

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

Operating Specifications for All CD-Series Models with NPT Flanges

Model	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			
Seal seat material options	Silicon carbide			
Steel slip-on flange option	Yes (suction & discharge)			
Maximum driver hp (kW)	10 (7.5)	20 (15)	20 (15)	30 (22)

Operating Specifications for All CD-Series Models with ANSI Flanges

Model	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		
Internal relief	No		
Seal seat material options	Silicon carbide		
Maximum driver hp (kW)	20 (15)	20 (15)	30 (22)

Material Specifications

Part	Pump Construction	Standard 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	Silicon carbide
Seal metal parts	All	Steel
Shaft	All	8620 Steel
Blades	All	Advanced polymer
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 (Standard), PTFE, Viton ^{®1} , Neoprene ^{®1} (optional)
Retainer rings	All	Steel

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