SplitFlow™ 50 with TC 110, DN 63 ISO-K

PFEIFFER

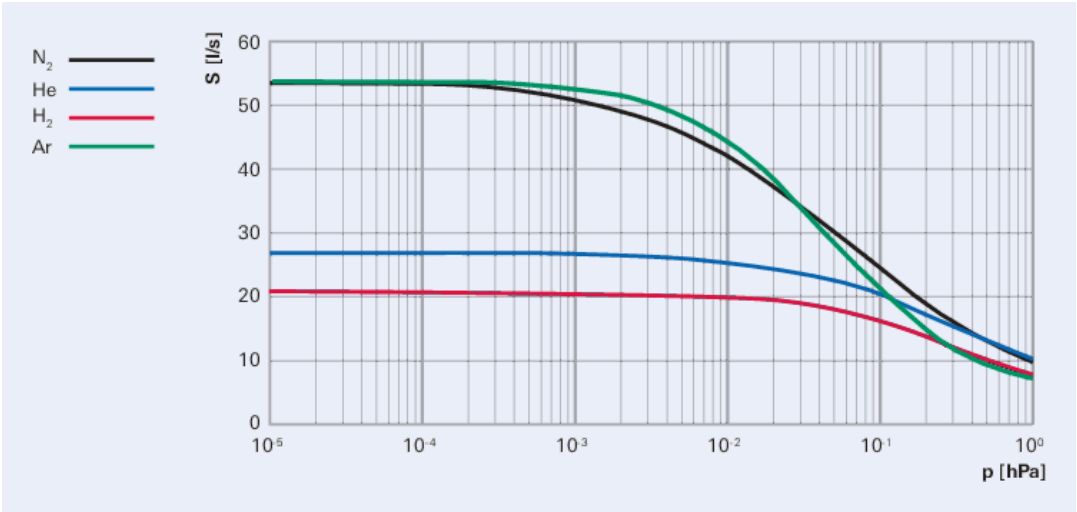
SplitFlow™ 50

Illustration only

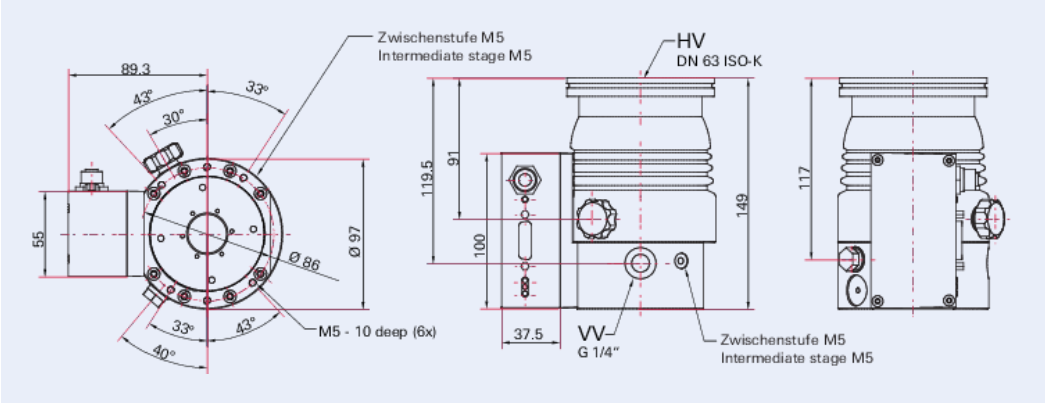
SplitFlow™ 50 with TC 110, DN 63 ISO-K

- Small yet powerful turbopump based on HiPace technology
- With a pumping speed up to 53 l/s for N_2 at the high vacuum flange and 0,15 l/s at interstage pumping
- TC 110 integrated electronic drive unit
- For installation in any orientation
- Ideal for analytical applications such as leak detection and mass spectrometry
- Extensive accessories expand the range of applications

Characteristics



Dimensions


Zwischenstufe M5
Intermediate stage M5
HV
DN 63 ISO-K
89.3
43°
30°
33°
55
Ø 86
Ø 97
M5 - 10 deep (6x)
33°
43°
40°
119.5
91
100
149
37.5
VV
G 1/4"
Zwischenstufe M5
Intermediate stage M5
117

SplitFlow™ 50

Technical Data	SplitFlow™ 50 with TC 110, DN 63 ISO-K
Electronic drive unit	TC 110
Type of electronic drive unit installation	Integrated electronic drive unit
Connection flange (interstage pumping "H1")	M5
Cooling method	Air (Forced convection)
Pumping speed	75 – 190 m^3/h
Pumping speed category	180 m^3/h
Compression ratio (fore-vacuum/interstage pumping) for He	$5 \cdot 10^1$
Compression ratio (fore-vacuum/interstage pumping) for Ar	$1.5 \cdot 10^3$
Compression ratio (fore-vacuum/interstage pumping) for N_2	$9 \cdot 10^2$
Compression ratio (fore-vacuum/interstage pumping) for H_2	$2 \cdot 10^1$
Pumping speed for He	27 l/s
Pumping speed for N_2	53 l/s
I/O interfaces	RS-485, Remote
Cooling water temperature	5 – 25 °C
Venting connection	G 1/8"
Bearing	Hybrid
Cooling method, optional	Water
Current max.	4.6 A
Mounting orientation	Arbitrary
Temperature: Storage, max	55 °C
Temperature: Storage, min	-25 °C
Pumping speed for Ar	53 l/s
Pumping speed for H_2	21 l/s
Input voltage(s)	24 V DC (±10 %)
Emission sound pressure level (EN ISO 2151)	≤48 dB(A)
Gas throughput at final rotation speed for H_2	110 hPa·l/s
Gas throughput at final rotation speed for He	7.3 hPa·l/s
Run-up time	1.3 min
Compression ratio for Ar	$2.1 \cdot 10^{10}$
Compression ratio for H_2	$1.3 \cdot 10^6$
Compression ratio for He	$1.8 \cdot 10^6$
Compression ratio for N_2	$1 \cdot 10^8$

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Gas throughput at final rotation speed for Ar	0.46 hPa·l/s
Pumping speed (interstage pumping) for N_2	0.15 l/s
Pumping speed (interstage pumping) for H_2	0.3 l/s
Pumping speed (interstage pumping) for Ar	0.13 l/s
Pumping speed (interstage pumping) for He	0.16 l/s
Fore-vacuum max. for N_2	20 hPa | 15 Torr | 20 mbar
Pumping speed for He	27 l/s
Pumping speed for N_2	53 l/s
Rotation speed ±2 %	49,000 rpm | 49,000 min^{-1}
Pumping speed for Ar	53 l/s
Pumping speed for H_2	21 l/s
Compression ratio for N_2	$1 \cdot 10^8$
Compression ratio for H_2	$1.3 \cdot 10^6$
Compression ratio for He	$1.8 \cdot 10^6$
Compression ratio for Ar	$2.1 \cdot 10^{10}$
Permissible radial magnetic field max.	3 mT
Fore-vacuum max. for N_2	20 hPa
Cooling water flow	75 l/h
Power consumption max.	110 W
03 Vacuum range	High Vacuum | Ultra-high Vacuum
Rotation speed variable	50 – 100 %
Rotation speed ± 2 %	49,000 rpm
Weight	2.3 kg
Compression ratio	$1 \cdot 10^8$
Connection flange (in)	DN 63 ISO-F
Connection flange (out)	G ¼"

Order number	**SplitFlow™ 50 with TC 110, DN 63 ISO-K**
SplitFlow™ 50 with TC 110, DN 63 ISO-K	PM P04 340 A

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