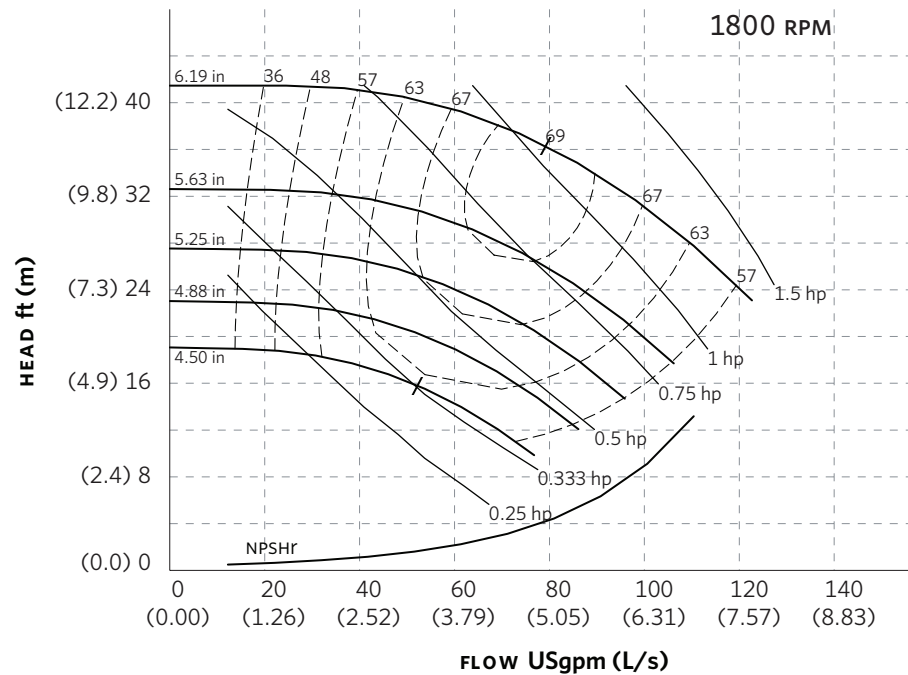
Size
3 × 1.5 × 6

RPM
3600

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
PT48-3-0-1800

Series
4030
4280

Size
3 × 1.5 × 6

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4030 all ratings
4280 FR 143 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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201401
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ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM

MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 1.5 × 8 | SUBMITTAL

File No: 40.56
Date: OCTOBER 15, 2013
Supersedes: 40.56
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: 3" (75mm) Flanged
Discharge: 1.5" (38mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

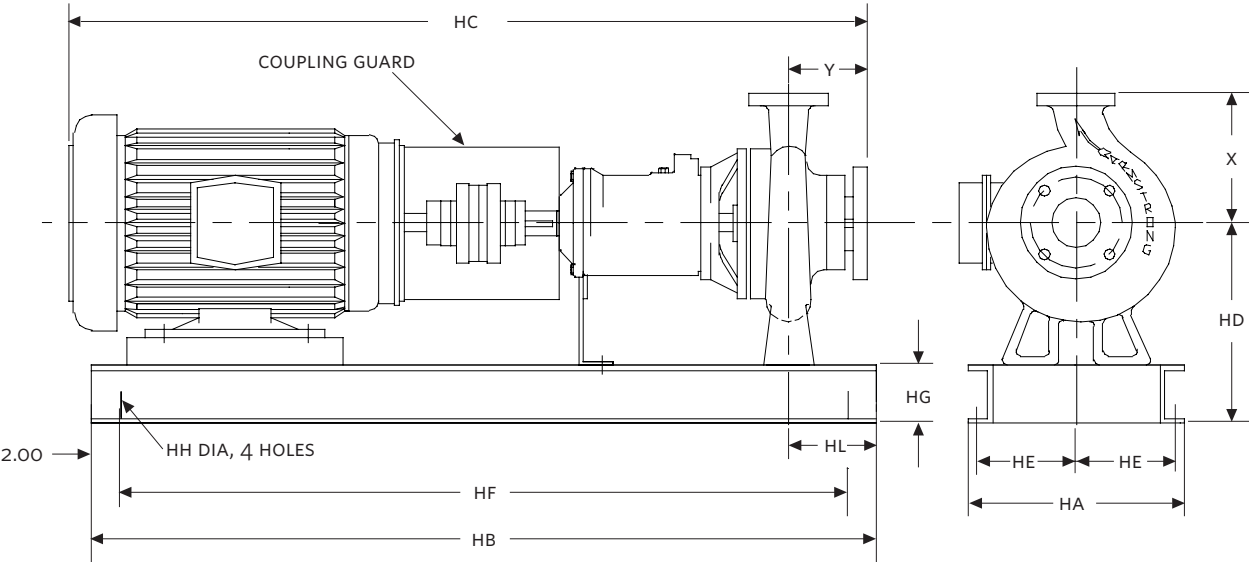
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

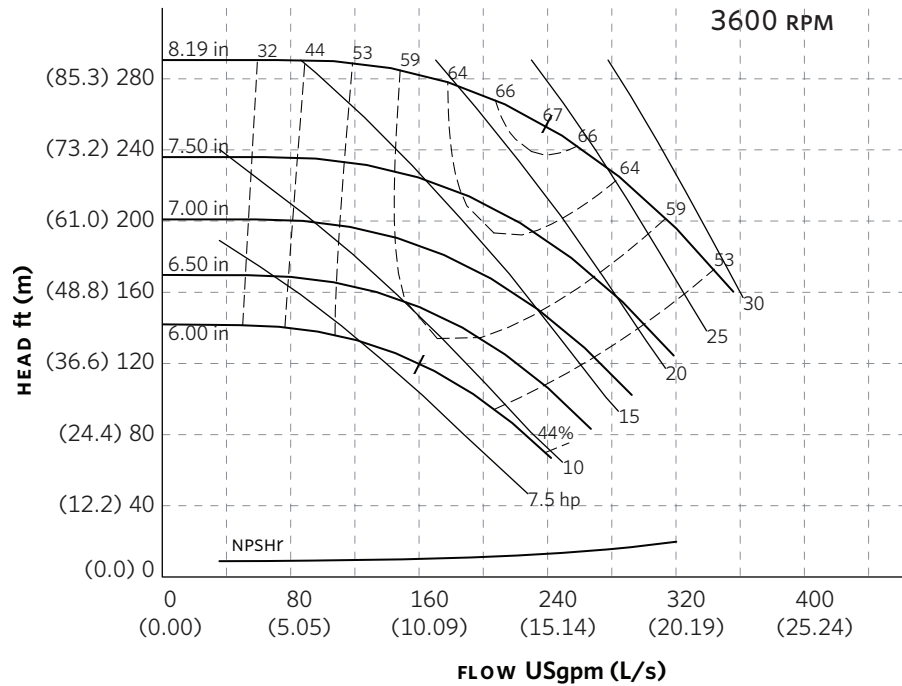
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
56C	—	—	—	0.33 & 0.5	14.00 (356)	30.00 (762)	26.38 (670)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	132 (59.9)	132 (59.9)
143TC	—	—	1	0.75	14.00 (356)	30.00 (762)	28.03 (712)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	137 (62.1)	142 (64.4)
145TC	—	—	1.5 & 2	1	14.00 (356)	30.00 (762)	28.03 (712)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	142 (64.4)	142 (64.4)
182TC	—	—	3	—	14.00 (356)	30.00 (762)	30.72 (780)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	157 (71.2)	167 (75.7)
184TC	7.5	—	5	—	14.00 (356)	30.00 (762)	30.72 (780)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	167 (75.7)	177 (80.3)
213TC	10	7.5	—	—	14.00 (356)	33.00 (838)	34.40 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	167 (75.7)	212 (96.2)
215TC	15	10	—	—	14.00 (356)	33.00 (838)	34.40 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	197 (89.4)	227 (103.0)
254TC	20	15	—	—	16.00 (406)	40.00 (1016)	40.38 (1026)	9.25 (235)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	207 (93.9)	297 (134.7)
256TC	25	20	—	—	16.00 (406)	40.00 (1016)	40.38 (1026)	9.25 (235)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	257 (116.6)	317 (143.8)
284TSC	30	25	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	317 (143.8)	387 (175.5)
286TSC	—	30	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	387 (175.5)	457 (207.3)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT51-2-0-3600

Series
4030
4280

Size
3 × 1.5 × 8

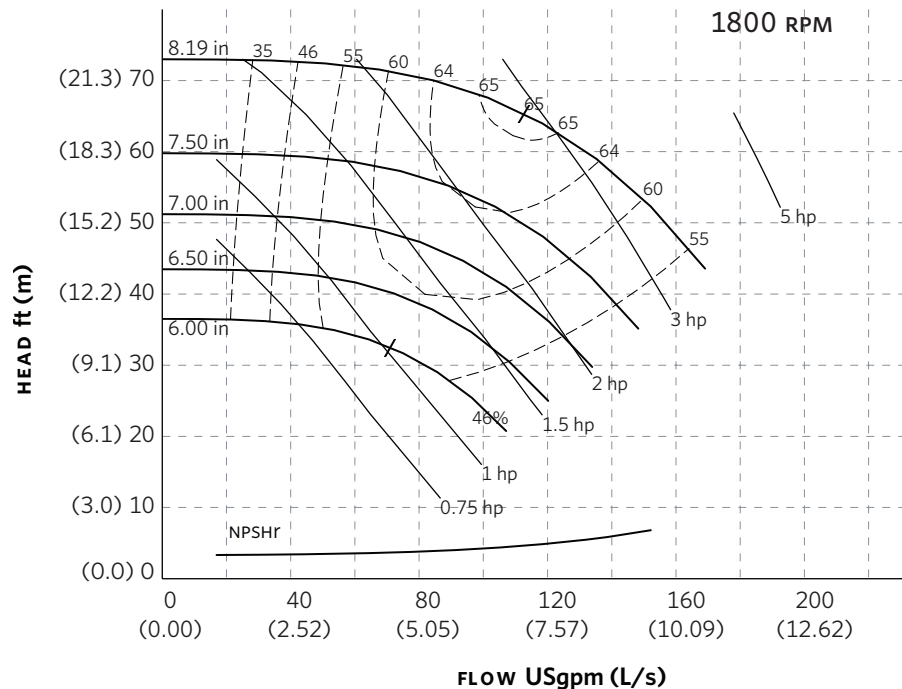
RPM
3600

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
PT50-2-0-1800

Series
4030
4280

Size
3 × 1.5 × 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

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

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MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 1.5 × 10 | SUBMITTAL

File No: 40.61
Date: OCTOBER 15, 2013
Supersedes: 40.61
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: 3"(75mm) Flanged
Discharge: 1.5"(38mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

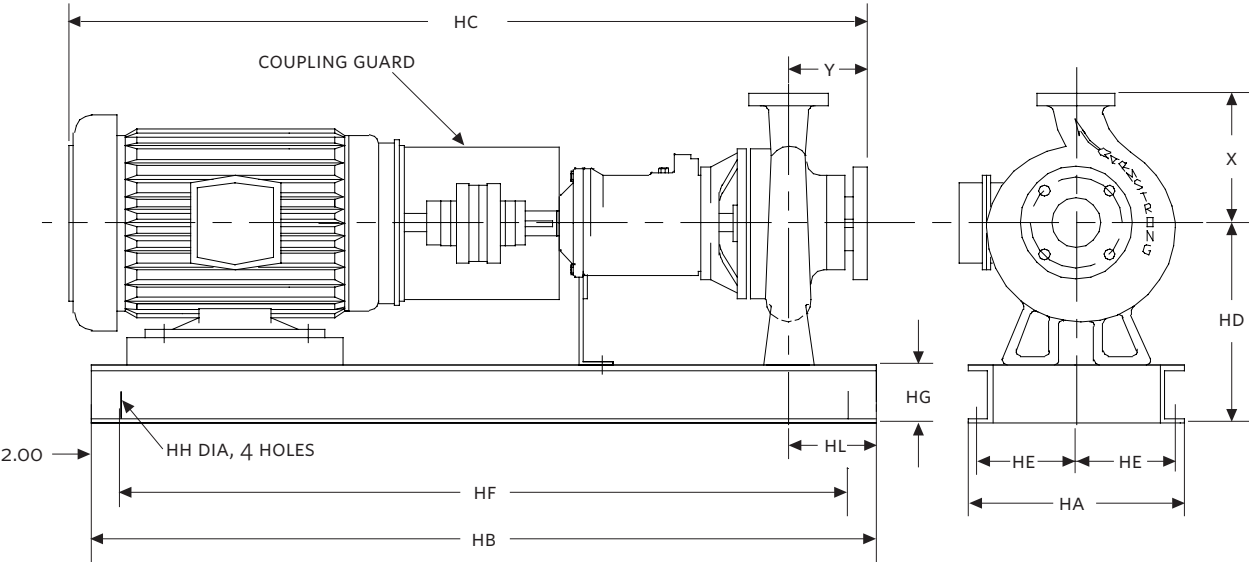
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

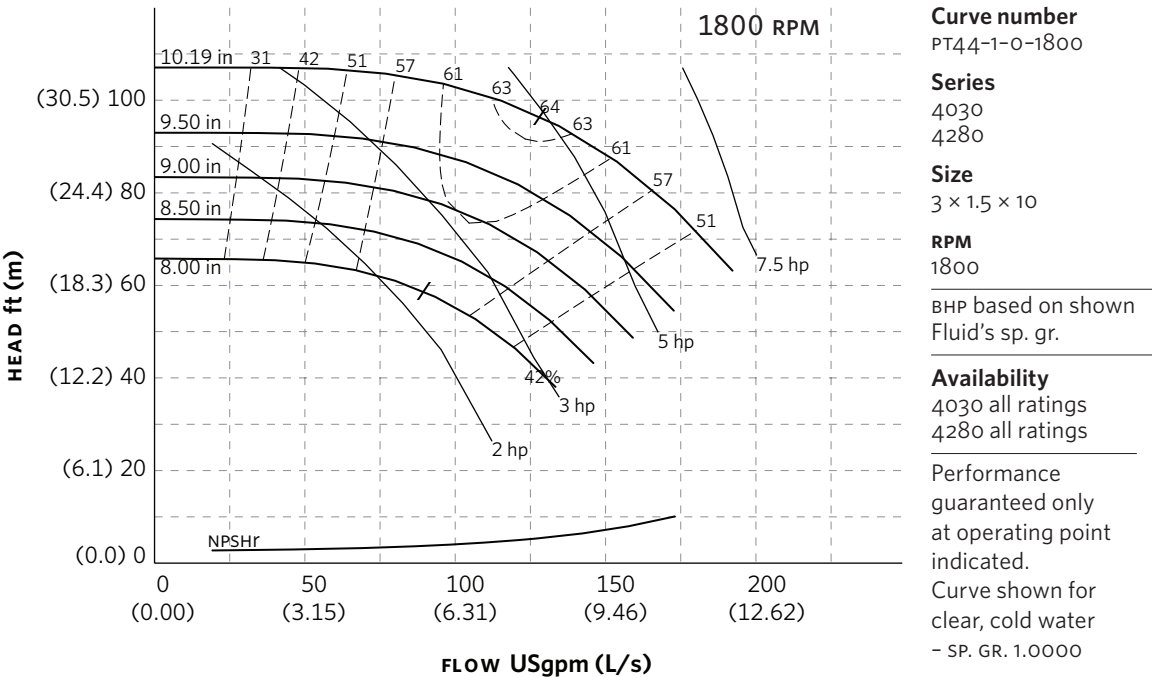
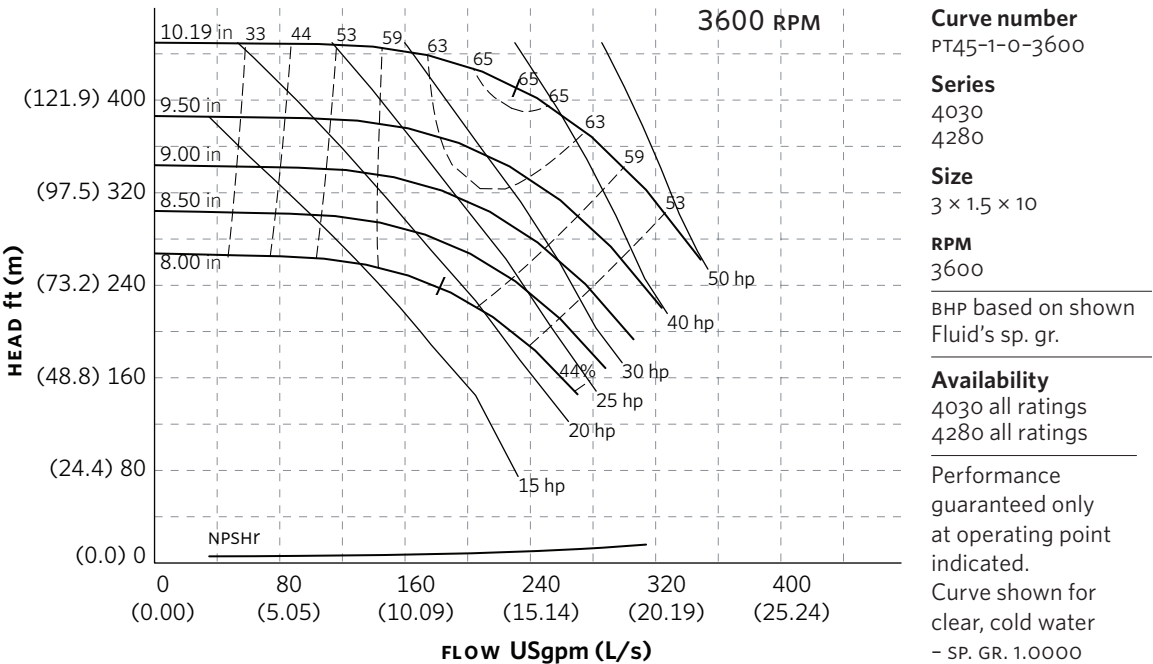
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	3600			1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC															ODP	TEFC
143TC	—	—	—	0.75		14.00 (356)	30.00 (762)	27.5 (699)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	165 (74.8)	170 (77.1)
145TC	—	—	2	1		14.00 (356)	30.00 (762)	27.5 (699)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	170 (77.1)	170 (77.1)
182TC	—	—	3	1.5		14.00 (356)	30.00 (762)	30.21 (767)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	185 (83.9)	199 (90.3)
184TC	—	—	5	2		14.00 (356)	30.00 (762)	30.21 (767)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	195 (88.5)	209 (94.8)
213TC	—	—	7.5	—		14.00 (356)	33.00 (838)	33.89 (861)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	225 (102.1)	240 (108.9)
215TC	15	—	—	—		14.00 (356)	33.00 (838)	33.89 (861)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	235 (106.6)	—
254TC	20	15	—	—		16.00 (406)	45.00 (1143)	43.50 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	335 (152.0)	375 (170.1)
256TC	25	20	—	—		16.00 (406)	45.00 (1143)	43.50 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	345 (156.5)	395 (179.2)
284TSC	30	25	—	—		19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	395 (179.2)	415 (188.2)
286TSC	40	30	—	—		19.00 (483)	48.00 (1219)	45.41 (1153)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	475 (215.5)	485 (220.0)
324TSC	50	40	—	—		19.00 (483)	48.00 (1219)	47.19 (1199)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	570 (258.5)	715 (324.3)
326TSC	—	50	—	—		19.00 (483)	48.00 (1219)	47.19 (1199)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.50 (216)	4.00 (102)	—	795 (360.6)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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

TORONTO

23 BERTRAND AVENUE
TORONTO, ONTARIO
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201401
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ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

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MAKING
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SENSE™

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 1.5 × 13 | SUBMITTAL

File No: 40.72
Date: OCTOBER 15, 2013
Supersedes: 40.72
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: 3" (75mm) Lugged
Discharge: 1.5" (38mm) Tapped

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

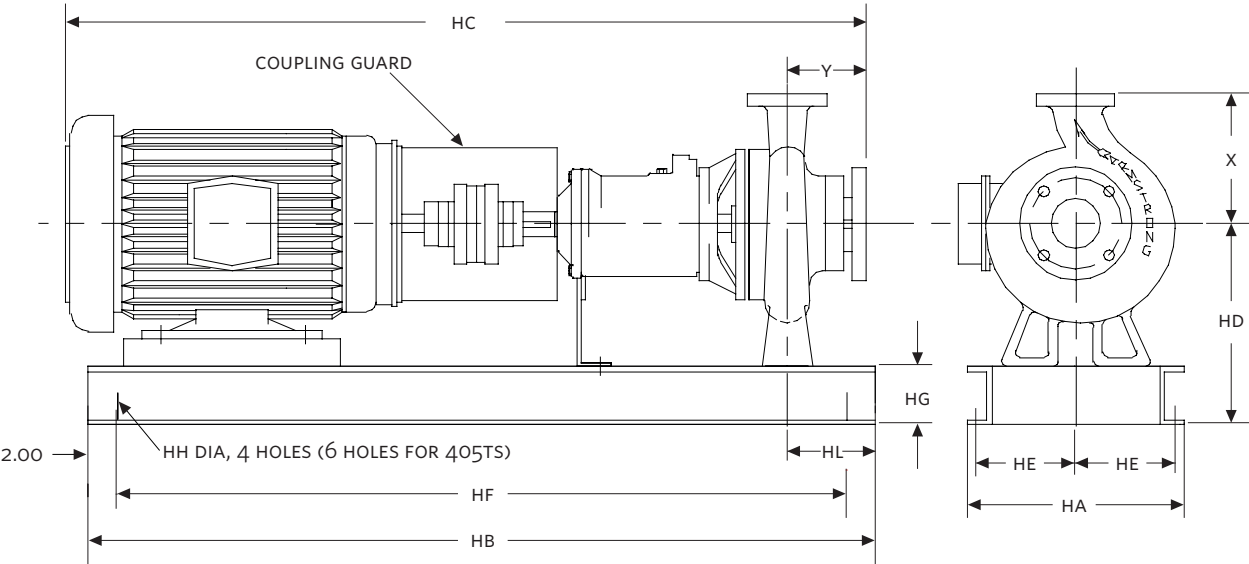
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

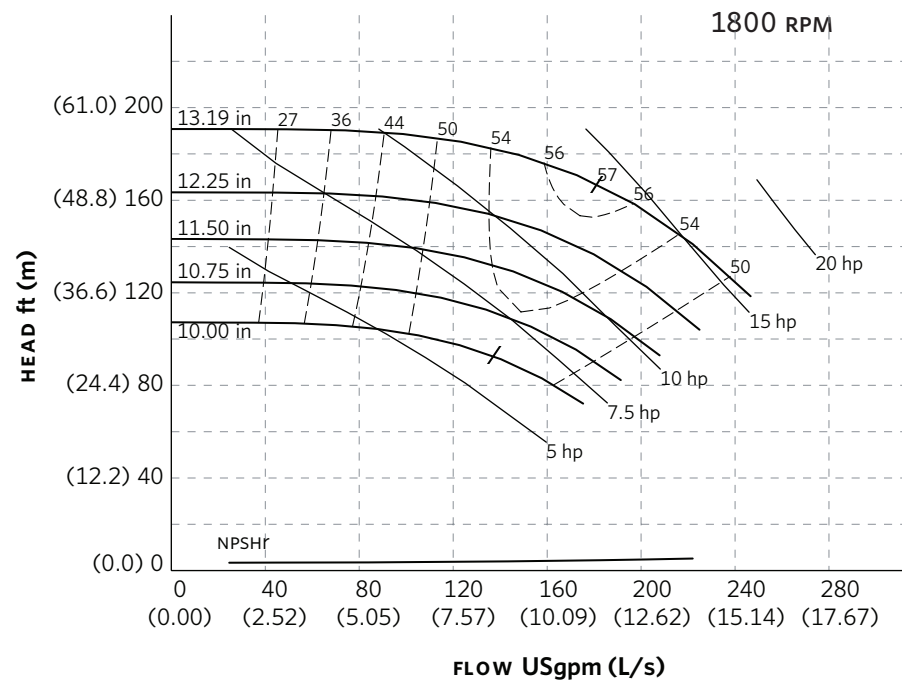
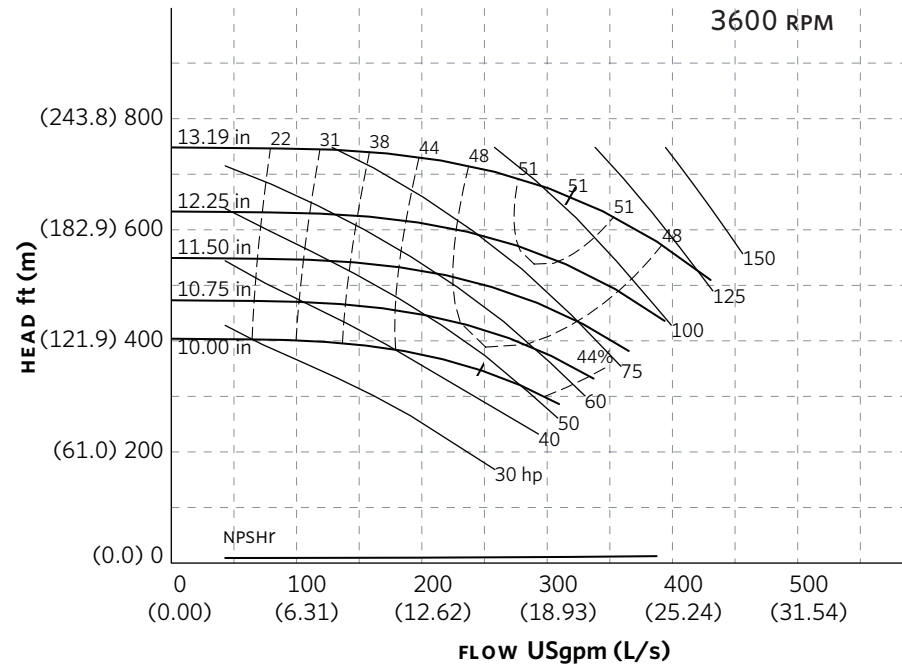
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF**	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC														
213TC	—	—	7.5	3	16.00 (406)	45.00 (1143)	37.55 (954)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	340 (154.4)
215TC	—	—	10	5	16.00 (406)	45.00 (1143)	37.55 (954)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	355 (161.2)
254TC	—	—	15	—	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	425 (193.0)
256TC	—	—	20	—	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	465 (211.1)
286TSC†	40	—	—	—	19.00 (483)	48.00 (1219)	45.01 (1143)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	525 (238.4)
324TSC†	50	40	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	765 (347.3)
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	845 (383.6)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	955 (433.6)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	1360 (617.4)
405TSC**†	—	100	—	—	19.00 (483)	58.00 (1473)	53.49 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	10.50 (267)	4.00 (102)	1415 (642.4)

*Assembly weight combines pump and motor.
†Re-greasable ball bearings on pumps for frame sizes indicated.
**4030 3 × 1.5 × 13 405TS are supplied with a 6-hole (equidistant on HF) base.



SERIES 4030 PERFORMANCE CURVES



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

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2.5 × 6 | SUBMITTAL

File No: 40.53
Date: OCTOBER 15, 2013
Supersedes: 40.53
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: 3" (75mm) Flanged
Discharge: 2.5" (62mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

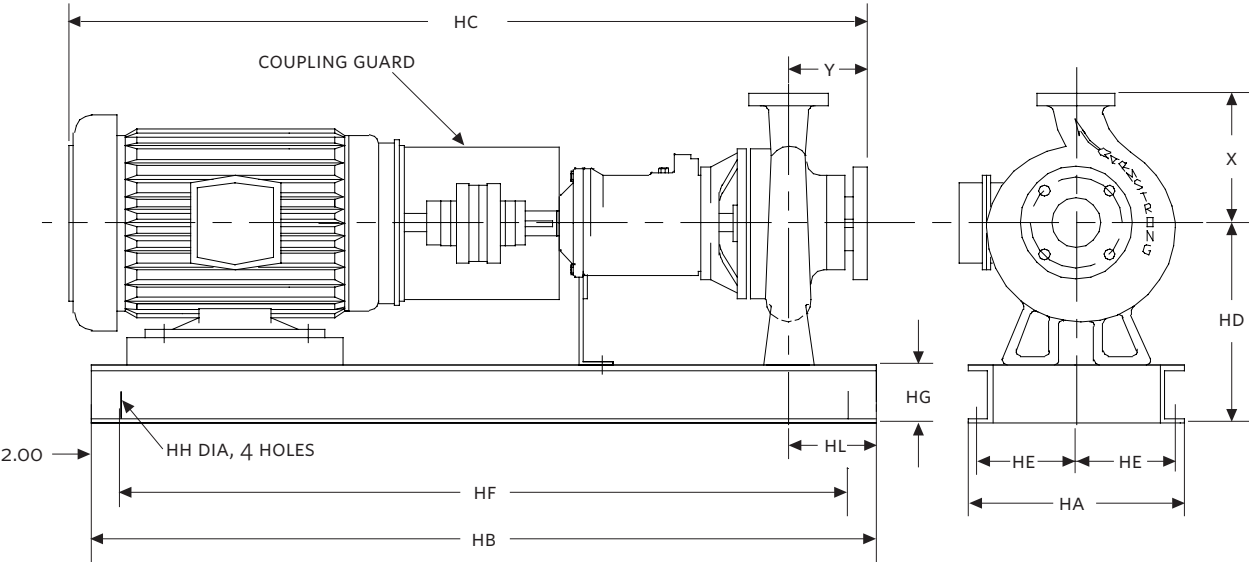
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

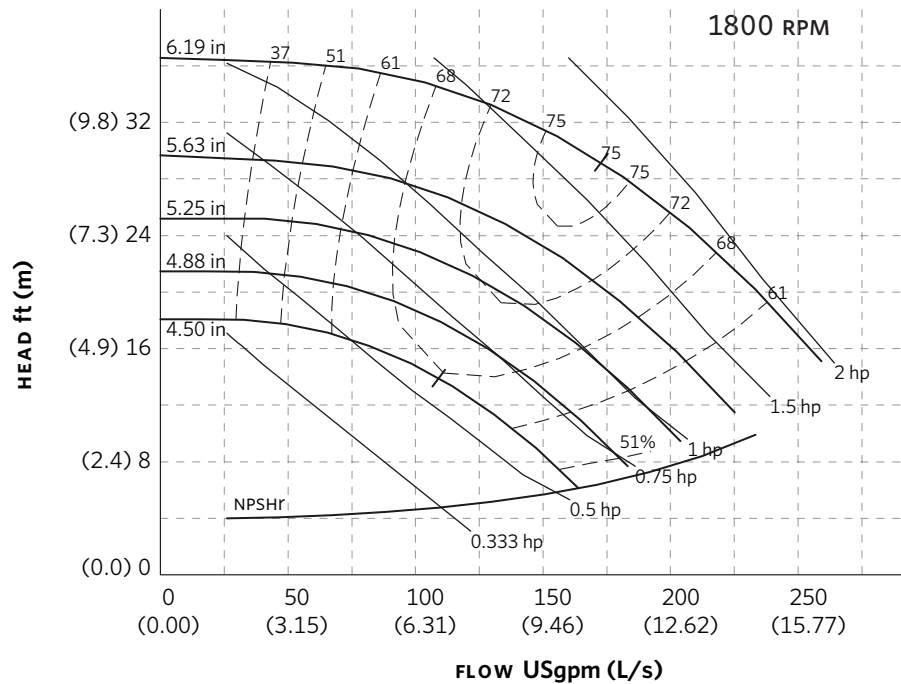
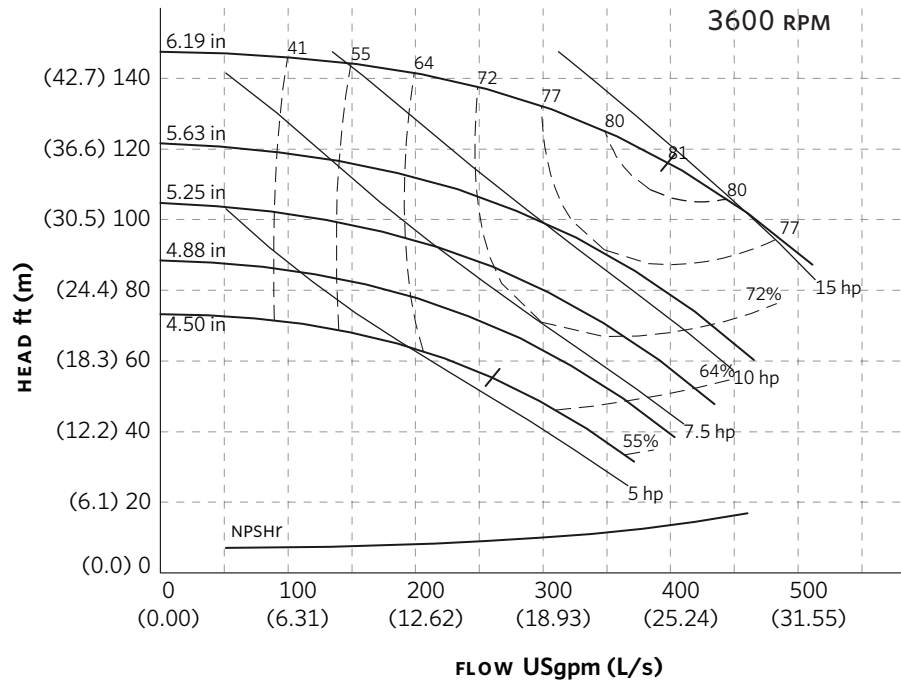
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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					MAX. DIMENSIONS INCHES (mm)										MAX. ASSEMBLY WEIGHT*	
FRAME	3600		1800	1200		HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC		ODP	TEFC												
56C	—	—	0.5-0.75	0.33 & 0.5	0.33 -0.5	14.00 (356)	30.00 (762)	26.25 (667)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	120 (54.5)
143TC	—	—	1	0.75	0.75	14.00 (356)	30.00 (762)	27.90 (709)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	128 (58.1)
145TC	—	—	1.5 & 2	—	—	14.00 (356)	30.00 (762)	27.90 (709)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	128 (58.1)
182TC	5	—	—	—	—	14.00 (356)	30.00 (762)	30.60 (777)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	143 (64.9)
184TC	7.5	5	—	—	—	14.00 (356)	30.00 (762)	30.60 (777)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	163 (74.0)
213TC	10	7.5	—	—	—	14.00 (356)	33.00 (838)	34.28 (871)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	198 (89.9)
215TC	15	10	—	—	—	14.00 (356)	33.00 (838)	34.28 (871)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	213 (96.7)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Performance curves are for reference only.
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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2.5 × 8 | SUBMITTAL

File No: 40.57
Date: OCTOBER 15, 2013
Supersedes: 40.57
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: 3" (75mm) Flanged
Discharge: 2.5" (62mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

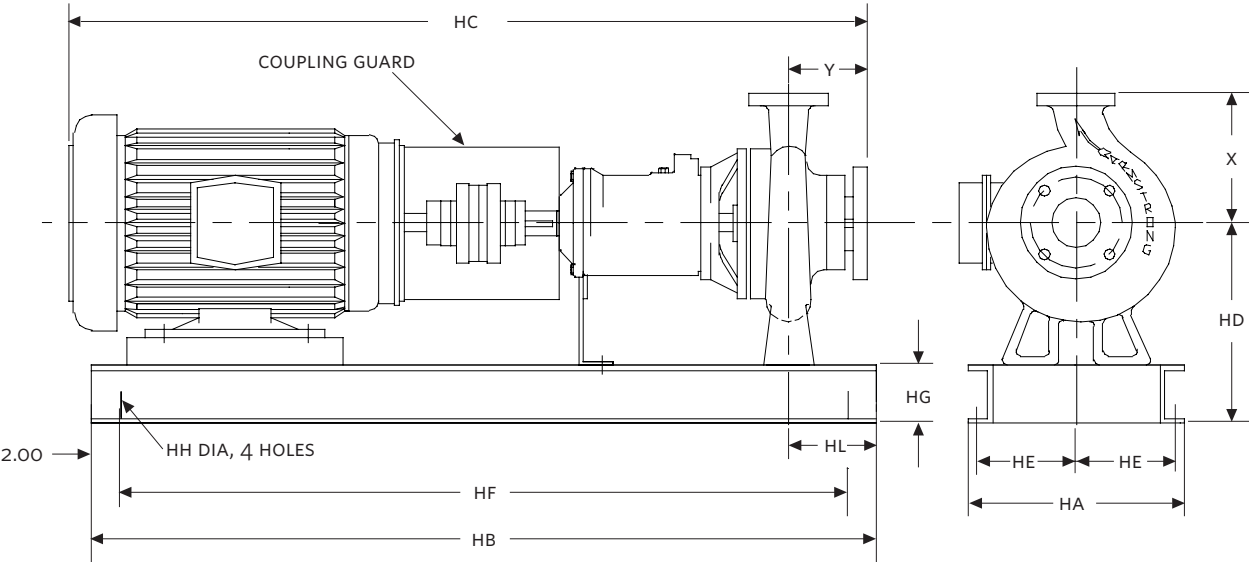
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

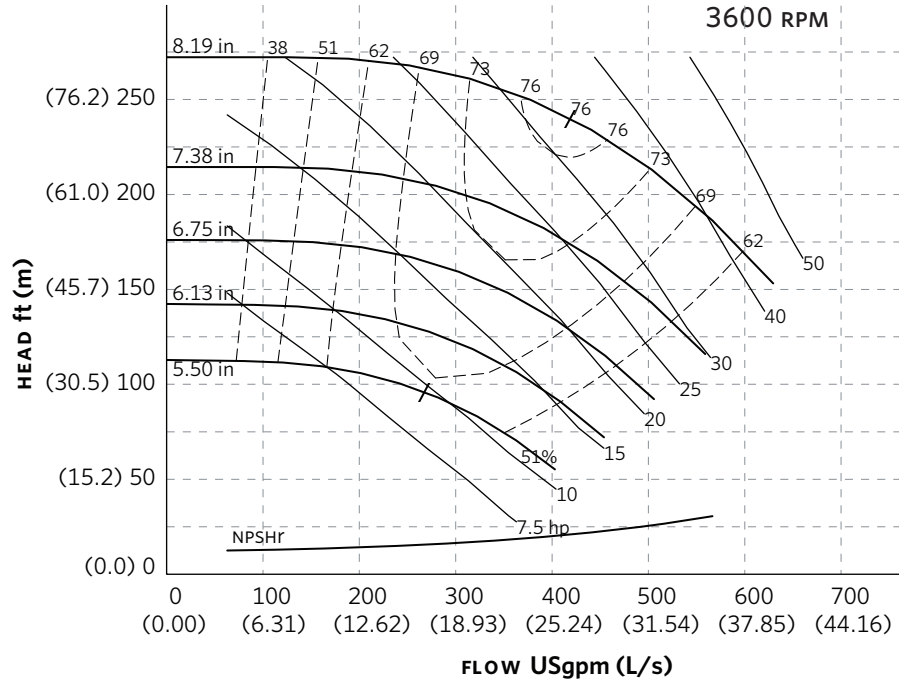
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
56C	—	—	—	0.5	14.00 (356)	30.00 (762)	26.24 (667)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	148 (67.1)	148 (67.1)
143TC	—	—	—	0.75	14.00 (356)	30.00 (762)	27.89 (708)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	153 (69.4)	158 (71.7)
145TC	—	—	1.5 & 2	1	14.00 (356)	30.00 (762)	27.89 (708)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	158 (71.7)	158 (71.7)
182TC	—	—	3	1.5	14.00 (356)	30.00 (762)	30.58 (777)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	173 (78.5)	187 (84.8)
184TC	—	—	5	2	14.00 (356)	30.00 (762)	30.58 (777)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	183 (83.0)	197 (89.4)
213TC	—	—	7.5	—	14.00 (356)	33.00 (838)	34.26 (870)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	213 (96.6)	228 (103.4)
215TC	15	—	—	—	14.00 (356)	33.00 (838)	34.26 (870)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	223 (101.2)	—
254TC	20	15	—	—	16.00 (406)	45.00 (1143)	43.39 (1102)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	322 (146.1)	362 (164.2)
256TC	25	20	—	—	16.00 (406)	45.00 (1143)	43.39 (1102)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	332 (150.6)	382 (173.3)
284TSC	30	25	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	382 (173.3)	402 (182.3)
286TSC	40	30	—	—	19.00 (483)	48.00 (1219)	45.41 (1153)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	462 (209.6)	472 (214.1)
324TSC	50	40	—	—	19.00 (483)	48.00 (1219)	47.78 (1214)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	557 (252.7)	702 (318.4)
326TSC	—	50	—	—	19.00 (483)	48.00 (1219)	47.78 (1214)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	—	782 (354.7)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT57-1-0-3600

Series
4030
4280

Size
3 × 2.5 × 8

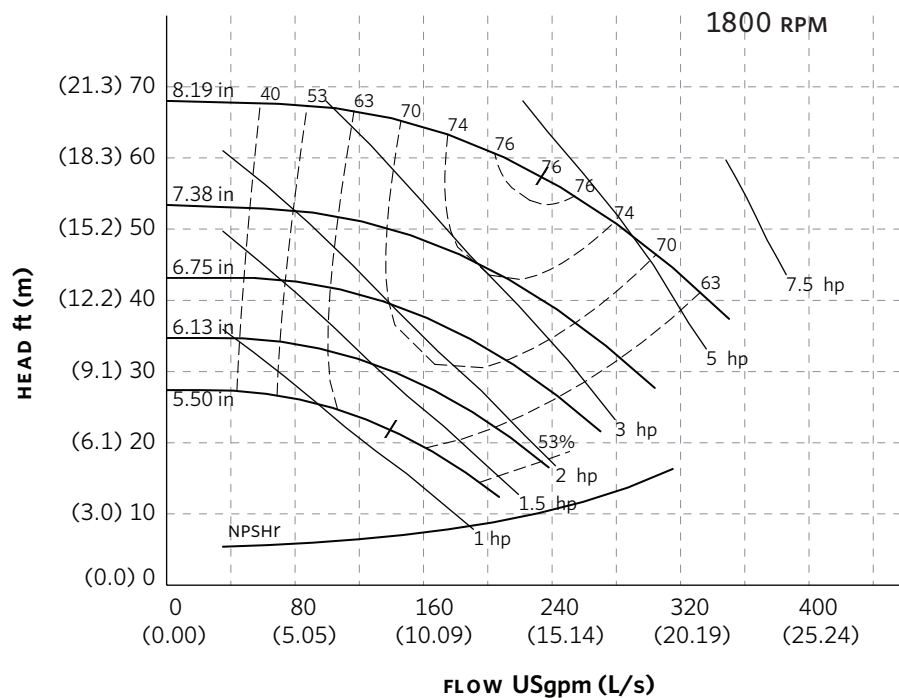
RPM
3600

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
PT56-1-0-1800

Series
4030
4280

Size
3 × 2.5 × 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

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

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P.R.C.
201401
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ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM

MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2.5 × 10 | SUBMITTAL

File No: 40.621
Date: OCTOBER 15, 2013
Supersedes: 40.621
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: 3"(75mm) Flanged
Discharge: 2.5"(62mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

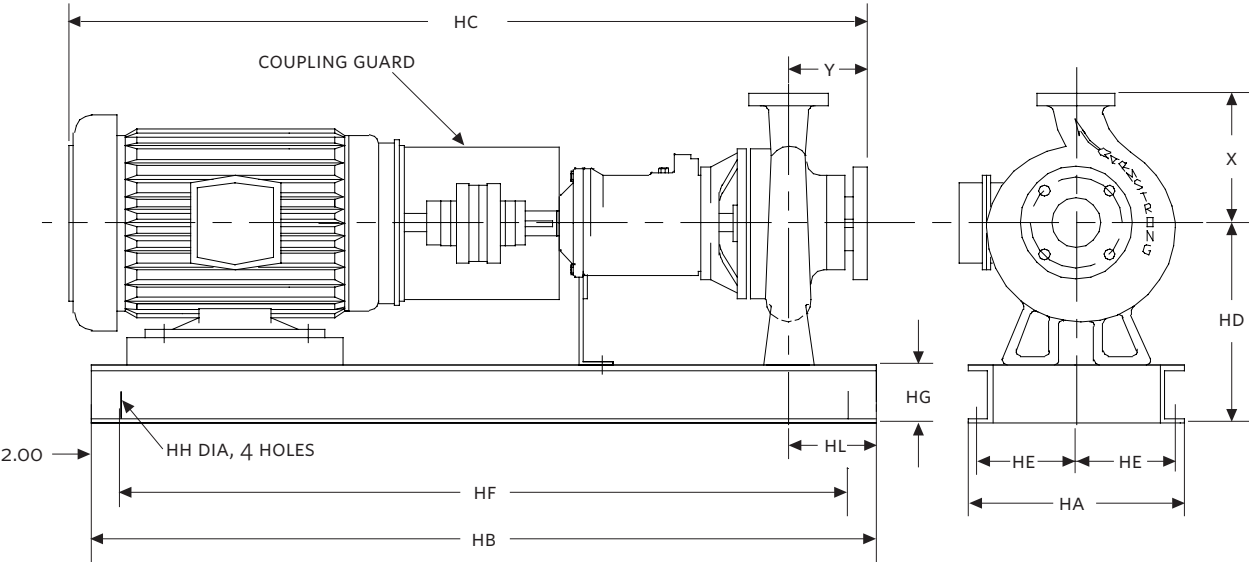
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

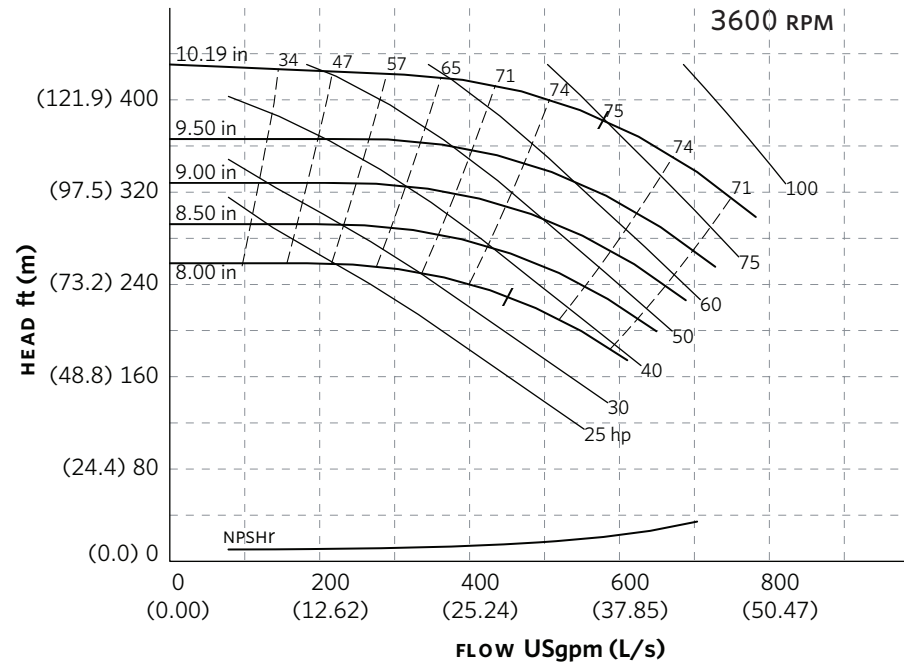
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
145TC	—	—	—	1	14.00 (356)	30.00 (762)	27.79 (706)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	185 (83.9)	185 (83.9)
182TC	—	—	3	1.5	14.00 (356)	30.00 (762)	30.24 (768)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	200 (90.7)	214 (97.1)
184TC	—	—	5	2	14.00 (356)	30.00 (762)	30.24 (768)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	210 (95.3)	224 (101.6)
213TC	—	—	7.5	3	14.00 (356)	33.00 (838)	33.92 (862)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	240 (108.9)	255 (115.7)
215TC	—	—	10	5	14.00 (356)	33.00 (838)	33.92 (862)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	250 (113.4)	270 (122.5)
254TC	—	—	15	—	16.00 (406)	45.00 (1143)	43.53 (1106)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	300 (136.1)	340 (154.2)
284TSC	30	—	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	407 (184.6)	—
286TSC	40	30	—	—	19.00 (483)	48.00 (1219)	45.41 (1153)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	487 (220.9)	497 (225.4)
324TSC	50	40	—	—	19.00 (483)	48.00 (1219)	47.94 (1218)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	582 (264.0)	727 (329.8)
326TSC	60	50	—	—	19.00 (483)	48.00 (1219)	47.94 (1218)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	612 (277.6)	807 (366.0)
364TSC	75	60	—	—	19.00 (483)	48.00 (1219)	49.53 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	777 (352.4)	917 (415.9)
365TSC	100	75	—	—	19.00 (483)	48.00 (1219)	49.53 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.00 (102)	9.50 (241)	4.00 (102)	797 (361.5)	957 (434.1)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT53-2-0-3600

Series
4030
4280

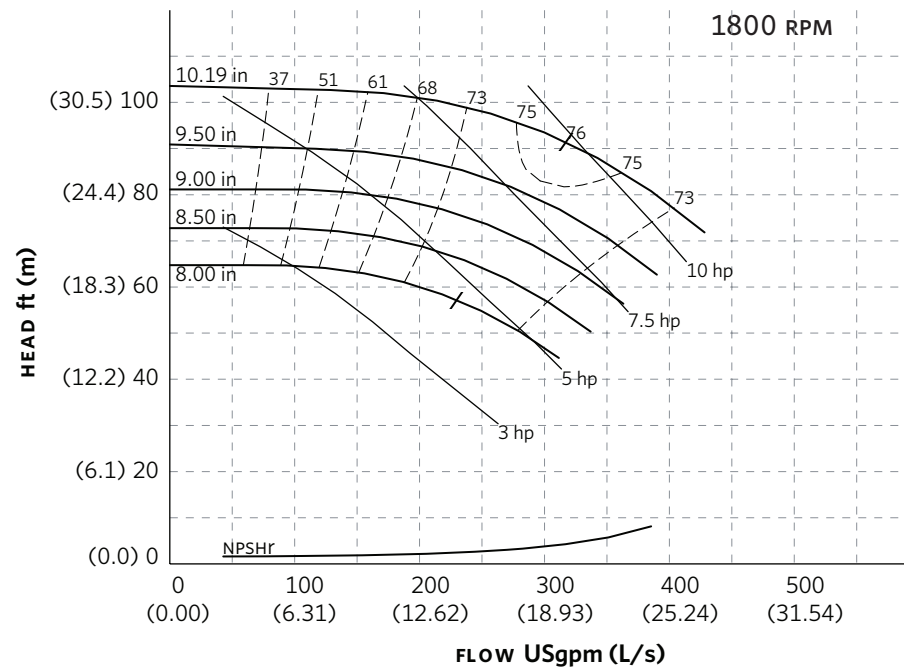
Size
3 × 2.5 × 10

RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4030 FR 405 MAX.
4280 FR 326 MAX.

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



Curve number
PT52-2-0-1800

Series
4030
4280

Size
3 × 2.5 × 10

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

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

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MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2 × 6 | SUBMITTAL

File No: 40.52
Date: OCTOBER 15, 2013
Supersedes: 40.52
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: 3" (75mm) Flanged
Discharge: 2" (50mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

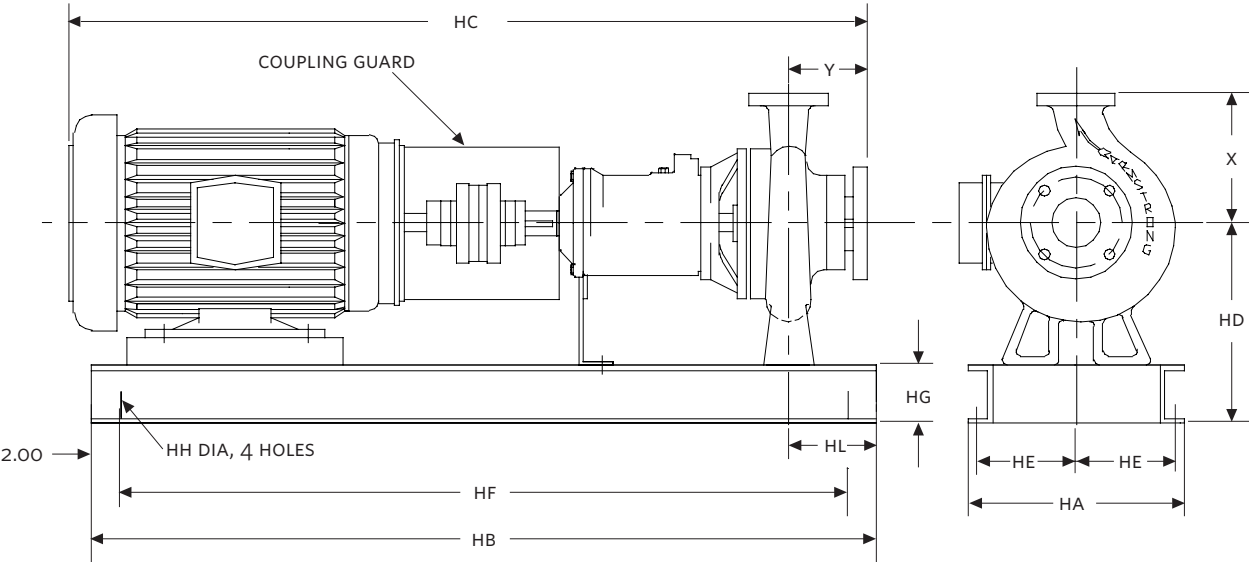
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

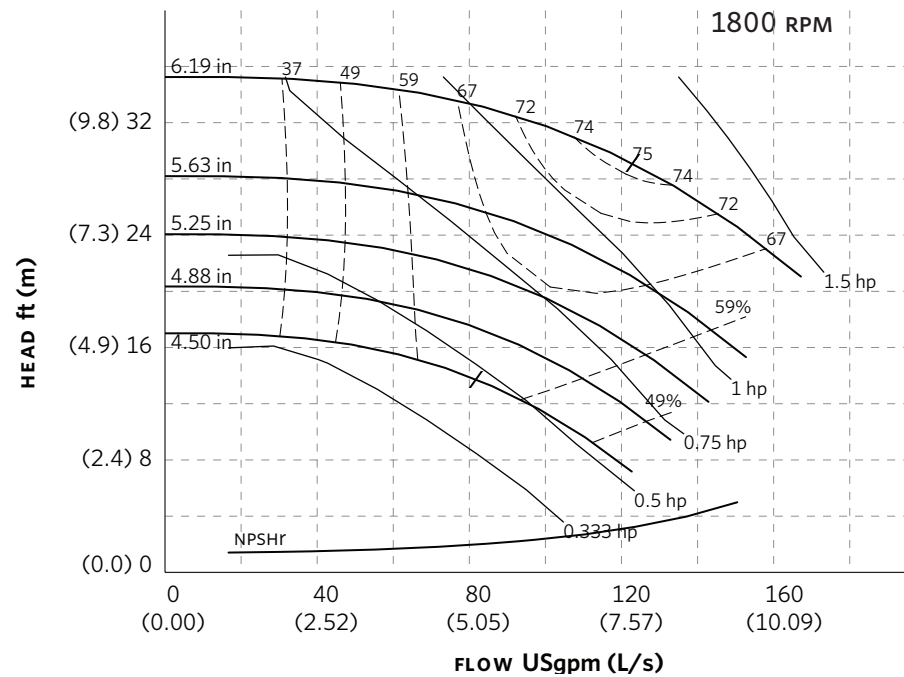
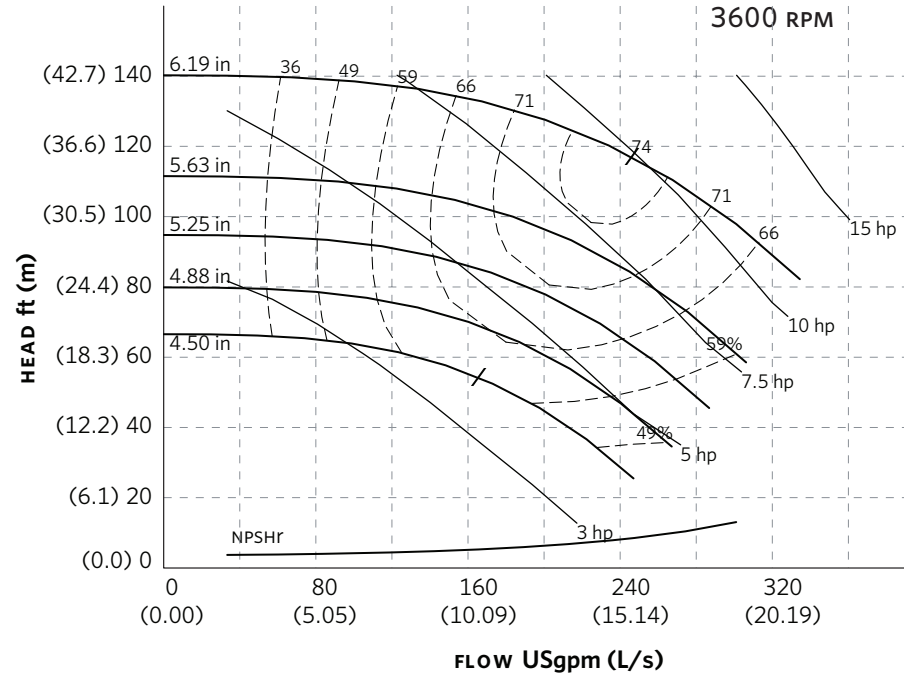
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC														
56C	—	—	0.5-0.75	0.33-0.5	14.00 (356)	30.00 (762)	26.38 (670)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	118 (53.6)
143TC	—	—	1	—	14.00 (356)	30.00 (762)	28.03 (712)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	126 (57.2)
145TC	3	—	1.5	—	14.00 (356)	30.00 (762)	28.03 (712)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	126 (57.2)
182TC	5	3	—	—	14.00 (356)	30.00 (762)	30.73 (781)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	151 (68.6)
184TC	7.5	5	—	—	14.00 (356)	30.00 (762)	30.73 (781)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	161 (73.1)
213TC	10	7.5	—	—	14.00 (356)	33.00 (838)	34.40 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	196 (89.0)
215TC	15	10	—	—	14.00 (356)	33.00 (838)	34.40 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	211 (95.8)

*Assembly weight combines pump and motor.



SERIES 4030 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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MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2 × 8 | SUBMITTAL

File No: 40.561
Date: OCTOBER 15, 2013
Supersedes: 40.561
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: 3" (75mm) Flanged
Discharge: 2" (50mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

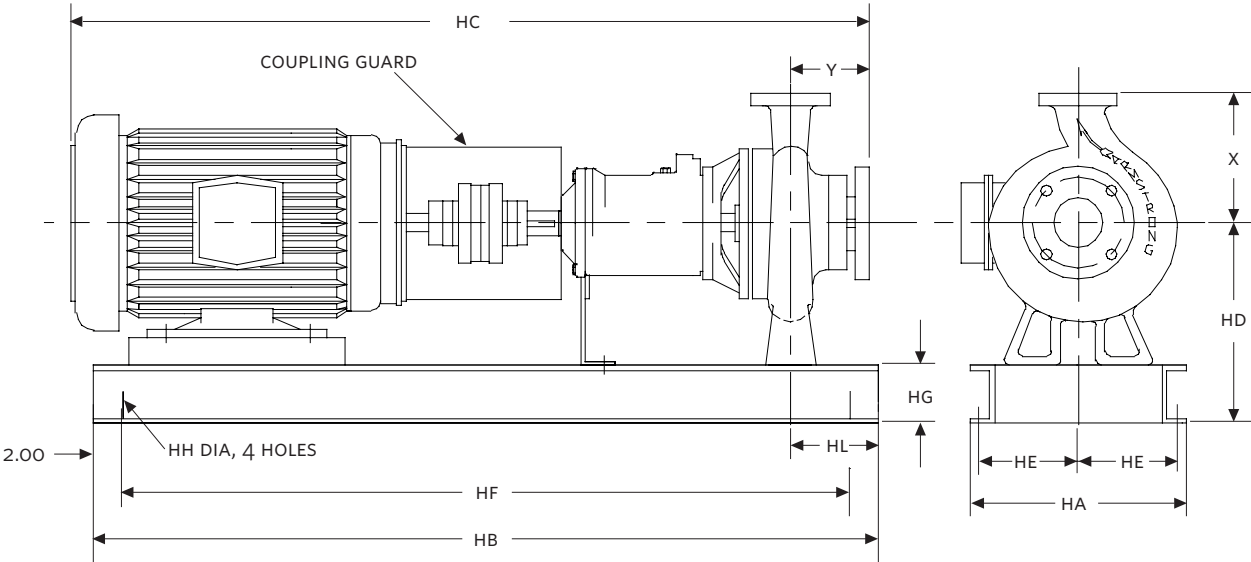
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

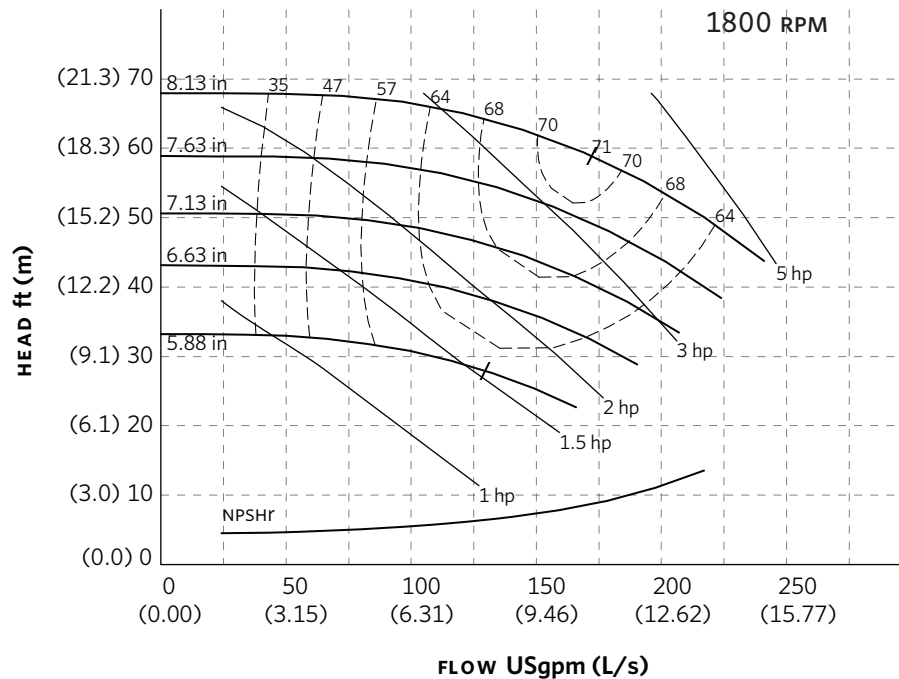
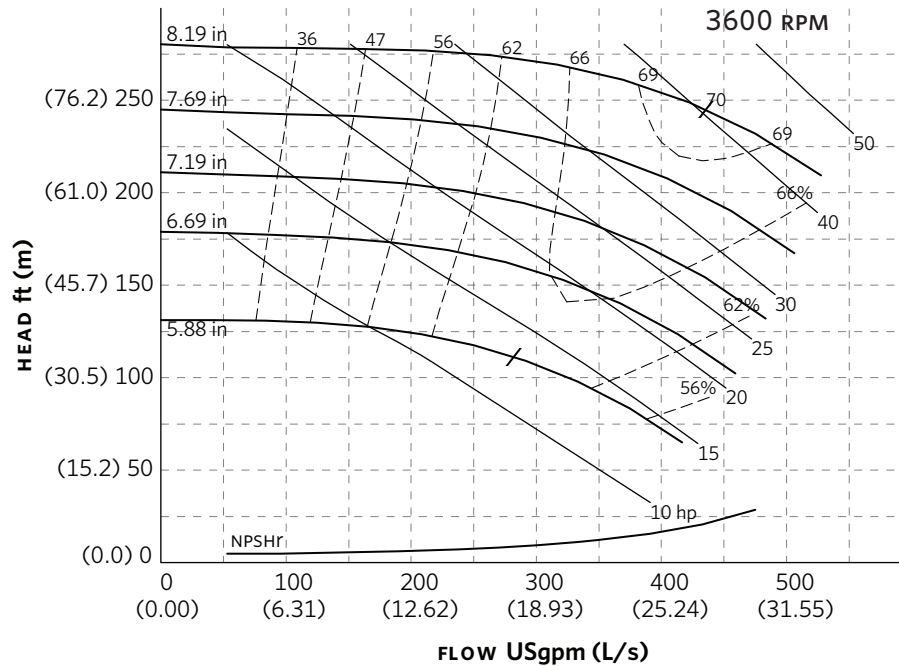
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
56C	—	—	—	0.5	14.00 (356)	30.00 (762)	26.41 (671)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	144 (65.3)	144 (65.3)
143TC	—	—	—	0.75	14.00 (356)	30.00 (762)	28.06 (713)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	154 (69.9)	154 (69.9)
145TC	—	—	1.5 & 2	1	14.00 (356)	30.00 (762)	28.06 (713)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	154 (69.9)	154 (69.9)
182TC	—	—	3	1.5	14.00 (356)	30.00 (762)	30.76 (781)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	179 (81.2)	179 (81.2)
184TC	—	—	5	—	14.00 (356)	30.00 (762)	30.76 (781)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	189 (85.7)	189 (85.7)
215TC	15	—	—	—	14.00 (356)	33.00 (838)	34.43 (875)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	309 (140.2)	309 (140.2)
254TC	20	15	—	—	16.00 (406)	40.00 (1016)	40.41 (1026)	10.25 (260)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	309 (140.2)	309 (140.2)
256TC	25	20	—	—	16.00 (406)	40.00 (1016)	40.41 (1026)	10.25 (260)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	329 (149.2)	329 (149.2)
284TSC	30	25	—	—	19.00 (483)	48.00 (1219)	45.04 (1144)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	399 (181.0)	399 (181.0)
286TSC	40	30	—	—	19.00 (483)	48.00 (1219)	45.04 (1144)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	459 (208.2)	469 (212.7)
324TSC	50	40	—	—	19.00 (483)	48.00 (1219)	47.96 (1218)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	554 (251.3)	699 (317.1)
326TSC	—	50	—	—	19.00 (483)	48.00 (1219)	47.96 (1218)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	—	779 (353.3)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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Confirm current performance data with Armstrong ACE Online selection software.

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2 × 10 | SUBMITTAL

File No: 40.62
Date: OCTOBER 15, 2013
Supersedes: 40.62
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: 3"(75mm) Flanged
Discharge: 2"(50mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

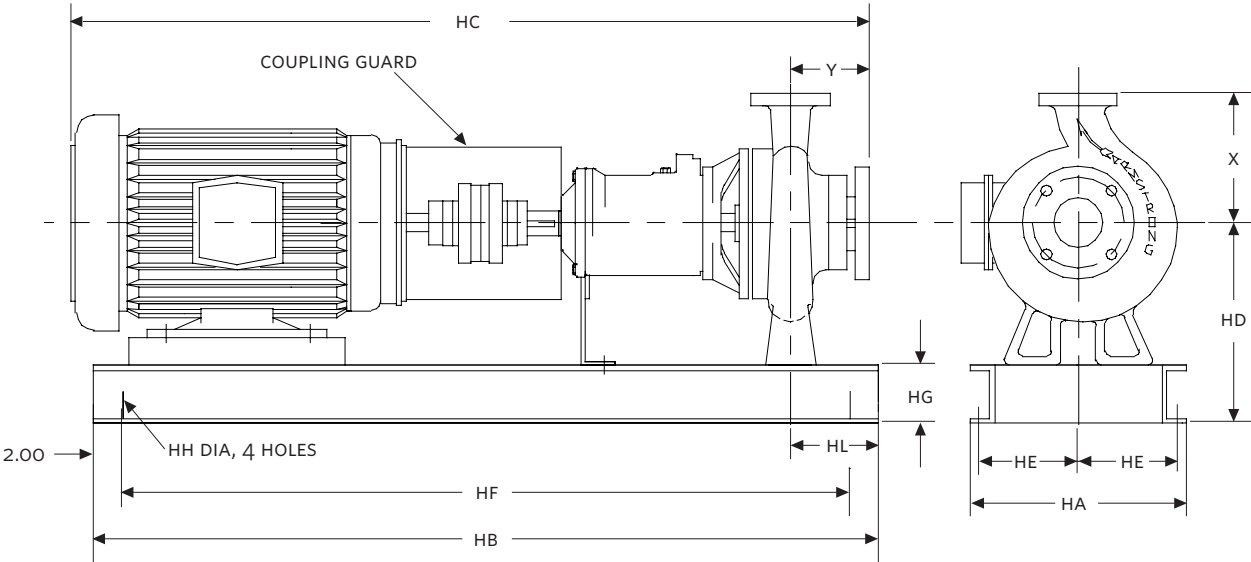
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

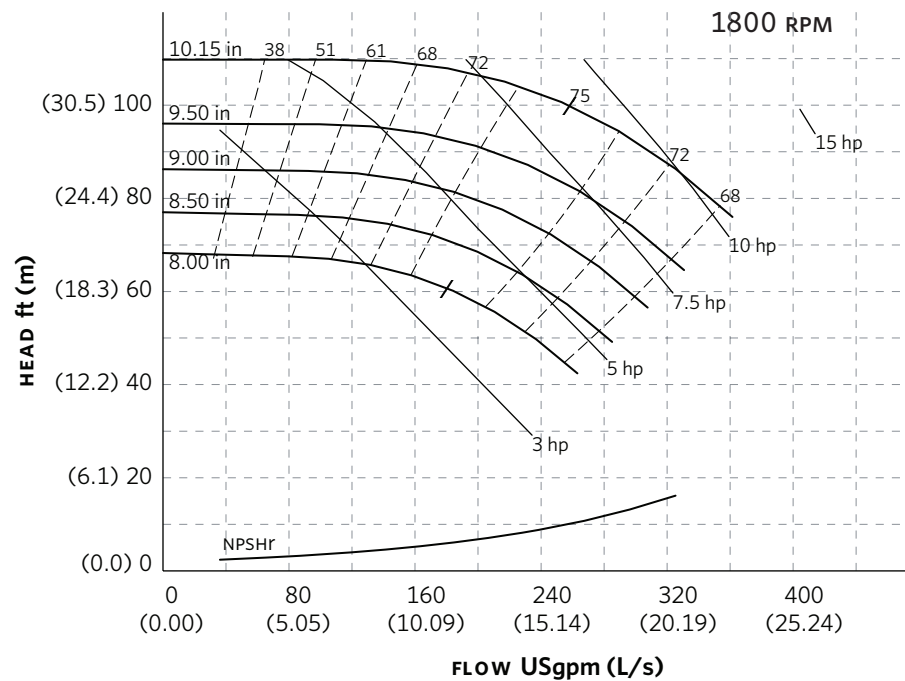
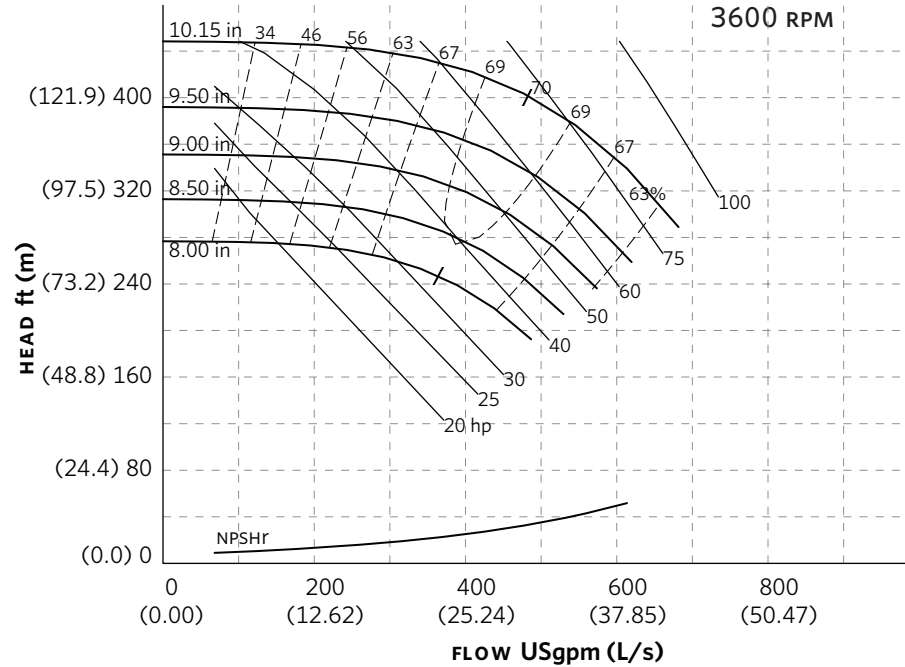
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	3600			1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC															ODP	TEFC
145TC	—	—	—	1		14.00 (356)	30.00 (762)	27.61 (701)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	180 (81.6)	180 (81.6)
182TC	—	—	3	1.5		14.00 (356)	30.00 (762)	30.31 (770)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	195 (88.5)	209 (94.8)
184TC	—	—	5	2		14.00 (356)	30.00 (762)	30.31 (770)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	205 (93.0)	219 (99.3)
213TC	—	—	7.5	3		14.00 (356)	33.00 (838)	33.98 (863)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	235 (106.6)	250 (113.4)
215TC	—	—	10	—		14.00 (356)	33.00 (838)	33.98 (863)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	245 (111.1)	265 (120.2)
256TC	25	—	—	—		16.00 (406)	45.00 (1143)	43.59 (1107)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	355 (161.0)	—
284TSC	30	25	—	—		19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	405 (183.7)	425 (192.8)
286TSC	40	30	—	—		19.00 (483)	48.00 (1219)	45.41 (1153)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	485 (220.0)	495 (224.5)
324TSC	50	40	—	—		19.00 (483)	48.00 (1219)	48.01 (1219)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	580 (263.1)	725 (328.9)
326TSC	60	50	—	—		19.00 (483)	48.00 (1219)	48.01 (1219)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	610 (276.7)	805 (365.1)
364TSC	75	60	—	—		19.00 (483)	48.00 (1219)	49.60 (1260)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	775 (351.5)	915 (415.0)
365TSC	—	75	—	—		19.00 (483)	48.00 (1219)	49.60 (1260)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	9.50 (241)	4.00 (102)	—	955 (433.2)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2 × 13 | SUBMITTAL

File No: 40.73
Date: OCTOBER 15, 2013
Supersedes: 40.73
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: 3" (75mm) Lugged
Discharge: 2" (50mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

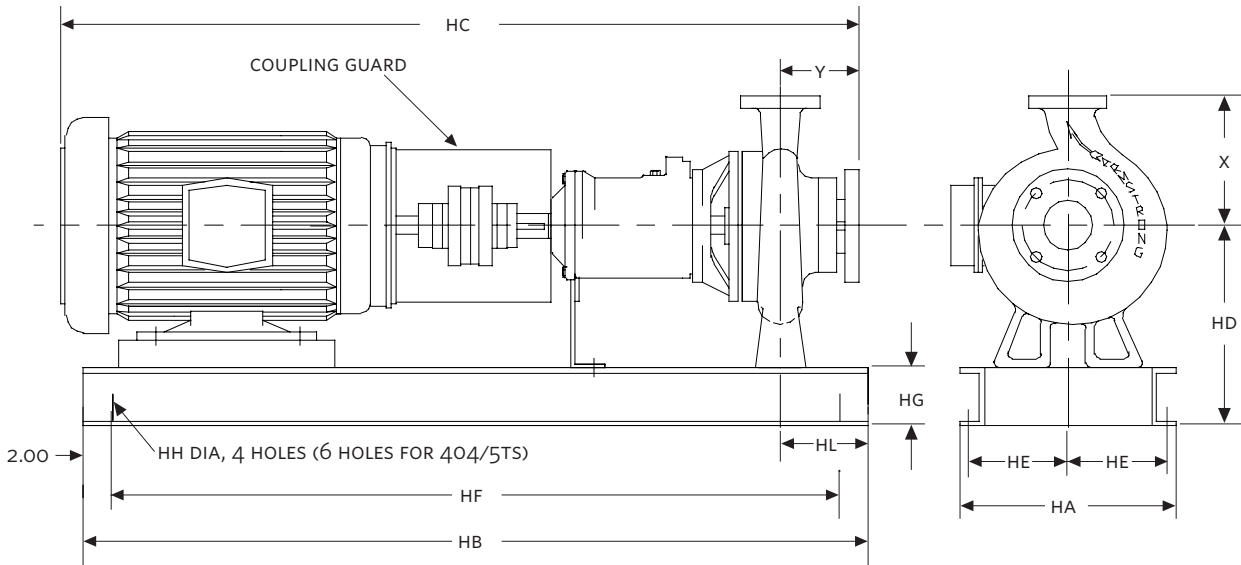
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

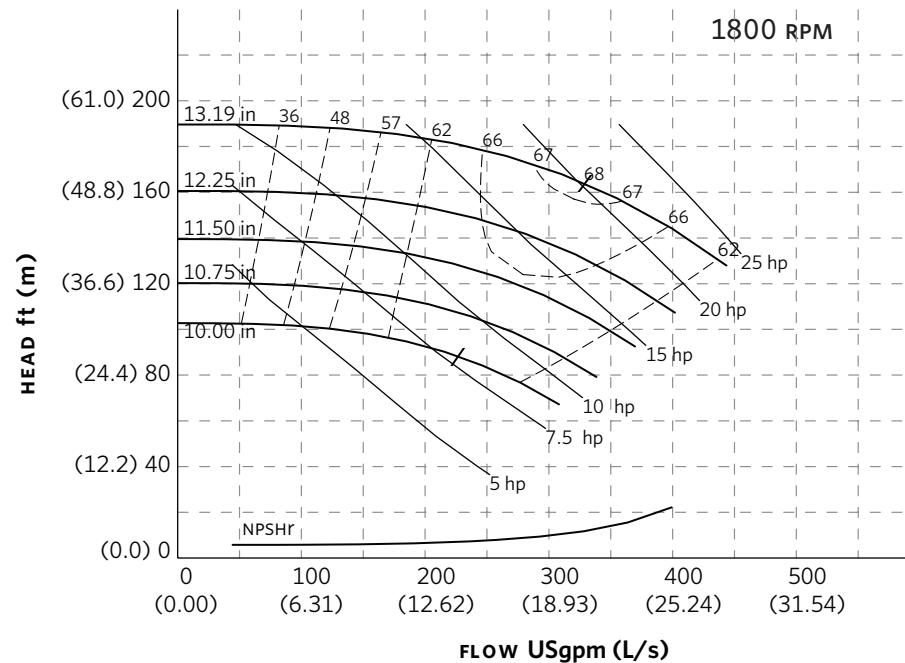
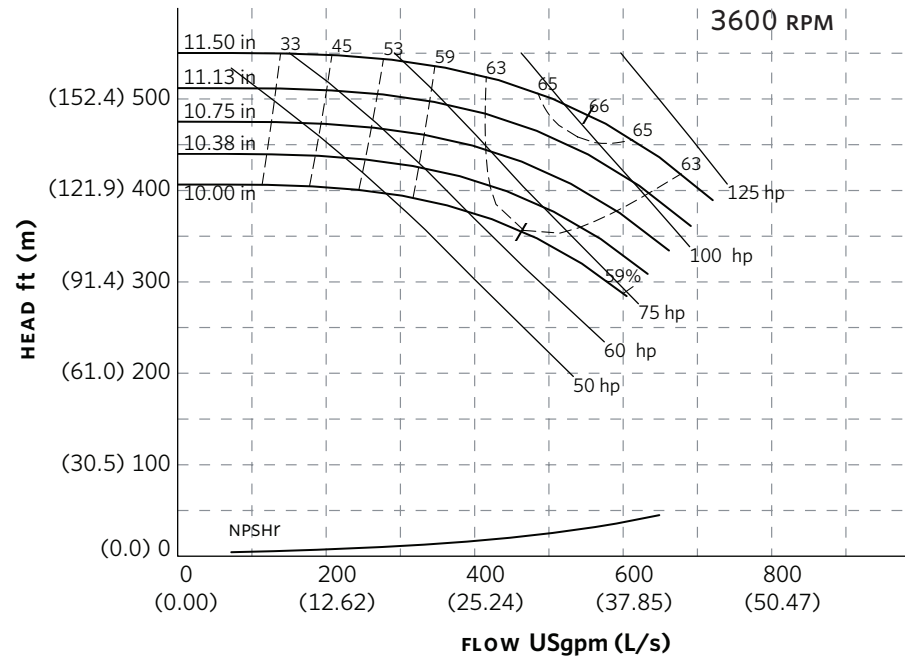
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF**	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC														ODP	TEFC
213TC	—	—	7.5	3	16.00 (406)	45.00 (1143)	37.55 (954)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	345 (156.5)	360 (163.3)
215TC	—	—	10	5	16.00 (406)	45.00 (1143)	37.55 (954)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	355 (161.0)	375 (170.1)
254TC	—	—	15	7.5	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	405 (183.7)	445 (201.8)
256TC	—	—	20	—	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	415 (188.2)	485 (220.0)
284TC	—	—	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	465 (210.9)	505 (229.1)
324TSC†	50	—	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	640 (290.3)	—
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	670 (303.9)	865 (392.4)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	835 (378.7)	975 (442.3)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	855 (387.8)	1015 (460.4)
404TSC**†	125	—	—	—	19.00 (483)	58.00 (1473)	53.49 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	1005 (455.9)	—
405TSC**†	—	100	—	—	19.00 (483)	58.00 (1473)	53.49 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	11.50 (292)	4.00 (102)	—	1380 (626.0)

*Assembly weight combines pump and motor.
†Re-greasable ball bearings on pumps for frame sizes indicated.
**4030 3 × 2 × 13 404TS & 405TS are supplied with a 6-hole (equidistant on HF) base.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 4 × 3 × 6 | SUBMITTAL

File No: 40.54
Date: OCTOBER 15, 2013
Supersedes: 40.54
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: 4" (100mm) Flanged
Discharge: 3" (75mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

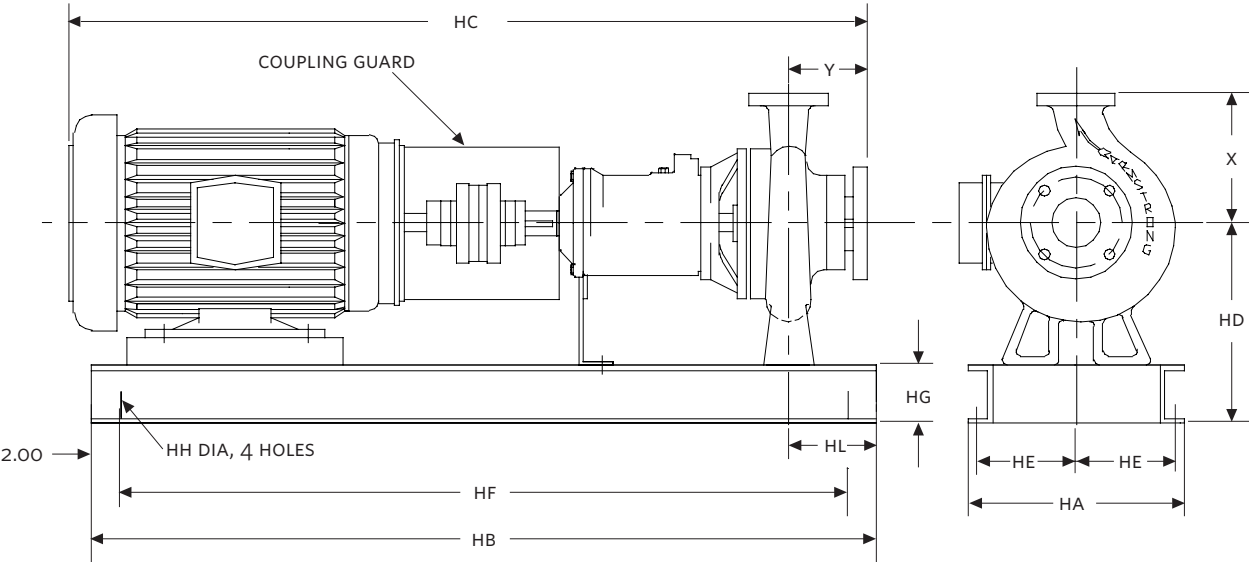
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

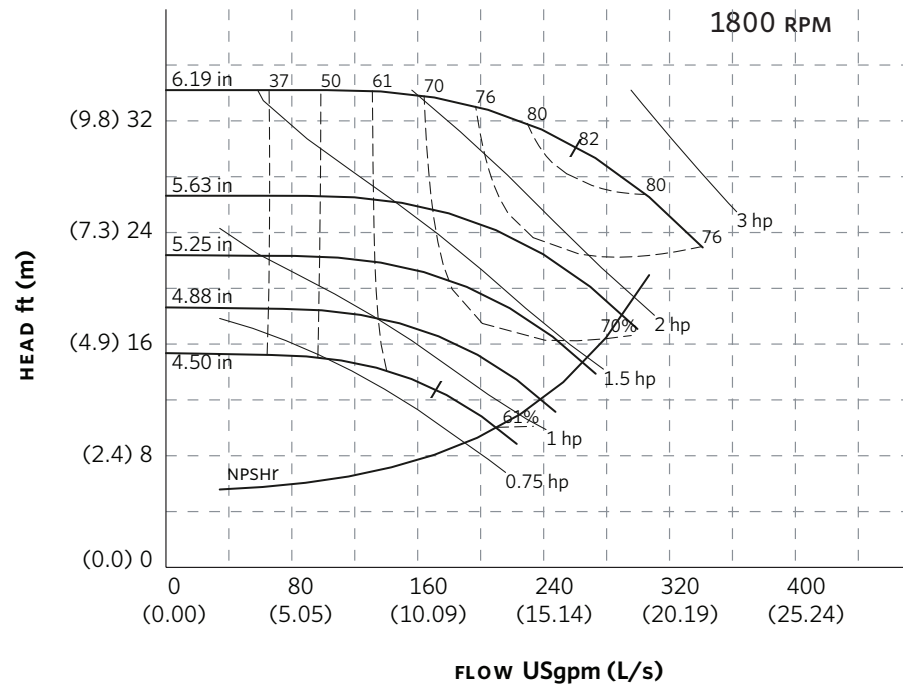
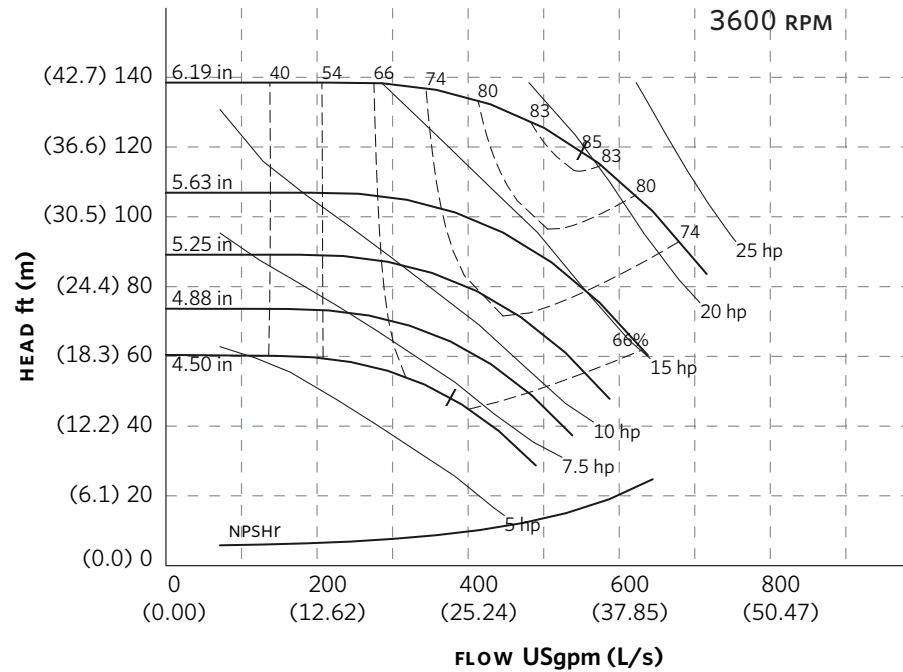
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)												MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
56C	—	—	0.75	0.33 & 0.5	14.00 (356)	30.00 (762)	26.37 (670)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	126 (57.2)	128 (58.1)
143TC	—	—	1	0.75	14.00 (356)	30.00 (762)	28.02 (712)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	131 (59.4)	136 (61.7)
145TC	—	—	1.5 & 2	—	14.00 (356)	30.00 (762)	28.02 (712)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	136 (61.7)	136 (61.7)
182TC	5	—	3	—	14.00 (356)	30.00 (762)	30.72 (780)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	151 (68.5)	161 (73.0)
184TC	7.5	5	—	—	14.00 (356)	30.00 (762)	30.72 (780)	9.25 (235)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	151 (68.5)	171 (77.6)
213TC	10	7.5	—	—	14.00 (356)	33.00 (838)	34.39 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	161 (73.0)	206 (93.4)
215TC	15	10	—	—	14.00 (356)	33.00 (838)	34.39 (874)	9.25 (235)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	191 (86.6)	221 (100.2)
254TC	20	15	—	—	16.00 (406)	45.00 (1143)	43.50 (1105)	9.25 (235)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	201 (91.2)	291 (132.0)
256TC	25	20	—	—	16.00 (406)	45.00 (1143)	43.50 (1105)	9.25 (235)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	251 (113.9)	311 (141.1)
284TSC	—	25	—	—	19.00 (483)	48.00 (1219)	43.13 (1096)	11.25 (286)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	8.25 (210)	4.00 (102)	261 (118.4)	331 (150.1)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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Confirm current performance data with Armstrong ACE Online selection software.

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 4 × 3 × 8 | SUBMITTAL

File No: 40.58
Date: OCTOBER 15, 2013
Supersedes: 40.58
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: 4" (100mm) Flanged
Discharge: 3" (75mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

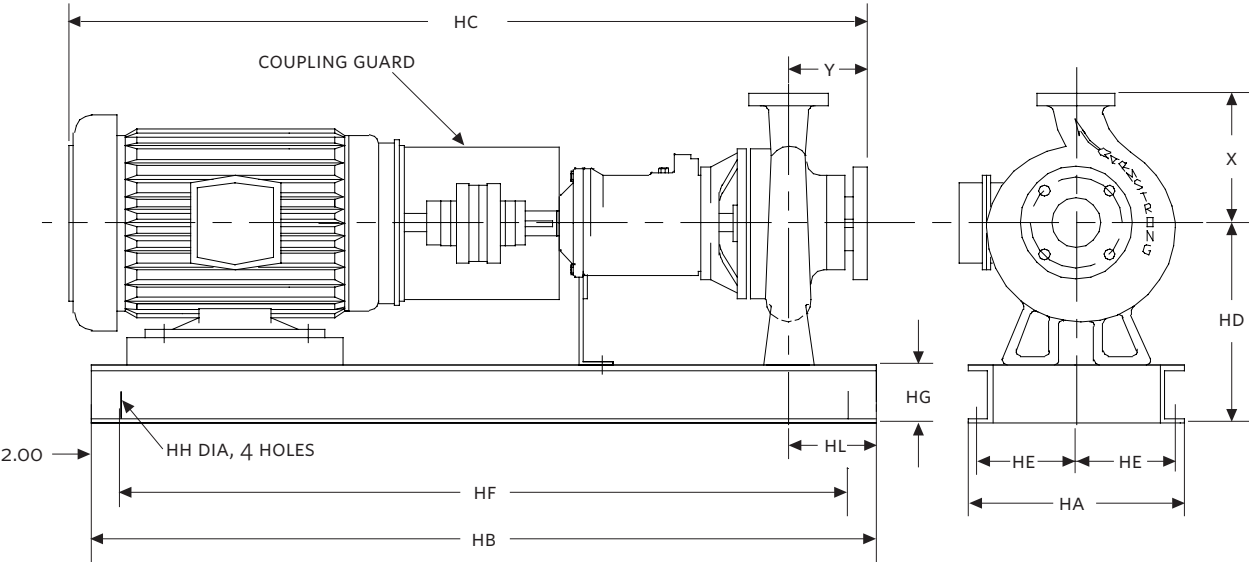
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

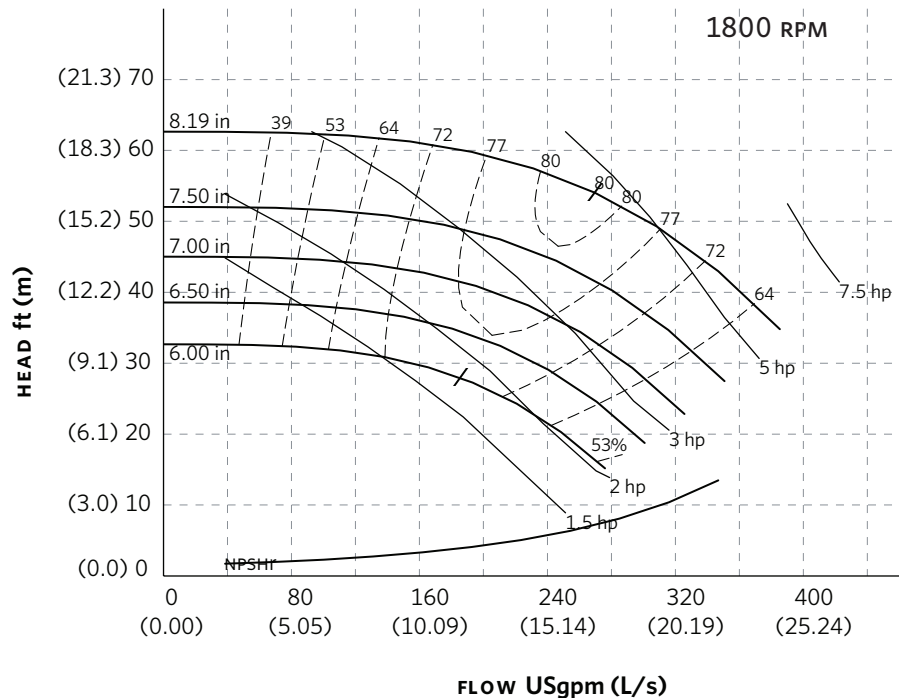
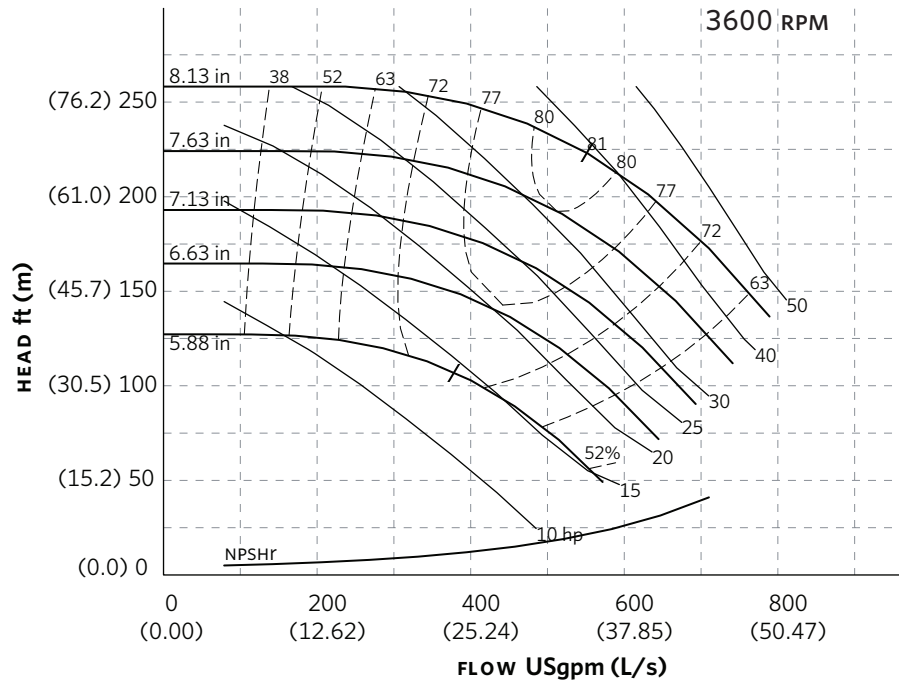
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
56C	—	—	—	0.5	14.00 (356)	30.00 (762)	26.38 (670)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	165 (74.8)	165 (74.8)
143TC	—	—	—	0.75	14.00 (356)	30.00 (762)	28.03 (712)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	170 (77.1)	175 (79.4)
145TC	—	—	2	1	14.00 (356)	30.00 (762)	28.03 (712)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	175 (79.4)	175 (79.4)
182TC	—	—	3	1.5	14.00 (356)	30.00 (762)	30.72 (780)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	190 (86.2)	204 (92.5)
184TC	—	—	5	2	14.00 (356)	30.00 (762)	30.72 (780)	10.25 (260)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	200 (90.7)	214 (97.1)
213TC	—	—	7.5	—	14.00 (356)	33.00 (838)	34.40 (874)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	230 (104.3)	245 (111.1)
215TC	15	—	—	—	14.00 (356)	33.00 (838)	34.40 (874)	10.25 (260)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	240 (108.9)	—
254TC	20	15	—	—	16.00 (406)	45.00 (1143)	43.51 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	340 (154.2)	380 (172.4)
256TC	25	20	—	—	16.00 (406)	45.00 (1143)	43.51 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	350 (158.8)	400 (181.4)
284TSC	30	25	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	400 (181.4)	420 (190.5)
286TSC	40	30	—	—	19.00 (483)	48.00 (1219)	45.41 (1153)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	480 (217.7)	490 (222.3)
324TSC	50	40	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	575 (260.8)	720 (326.6)
326TSC	—	50	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	—	800 (362.9)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 4 × 3 × 10 | SUBMITTAL

File No: 40.63
Date: OCTOBER 15, 2013
Supersedes: 40.63
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: 4" (100mm) Flanged
Discharge: 3" (75mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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

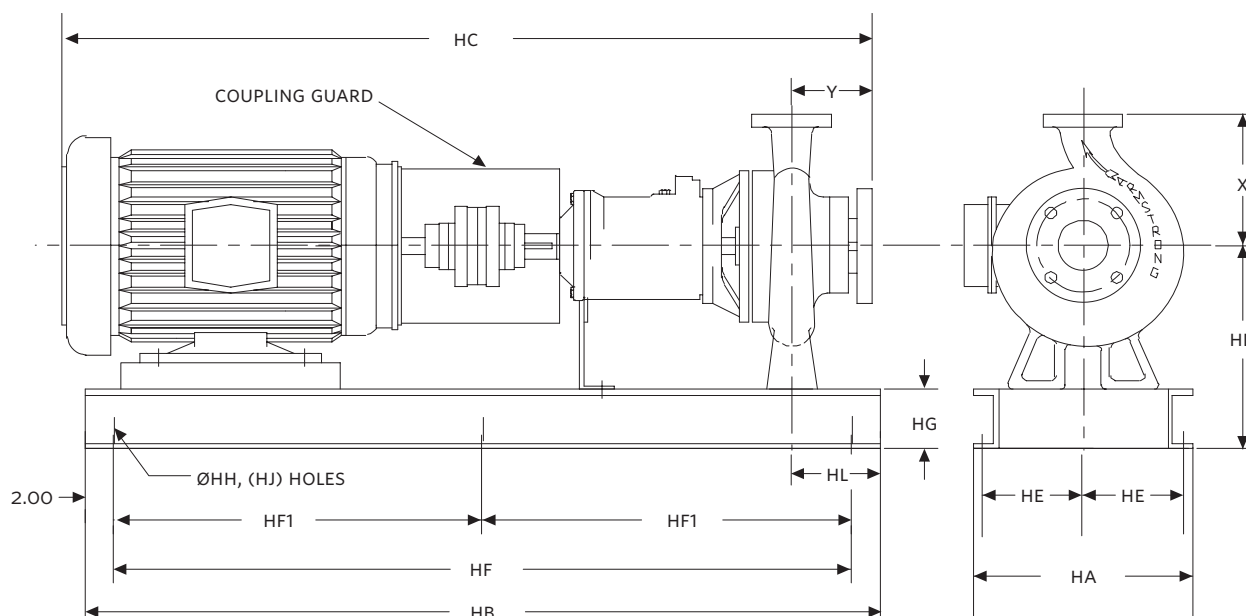
OPTIONAL EQUIPMENT

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

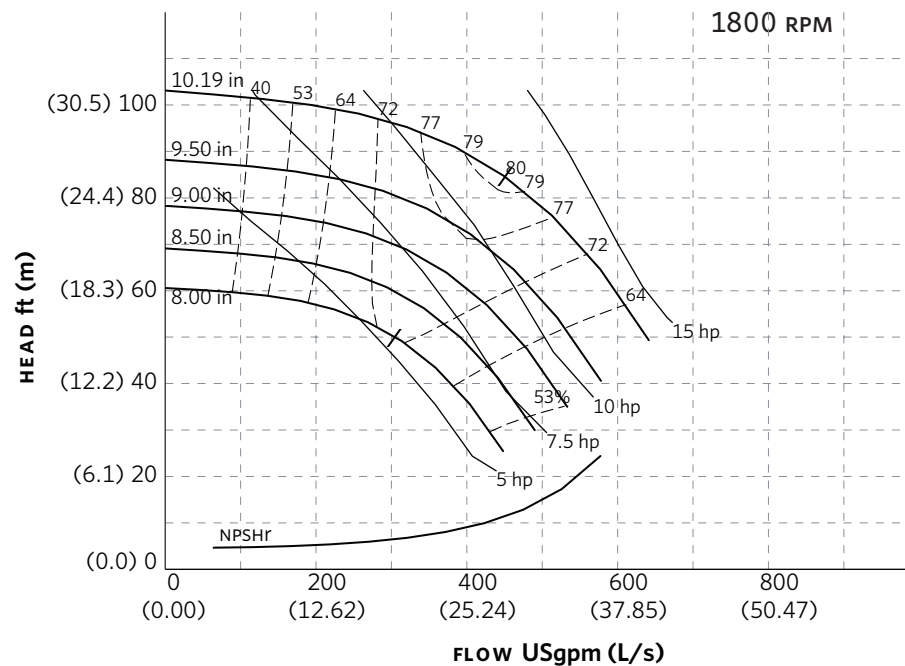
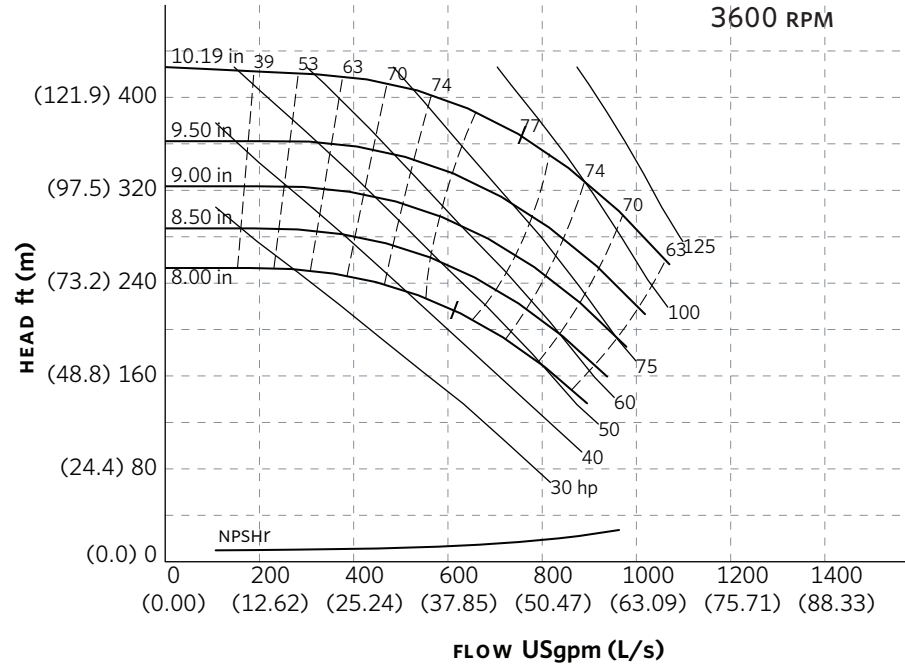
MOTOR	HORSEPOWER @ RPM			MAX. DIMENSIONS INCHES (mm)													MAX. ASSEMBLY WEIGHT*		
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF	HF1	HG	HH	HJ	HL	X	Y	lbs (kgs)	
	ODP	TEFC																ODP	TEFC
182TC	—	—	—	1.5	14.00 (356)	30.00 (762)	30.22 (768)	11.25 (286)	6.38 (162)	26.00 (660)	—	3.00 (76)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	201 (91.2)	215 (97.5)
184TC	—	—	5	2	14.00 (356)	30.00 (762)	30.22 (768)	11.25 (286)	6.38 (162)	26.00 (660)	—	3.00 (76)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	211 (95.7)	225 (102.1)
213TC	—	—	7.5	3	14.00 (356)	33.00 (838)	33.92 (862)	11.25 (286)	6.38 (162)	29.00 (737)	—	3.00 (76)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	241 (109.3)	256 (116.1)
215TC	—	—	10	5	14.00 (356)	33.00 (838)	33.92 (862)	11.25 (286)	6.38 (162)	29.00 (737)	—	3.00 (76)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	251 (113.9)	271 (122.9)
254TC	—	—	15	—	16.00 (406)	40.00 (1016)	39.86 (1012)	11.25 (286)	7.38 (187)	36.00 (914)	—	3.00 (76)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	301 (136.5)	341 (154.7)
286TSC†	40	—	—	—	19.00 (483)	48.00 (1219)	45.41 (1153)	12.25 (311)	8.88 (225)	44.00 (1118)	—	4.00 (102)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	491 (222.7)	—
324TSC†	50	40	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	—	4.00 (102)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	566 (256.7)	731 (331.6)
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	—	4.00 (102)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	616 (279.4)	811 (367.9)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	—	4.00 (102)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	781 (354.3)	921 (417.8)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	—	4.00 (102)	0.75 (19)	4	4.50 (114)	11.00 (279)	4.00 (102)	801 (363.3)	961 (435.9)
404TSC†	125	—	—	—	19.00 (483)	58.00 (1473)	53.49 (1359)	15.50 (394)	8.88 (225)	54.00 (1372)	27.00 (686)	4.00 (102)	0.75 (19)	6	4.50 (114)	11.00 (279)	4.00 (102)	951 (431.4)	—
405TSC†	—	100	—	—	19.00 (483)	58.00 (1473)	53.49 (1359)	15.50 (394)	8.88 (225)	54.00 (1372)	27.00 (686)	4.00 (102)	0.75 (19)	6	4.50 (114)	11.00 (279)	4.00 (102)	—	1326 (601.5)

*Assembly weight combines pump and motor.

†Re-greasable ball bearings on pumps for frame sizes indicated.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 4 × 3 × 11.5 | SUBMITTAL

File No: 40.68
Date: OCTOBER 15, 2013
Supersedes: 40.68
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: 4"(100mm) Flanged
Discharge: 3"(75mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

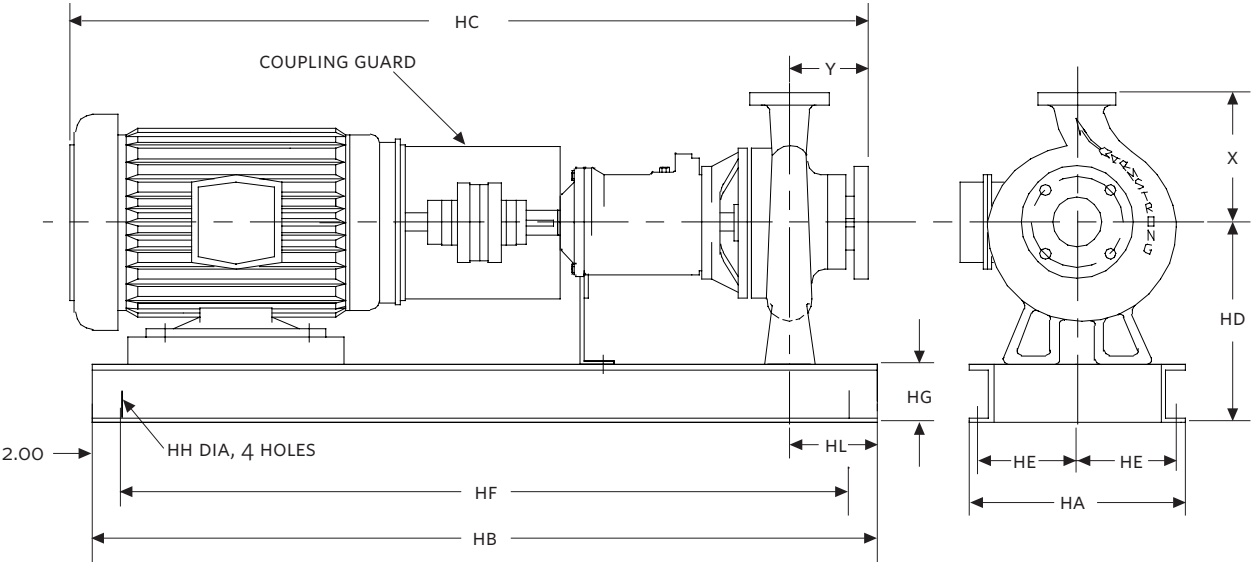
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

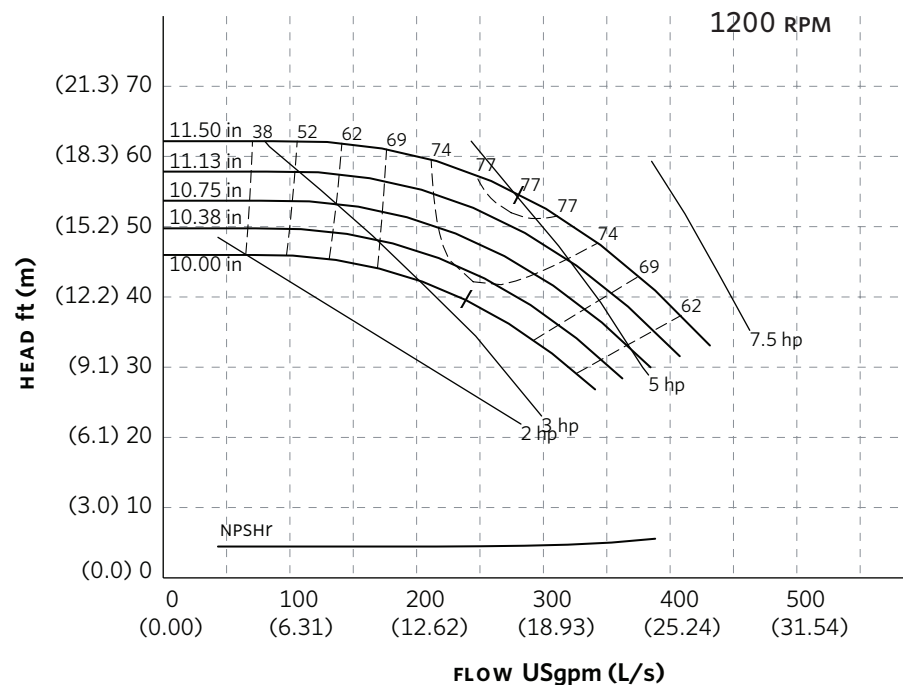
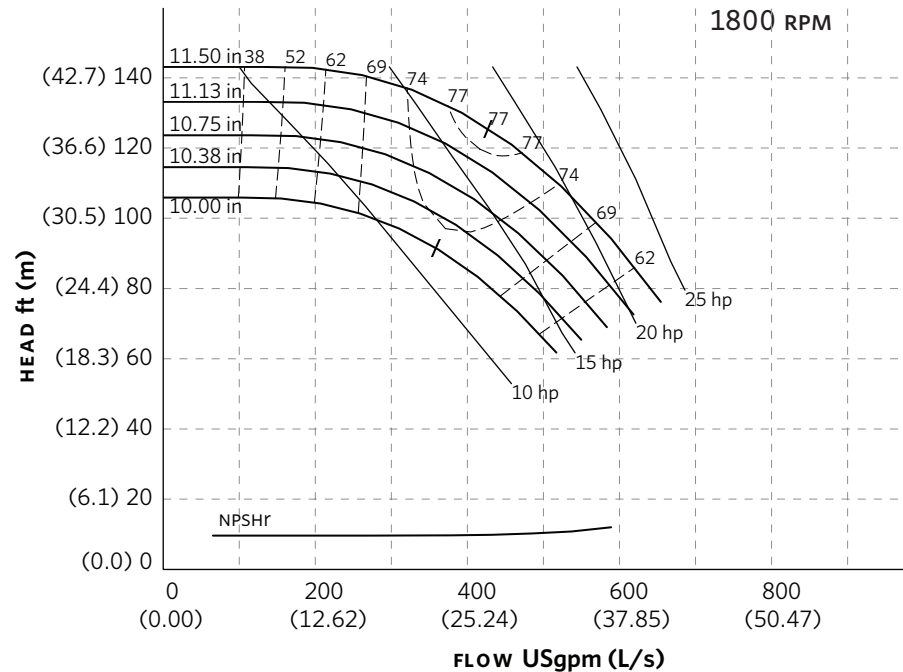
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP/TEFC													ODP	TEFC
184TC	—	2	16.00 (406)	40.00 (1016)	31.95 (812)	11.25 (286)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	11.00 (279)	6.00 (152)	260 (117.9)	274 (124.3)
213TC	7.5	3	16.00 (406)	40.00 (1016)	36.35 (923)	11.25 (286)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	11.00 (279)	6.00 (152)	290 (131.5)	305 (138.3)
215TC	10	5	16.00 (406)	40.00 (1016)	36.35 (923)	11.25 (286)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	11.00 (279)	6.00 (152)	300 (136.1)	320 (145.1)
254TC	15	7.5	16.00 (406)	40.00 (1016)	42.33 (1075)	11.25 (286)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	11.00 (279)	6.00 (152)	350 (158.8)	390 (176.9)
256TC	20	—	16.00 (406)	40.00 (1016)	42.33 (1075)	11.25 (286)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	11.00 (279)	6.00 (152)	360 (163.3)	430 (195.0)
284TC	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	11.00 (279)	6.00 (152)	460 (208.7)	500 (226.8)

*Assembly weight combines pump and motor.



SERIES 4030 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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MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 4 × 3 × 13 | SUBMITTAL

File No: 40.74
Date: OCTOBER 15, 2013
Supersedes: 40.74
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: 4" (100mm) Lugged
Discharge: 3" (75mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

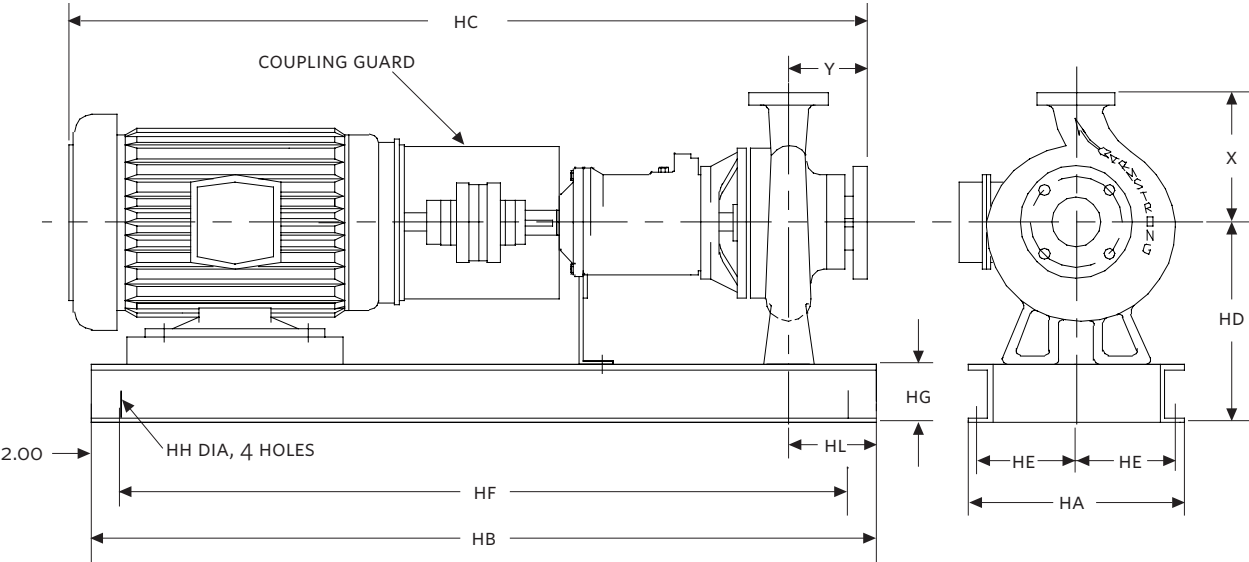
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

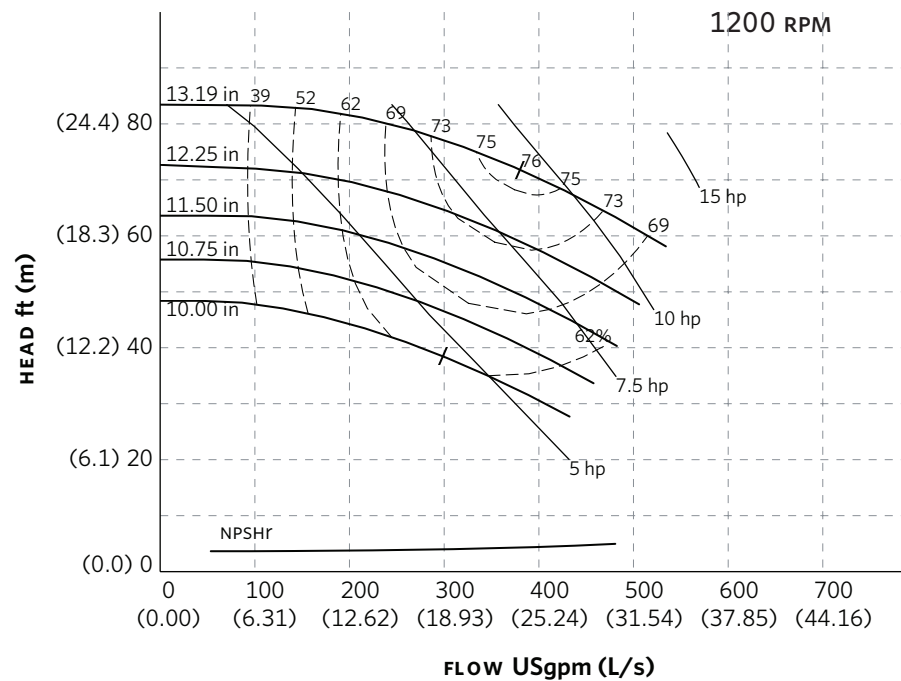
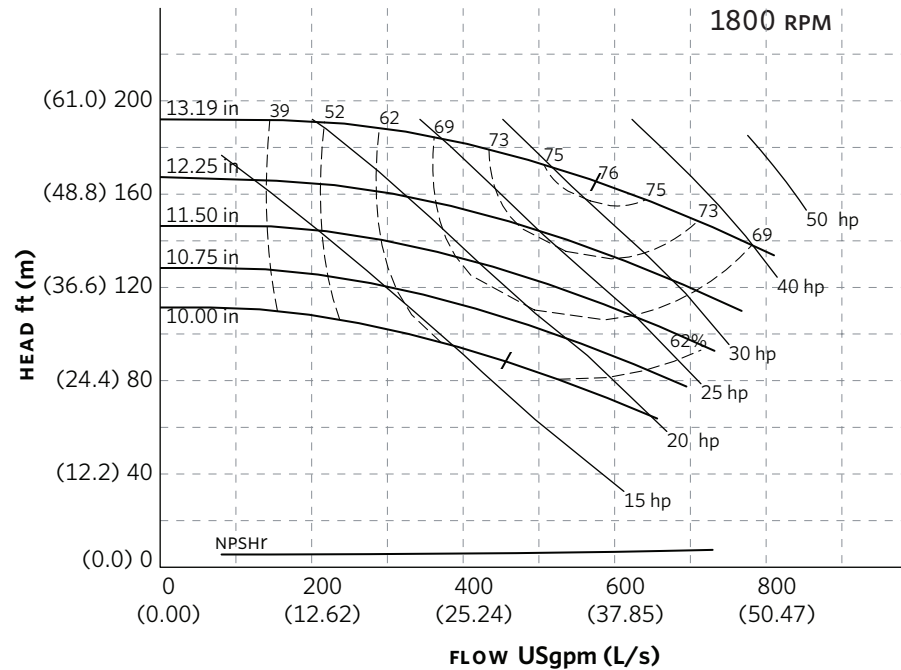
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP/TEFC													ODP	TEFC
213TC	—	3	16.00 (406)	45.00 (1143)	37.55 (954)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	400 (181.4)	415 (188.2)
215TC	10	5	16.00 (406)	45.00 (1143)	37.55 (954)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	410 (186.0)	430 (195.0)
254TC	15	7.5	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	460 (208.7)	500 (226.8)
256TC	20	10	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	470 (213.2)	540 (244.9)
284TC	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	520 (235.9)	560 (254.0)
286TC	30	—	19.00 (483)	48.00 (1219)	46.00 (1168)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	540 (244.9)	580 (263.1)
324TC	40	—	16.00 (406)	48.00 (1219)	49.63 (1261)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	695 (315.2)	870 (394.6)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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MAKING
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SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 5 × 4 × 8 | SUBMITTAL

File No: 40.581
Date: OCTOBER 15, 2013
Supersedes: 40.581
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: 5" (125mm) Lugged
Discharge: 4" (100mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

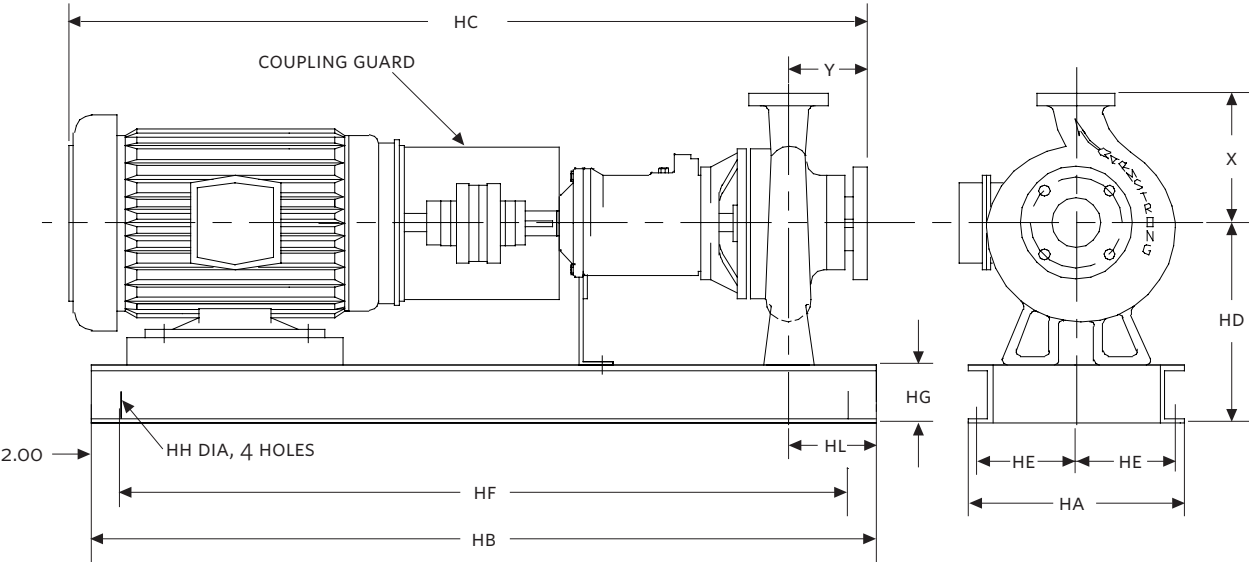
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

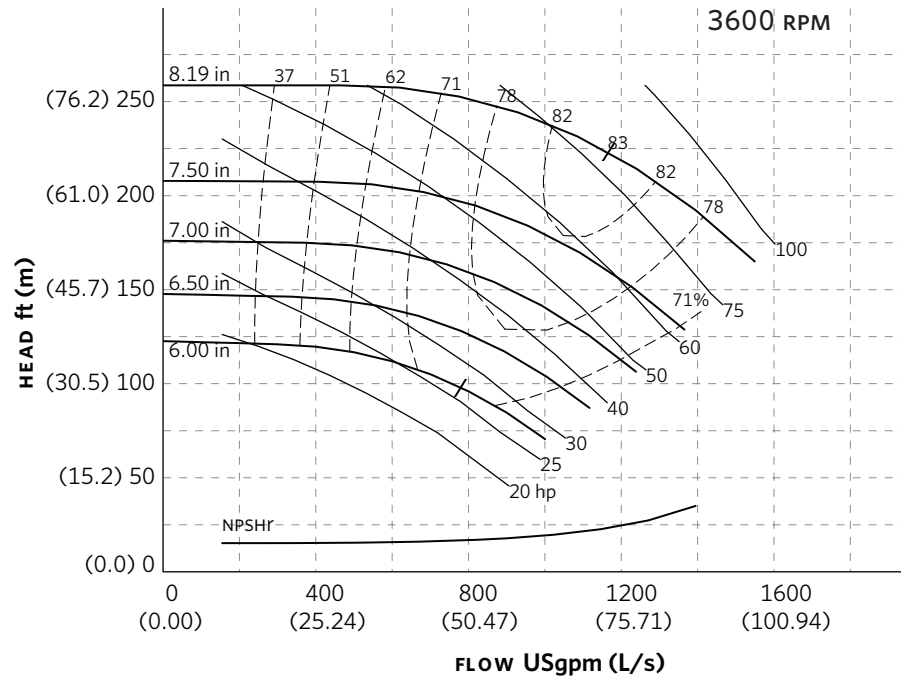
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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				MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
FRAME	ODP	TEFC														ODP	TEFC
145TC	—	—	—	1	14.00 (356)	30.00 (762)	28.02 (712)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	196 (88.9)	196 (88.9)
182TC	—	—	3	1.5	14.00 (356)	30.00 (762)	30.72 (780)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	211 (95.7)	225 (102.1)
184TC	—	—	5	2	14.00 (356)	30.00 (762)	30.72 (780)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	221 (100.2)	235 (106.6)
213TC	—	—	7.5	3	14.00 (356)	33.00 (838)	34.40 (874)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	251 (113.9)	266 (120.7)
215TC	—	—	10	5	14.00 (356)	33.00 (838)	34.40 (874)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	261 (118.4)	281 (127.5)
254TC	—	—	15	—	16.00 (406)	45.00 (1143)	43.51 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	360 (163.3)	400 (181.4)
256TC	25	—	—	—	16.00 (406)	45.00 (1143)	43.51 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	370 (167.8)	—
284TSC†	30	25	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	13.25 (337)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	420 (190.5)	440 (199.6)
286TSC†	40	30	—	—	19.00 (483)	48.00 (1219)	45.41 (1153)	13.25 (337)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	500 (226.8)	510 (231.3)
324TSC†	50	40	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	595 (269.9)	740 (335.7)
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	625 (283.5)	820 (371.9)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	790 (358.3)	930 (421.8)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	810 (367.4)	970 (440.0)

*Assembly weight combines pump and motor.
†Re-greasable ball bearings on pumps for frame sizes indicated.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT93-1-0-3600

Series
4030
4280

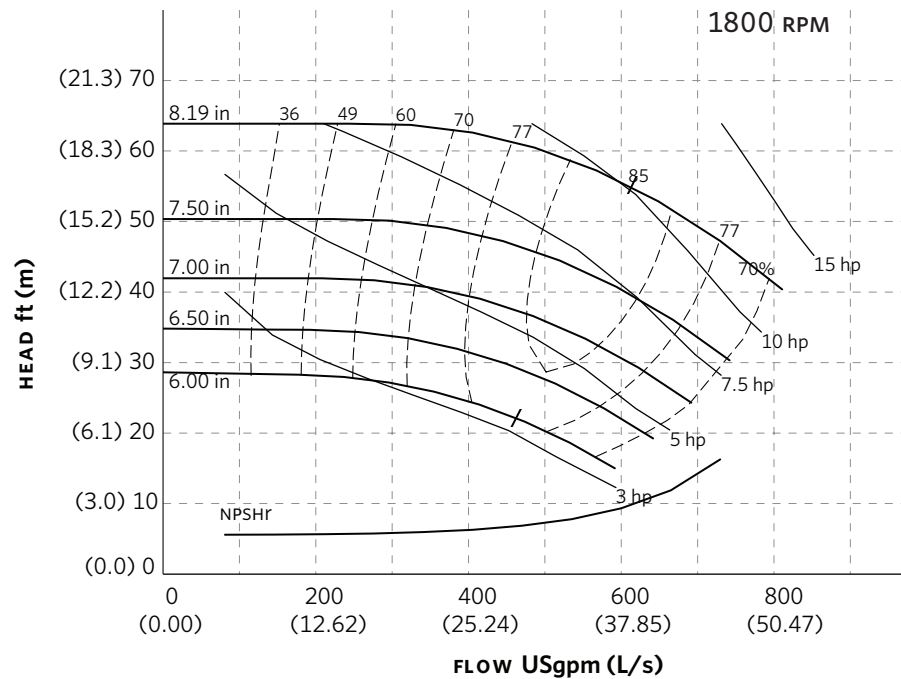
Size
5 × 4 × 8

RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4030 all ratings
4280 FR 326 MAX.

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



Curve number
PT92-1-0-1800

Series
4030
4280

Size
5 × 4 × 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

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

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ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM

MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 5 × 4 × 10 | SUBMITTAL

File No: 40.64
Date: OCTOBER 15, 2013
Supersedes: 40.64
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: 5" (125mm) Lugged
Discharge: 4" (100mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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

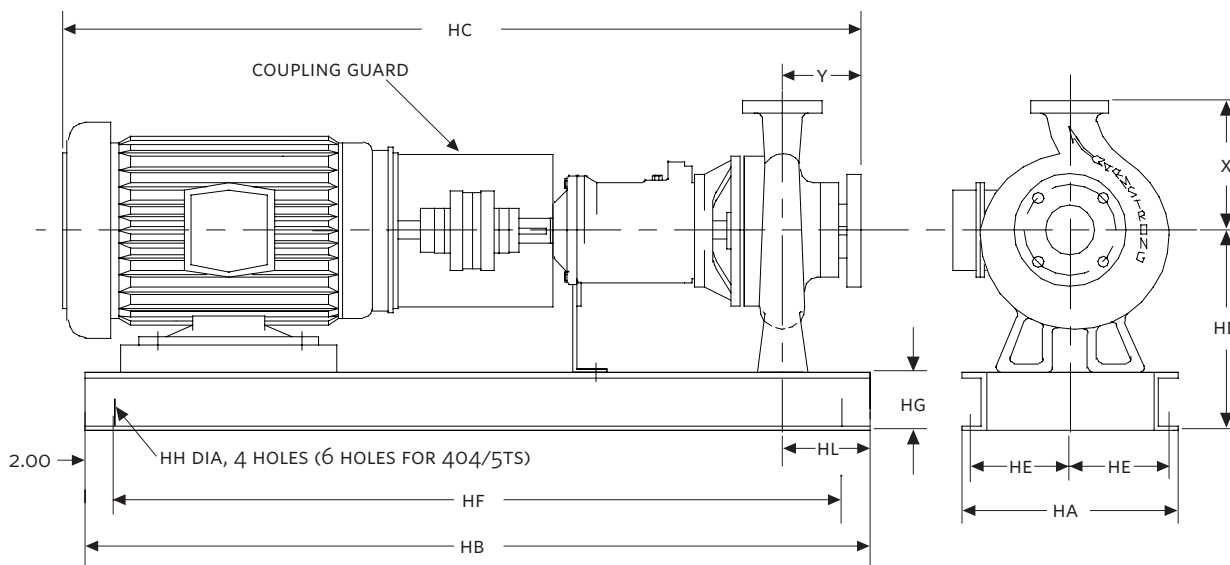
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)												MAX. ASSEMBLY WEIGHT*	
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF**	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC			ODP/TEFC												ODP
184TC	—	—	—	2	16.00 (406)	40.00 (1016)	31.95 (812)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	250 (113.4)	264 (119.7)
213TC	—	—	7.5	3	16.00 (406)	40.00 (1016)	33.92 (862)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	280 (127.0)	295 (133.8)
215TC	—	—	10	5	16.00 (406)	40.00 (1016)	33.92 (862)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	290 (131.5)	310 (140.6)
254TC	—	—	15	7.5	16.00 (406)	40.00 (1016)	38.45 (977)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	340 (154.2)	380 (172.4)
256TC	—	—	20	—	16.00 (406)	45.00 (1143)	42.56 (1081)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	400 (181.4)	470 (213.2)
284TC†	—	—	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	450 (204.1)	490 (222.3)
324TSC†	50	—	—	—	19.00 (483)	48.00 (1219)	47.94 (1218)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	625 (283.5)	—
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.94 (1218)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	655 (297.1)	850 (385.6)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.53 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	820 (371.9)	960 (435.4)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.53 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	300 (136.1)	1000 (453.6)
404TSC**†	125	—	—	—	19.00 (483)	58.00 (1473)	53.51 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	990 (449.1)	—
405TSC**†	—	100	—	—	19.00 (483)	58.00 (1473)	53.51 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	—	1365 (619.2)

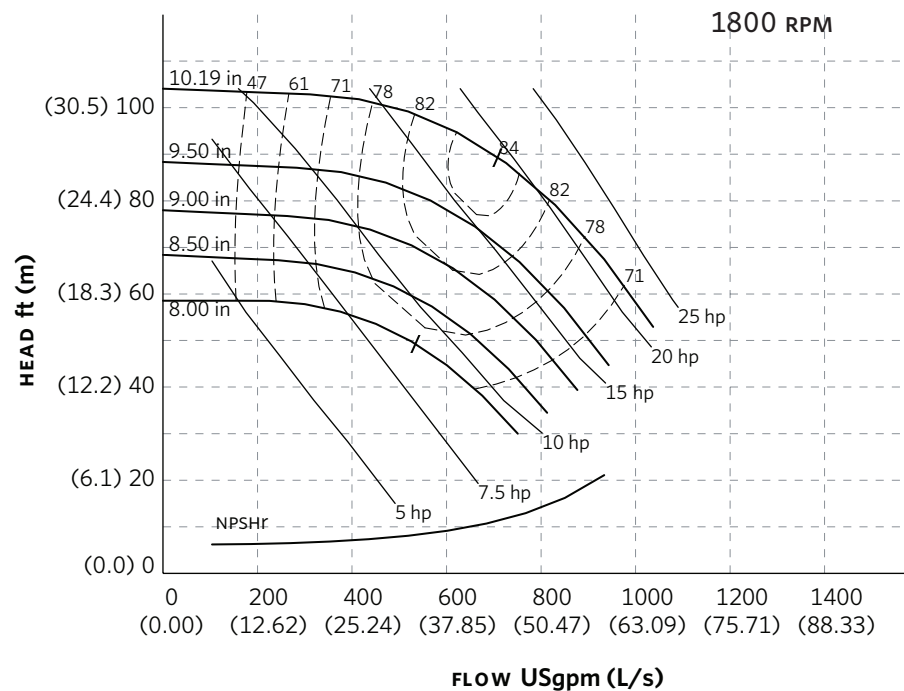
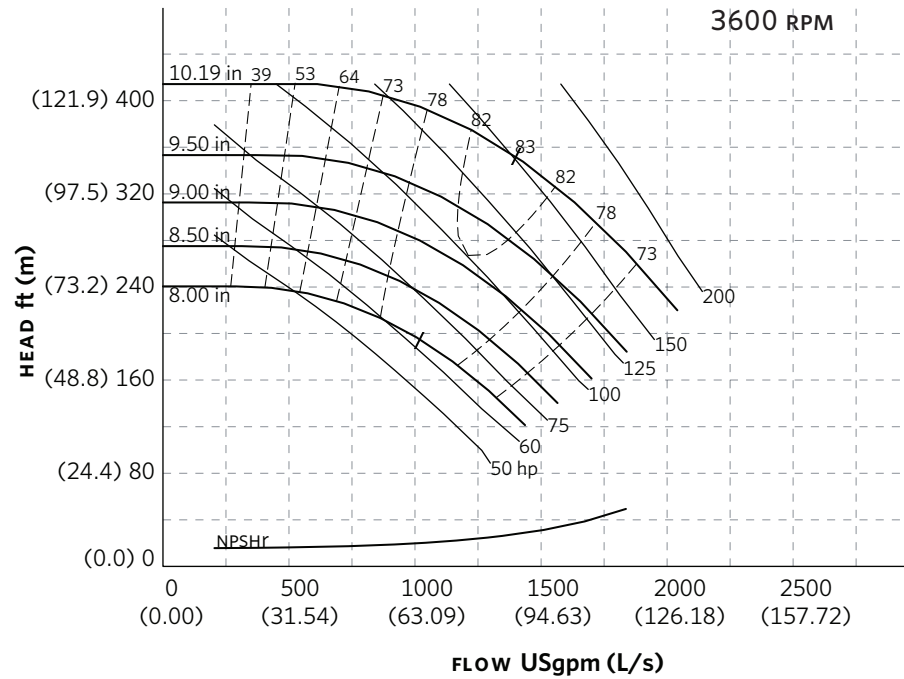
*Assembly weight combines pump and motor.

†Re-greasable ball bearings on pumps for frame sizes indicated.

**4030 5 × 4 × 10 404TS & 405TS are supplied with a 6-hole (equidistant on HF) base.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 5 × 4 × 11.5 | SUBMITTAL

File No: 40.69
Date: OCTOBER 15, 2013
Supersedes: 40.69
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: 5" (125mm) Flanged
Discharge: 4" (100mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

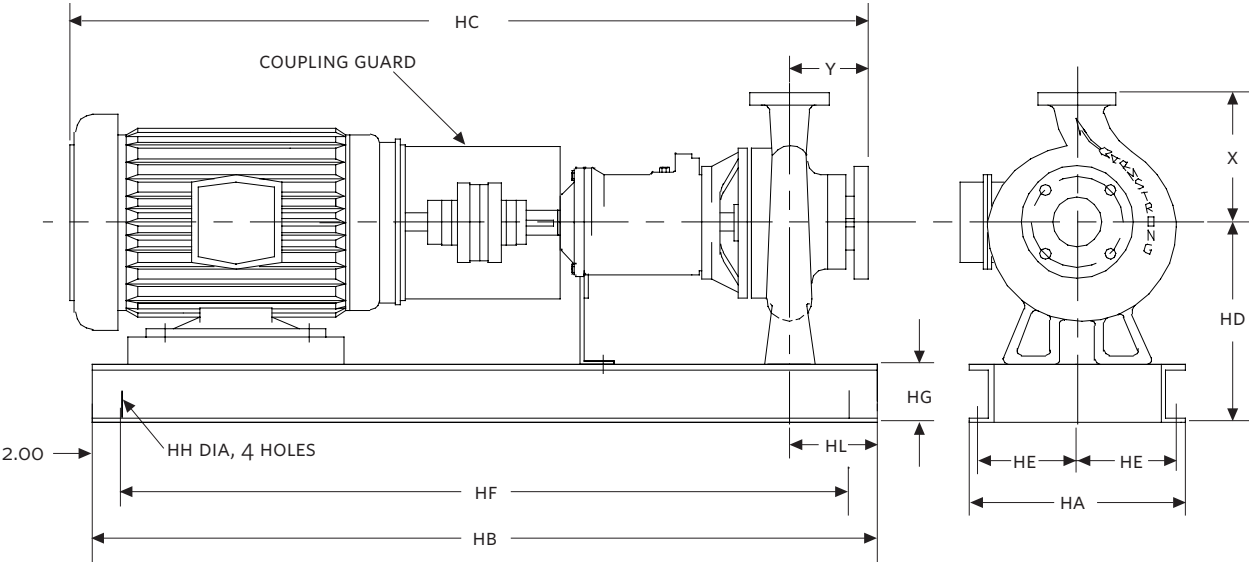
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

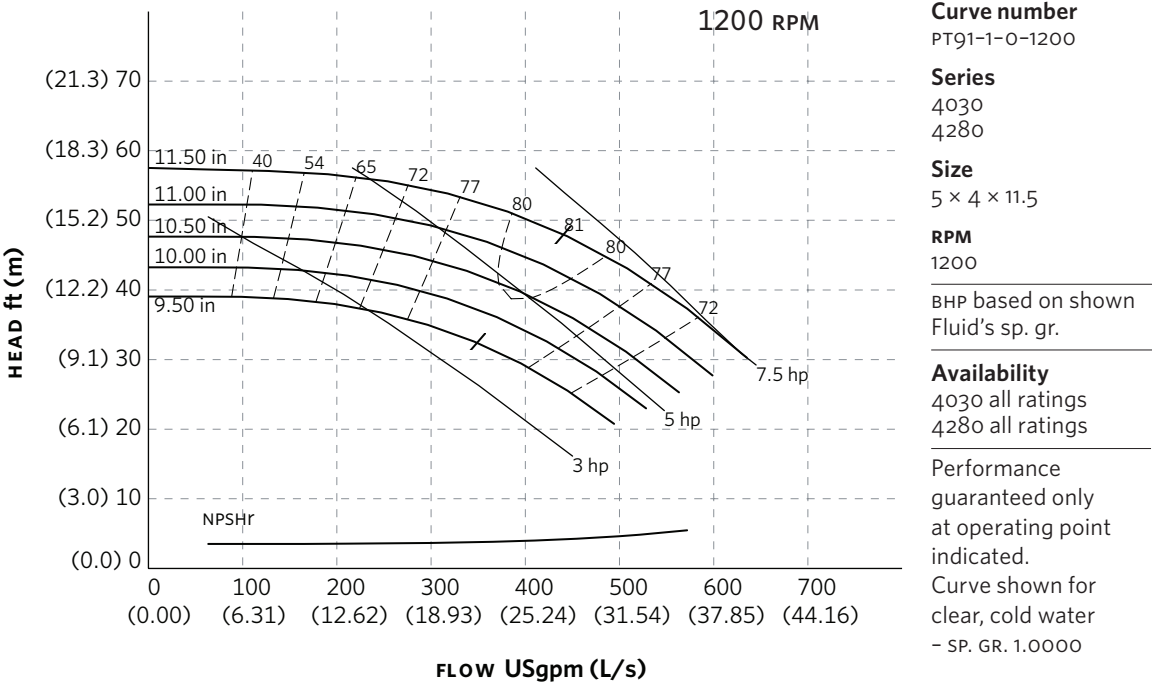
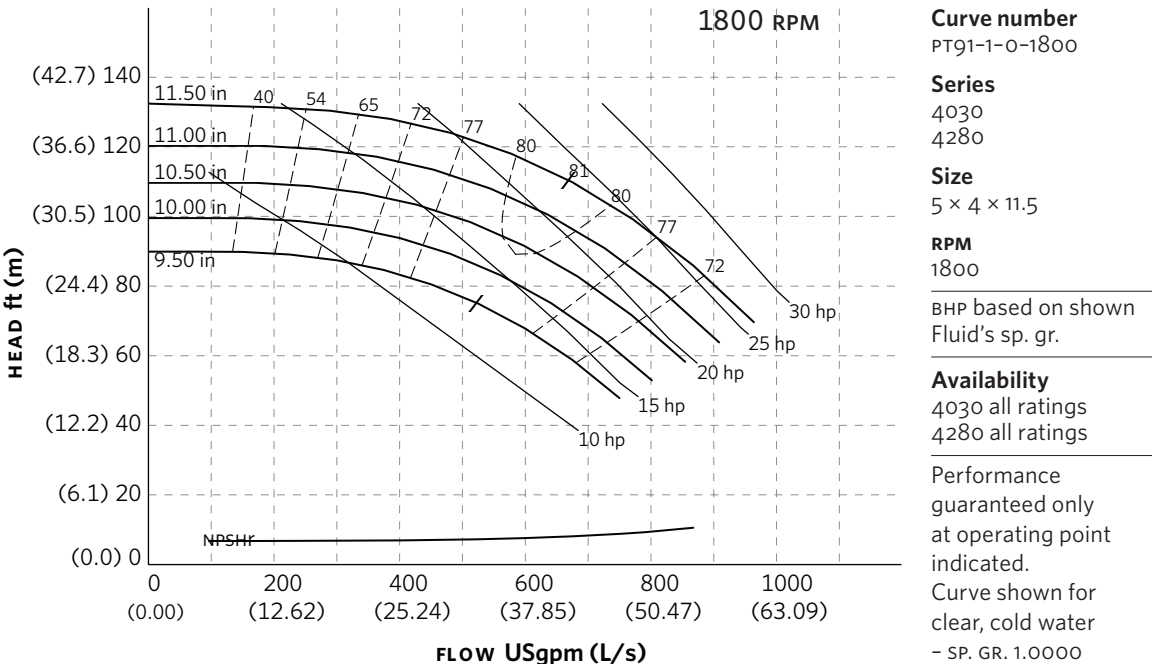
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)												MAX. ASSEMBLY WEIGHT*	
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)		
	ODP/TEFC													ODP	TEFC	
213TC	—	3	16.00 (406)	40.00 (1016)	36.35 (923)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	12.88 (327)	6.00 (152)	345 (156.5)	360 (163.3)	
215TC	10	5	16.00 (406)	40.00 (1016)	36.35 (923)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	12.88 (327)	6.00 (152)	355 (161.0)	375 (170.1)	
254TC	15	7.5	16.00 (406)	40.00 (1016)	42.33 (1075)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	12.88 (327)	6.00 (152)	405 (183.7)	445 (201.8)	
256TC	20	—	16.00 (406)	40.00 (1016)	42.33 (1075)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	12.88 (327)	6.00 (152)	415 (188.2)	485 (220.0)	
284TC	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	12.88 (327)	6.00 (152)	515 (233.6)	555 (251.7)	
286TC	30	—	19.00 (483)	48.00 (1219)	46.00 (1168)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	12.88 (327)	6.00 (152)	535 (242.7)	575 (260.8)	

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 6 × 5 × 11.5 | SUBMITTAL

File No: 40.70
Date: OCTOBER 15, 2013
Supersedes: 40.70
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: 6" (150mm) Flanged
Discharge: 5" (125mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

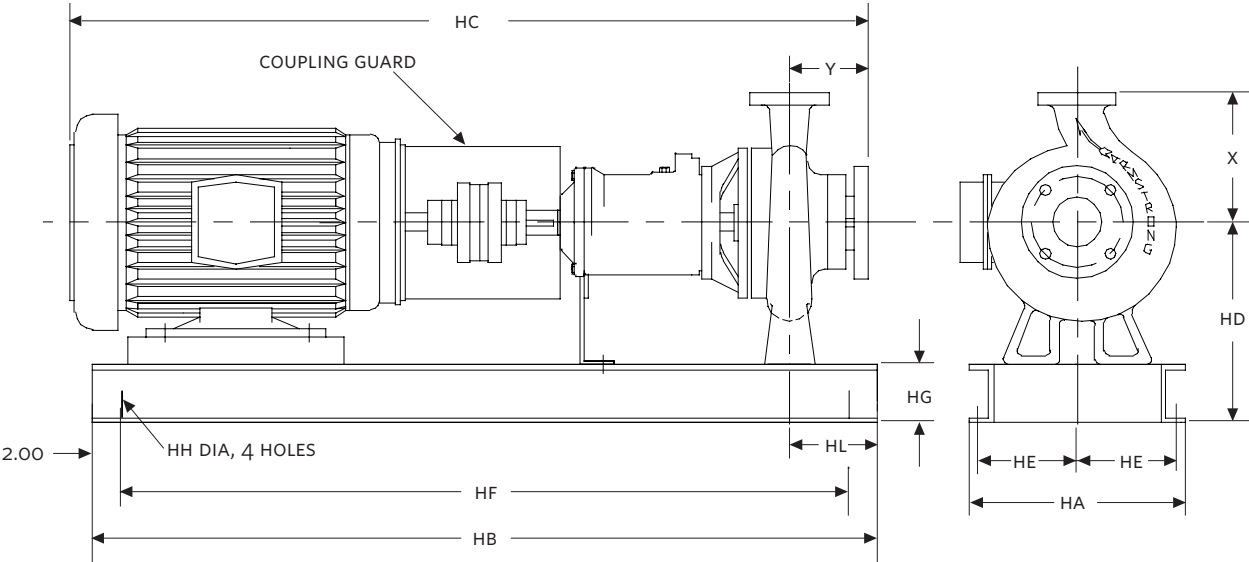
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

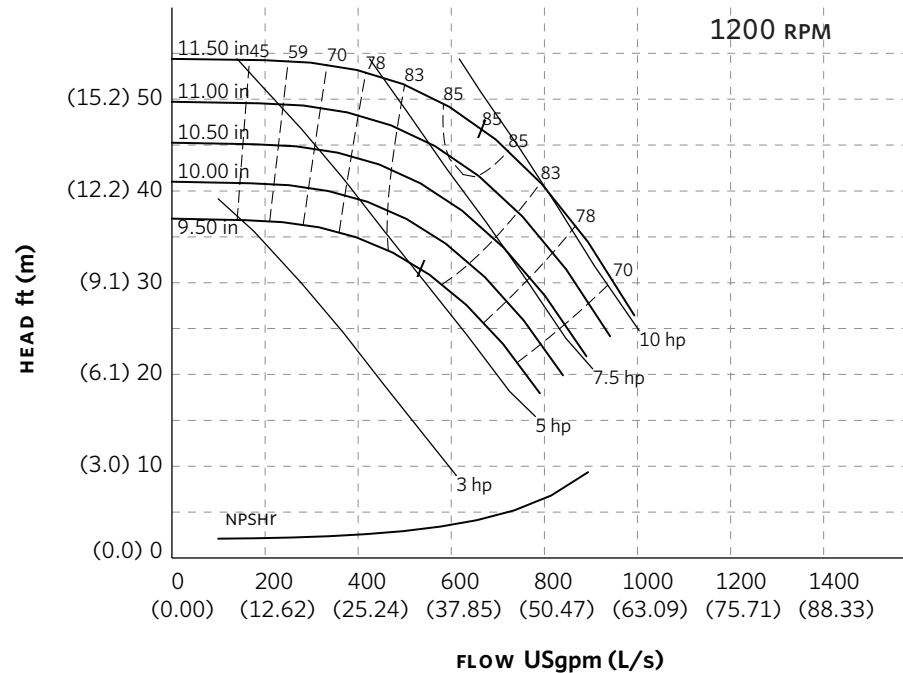
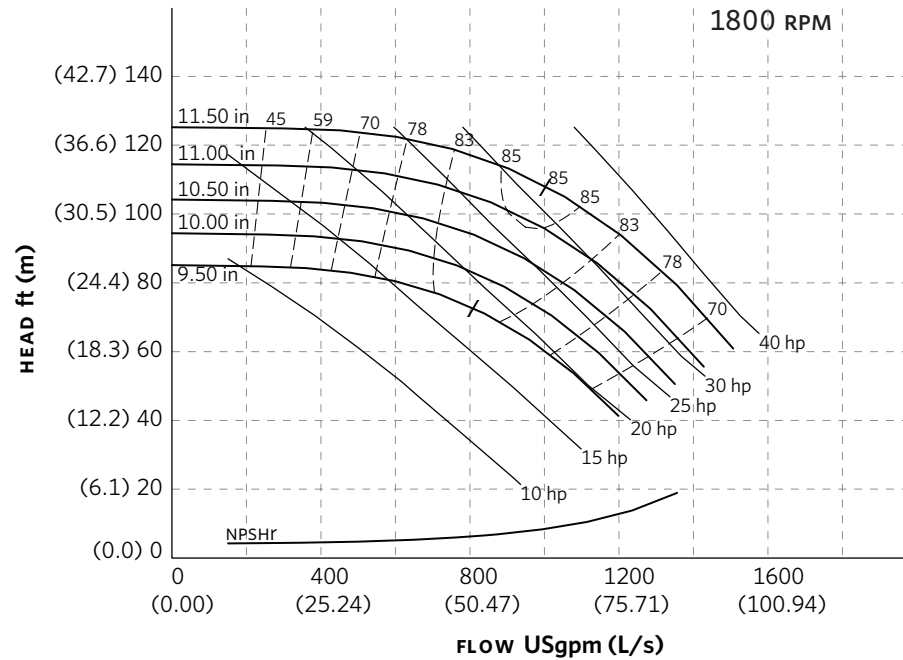
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP/TEFC													
215TC	—	5	16.00 (406)	40.00 (1016)	36.35 (923)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	6.50 (165)	14.00 (356)	6.00 (152)	425 (193.0)
254TC	15	7.5	19.00 (483)	48.00 (1219)	45.52 (1156)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	14.00 (356)	6.00 (152)	550 (249.7)
256TC	20	10	19.00 (483)	48.00 (1219)	45.52 (1156)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	14.00 (356)	6.00 (152)	590 (267.9)
284TC	25	—	19.00 (483)	48.00 (1219)	48.64 (1235)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	14.00 (356)	6.00 (152)	610 (276.9)
286TC	30	—	19.00 (483)	48.00 (1219)	48.64 (1235)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	14.00 (356)	6.00 (152)	630 (286.0)
324TC	40	—	19.00 (483)	48.00 (1219)	51.65 (1312)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	14.00 (356)	6.00 (152)	920 (417.7)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 6 × 4 × 8 | SUBMITTAL

File No: 40.59
Date: OCTOBER 15, 2013
Supersedes: 40.59
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: 6" (150mm) Lugged
Discharge: 4" (100mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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

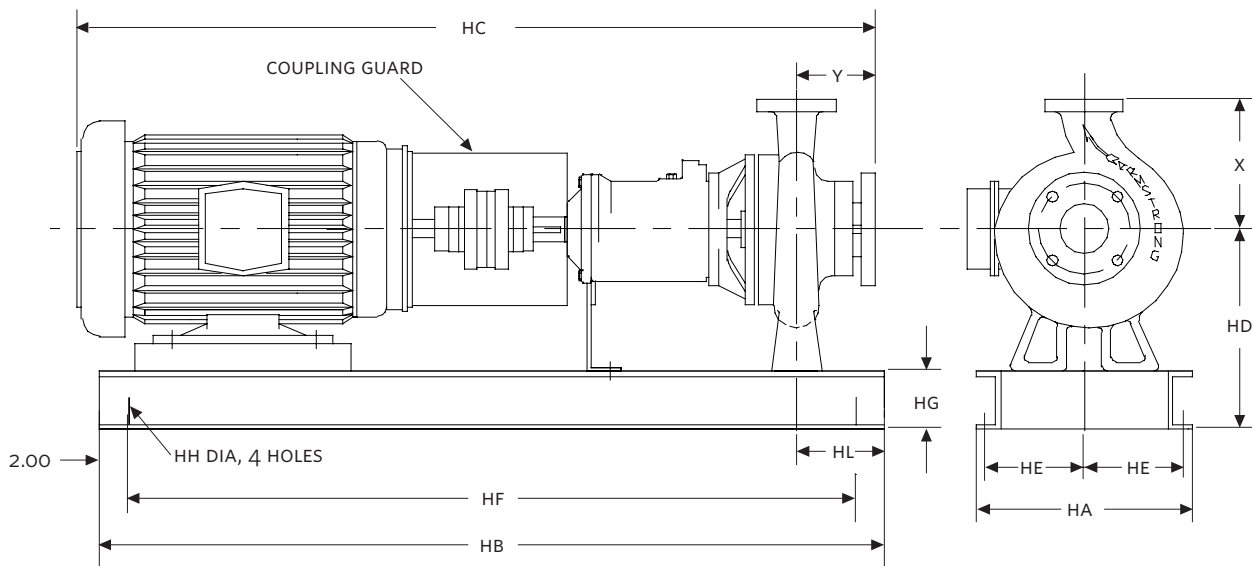
OPTIONAL EQUIPMENT

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

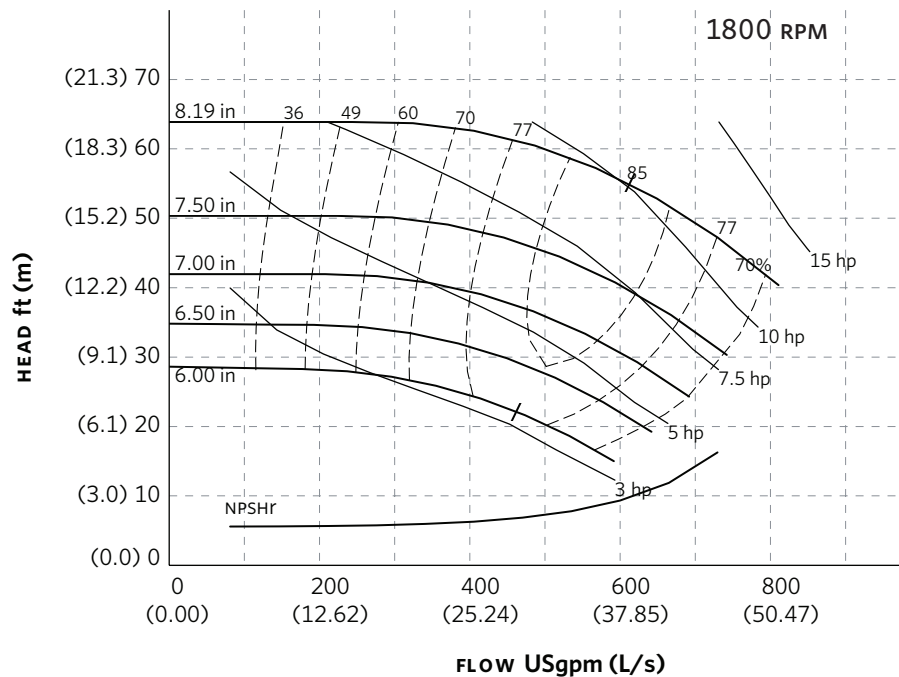
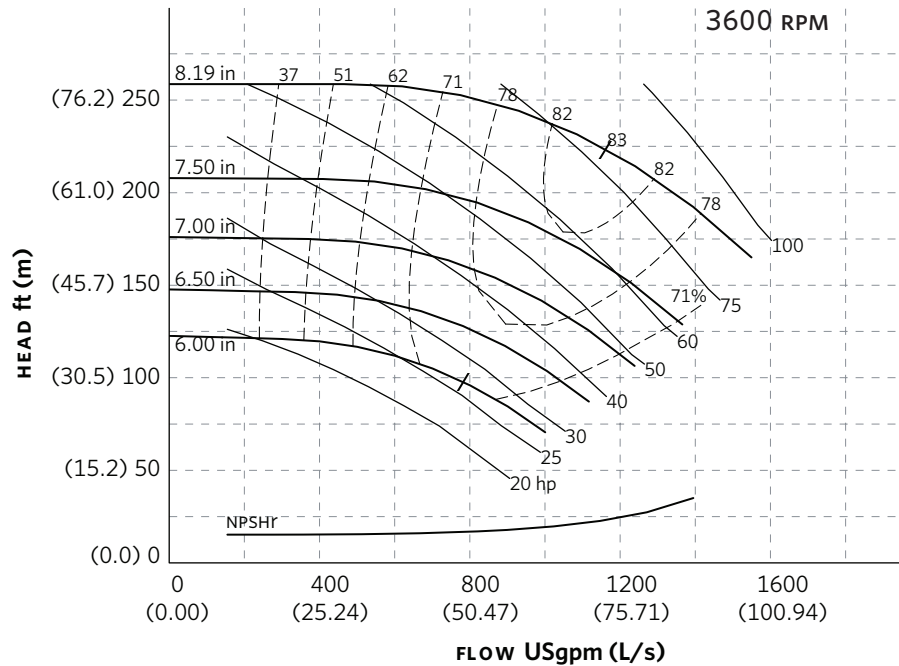
MOTOR	HORSEPOWER @ RPM			MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*		
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC														ODP	TEFC
145TC	—	—	3	1	14.00 (356)	30.00 (762)	28.02 (712)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	202 (91.6)	202 (91.6)
182TC	—	—		1.5	14.00 (356)	30.00 (762)	30.72 (780)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	217 (98.4)	231 (104.8)
184TC	—	—		2	14.00 (356)	30.00 (762)	30.72 (780)	11.25 (286)	6.38 (162)	26.00 (660)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	227 (103.0)	241 (109.3)
213TC	—	—	7.5	3	14.00 (356)	33.00 (838)	34.40 (874)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	257 (116.6)	272 (123.4)
215TC	—	—	10	5	14.00 (356)	33.00 (838)	34.40 (874)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	267 (121.1)	287 (130.2)
254TC	—	—	15	—	16.00 (406)	45.00 (1143)	43.51 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	367 (166.5)	407 (184.6)
256TC	25	—	—	—	16.00 (406)	45.00 (1143)	43.51 (1105)	11.25 (286)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	377 (171.0)	—
284TSC†	30	25	—	—	19.00 (483)	48.00 (1219)	44.63 (1134)	13.25 (337)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	427 (193.7)	447 (202.8)
286TSC†	40	30	—	—	19.00 (483)	48.00 (1219)	45.41 (1153)	13.25 (337)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	507 (230.0)	517 (234.5)
324TSC†	50	40	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	602 (273.1)	747 (338.8)
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.92 (1217)	12.25 (311)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	632 (286.7)	827 (375.1)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	797 (361.5)	937 (425.0)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.51 (1258)	14.50 (368)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	11.00 (279)	4.00 (102)	817 (370.6)	977 (443.2)

*Assembly weight combines pump and motor.

†Re-greaseable ball bearings on pumps for frame sizes indicated.



SERIES 4030 PERFORMANCE CURVES



Performance curves are for reference only.
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201401
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ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM

MAKING
ENERGY
MAKE
SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 6 × 4 × 10 | SUBMITTAL

File No: 40.65
Date: OCTOBER 15, 2013
Supersedes: 40.65
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: 6" (150mm) Lugged
Discharge: 4" (100mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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

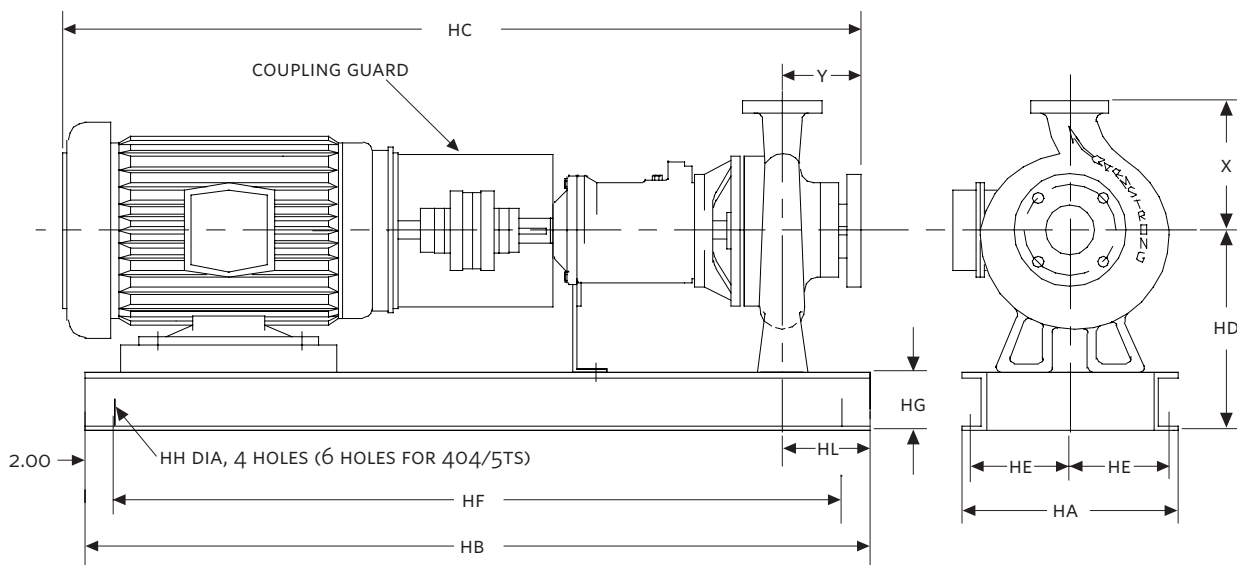
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)												MAX. ASSEMBLY WEIGHT*	
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF**	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC			ODP/TEFC												ODP
184TC	—	—	—	2	16.00 (406)	40.00 (1016)	31.95 (812)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	260 (117.9)	274 (124.3)
213TC	—	—	7.5	3	16.00 (406)	40.00 (1016)	33.92 (862)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	290 (131.5)	305 (138.3)
215TC	—	—	10	5	16.00 (406)	40.00 (1016)	33.92 (862)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	300 (136.1)	320 (145.1)
254TC	—	—	15	7.5	16.00 (406)	40.00 (1016)	38.45 (977)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	350 (158.8)	390 (176.9)
256TC	—	—	20	—	16.00 (406)	45.00 (1143)	42.56 (1081)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	411 (186.4)	481 (218.2)
284TC†	—	—	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	461 (209.1)	501 (227.2)
324TSC†	50	—	—	—	19.00 (483)	48.00 (1219)	46.64 (1185)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	636 (288.5)	—
326TSC†	60	50	—	—	19.00 (483)	48.00 (1219)	47.94 (1218)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	666 (302.1)	861 (390.5)
364TSC†	75	60	—	—	19.00 (483)	48.00 (1219)	49.53 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	831 (376.9)	971 (440.4)
365TSC†	100	75	—	—	19.00 (483)	48.00 (1219)	49.53 (1258)	15.50 (394)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	851 (386.0)	1011 (458.6)
404TSC**†	125	—	—	—	19.00 (483)	58.00 (1473)	53.51 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	1001 (454.0)	—
405TSC**†	—	100	—	—	19.00 (483)	58.00 (1473)	53.51 (1359)	15.50 (394)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	—	1376 (624.1)

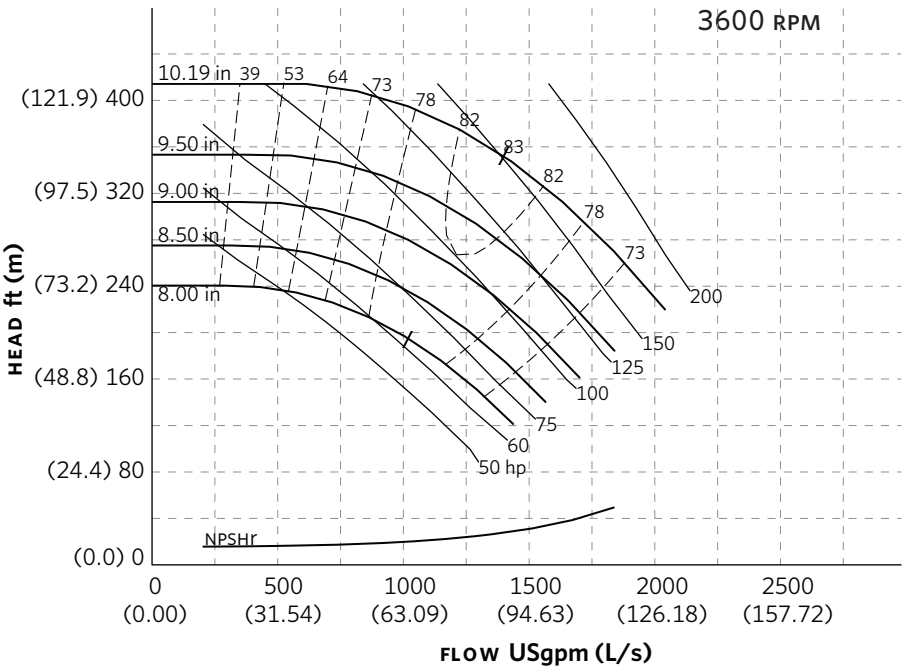
*Assembly weight combines pump and motor.

†Re-greasable ball bearings on pumps for frame sizes indicated.

**4030 6 × 4 × 10 404TS & 405TS are supplied with a 6-hole (equidistant on HF) base.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT97-1-0-3600

Series
4030

Size
6 × 4 × 10

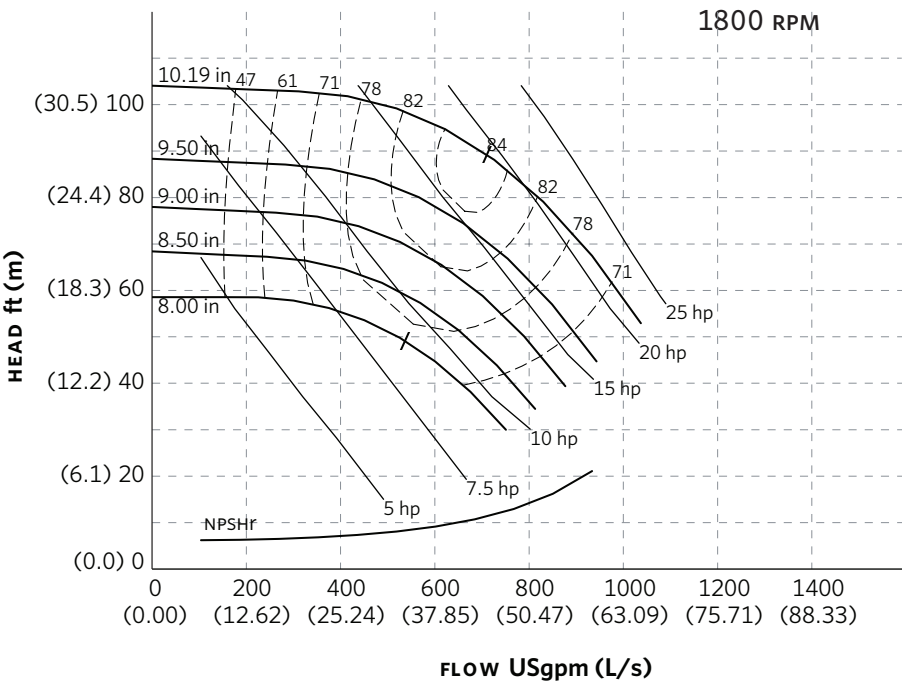
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4030 FR 405 MAX.

Performance
guaranteed only
at operating point
indicated.

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



Curve number
PT96-1-0-1800

Series
4030
4280

Size
6 × 4 × 10

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

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ESTABLISHED 1934

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MAKING
ENERGY
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SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 6 × 4 × 13 | SUBMITTAL

File No: 40.75
Date: OCTOBER 15, 2013
Supersedes: 40.75
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: 6" (150mm) Lugged
Discharge: 4" (100mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

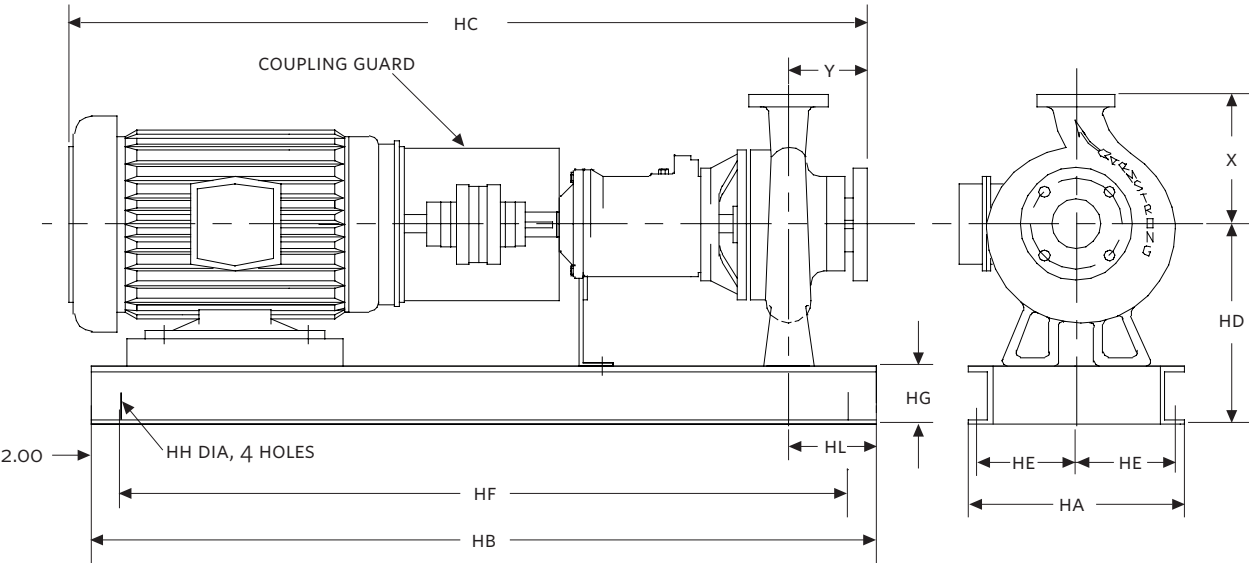
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

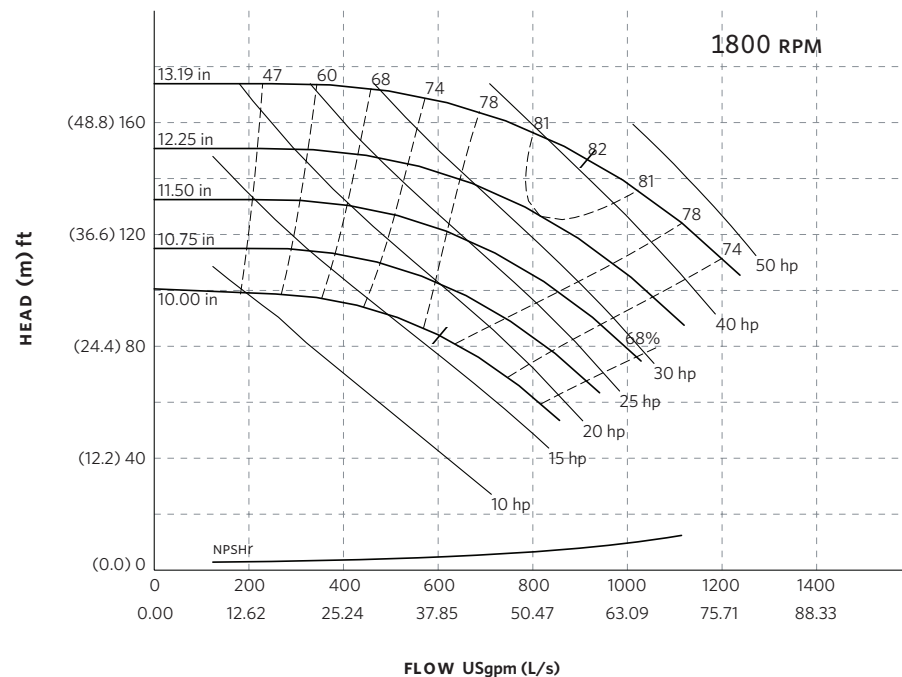
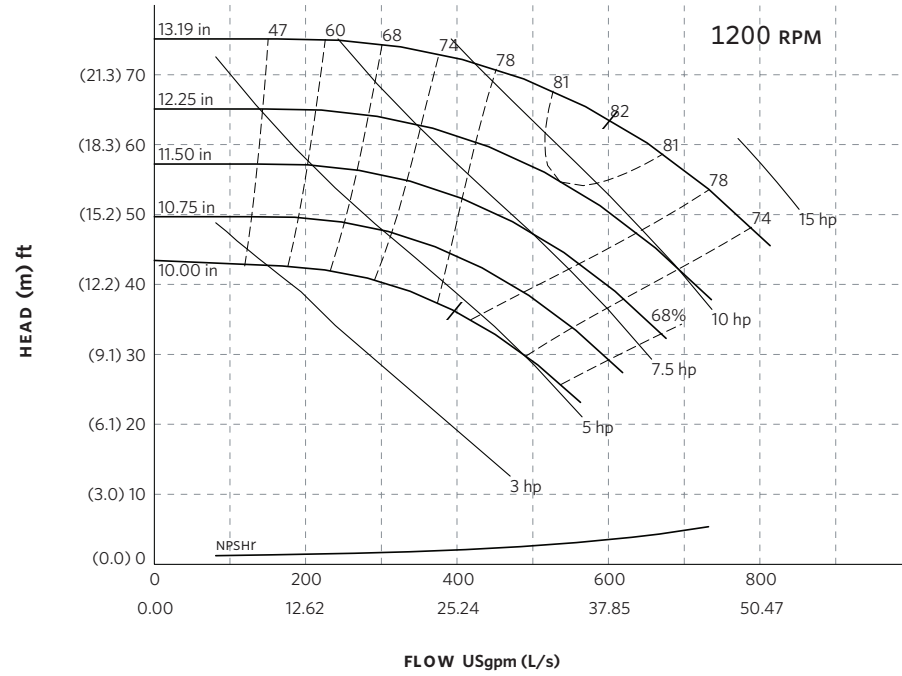
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)												MAX. ASSEMBLY WEIGHT*	
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)		
	ODP/TEFC													ODP	TEFC	
254TC	15	7.5	19.00 (483)	48.00 (1219)	43.51 (1105)	15.00 (381)	8.87 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.00 (152)	14.00 (356)	5.51 (140)	601 (273)	641 (291)	
256TC	20	10	19.00 (483)	48.00 (1219)	43.51 (1105)	15.00 (381)	8.87 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.00 (152)	14.00 (356)	5.51 (140)	611 (277)	681 (309)	
284TC	25	15	19.00 (483)	48.00 (1219)	45.37 (1152)	15.00 (381)	8.87 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.00 (152)	14.00 (356)	5.51 (140)	661 (300)	701 (318)	
286TC	30	—	19.00 (483)	48.00 (1219)	45.37 (1152)	15.00 (381)	8.87 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.00 (152)	14.00 (356)	5.51 (140)	681 (309)	721 (327)	
324TC	40	—	19.00 (483)	48.00 (1219)	48.13 (1223)	15.00 (381)	8.87 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.00 (152)	14.00 (356)	5.51 (140)	836 (379)	1011 (459)	
326TC	50	—	19.00 (483)	48.00 (1219)	48.13 (1223)	15.00 (381)	8.87 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.00 (152)	14.00 (356)	5.51 (140)	866 (393)	1076 (488)	

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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SENSETM

SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 6 × 5 × 10 | SUBMITTAL

File No: 40.66
Date: OCTOBER 15, 2013
Supersedes: 40.66
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: 6" (150mm) Lugged
Discharge: 5" (125mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

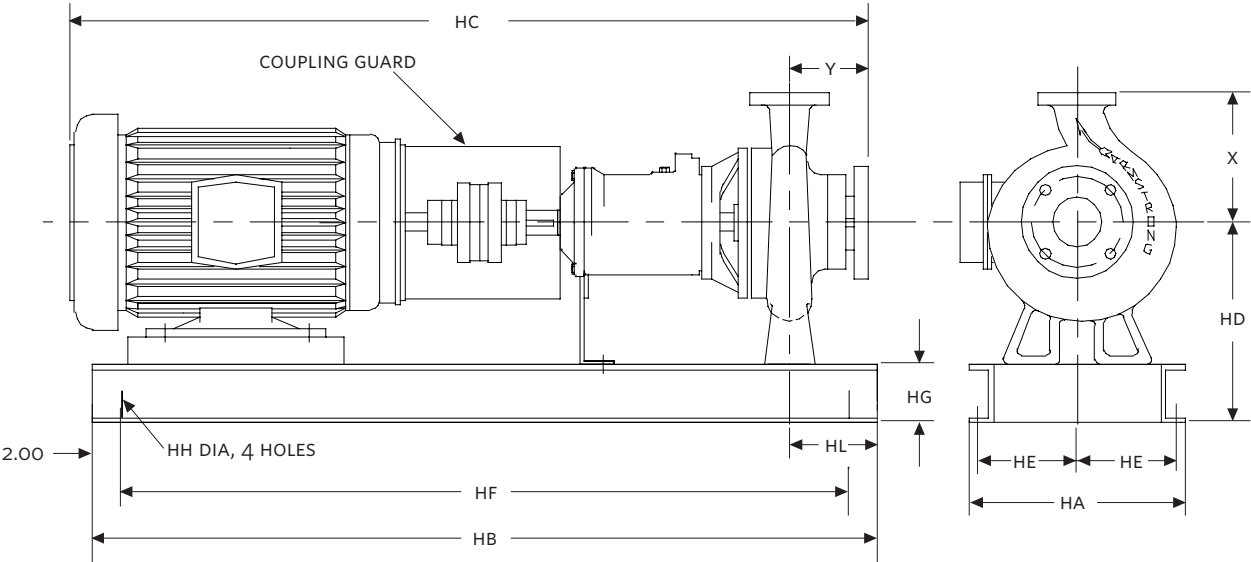
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

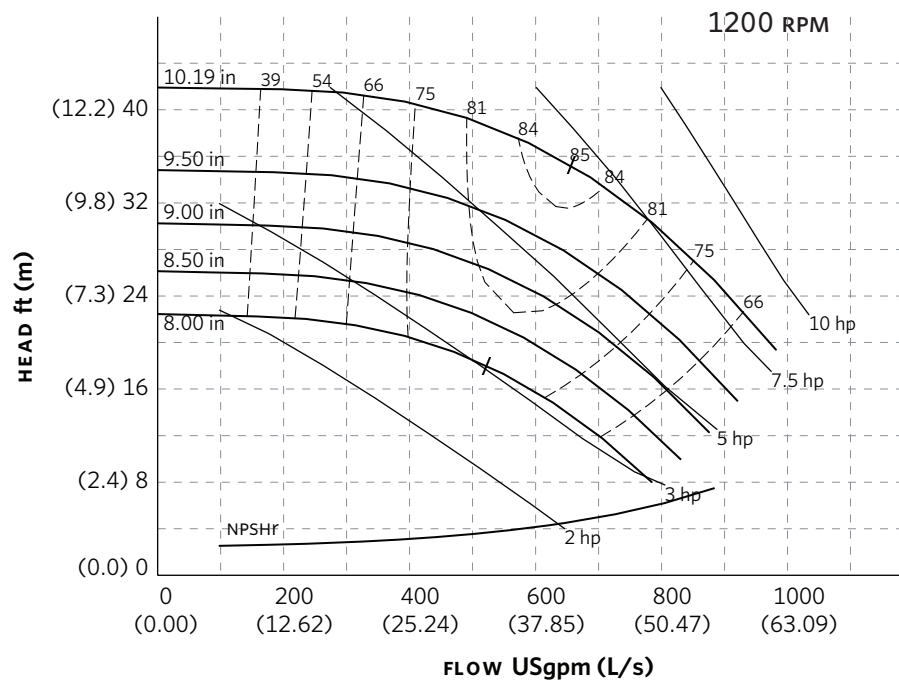
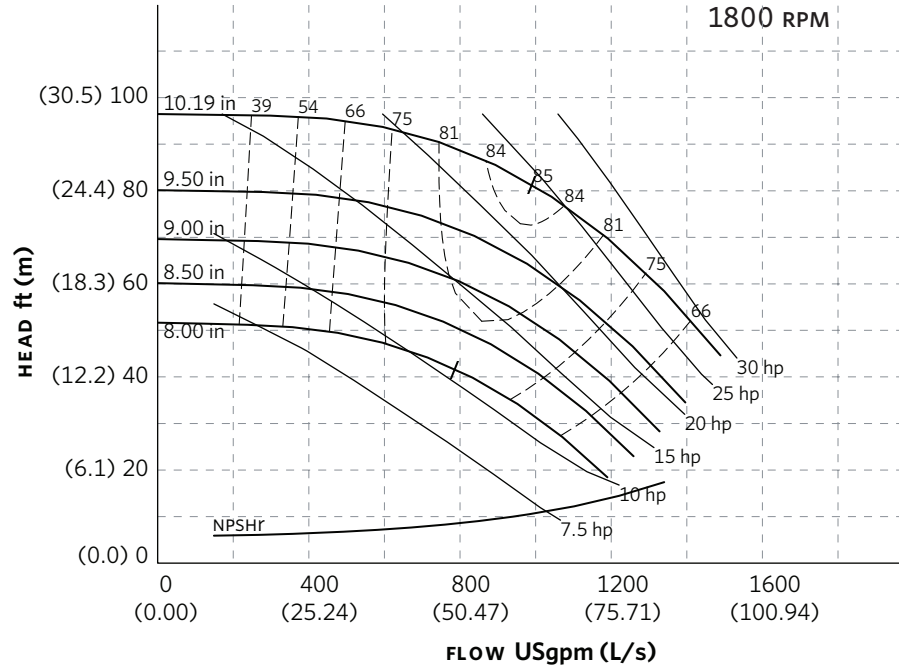
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP/TEFC													ODP	TEFC
213TC	—	3	16.00 (406)	40.00 (1016)	34.12 (867)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	300 (136.1)	315 (142.9)
215TC	10	5	16.00 (406)	40.00 (1016)	34.12 (867)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	310 (140.6)	330 (149.7)
254TC	15	7.5	16.00 (406)	40.00 (1016)	40.10 (1019)	13.00 (330)	7.38 (187)	36.00 (914)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	360 (163.3)	400 (181.4)
256TC	20	10	16.00 (406)	45.00 (1143)	43.73 (1111)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	423 (191.9)	493 (223.6)
284TC	25	—	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	473 (214.5)	513 (232.7)
286TC	30	—	19.00 (483)	48.00 (1219)	46.00 (1168)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	12.50 (318)	4.00 (102)	493 (223.6)	533 (241.8)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 6 × 6 × 6 | SUBMITTAL

File No: 40.542
Date: OCTOBER 15, 2013
Supersedes: 40.542
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: 6" (150mm) Flanged
Discharge: 6" (150mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

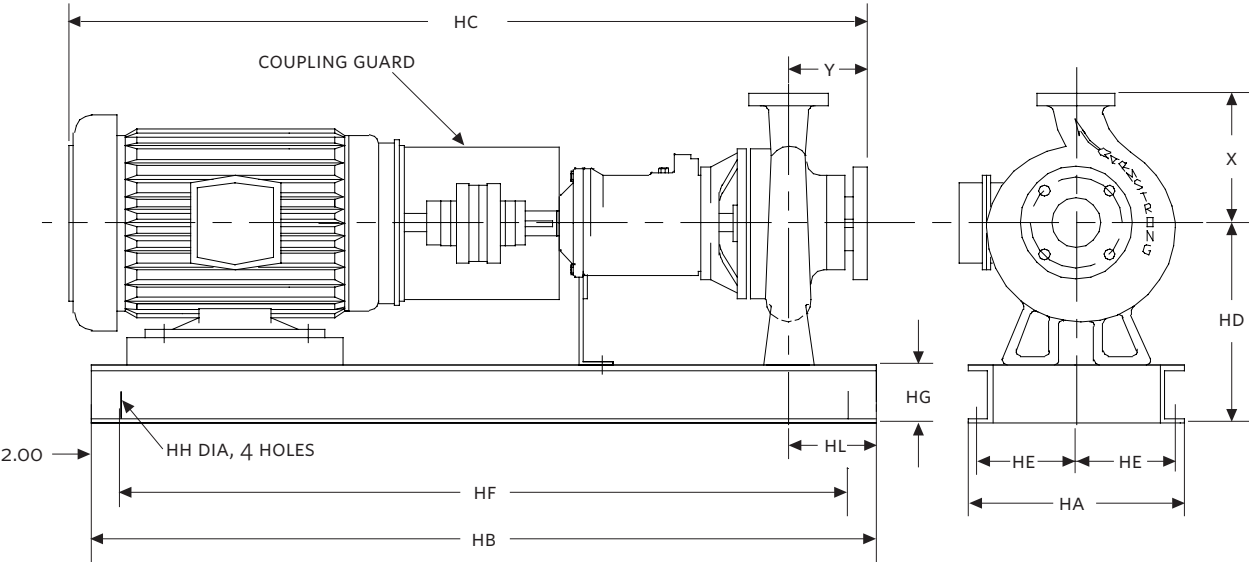
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

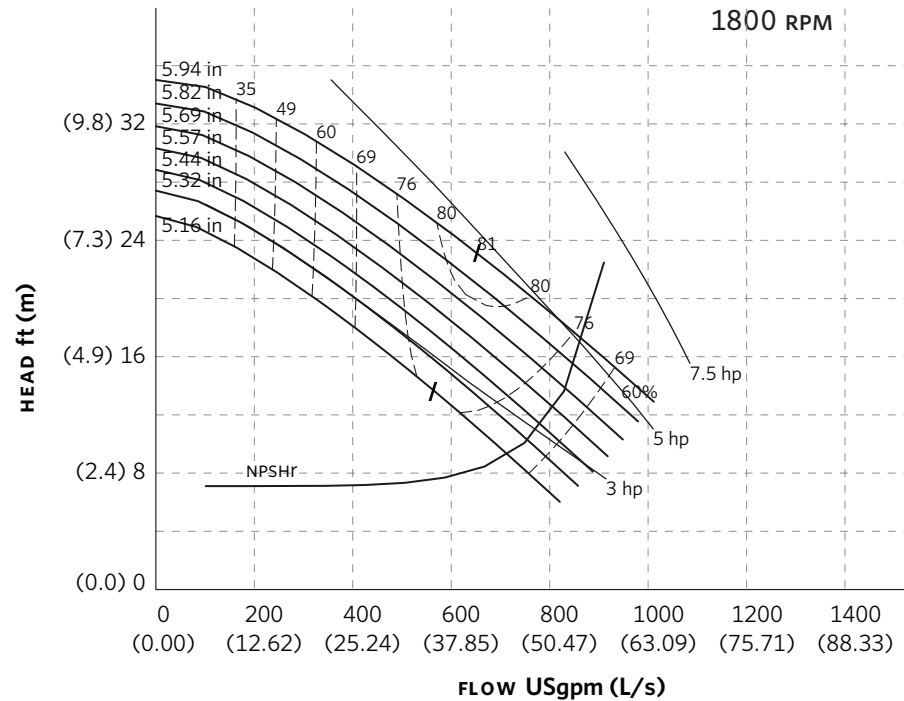
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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			MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	3600		1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP	TEFC														
56C	—	—	0.75	0.33 & 0.5	14.00 (356)	33.00 (838)	27.20 (691)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	128 (58.1)
143TC	—	—	1	0.75	14.00 (356)	33.00 (838)	30.81 (783)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	136 (61.7)
145TC	—	—	1.5 & 2	—	14.00 (356)	33.00 (838)	30.81 (783)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	136 (61.7)
182TC	5	—	3	—	14.00 (356)	33.00 (838)	33.51 (751)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	161 (73.1)
184TC	7.5	5	—	—	14.00 (356)	33.00 (838)	33.51 (751)	11.25 (286)	6.38 (162)	29.00 (737)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	171 (77.6)
213TC	10	7.5	—	—	14.00 (356)	36.00 (914)	37.18 (944)	11.25 (286)	6.38 (162)	32.00 (813)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	206 (93.5)
215TC	15	10	—	—	14.00 (356)	36.00 (914)	37.18 (944)	11.25 (286)	6.38 (162)	32.00 (813)	3.00 (76)	0.75 (19)	5.00 (127)	11.00 (279)	4.50 (114)	221 (100.3)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



Curve number
PT211-1-O-1800

Series
4030
4280

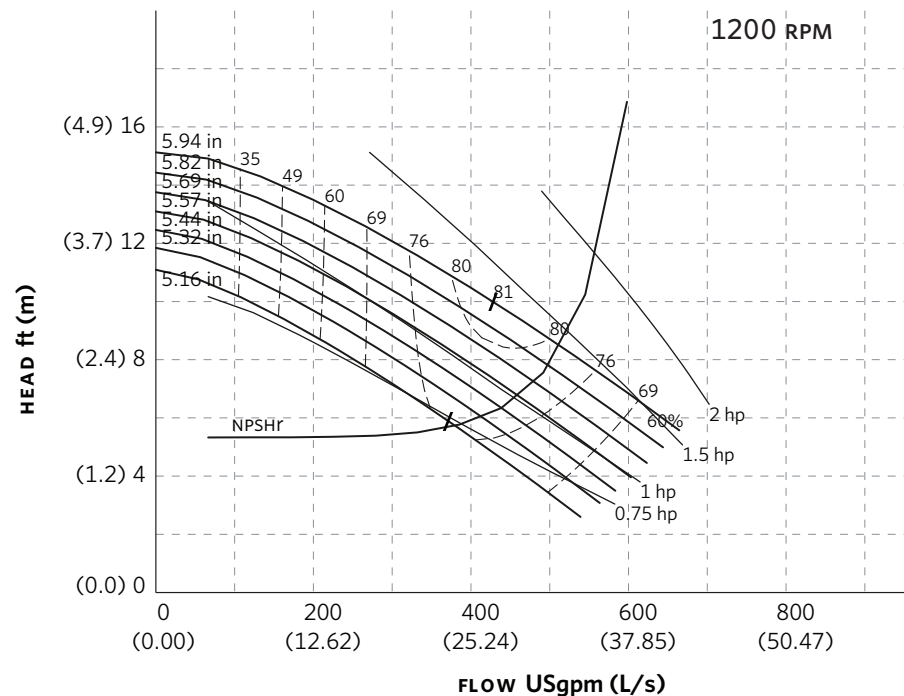
Size
6 × 6 × 6

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
PT211-1-O-1200

Series
4030
4280

Size
6 × 6 × 6

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

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Confirm current performance data with Armstrong ACE Online selection software.

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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 8 × 6 × 10 | SUBMITTAL

File No: 40.67
Date: OCTOBER 15, 2013
Supersedes: 40.67
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) Lugged
Discharge: 6" (150mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

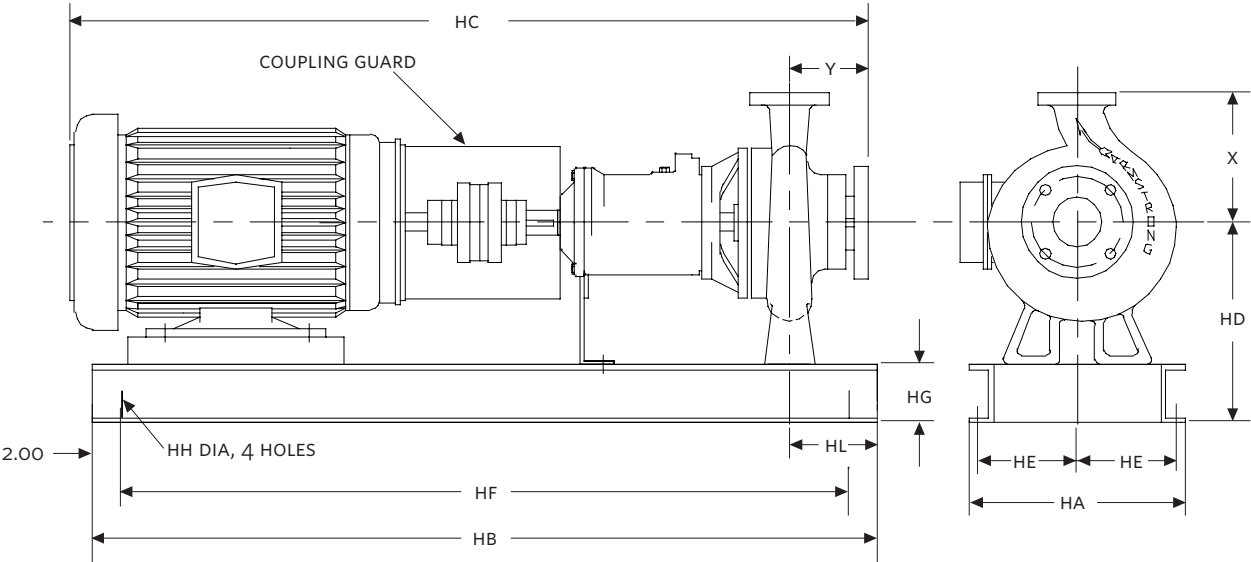
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

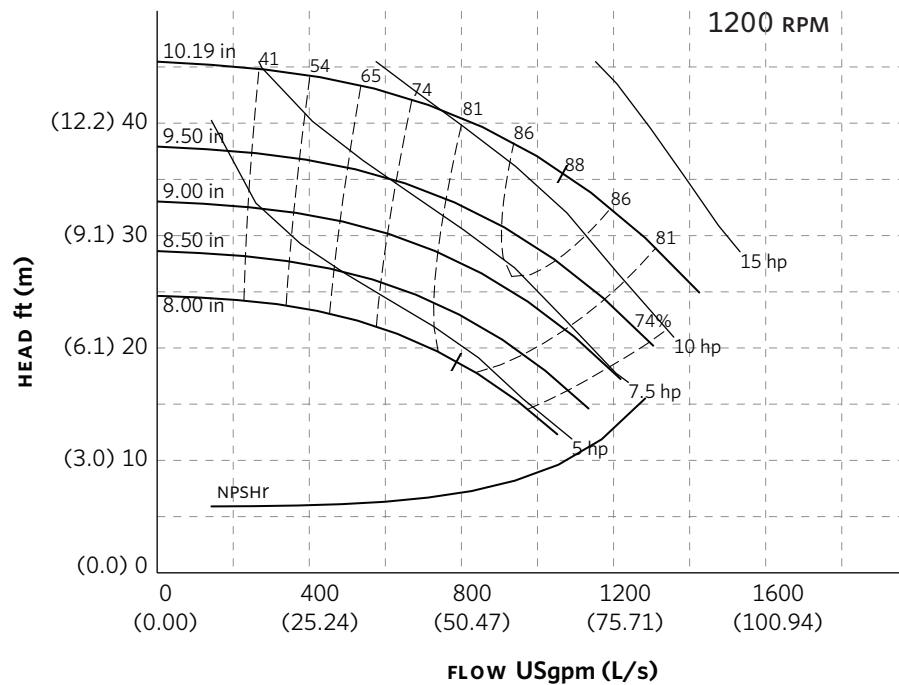
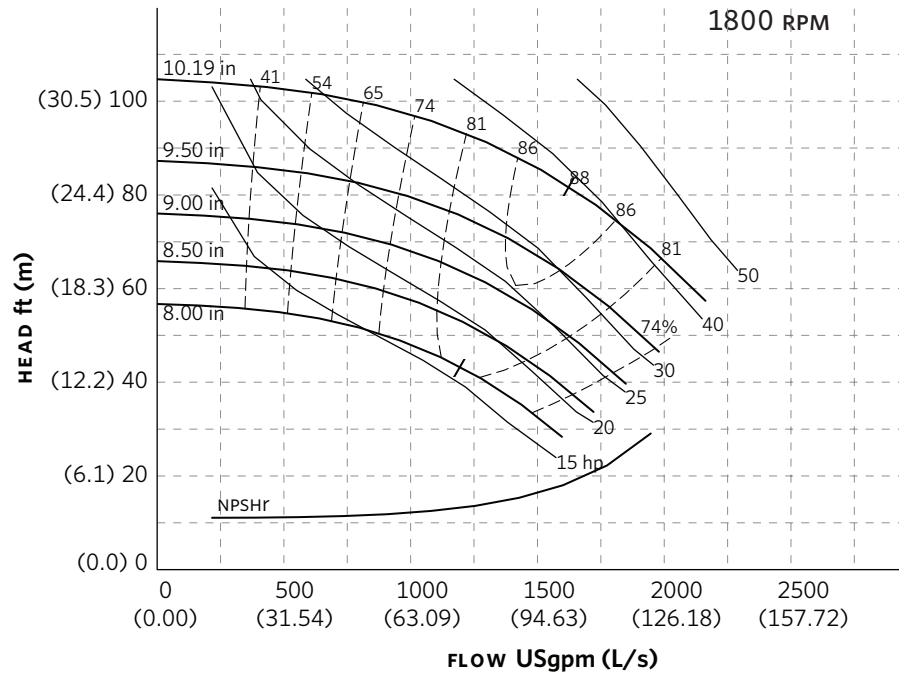
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*	
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP/TEFC													ODP	TEFC
215TC	—	5	16.00 (406)	45.00 (1143)	33.90 (861)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	13.00 (330)	4.00 (102)	401 (181.9)	416 (188.7)
254TC	15	7.5	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	13.00 (330)	4.00 (102)	451 (204.6)	491 (222.7)
256TC	20	10	16.00 (406)	45.00 (1143)	43.51 (1105)	13.00 (330)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	13.00 (330)	4.00 (102)	461 (209.1)	531 (240.9)
284TC	25	15	19.00 (483)	48.00 (1219)	44.50 (1130)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	13.00 (330)	4.00 (102)	511 (231.8)	551 (249.9)
286TC	30	—	19.00 (483)	48.00 (1219)	46.00 (1168)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	13.00 (330)	4.00 (102)	531 (240.9)	571 (259.0)
324TC	40	—	19.00 (483)	48.00 (1219)	49.63 (1261)	14.00 (356)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	13.00 (330)	4.00 (102)	686 (311.2)	861 (390.5)

*Assembly weight combines pump and motor.



SERIES 4030 PERFORMANCE CURVES



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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 8 × 6 × 11.5 | SUBMITTAL

File No: 40.71
Date: OCTOBER 15, 2013
Supersedes: 40.71
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: 6" (150mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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.

** Suction connection on ANSI 250 units will be Lugged.

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)

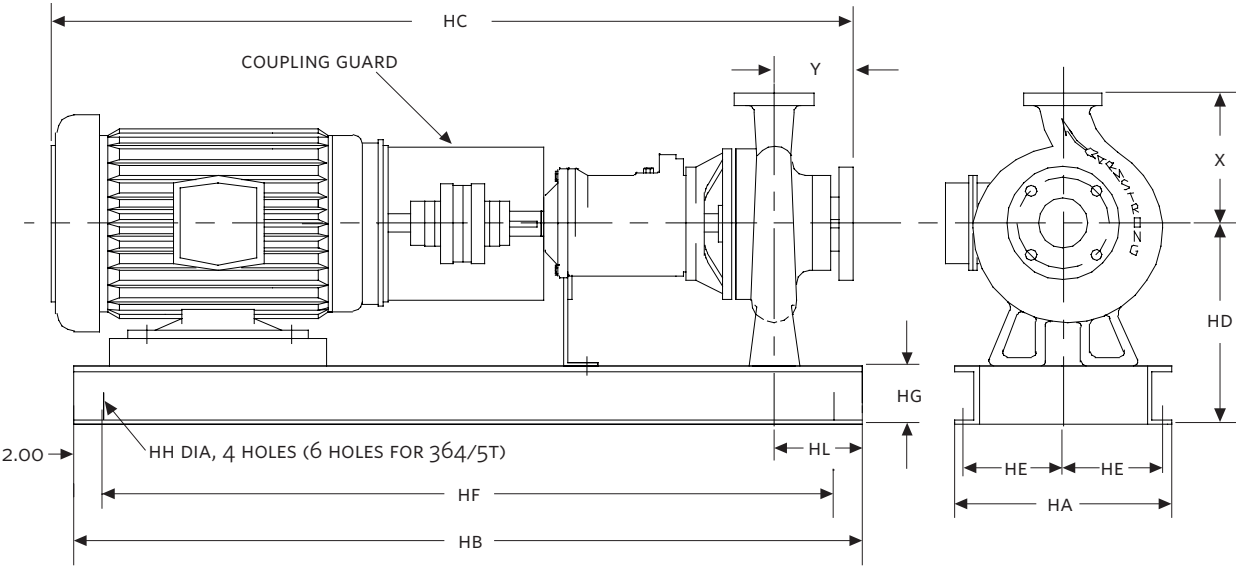
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

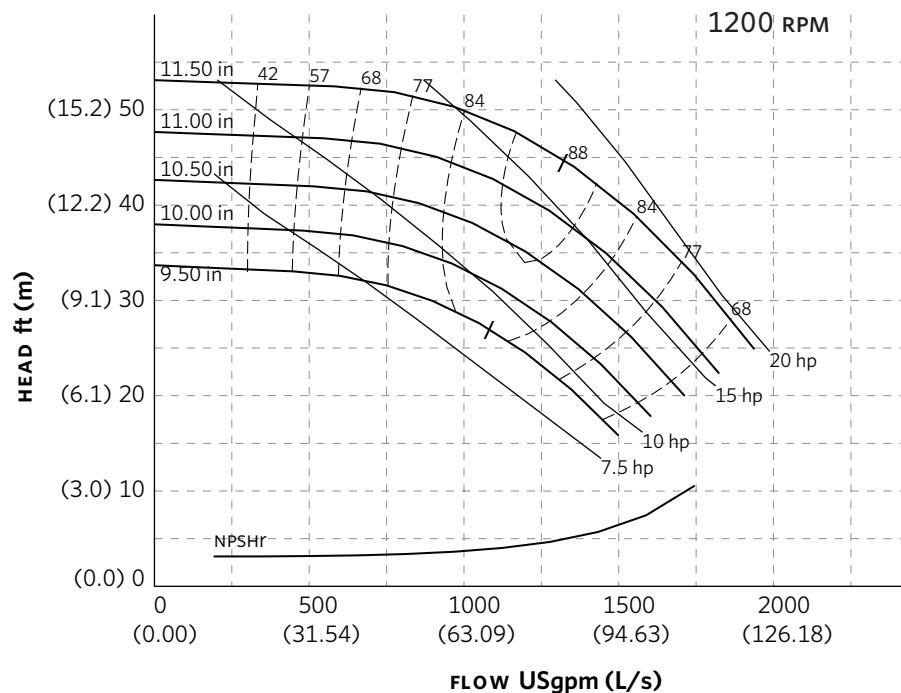
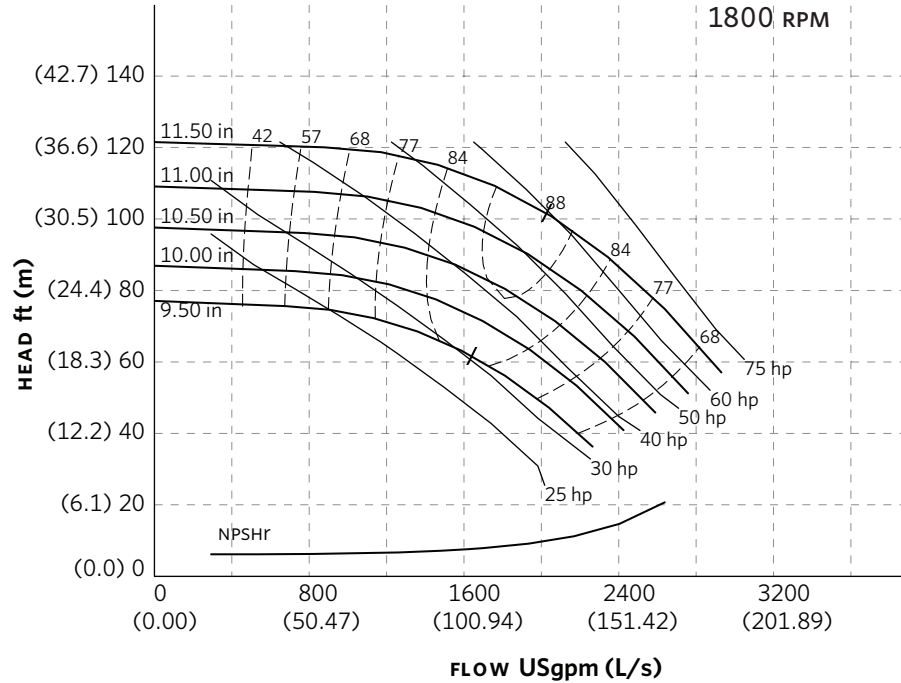
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	ODP/TEFC													
254TC	—	7.5	19.00 (483)	48.00 (1219)	45.52 (1156)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	600 (272.4)
256TC	—	10	19.00 (483)	48.00 (1219)	45.52 (1156)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	630 (286.0)
284TC	25	15	19.00 (483)	48.00 (1219)	48.64 (1235)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	670 (304.2)
286TC	30	20	19.00 (483)	48.00 (1219)	48.64 (1235)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	690 (313.3)
324TC	40	—	19.00 (483)	48.00 (1219)	51.65 (1312)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	980 (444.9)
326TC	50	—	19.00 (483)	48.00 (1219)	51.65 (1312)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	1045 (474.4)
364TC†	60	—	19.00 (483)	58.00 (1473)	53.82 (1367)	16.00 (406)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	1160 (526.6)
365TC†	75	—	19.00 (483)	58.00 (1473)	53.82 (1367)	16.00 (406)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	6.50 (165)	16.00 (406)	6.00 (152)	1280 (581.1)

*Assembly weight combines pump and motor.
†4030 8 × 6 × 11.5 364T & 365T are supplied with a 6-hole (equidistant on HF) base.



SERIES 4030 PERFORMANCE CURVES



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ENERGY
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SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 8 × 6 × 13 | SUBMITTAL

File No: 40.76
Date: OCTOBER 15, 2013
Supersedes: 40.76
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) Lugged
Discharge: 6" (150mm) Flanged

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ 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

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)

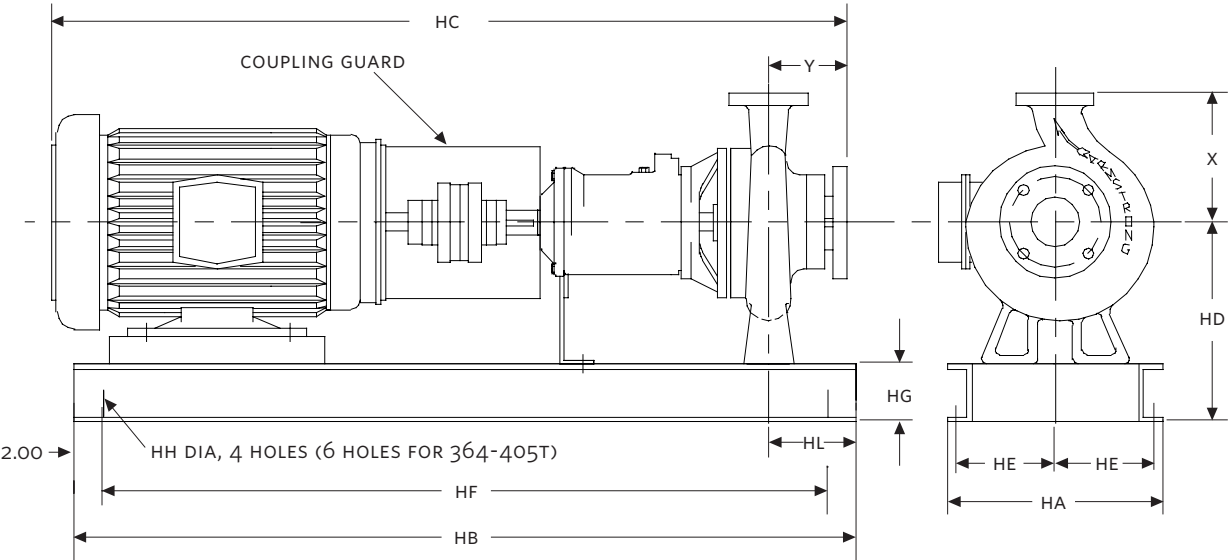
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

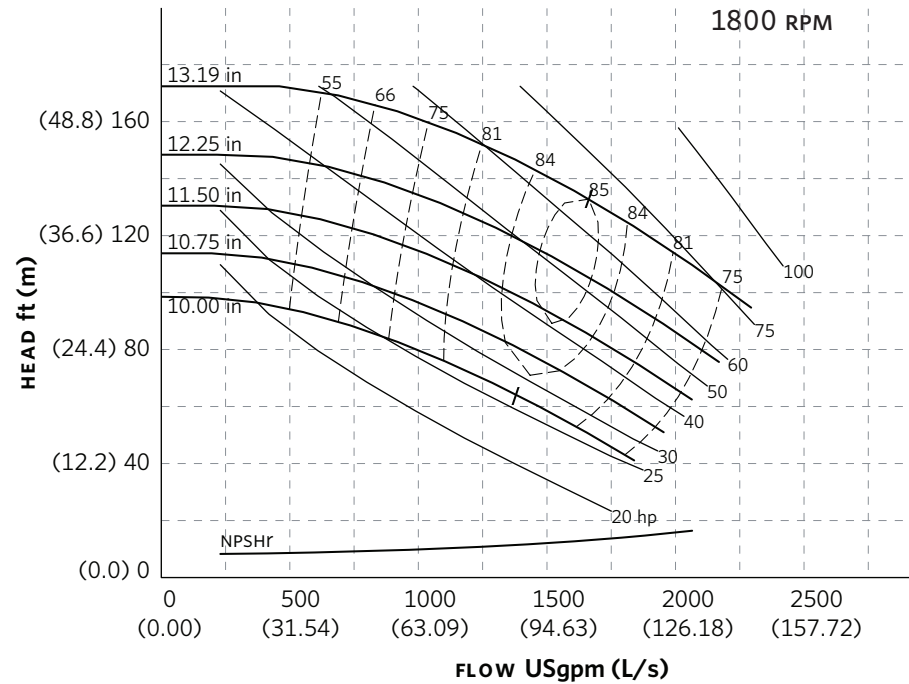
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)												MAX. ASSEMBLY WEIGHT*	
FRAME	1800		1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)	
	ODP	TEFC													ODP	TEFC
254TC	—	—	7.5	16.00 (406)	45.00 (1143)	43.51 (1105)	15.00 (381)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	680 (308.4)	710 (322.1)
256TC	—	—	10	16.00 (406)	45.00 (1143)	43.51 (1105)	15.00 (381)	7.38 (187)	41.00 (1041)	3.00 (76)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	690 (313.0)	740 (335.7)
284TC	—	—	15	19.00 (483)	48.00 (1219)	41.63 (1057)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	740 (335.7)	780 (353.8)
286TC	30	30	20	19.00 (483)	48.00 (1219)	46.00 (1168)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	760 (344.7)	800 (362.9)
324TC	40	40	—	19.00 (483)	48.00 (1219)	49.63 (1261)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	915 (415.0)	1090 (494.4)
326TC	50	50	—	19.00 (483)	48.00 (1219)	49.63 (1261)	16.00 (406)	8.88 (225)	44.00 (1118)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	945 (428.6)	1156 (524.4)
364TC**	60	60	—	19.00 (483)	58.00 (1473)	51.81 (1316)	16.00 (406)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	1110 (503.5)	1270 (576.1)
365TC**	75	75	—	19.00 (483)	58.00 (1473)	51.81 (1316)	16.00 (406)	8.88 (225)	27.00 (686)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	1130 (512.6)	1390 (630.5)
404TC**	100	—	—	19.00 (483)	64.00 (1626)	56.89 (1445)	16.00 (406)	8.88 (225)	30.00 (762)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	1280 (580.6)	—
405TC**	—	100	—	19.00 (483)	64.00 (1626)	56.89 (1445)	16.00 (406)	8.88 (225)	30.00 (762)	4.00 (102)	0.75 (19)	4.50 (114)	16.00 (406)	4.00 (102)	—	1710 (775.6)

*Assembly weight combines pump and motor.
**4030 8 × 6 × 13 364T - 405T are supplied with a 6-hole (equidistant on HF) base



SERIES 4030 PERFORMANCE CURVES



Curve number
PT110-1-O-1800

Series
4030
4280

Size
8 × 6 × 13

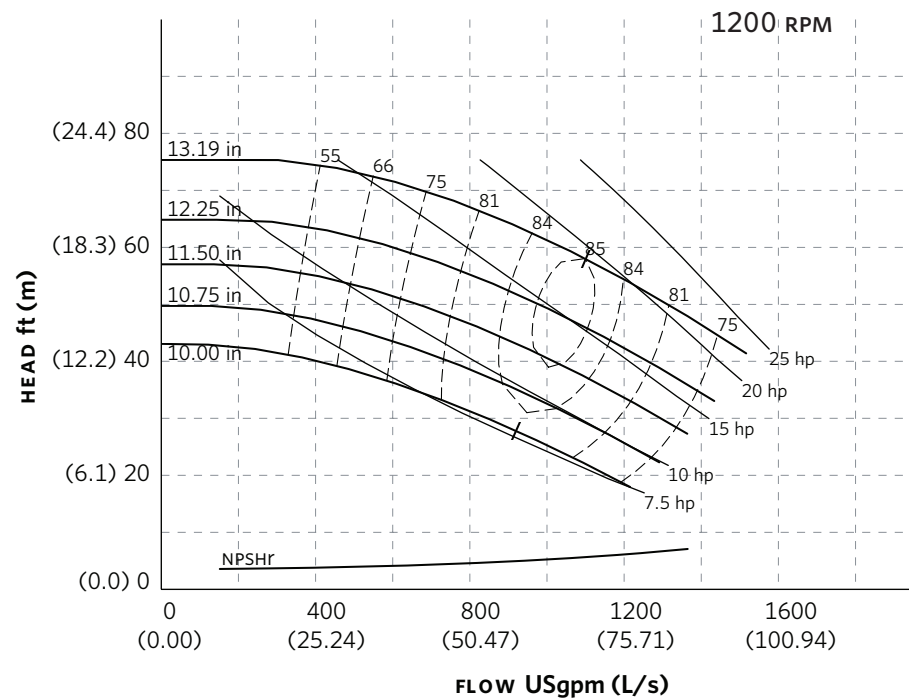
RPM
1800

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
PT110-1-O-1200

Series
4030
4280

Size
8 × 6 × 13

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

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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	☐ BF	☐ 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

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)

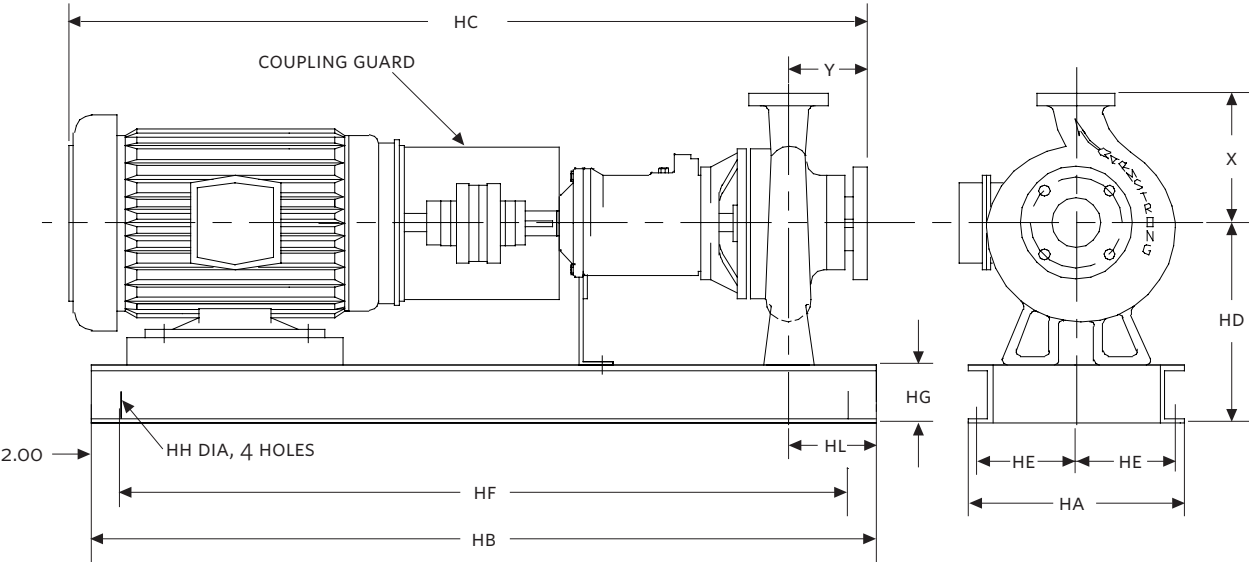
- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

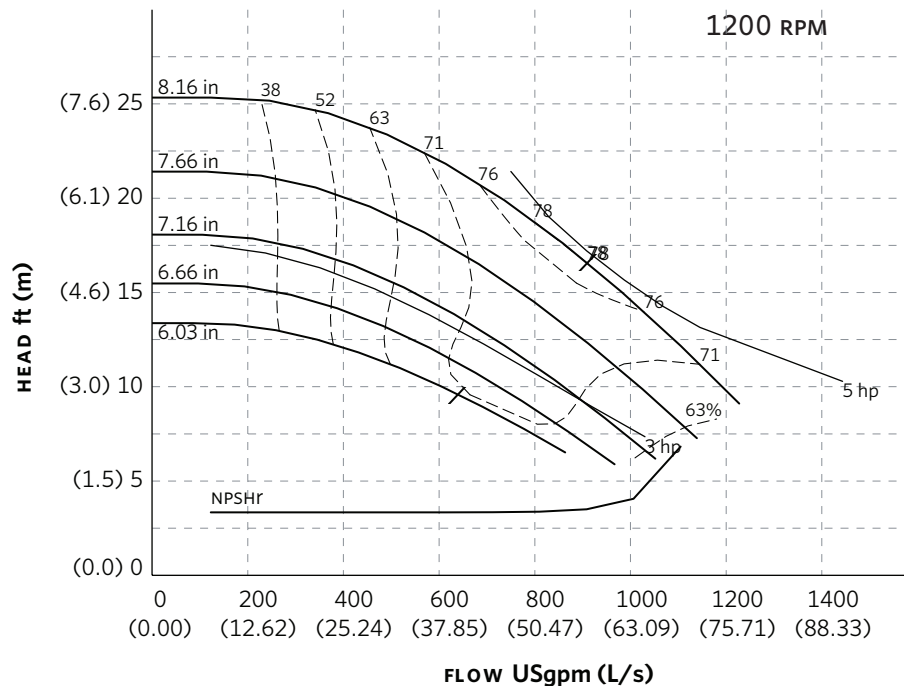
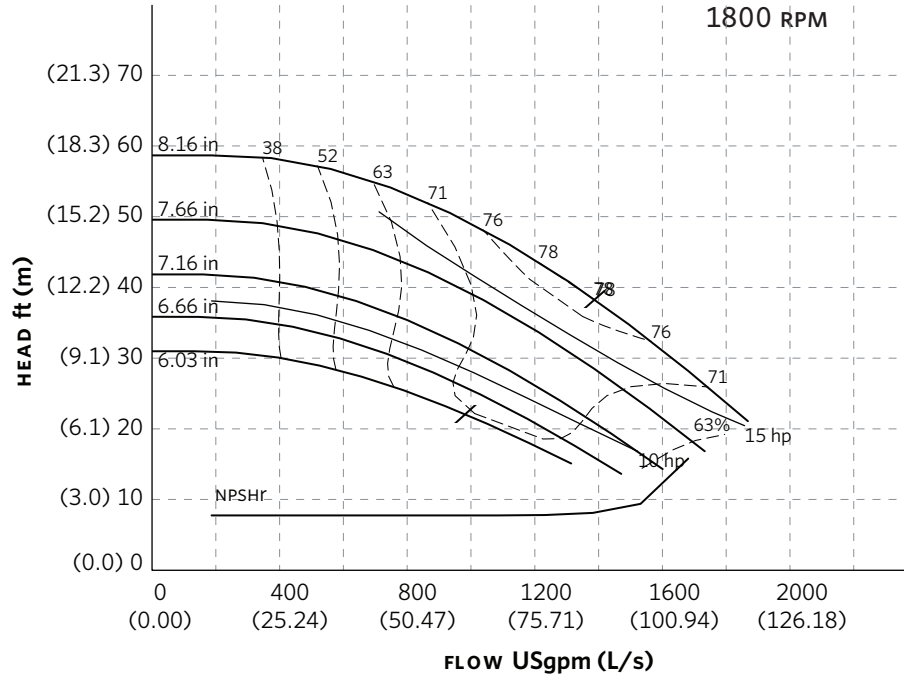
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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		MAX. DIMENSIONS INCHES (mm)											MAX. ASSEMBLY WEIGHT*
FRAME	1800	1200	HA	HB	HC	HD	HE	HF	HG	HH	HL	X	Y	lbs (kgs)
	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



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