

Appendix B—Specifications For Models 521, 1021, F1021, and F1521

Operating Specifications

	Model			
	521	1021	F1021	F1521
RPM range	420–950	420–950	420–950	420–860
Temperature range	-25°F (-32°C) to 225°F (107°C)			
Maximum working pressure psig (bar g)	400 (28.6)	400 (28.6)	400 (28.6)	400 (28.6)
Maximum differential pressure psid (bar d)	125 (8.6)	125 (8.6)	125 (8.6)	100 (6.9)
Maximum driver size hp (kW)	10 (7.5)	20 (15)	20 (15)	30 (22)
Flow range gpm	30–85	65–195	65–195	155–325

Flange Options

Model		Standard	No Cost Option	Extra Cost Option
521	Inlet	2-1/2" NPT	2" NPT	2", 2-1/2" weld flange
	Outlet	2" NPT	1-1/2", 1-1/1" NPT	1-1/2", 2", 2-1/2" weld flange
1021	Inlet	3" NPT	4" NPT	3", 4" weld flange
	Outlet	3" NPT	4" NPT	3", 4" weld flange
F1021	Inlet	3" 300# ANSI	–	–
	Outlet	2-1/2" 300# ANSI	–	–
F1521	Inlet	4" 300# ANSI	–	–
	Outlet	3" 300# ANSI	–	–

Material Specifications 521/1021/F1021/F1521

Part	Model	Standard Material	Optional Material
Case, head, flange rotor, seat adapter plate	All	Ductile iron ASTM A536 Class 30	None
Cam, sideplate, bearing cap	All	Gray iron ASTM A48 Class 30	None
Welding flange	All	Steel	None
Seal seat	All	Gray iron ASTM S48, Class 30	316 SS
Seal metal parts	All	Steel	None
Shaft	521, 1021	"Stressproof" steel	None
	1521	8620 steel	None
Vanes	All	Plastic	None
Relief valve spring	521, 1021	Steel, cadmium plated	None
Relief valve	521, 1021	Steel	None
Bearing	All	Cylinder roller	None
O-rings	All	Buna-N	PTFE, Viton®, Neoprene® ¹
Retainer rings	All	Steel	None

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