

Appendix B—Specifications for All D-Model (Direct-Mount) and F-Model (Frame-Mount) Pumps

Operating Specifications for DL- and F-Model Pumps

Inlet:	1-1/4" NPT—F10, F16, F17, DL10, DL16, and DL17
	1-1/2" NPT—F12, F13, F14, F18, F19, DL12, DL13, DL14, DL18, and DL19
Outlet:	1" NPT
RPM:	3,450 @ 60 Hz, 2,880 @ 50 Hz
Rotation:	Clockwise only
Maximum working pressure:	400 psig (27.6 bar)
Maximum differential pressure:	125 psig (8.6 bar)—all models 10, 12, 13, and 14
	200 psig (13.8 bar)—all models 16, 17, 18, and 19
Optional driver range:	1 to 15 hp (0.75 to 11.2 kW)
Temperature range:	-25° to 225°F (-32° to 107°C)
Flow range:	2–38 gpm (7.6–143.9 L/min)
Maximum viscosity:	400 SSU (88 cSt)

Material Specifications for DL- and F-Model Pumps

Part	Model	Standard Material	Optional Material
Case, cover	All	Ductile iron ASTM A536	None
Impeller	DL10, DL12, DL13, DL14, F10, F12, F13, and F14	Bronze	Ductile iron ASTM A536, 416 stainless steel
	DL16, DL17, DL18, DL19, F16, F17, F18, and F19	Ductile iron ASTM A536	None
Impeller key	All	Steel	Stainless steel
Seal seat	All	Silicon carbide	None
Seal rotor	All	Carbon	None
Seal metal parts	All	Steel	None
Seal sleeve	All	Aluminum	416 Stainless steel
Seal follower	All	Aluminum	416 Stainless steel
Seal housing	All	Steel, cadmium plated	416 Stainless steel
Shaft	F-Models	Stressproof steel	416 Stainless steel
Frame	F-Models	Gray iron ASTM A48 Class 30	None
Bearing cap	F-Models	Aluminum	None
O-rings	All	Buna-N	PTFE, Viton ^{®1} , Neoprene ^{®1} , Ethylene propylene, Kalrez ^{®1}
Retainer rings	F-Models	Steel	None
Bearings	All	Ball	None

¹ Registered trademark of the DuPont company.