

Appendix B—Specifications

Equipment Type & Options

Truck sliding vane pump
Multiple connection options
Optional auxiliary inlet

Applications

Propane bulk transfer Auto-fuel pumping
NH₃ nurse tanks Carousel cylinder filling
LPG cylinders

Features & Benefits

Sliding vane:	Positive displacement
Heavy duty bearings:	Long bearing life
Single mechanical seal:	Very easy seal replacement and maintenance
Built in relief valve (NPT models only):	Factory pre-set—added protection
Pressure gauge connections:	Suction and discharge to reduce piping needs
Reversible side plates:	Longer service life

Operating Specifications

RPM range: 420–800 RPM	Max. differential pressure: 125 psid (8.6 bar d) for Z/ZH2000, Z/ZH3200, Z/ZH4200, and Z4500 150 psid (10.3 bar d) for ZX/ZXH2000 and Z3500
Maximum working pressure:	350 psig (24.1 bar)
Temperature range: -25°F–225°F (-32°C–107°C)	Flow range: 41–400 gpm (155–1,514 L/min)
Internal relief valve: Yes	

Material Specifications

Part	Model	Standard Material	Optional Material
Case, head, rotor, relief-valve cap, bearing cap	All	Ductile iron ASTM A536	
Cam	All	Gray iron ASTM A48, Class 50	
Sideplate	All	Gray iron ASTM A48, Class 30	
Welding flange	All	Steel	
Seal seat	All	Silicon carbide	Stainless steel, Ni-Resist, gray iron
Seal metal parts	Z/ZH/ZX/ZXH2000, Z/ZH3200, Z3500, Z/ZH4200, Z4500	Steel	
Shaft	All	8620 steel	
Vanes and vane drivers	All	Advanced polymers	
Relief valve spring	Z/ZH3200	Steel, cadmium plated	
	Z/ZH/ZX/ZXH2000, Z3500, Z/ZH4200, Z4500	Stainless steel	
Relief valve	Z/ZH3200, Z3500	Steel	
	Z/ZH/ZX/ZXH2000, Z/ZH4200, Z4500	Stainless steel	
Bearing	All	Steel	
Thrust bearing	All	Steel	
O-rings	All	Buna-N	Kalrez ^{®1} , Neoprene ^{®1} , Viton ^{®1}
Retainer rings	All	Steel	

¹Registered trademark of the DuPont company.