

Appendix B—Specifications For All CP-Series (low pressure) Models

Operating Specifications

Specifications	All CP-Series Models with NPT Flanges				
	0521/22	0721/22	1021/22	1321/22	1521/22
Suction flange	2"	2-1/2"	3"	4"	4"
Discharge flange	2"	2-1/2"	3"	3"	4"
Maximum RPM	950	950	780	780	780
Minimum temperature	-25°F (-32°C)				
Maximum temperature	225°F (107°C)				
Maximum working pressure	200 psig (13.8 bar)				
Maximum differential pressure	125 psid (8.6 bar)			100 psid (6.9 bar)	
Suction flange option	2½", 3"	3"	2½"	No	No
Discharge flange option	2½"	2", 3"	2½"	4"	3"
Internal relief	Yes	Yes	Yes	Yes	Yes
Seal seat material options	Iron, Stainless steel, Ni-resist (standard)				
Steel slip-on flange option	Yes (suction & discharge)				
Maximum driver	10 hp (7.5 kW)		20 hp (15 kW)		30 hp 22 kW

Specifications	All CP-Series Models with ANSI Flanges		
	0721/22	1021/22	1521/22
Suction flange	2-1/2" 300 lb ANSI	3" 300 lb ANSI	4" 300 lb ANSI
Discharge flange	2-1/2" 300 lb ANSI	3" 300 lb ANSI	4" 300 lb ANSI
Maximum RPM	950	780	780
Minimum temperature	-25°F (-32°C)	-25°F (-32°C)	-25°F (-32°C)
Maximum temperature	225°F (107°C)	225°F (107°C)	225°F (107°C)
Maximum working pressure	200 psig (13.8 bar)	200 psig (13.8 bar)	200 psig (13.8 bar)
Maximum differential pressure	125 psid (8.6 bar)	125 psid (8.6 bar)	100 psid (6.9 bar)
Suction or discharge flange option	No	No	No
Internal relief	No	No	No
Seal seat material options	Gray iron (standard), Stainless steel, Ni-resist		
Maximum driver	10 hp 7.5 kW	20 hp 15 kW	30 hp 22 kW

Material Specifications

Part	Standard		Optional
	Pump Construction	Material	Material
Case	0521/22, 0721/22, 1021/22	Gray iron ASTM A48, Class 30	
Head	0521/22, 0721/22, 1021/22	Ductile iron ASTM A536	
Case, head	1321/22, 1521/22	Ductile iron ASTM A536	
Flange, rotor, seat adapter plate	All	Ductile iron ASTM A536	
Sideplate	All	Gray iron ASTM A48, Class 40	
Cam, bearing cap	All	Gray iron ASTM A48, Class 30	
Welding flange	All	Steel	
Seal seat	All	Gray iron ASTM A48, Class 30	316 Stainless steel, Ni-resist
Seal metal parts	All	Steel	
Shaft	All	8620 Steel	
Blades	All	Ryton ^{®1}	
Relief valve spring	All	Steel cadmium plated	
Relief valve	CPBN/HN0521	Steel	
	All others	Gray iron ASTM A48, Class 30	
Bearing	All	Cylinder roller	
O-rings	All	Buna-N	PTFE, Viton ^{®1} , Neoprene ^{®1}
Retainer rings	All	Steel	

¹Ryton[®], Viton[®] and Neoprene[®] are registered trademarks of the DuPont Company.

Appendix B—Specifications For All CD-Series (high pressure) Models

Operating Specifications

Specifications	All CD-Series Models with NPT Flanges			
	0521/22	1021/22	1321/22	1521/22
Suction flange	2"	3"	4"	4"
Discharge flange	2"	3"	3"	4"
Maximum RPM	950	950	860	860
Minimum temperature	-25°F (-32°C)			
Maximum temperature	225°F (107°C)			
Maximum working pressure	400 psig (27.6 bar)			
Maximum differential pressure	125 psid (8.6 bar)	125 psid (8.6 bar)	100 psid (6.9 bar)	100 psid (6.9 bar)
Suction flange option	2½", 3"	2½"	No	No
Discharge flange option	2½"	2½"	4"	3"
Internal relief	Yes	Yes	Yes	Yes
Seal seat material options	Iron, Stainless steel, Ni-resist (standard)			
Steel slip-on flange option	Yes (suction & discharge)			
Maximum driver	10 hp (7.5 kW)	20 hp (15 kW)	20 hp (15 kW)	30 hp 22 kW

Specifications	All CD-Series Models with ANSI Flanges		
	1021/22	1321/22	1521/22
Suction flange	3" 300 lb ANSI	4" 300 lb ANSI	4" 300 lb ANSI
Discharge flange	2-1/2" 300 lb ANSI	3" 300 lb ANSI	3" 300 lb ANSI
Maximum RPM	950	860	860
Minimum temperature	-25°F (-32°C)	-25°F (-32°C)	-25°F (-32°C)
Maximum temperature	225°F (107°C)	225°F (107°C)	225°F (107°C)
Maximum working pressure	400 psig (27.6 bar)	400 psig (27.6 bar)	400 psig (27.6 bar)
Maximum differential pressure	125 psid (8.6 bar)	125 psid (8.6 bar)	100 psid (6.9 bar)
Suction or discharge flange option	No	No	No
Internal relief	No	No	No
Seal seat material options	Gray iron (standard), Stainless steel, Ni-resist		
Maximum driver	20 hp 15 kW	20 hp 15 kW	30 hp 22 kW

Material Specifications

Part	Standard		Optional
	Pump Construction	Material	Material
Case, head	All	Ductile iron ASTM A536	
Flange, rotor, seat adapter plate	All	Ductile iron ASTM A536	
Sideplate	All	Gray iron ASTM A48, Class 40	
Cam	All	Gray iron ASTM A48, Class 40	
Bearing cap	All	Ductile iron ASTM A536	
Welding flange	All	Steel	
Seal seat	All	Gray iron ASTM A48, Class 30	316 Stainless steel, Ni-resist
Seal metal parts	All	Steel	
Shaft	All	8620 Steel	
Blades	All	Ryton ^{®1}	
Relief valve spring	All	Steel cadmium plated	
Relief valve	CDBN/HN0521	Steel	
	All others	Gray iron ASTM A48, Class 30	
Bearing	All	Cylinder roller	
O-rings	All	Buna-N	PTFE, Viton ^{®1} , Neoprene ^{®1}
Retainer rings	All	Steel	

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