ATR "C" version: protected for corrosive gas pumping

The inverted dynamic seal: an additional protection

This new anti-corrosive protection is a built-in mechanical system based on the molecular drag pump principle.

The inverted dynamic seal provides a high compression ratio between the bearings and the pump exhaust and minimises the amount of corrosive gases reaching the bearings.

Protected against the corrosion effects:

The ATP pumps of the "C" version are well adapted to corrosive gas pumping. The gas purge added to the inverted dynamic seal result in an enhanced protection against corrosion.

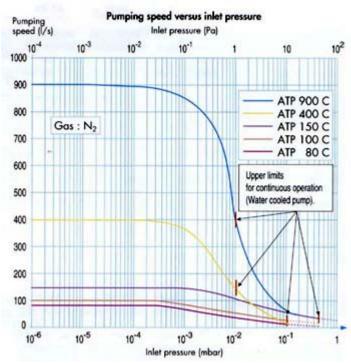














Characteristics			ATP 80C	ATP 100C	ATP 150C	ATP 400C	ATP 900C
Inlet flange			DN63 ISO-K DN63 CF-F	DN100 ISO-K DN100 CF-F	DN100 ISO-K DN100 CF-F	DN160 ISO-K DN160 CF-F	DN200 ISO-K DN200 CF-F
	N2	l/s	80	100	140	400	900
Pumping speed	He	l/s	50	60	100	300	540
	H2	1/s	40	40	80	250	300
	N2		8 × 10 ⁷	8 × 10 ⁷	7 × 10 ⁸	7 × 10 ⁸	1 × 10 ⁹
Compression ratio	He		2500	2500	1.2 × 10 ⁴	1.5 × 10 ⁴	2 × 10 ⁴
	H2		300	300	1 × 103	1 × 103	2 × 103
Ultimate pressure without pruge(1)(2)	mbar		5 × 10 ⁻⁹	5 × 10 ⁻⁹	5 × 10 ⁻¹⁰	5 × 10 ⁻¹⁰	5 × 10 ⁻¹⁰
Ultimate pressure without pruge(2)	mbar		5 × 10 ⁻⁸	5 × 10 ⁻⁸	1 × 10 ⁻⁷	1 × 10 ⁻⁷	1 × 10 ⁻⁷
Purging nitrogen flow rate	sccm				50		
Maximum continuous inlet presure(2)	mbar		1 × 10 ⁻¹	1 × 10 ⁻¹	5 × 10 ⁻¹	2 × 10 ⁻²	1 × 10 ⁻²
Maximum exhaust pressure (2)	mbar		2 × 10 ⁻¹	3 × 10 ⁻¹	4 × 10 ⁻¹	2 × 10 ⁻¹	3 × 10 ⁻¹
Minimum recommeded or pump		Pascal 2005 CP	Pascal 2005 CP	Pascal 2021 CP	Pascal 2033 CP	Pascal 2063 CP	
Mounting orientation					Any		
Rotational speed rpm		m			27 000		
Start-up time	rt-up time min		1min 45s	1 min 45s	2 min	3 min	3 min
Maximum ambient ℃)	40	40	40	40	50 (pump)
Maximum bake out °C		120	120	120	100	100	
Exhaust flange ISO-KF		-KF	DN 25	DN 25	DN 25	DN 40	DN 40
N2 purge flange	ISO-KF				DN 16		
Weight air kg(lb)	ISO-K		4 (8.8) 5.3 (11.7)	4 (8.8) 5.3 (11.7)	6.5 (14.3)	9.1 (20)	17.7 (39)
cooled	CF-F		J.J (11.7)				
Weight water cooled kg(lb)	ISC C F		3.4 (7.5) 4.4 (9.7)	3.4 (7.7) 4.4 (10.3)	6.5 (14.3)	9.2 (20.2)	17.2 (37.9)

Controller		ACT 200T CFV100 OEM	ACT 200T CFV100 OEM	ACT 600T ACT 250	ACT 600T ACT 250	ACT 1000T			
Controller weight	kg(lb)	mkj	2.6 (5.7)	4 (8.8)	4 (8.8)	8.5 (18.7)			
Controller size		1/4 Rack	1/4 Rack	1/2 Rack	1/2 Rack	1/2 Rack			
Power supply		100 to 240 V-50/60 Hz-Single phase							
Maximum power consumption	VA	100	100	300	300	800			

- (1)Measured to Pneurop standards with an exhaust pressure below 10⁻² mbar
- (2) Water cooled model with CF-F inlet flange

ATP "C" applications

Corrosive gas processes in:

- Industry
- · Research and development
- · Analytical instruments.

