



**Submittal Data**

**3450 RPM**

**60 Hertz**



JOB or CUSTOMER: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ORDER NO: \_\_\_\_\_ DATE: \_\_\_\_\_

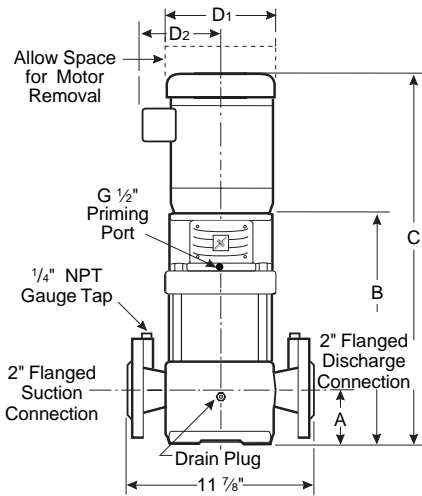
SPECIFICATION REF: \_\_\_\_\_

QUANTITY	TAG NO.	MODEL NO.	GPM	FEET	VOLT	PHASE	COMMENTS

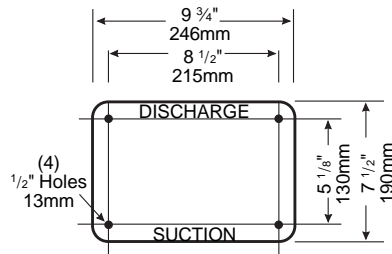
"STACK" KIT P/N:

SEAL & GASKET KIT P/N:

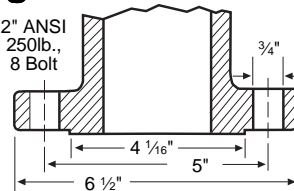
**Dimensions**



**Base Dimensions**



**Flange Dimensions**



**Technical Data**

*(based on airfree water at 68°F [20°C])*

**MIN. DUTY FLOW RATE:**  
5°F to 250°F (-15°C to 120°C) = 4.0 GPM  
See the Series C Installation & Operating Manual for operating limits below this minimum.

**MOTORS:** ODP (Standard), TEFC (Optional)

**TEMPERATURE RANGE:**  
5°F to 250°F (-15°C to 121°C)

**FLANGES:** 2" ANSI 250 lb. R.F., 8 Bolt

**MAX. WORKING PRESSURE (at 250°F):**  
Models 20/1 - 80: 230 PSI (16 Bars)  
100 - 160: 335 PSI (23 Bars)

(Consult Grundfos for maximum working pressures at lower fluid temperatures.)

**MAX. INLET PRESSURE:**  
20/1-40: 90 PSI (6 Bars)  
50-160: 145 PSI (10 Bars)

Motors are Rated

**Electrical Data, Dimensions, and Weights ①**

Pump Type	HP	Motor S.F.	Ph	Volts	NEMA Frame Size	DIMENSIONS IN INCHES								Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Ship. Vol. (Cu. Ft.)
						Disc. Size	Suc. Size	Motor Height	A	B	C	D <sub>1</sub>	D <sub>2</sub>			
CR8-20/1U	3/4	1.25	1	115/208-230	56C	2	2	10 1/4	3 1/2	15 1/16	25 5/16	6 1/8	4 1/2	86	95	4
	3/4	1.25	3	208-230/460	56C	2	2	9 3/8	3 1/2	15 1/16	24 7/16	6 1/8	4 1/2	84	93	4
CR8-20U	1 1/2	1.15	1	115/208-230	56C	2	2	11 1/4	3 1/2	15 1/16	26 5/16	7 1/4	5 1/4	99	108	4
	1 1/2	1.15	3	208-230/460	56C	2	2	9 3/8	3 1/2	15 1/16	25 7/16	5 7/8	4 3/8	89	98	4
CR8-30U	3	1.15	1	115/208-230	182TC	2	2	14	3 1/2	17 3/4	31 3/4	8 1/2	5 7/8	126	135	4
	3	1.15	3	208-230/460	182TC	2	2	11 3/8	3 1/2	17 3/4	29 1/8	8 1/2	5 7/8	107	116	4
CR8-40U	3	1.15	1	115/208-230	182TC	2	2	14	3 1/2	18 7/8	32 7/8	8 1/2	5 7/8	132	141	4
	3	1.15	3	208-230/460	182TC	2	2	11 3/8	3 1/2	18 7/8	30 1/4	8 1/2	5 7/8	113	122	4
CR8-50U	5	1.15	1	208-230	213TC	2	2	16	3 1/2	20 1/16	36 1/16	10 1/8	7 3/8	149	158	4
	5	1.15	3	208-230/460	184TC	2	2	13 3/4	3 1/2	20 1/16	34 3/16	8 1/2	5 3/4	140	149	4
CR8-60U	5	1.15	1	208-230	213TC	2	2	16	3 1/2	21 1/4	37 1/4	10 1/8	7 3/8	155	164	4
	5	1.15	3	208-230/460	184TC	2	2	13 3/4	3 1/2	21 1/4	35 3/8	8 1/2	5 3/4	146	155	4
CR8-80U	7 1/2	1.15	1	208-230	213TC	2	2	15 5/8	3 1/2	23 5/8	39 1/4	10 1/8	7 1/2	208	219	6
	7 1/2	1.15	3	208-230/460	215TC	2	2	12 3/8	3 1/2	23 5/8	36	8 1/2	5 7/8	180	191	6
CR8-100U	7 1/2	1.15	1	208/230	213TC	2	2	15 3/8	3 1/2	26	41 3/8	10 1/4	8 3/8	219	230	6
	7 1/2	1.15	3	208-230/460	215TC	2	2	13 3/4	3 1/2	26	39 3/4	8 1/2	7 3/8	191	202	6
CR8-120U	10	1.15	1	230	215TC	2	2	16 3/4	3 1/2	28 3/8	45 1/8	10 1/8	7 1/2	248	260	7
	10	1.15	3	208-230/460	215TC	2	2	15 5/8	3 1/2	28 3/8	43 3/4	9 1/2	7 3/8	211	223	7
CR8-140U	15	1.15	3	208-230/460	254TC	2	2	15 7/8	3 1/2	30 1/16	45 15/16	10 1/4	7 3/8	230	242	7
	15	1.15	3	208-230/460	254TC	2	2	15 7/8	3 1/2	32 3/4	48 5/8	10 1/4	7 3/8	245	300	7

NOTE: ① Above data for Baldor ODP motors.

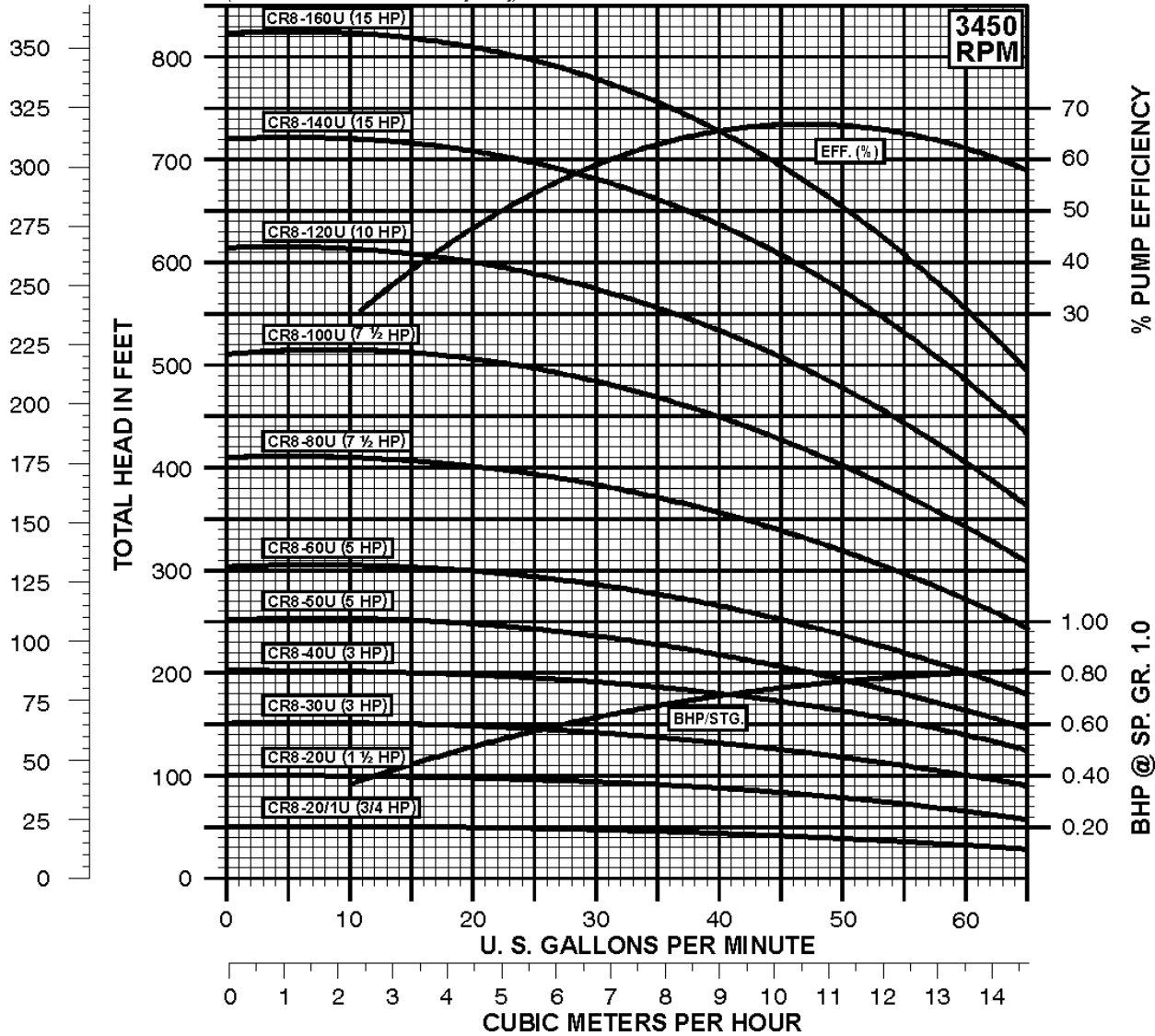
PSI @  
SP. GR. 1.0

# Performance Curves

(based on airfree water at 68°F [20°C])

# CR8U

3450  
RPM



## Materials of Construction

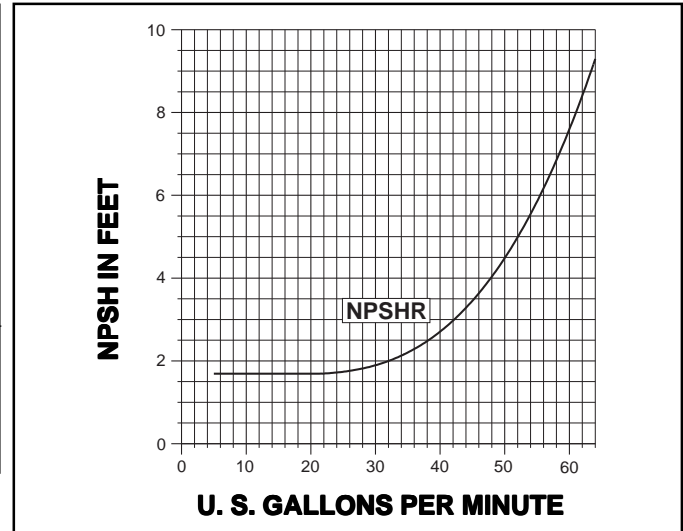
DESCRIPTION	MATERIAL
Suction/Discharge Base, Motor Stool & Couplings	Cast Iron
Impellers, Intermediate Chambers, Spacing Pipes, Outer Sleeve, Priming Valve, Suction Interconnector & Coupling Guards	AISI 304 SS
Pump Shaft	AISI 431 SS
<b>O-Ring Type Shaft Seal (Optional: Bellows Type Shaft Seal, Carbon/Tungsten Carbide, EPDM &amp; FPM)</b>	
- Stationary Face	Tungsten Carbide
- Rotation Face	Tungsten Carbide
- O-Rings	EPDM (FPM Optional)
- Upper and Lower Drivers	AISI 304 SS
- Spring	AISI 304 SS
Intermediate Chamber Bearings	Aluminum Oxide Ceramic*
Intermediate Bearing Journals	Tungsten Carbide
O-Rings	EPDM (FPM Optional)
Outer Sleeve Gaskets	Non-Asbestos Fiber
Air Vent Plug	AISI 316 SS
Neck Rings	Teflon®

\*Leadless Tin Bronze Available

NOTES: EPDM - Ethylene Propylene Rubber • ® Registered trademark of DuPont

**Recommended Spare Parts: Stack Kit & Shaft Seal/Gasket Kit**

## NPSH Curve



GRUNDFOS Pumps Corporation • 2555 Clovis Avenue • Clovis, CA 93612

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L-CR8U-TL-001 | Rev. 9/97  
PRINTED IN USA