



SplitFlow 80

PM P04 313

Operating Instructions

Validity

This supplementary information describes important variations to the standard product and is only valid together with its prevailing operating instructions.

- SplitFlow 80
 - Pfeiffer Vacuum product number PM P04 313

This present version of a turbomolecular drag pump has been designed for a special application on the basis of the SplitFlow™ principle. This turbopump can only be operated in conjunction with its designated components.

Applicable documents

SplitFlow 80	Operating instructions
Operating instructions standard pump "HiPace 80"	PT 0208 BN*
Operating instructions "Electronic drive unit TC 110"	PT 0204 BN*
Declaration of conformity	Part of this document

*also available via www.pfeiffer-vacuum.com

Installation



WARNING

Risk of the turbopump being torn-off

In case of sudden blocking of the rotor, torques of up to 820 Nm can occur, which can lead with incorrect attachment to tearing the turbopump off. The energy released thereby can hurl the entire pump or fragments from their inside around the area. This can cause severest injuries (possibly resulting in death) and large property damage.

- Precisely follow installation instructions.
- Only use Pfeiffer Vacuum original components (accessories) for installation.

Technical data

Parameter	SplitFlow 80
Flange (in)	special
Flange (out)	G 1/4"/special adapter
Run-up time	1.7 min
Fore vacuum max. for N ₂	22 hPa
Compression ratio for N ₂ (H - VV)	>10 ¹¹
Compression ratio for He (H - VV)	1.3 · 10 ⁷
Compression ratio for N ₂ (H1 - H)	4 · 10 ³
Compression ratio for He (H1 - H)	>40
Compression ratio for N ₂ (H2 - H1)	3 · 10 ³
Compression ratio for He (H2 - H1)	>400
Gas throughput at full rotational speed for N ₂	1.3 hPa l/s
Pumping speed for N ₂ at H	30 l/s
Pumping speed for He at H	38 l/s
Pumping speed for N ₂ at H1	7 l/s
Pumping speed for He at H1	10 l/s
Pumping speed for N ₂ at H2	3 l/s
Pumping speed for He at H2	5 l/s
Operating voltage	24 ±5% V DC
Power consumption max.	110 W
Weight	2.6 kg

Dimensions

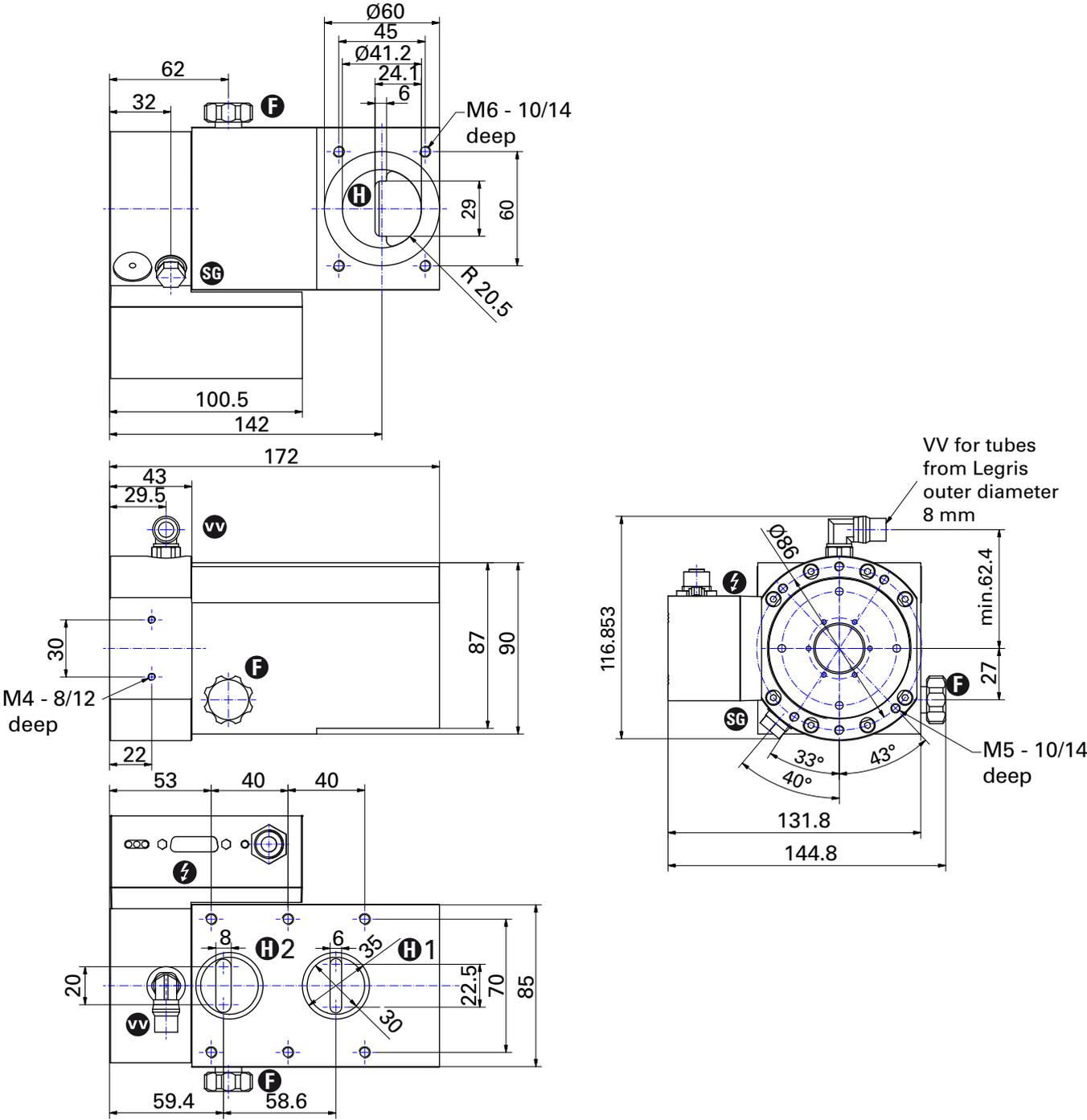


Fig. 1: SplitFlow 80, PM P04 313



Declaration of conformity

according to the EC directive:

- **Machinery 2006/42/EC (Annex II, no. 1 A)**

We hereby declare that the product cited below satisfies all relevant provisions of EC directive "Machinery" **2006/42/EC**.

In addition, the product cited below satisfies all relevant provisions of EC directive "Electromagnetic Compatibility" **2004/108/EC**.

The agent responsible for compiling the technical documentation is Mr. Jörg Stanzel, Pfeiffer Vacuum GmbH, Berliner Straße 43, 35614 Asslar.

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Guidelines, harmonised standards and national standards and specifications which have been applied:

DIN EN ISO 12100 : 2011-03

DIN EN 1012-2 : 1996

DIN EN 61010-1 : 2011

Signatures:

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