



DPRF 55mm Bore Differentially Pumped Rotary Feedthrough

The VACGEN rotating platform provides the means of translating rotation through a vessel wall without losing vacuum integrity, enabling probes or assemblies to be inserted without effect on the chamber pressure.

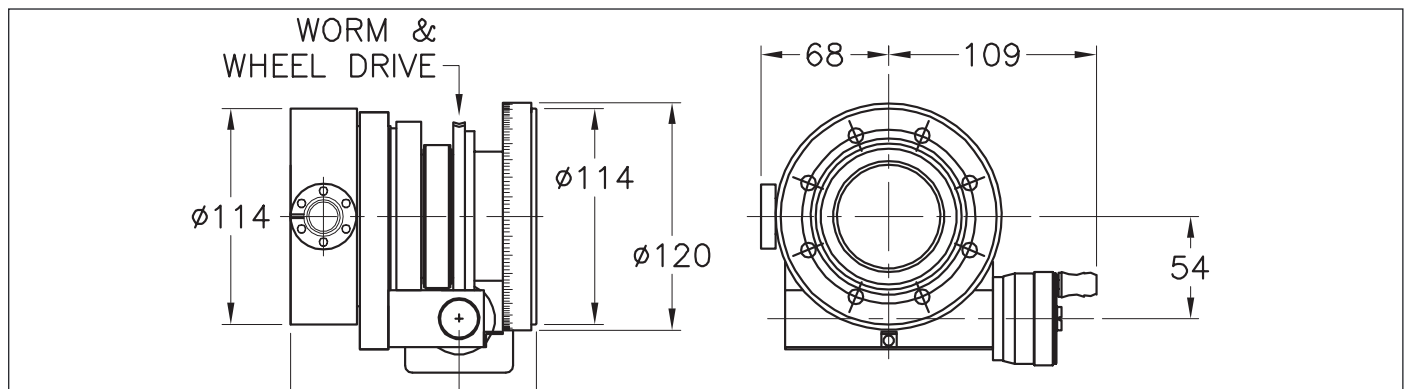


Product Overview

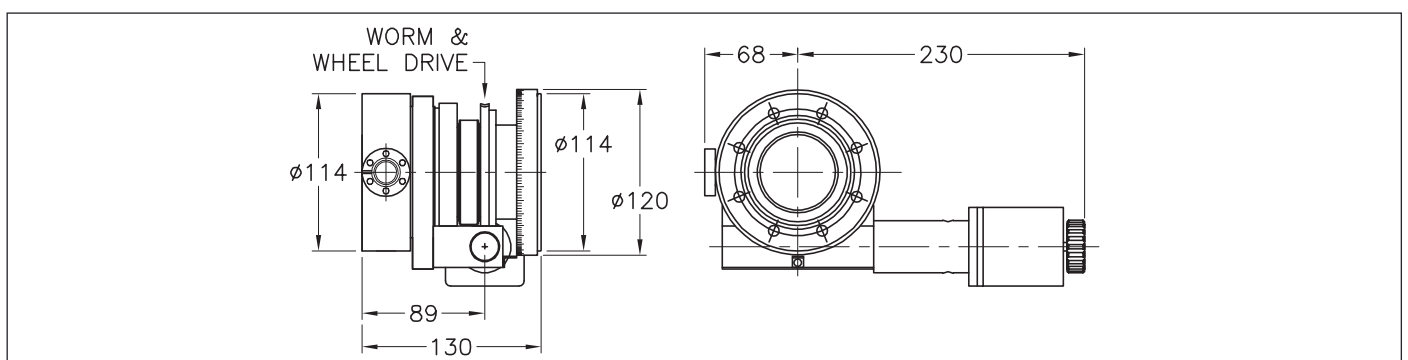
- Continuous rotation
- 55 mm clear bore versions on 114 mm OD Conflat flanges
- Interspace pumping to 10^{-2} mbar via 34 mm OD Conflat flange
- Coarse or High Precision versions
- Replaceable PTFE seals
- Fully bakeable
- Manual and motorisation options with encoder
- Optional double differentially - pumped version
- Axial load 1300N
- Radial load 10Nm

To maintain the rotary seal, a vacuum port is mounted to the side of the assembly allowing connection to an appropriate pump. 55mm clear bore with coarse and fine control available in addition to motorised options

DPRF55D High Precision Manual Handwheel Drive



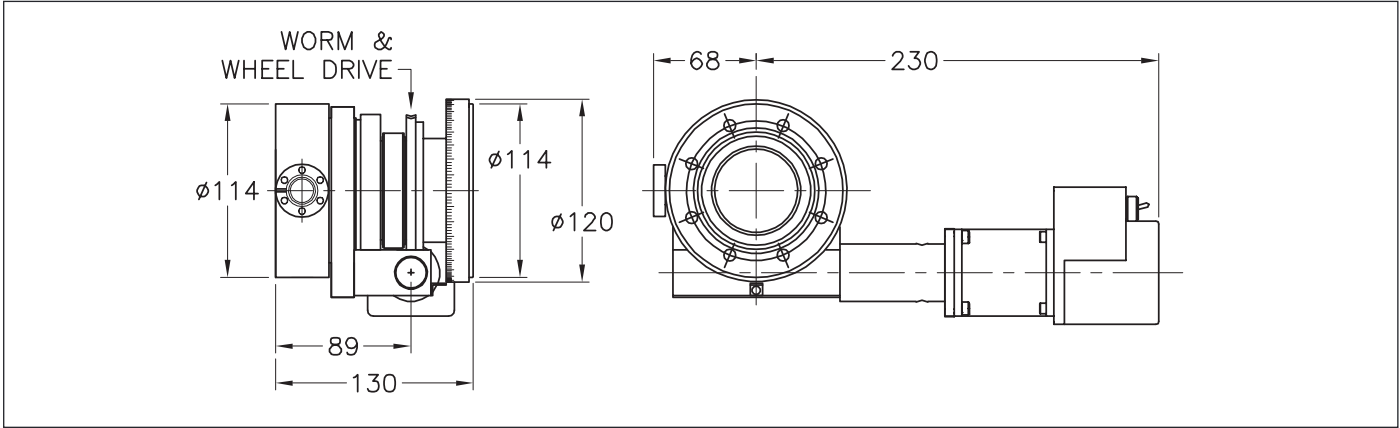
DPRF55M High Precision Stepper Motor Drive





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DPRF55D High Precision DC Motor Drive



ZDPRF55 Series Rotary Feedthrough (Single Stage Pumping)											
DN Type	OD mm	Rotatable Flange Holes	Fixed Flange Holes	Type	Resolution Degrees	Max Rotation Speed	Torque to Rotate	Maximum Load Axial	Maximum Load Radial	Bakeout Temp	Order Code
DN63	114	Clear	Tapped M8	Manual coarse single stage pumping	2	-	8 Nm	130 kg	10 Nm	230°C	ZDPRF55
DN63	114	Clear	Tapped M8	High Precision single stage pumping	0.05	1.0 rpm	0.2 Nm	130 kg	10 Nm	230°C	ZDPRF55H
DN63	114	Clear	Tapped M8	Stepper Motor single stage pumping	0.0075 per half step	2.0 rpm	-	130 kg	10 Nm	230°C*	ZDPRF55W
DN63	114	Clear	Tapped M8	Stepper Motor with encoder single stage pumping	0.0075 per half step	2.0 rpm	-	130 kg	10 Nm	230°C*	ZDPRF55ME
DN63	114	Clear	Tapped M8	DC Motor single stage pumping	-	2.0 rpm	-	130 kg	10 Nm	230°C*	ZDPRF55D

* with motor and encoder removed

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DN Type	OD mm	Rotatable Flange Holes	Fixed Flange Holes	Type	Resolution Degrees	Max Rotation Speed	Torque to Rotate	Maximum Load Axial	Maximum Load Radial	Bakeout Temp	Order Code
DN63	114	Clear	Tapped M8	Manual coarse two stage pumping	2	-	8 Nm	130 kg	10 Nm	230°C	ZDPRF552
DN63	114	Clear	Tapped M8	High Precision two stage pumping	0.05	1.0 rpm	0.2 Nm	130 kg	10 Nm	230°C	ZDPRF552H
DN63	114	Clear	Tapped M8	Stepper Motor two stage pumping	0.0075 per half step	2.0 rpm	-	130 kg	10 Nm	230°C*	ZDPRF552W
DN63	114	Clear	Tapped M8	Stepper Motor with encoder two stage pumping	0.0075 per half step	2.0 rpm	-	130 kg	10 Nm	230°C*	ZDPRF552ME

* with motor and encoder removed