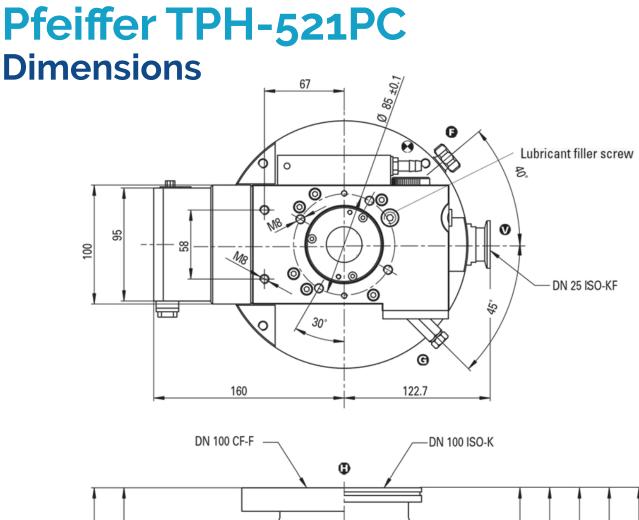
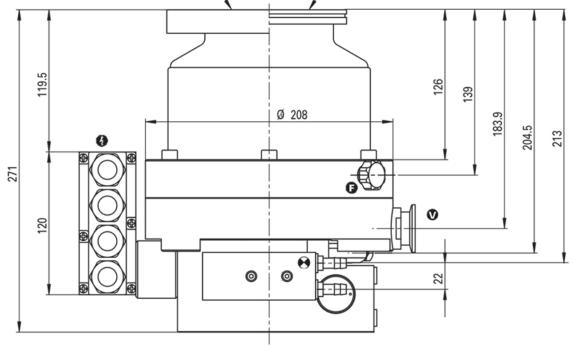


Pfeiffer TPH-521PC **Technical Specifications**

		TPH 521 P C		TPH 521 P C	
Connection nominal diameter::					
Inlet Outlet		DN 100 ISO-K DN 160 ISO-K DN 100 ISO-F DN 160 ISO-F DN 25 ISO-KF/G 1/4"		DN 100 CF-F DN 25 ISO	DN 160 CF-F -KF/G
				1/4"	
Venting connection		G 1/8″		G 1/8″	
Nominal rotation speed	Hz (1/min)	717 (43 000)		717 (43 000)	
Standby rotation speed	⊣z (1/min)	477 (28		477 (28 600)	
Start-up time		600)			
(up to 90% of the nominal rotation speed	.				_
fore-vacuum pressure ≤ 0.1 mbar)	min	3.5 50		3.5 50	
Maximum noise level ¹⁾	dB (A)				
Final pressure, backing pump	mbar	< 10 ⁻²		< 10 ⁻²	
Integral leak rate (He) ²⁾	mbar l/s	< 1 · 10 ⁻⁷		< 1 \cdot 10 ⁻⁷	
Maximum permissible rotor temperature	°C	120		120	
Permissible heat radiaten power	W	14		14	
Volum flow rate for:					
Nitrogen N2	l/s	260	430	260	430
Helium He	l/s	296	380	266	380
Hydrogen H2	l/s	220	300	220	380
Argon Ar	l/s	245	430	245	430
Tetrafluoromethane CF4	l/s	200	360	200	360
Compression ration for:		> 10 ⁷		> 10 ⁷	
N2 He		4.8 · 10 ³		$4.8 \cdot 10^{3}$	
H2		$3 \cdot 10^2$		$3 \cdot 10^2$	
Ar		$3 \cdot 10^{-7}$			
				> 10 ⁷	
CF4		> 10 ⁷		> 10 ⁷	
Maximum fore-vacuum pressure					
N2	mbar	1.0		1.0	
Не	mbar	0.8		0.8	
H2	mbar	0.4		0.4	
Ar	mbar	1.3		1.3	
CF4	mbar	1.4	1	1.	4
Maximum gas throughput ³⁾ at final rotatio	n speed				
N2	mbar l/s	7.6	5	7.	6
Не	mbar l/s	14.5		14.5	
H2	mbar l/s	50.0		50.0	
Ar	mbar l/s	3.8		3.8	
CF4	mbar l/s	4.0		4.0	
Maximum gas throughput at intake pressu	re of 0.1 mbar ⁴⁾				
N2	mbar l/s	6.0		6.0	
Не	mbar l/s	4.0		4.0	
H2	mbar l/s	3.0		3.0	
Ar	mbar l/s	7.0		7.0	
CF4	mbar l/s	8.0		8.0	







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