

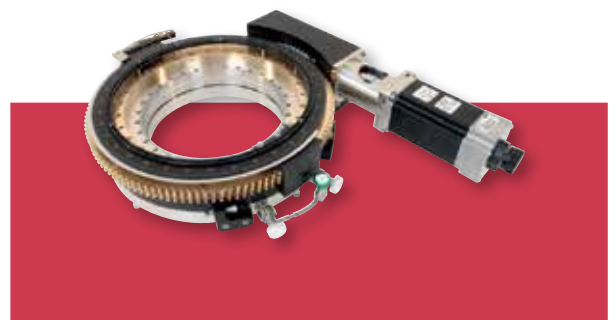
VACUUM BELLOWS & MOVEMENT FEEDTHROUGHS

- DPRS Series Differentially Pumped Rotary Seals .. K 12

DPRS Series 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. 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.

DPRSs are available with a worm drive fine adjust option. This allows for easier and more accurate angle adjustment. DPRSs are also available with anti-backlash stepping or synchronous motor drive.



SPECIFICATIONS

- Models with clear inside diameters of 1.53" to 12" standard
- Bakeable to 150°C
- Stationary and rotation flanges, tapped
- Thickness approximately that of two CF flanges
- 2 stage differentially pumped
- Base pressures in 10^{-11} mbar range
- 0-360° scale with Vernier

READABILITY SPECIFICATIONS

- Standard scale: 1.0°
- Mechanical counter: 0.1°
- Microstepped motor drive required for maximum resolution

OPTIONS

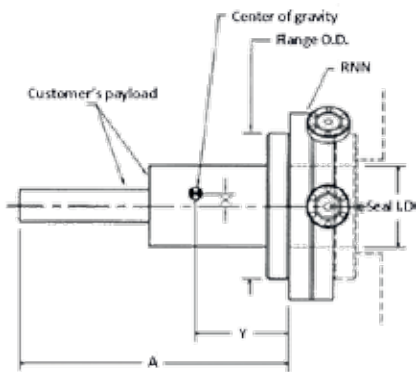
- Fine adjust worm drive
- Digital read-out on fine adjust, 0.1° read-out, mechanical, nonresetable
- Mechanical counter option available
- Anti-backlash stepping motor drive 0.018° per full step (0.0225°/full step on DPRS-150), with manual knob

PAYLOADS

The center of gravity of the payload is within "X" of the polar axis of the unit, where X is equal to 10% of the DPRS I.D. The center of gravity of the payload is within "Y" distance of the rotating flange on the horizontal mounted units, where Y is the flange I.D.

The overall maximum size "A" of the payload outside vacuum is: Vertical operation: 7 x flange O.D. Horizontal operation: 5 x flange O.D. Inverted operation: 7 x flange O.D.

MODEL	PAYLOADS (kg)			I.D. (mm)	FLANGES
	VERTICAL	HORIZONTAL	INVERTED		
DPRS-150	24.5	13.6	20.4	38.8	40 CF
DPRS-250	40.8	17.2	31.7	38.8	40 CF/100 CF
DPRS-400	65.3	29.9	49.8	64.2	63 CF
DPRS-600	81.6	38.1	63.5	64.2	63 CF/100 CF
DPRS-800	90.7	41.2	72.5	102.3	160 CF





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