

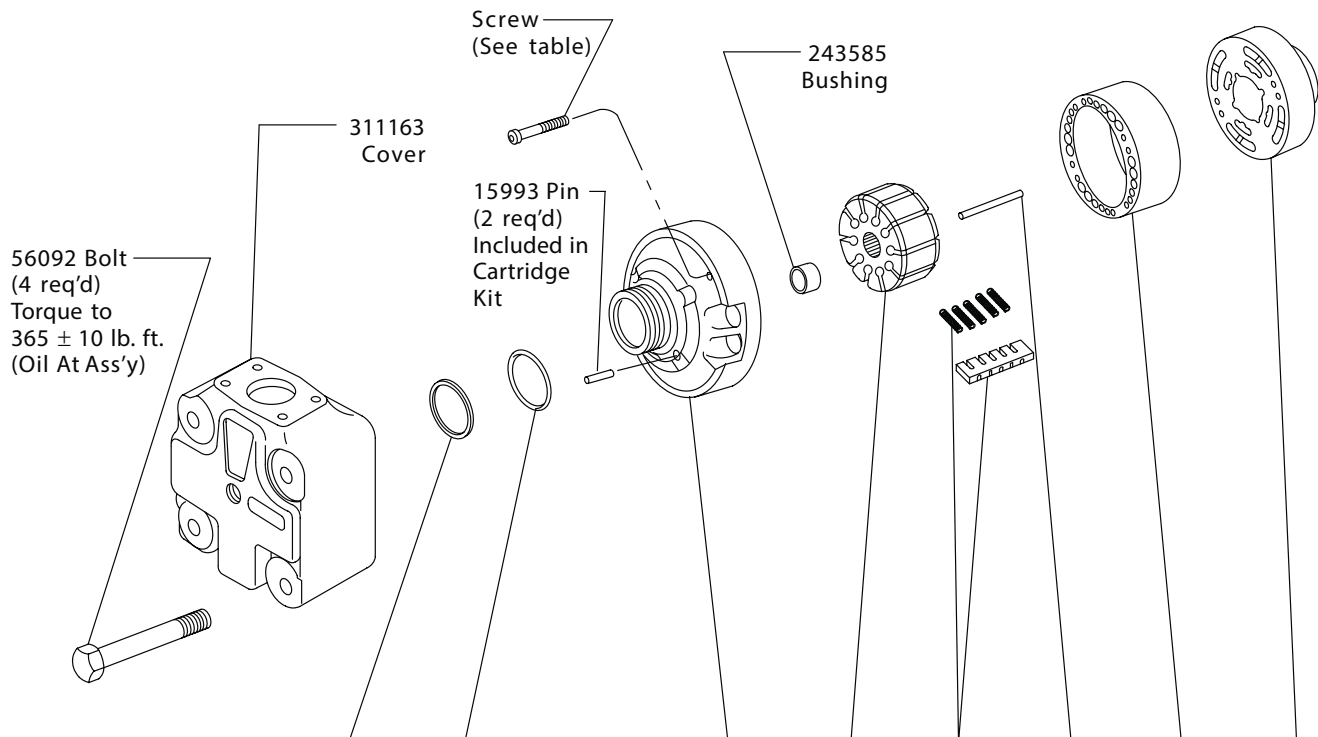


Vane Motor

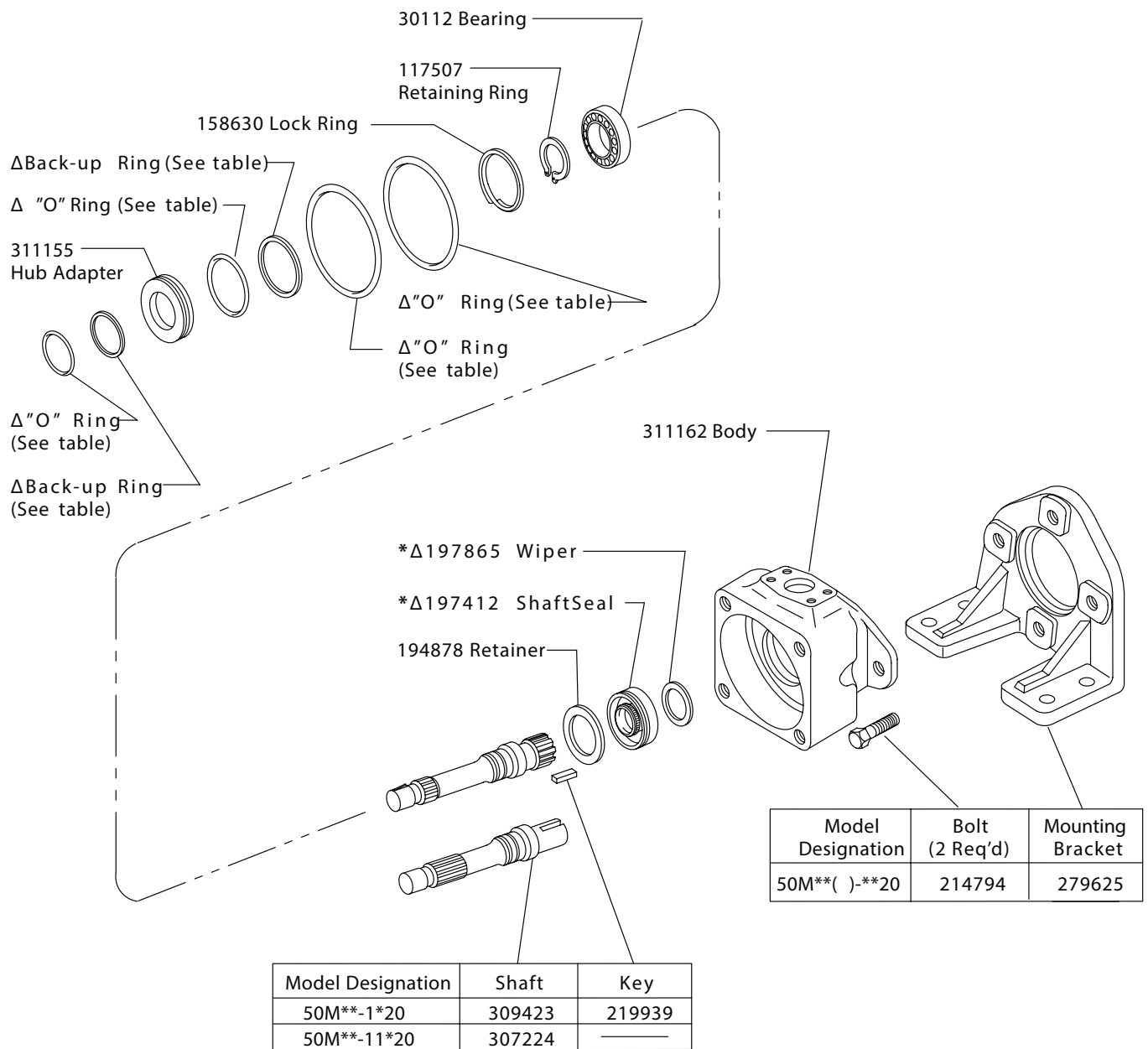
50M Series-20 Design

This technical drawing shows a cross-section of a mechanical assembly. A central horizontal shaft is supported by bearings within a housing. On the left, a pinion is mounted on the shaft, meshing with a gear on the right. The gear is also mounted on the shaft. The housing is shown in cross-section, revealing internal features like a central bore and various mounting points. The drawing uses standard mechanical conventions, with hatching to indicate different materials or sections.

Saturate the felt wiper with oil before assembly. Also, apply a small amount of grease to inner circumference of seal before installation of shaft. Assemble seal with lip toward bearing.



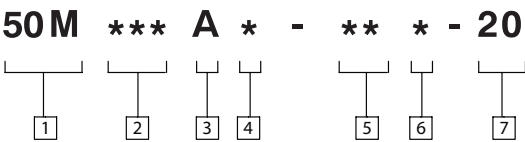
Model Designation	Cartridge Kit	Back-up Ring	"O" Ring	Screw (2req'd) Torque to 21 ±3 lb. ft.	Pressure Plate S/A (Including Bushing and Pins)	Rotor	Vane Kit 10 Vanes 50 Springs	Pin (2 req'd)	Ring	Pressure Plate
50M220*~**20	923099	Δ 271790	Δ 154079	310781	308825	307216	923098	309197	310863	308823
50M255*~**20	923100								310864	
50M300*~**20	923101								310865	
		These parts are services in Cartridge Kit								



Model Designation	Cartridge Kit	"O" Ring	Back-up Ring	"O" Ring	Back-up Ring	"O" Ring	"O" Ring
50M220*~**20	923099	Δ154079	Δ271790	Δ154089	Δ271803	Δ279255	Δ154114
50M255*~**20	923100						
50M300*~**20	923101						
		These parts are services in Cartridge Kit					

ΔIncluded in 923096 Seal Kit

Model Code



1 Model Series 50M - Vane motor	4 Bracket Mounting (Viewed from shaft end) 2 - Body port@ 12 o'clock 3 - Body port@ 3 o'clock 6 - Body port@ 6 o'clock 9 - Body port@ 9 o'clock	6 Port Locations (Viewed from cover end) A - Cover port opposite body port B - Cover port 90° CCW from body port C - Cover port in line with body port D - Cover port 90° CW from body port
2 Ring Capacity Torque Rating (lb. in. per 100 PSI) 220 - 220 lb. in. 255 - 255 lb. in. 300 - 300 lb. in.	5 Shaft Type 1 - Straight keyed 11 - Splined	7 Design Number 20
3 Port Connections A - 4 bolt flange		

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Danfoss OFP, OFR, and OFRS series are recommended.

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- DCV directional control valves
- Electric converters
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- Electric motors
- Gear motors
- Gear pumps
- Hydraulic integrated circuits (HICs)
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- Orbital motors
- PLUS+1® controllers
- PLUS+1® displays
- PLUS+1® joysticks and pedals
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- PLUS+1® sensors
- PLUS+1® software
- PLUS+1® software services, support and training
- Position controls and sensors
- PVG proportional valves
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- Telematics

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