

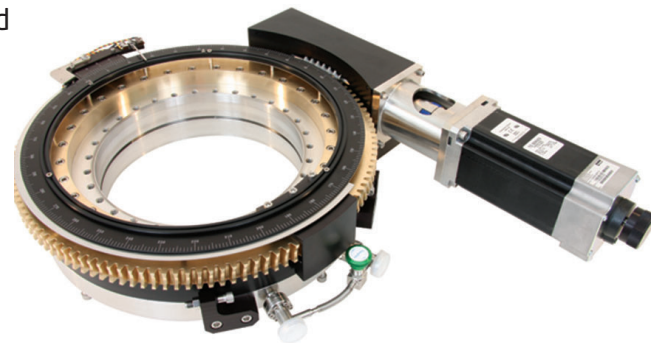
TDS

Differentially pumped rotary seals

DPRS series differentially pumped rotary seals provide 360° of continuous rotary freedom through the wall of any vacuum system. The DPRS has two stages of differential pumping isolated by graphite-impregnated, expanded, Teflon seals on special sealing surfaces.

Common features:

- Mounting (stationary) and rotating flanges, tapped
- Thickness approximately that of two CF flanges
- 2-stage differentially pumped
- Usable in UHV environment
- 0-360° scale with vernier
- Bakeable up to 150°C



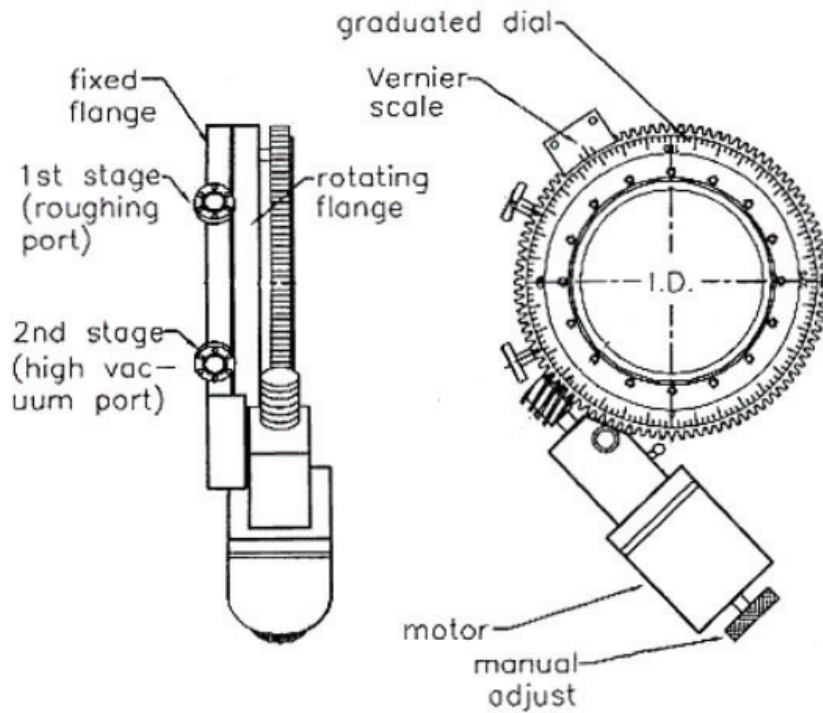
A preloaded ball bearing set accurately controls the rotating stage position. This allows the unit to be successfully used with manipulators and other precision positioning devices.

Typically, resolution is $<0.004^\circ$, repeatability $<0.008^\circ$ and backlash $<0.035^\circ$.

Options:

- Fine adjust worm drive for easier and more accurate angle adjustment
- Digital readout on fine adjust
- Mechanical counter
- Anti-backlash stepping motor drive with manual knob at the rear of the motor
- Valve manifold system

Ask us for any specific features required by your application.



Standard models

P/N	Max. payloads (kg)			I.D. (mm)	Flanges
	Vertical	Horizontal	Inverted		
DPRS-CF63-M	40.8	17.2	31.7	64.2	CF63
DPRS-CF100-M	65.3	29.9	49.8	102.3	CF100
DPRS-CF150-M	81.5	38.1	63.4	153.2	CF150

Different clear bore diameters (I.D.) available on request.
Mounting and rotating flanges can be of different sizes.

Order examples:

Manual DPRS on CF63 rotating flange and CF100 mounting flange with fine adjust :
DPRS-CF63/100-M-FA

-M stands for Manual, -FA for Fine Adjust

Motorised DPRS on CF200 flanges :
DPRS-CF200-SM

-SM stands for stepper motor

Note: The motor drive units utilize worm drive and are all dynamic anti-backlash.

