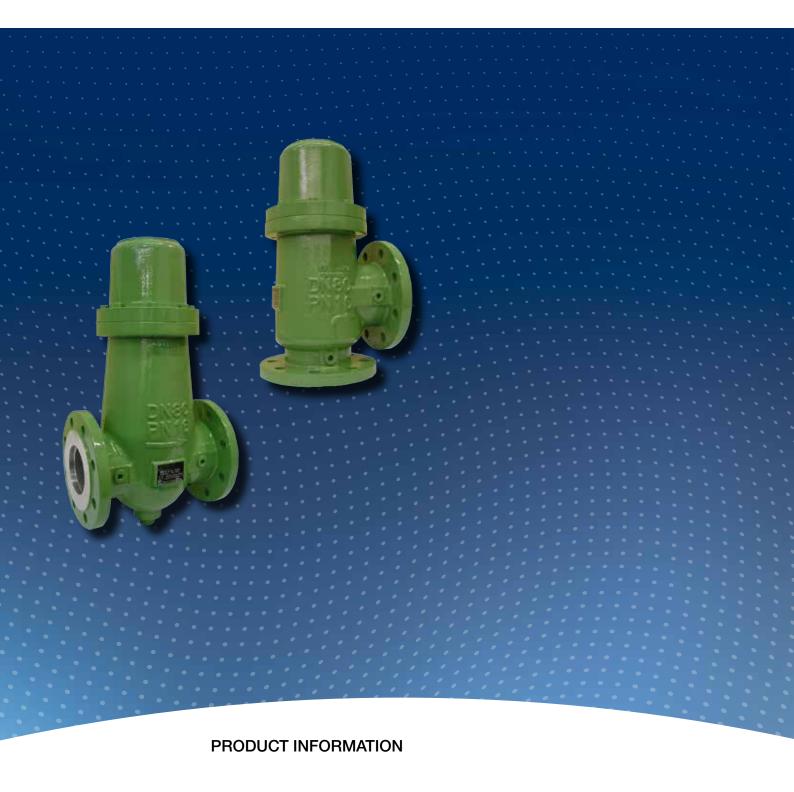
Rotary filter HON 906, HON 906a, HON 907



Serving the Gas Industry Worldwide

Honeywell

Rotary Filter HON 906, HON 906a, HON 907

Applications, characteristics, technical data

Applications

- Filter for commercial and industrial gas systems
- Applicable for gases accor. to DVGW worksheet G 260 and neutral, non-aggressive gases: other gases on enquiry.

Characteristics

- High filtration efficiency
- Filter insert with replaceable special paper filter with plug-fit connection in filter baskets
- Environmentally-friendly disposal of the soiled filter paper
- Re-usable filter baskets
- Special features with HON 906a:
 Large dust collection chamber, optionally with magnetic insert for dust pre-separation

Technical Specifications								
Туре	HON 906		HON 906a					
Max. permissible pressure PS	16 bar	16 bar	25 bar	20 bar	16 bar			
Flange pressure stage	PN 16	PN 16	PN 25 Class 150 RF		PN 16			
	DN 25	DN 25	DN 25	DN 25	DN 25			
	DN 50	DN 50	DN 50	DN 50	DN 50			
Nominal width	DN 80	DN 80	DN 80	DN 80	DN 80			
	DN 100	DN 100	DN 100	DN 100	DN 100			
	DN 150	-	_	_	-			
Type of connection	EN flanges	EN flanges EN 16, PN 25						
Type of Confidential	PN 16	PN 16 ANSI flanges Class 150 RF						
Temperature range	Operating/enviror	Operating/environmental temperature -20 °C to +60 °C						
Filter paper	Pleated special pa	Pleated special paper						
Filter surface	DN 25 0.050 m ²	DN 50 0.193 m ²	DN 80 0.571 m ²	DN 100 0.933 m ²	DN 150 2.256 m ²			
Max. flow speed in the DN nominal pipeline width	20 m/s (with high dust loa	20 m/s (with high dust loads, a significantly lower flow speed is recommended)						

Technical Specifications							
	Filter	paper	Separated Filtration efficiency				
Filher the configuration of	Types	Version	particle size in µm	in %			
Filtration efficiency	1	standard	>10				
	2	polyester-reinforced	> 4	99			
	3	fine-pore	> 2				
Pressure loss/volume flow	see pages 8 to 10						
Guideline for new filter insert	$\Delta p \le 50$ mbar or 20m/s in DN nominal width						
Limit for soiled filter insert	$\Delta p_{\text{max}} = 500 \text{ mbar}$						
Supplemental fixtures/options	- with differential pressure measuring device (with electrical remote indication, differential pressure manometer with Reed contact) - Filter inserts of other manufacturers						
Material	Body Cast aluminium alloy (HON 906, DN 25 to DN 100; HON 907, all DN) Ductile iron (HON 906, DN 150; HON 906a) Filter basket Steel perforated plate, galvanised NBR						
Function, strength and testing	DIN 3386, DVGW worksheet G 498 and DIN 30690-1						
OF modelin accordance with DFD		– HON 906	CE-0085				
CE mark in accordance with PED and PIN no.	Honey	well - HON 906a	CE-0085				
and Fin no.	(€ 0	- HON 907	CE-0085				
Explosion protection	All mechanical components of this device are without ignition sources. They are not subject to ATEX 95 (94/9/EC). All electronic accessories, on the other hand, meet ATEX requirements.						

Construction and function

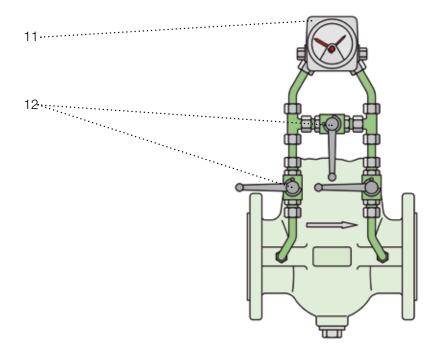
Gas rotary filters of the types HON 906, HON 906a and HON 907 are designed to separate impurities at a defined position in gas, such as dust, rust and other solid particles in gas-carrying lines, preferably in gas pressure regulating and measuring systems.

The filters essentially consist of the housing (1), the hood (2) and the filter insert (3). Easy access to the filter insert is assured by lifting off the hood. The filter insert consists of the plug-fit filter basket (4) and the filter paper with 2 rubber rings (5). The design enables easy replacement when dirty and environmentally-friendly disposal. A filter paper with the appropriate pore size must be used depending on the application and particle size to be separated. The seal of the filter insert to the housing or the hood is provided by means of two sealing rings (6) and (7).

The gas rotary filter of the type HON 906a must be configured such that dust pre-separation of larger particles can take place in the dust collecting chamber with the arrangement of an internal guide sleeve (8) in the housing, wherein the guide sleeve simultaneously serves as a means of protecting the filter insert. If necessary, it is possible to screw in a magnetic insert (10) instead of the locking screw (9) so that ferritic gas impurities, such as rust, can be pre-separated in the dust collecting chamber (adhered to the magnet).

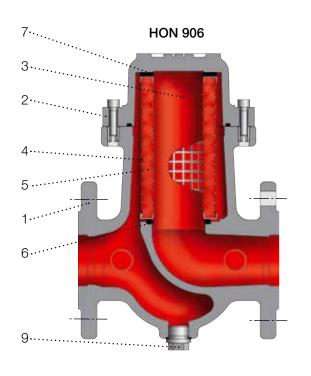
All types can be equipped to check the degree of contamination with a differential pressure measuring device. If desired, a differential pressure manometer (11) with Reed contact is supplied if the version with electric remote indication is desired. Installation of the ball valves (12) takes place in the connection lines and/or in the connection lines and the pressure equalising line. The differential pressure measuring device can be installed on the right or left side of the filter, regardless of the flow direction.

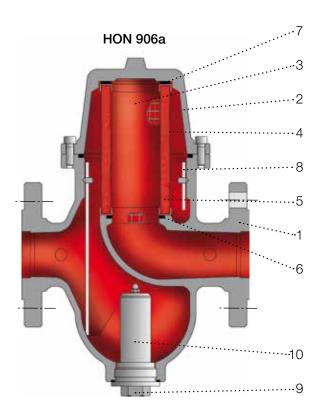
Layout of the differential pressure measuring device with ball valves



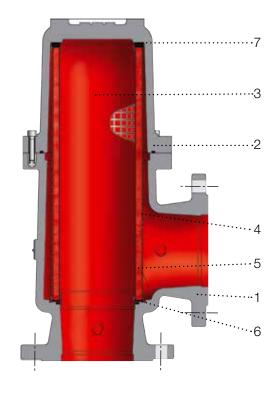
in connection lines and optionally in the pressure equalisation line

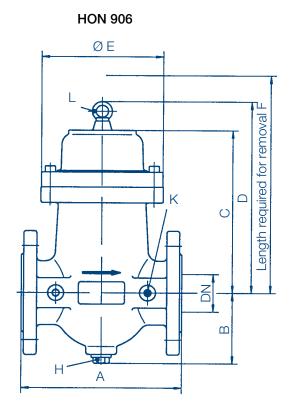
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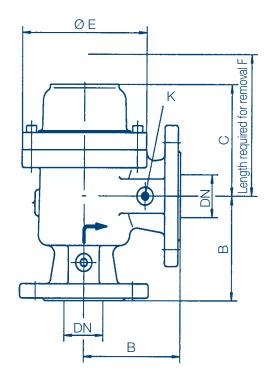




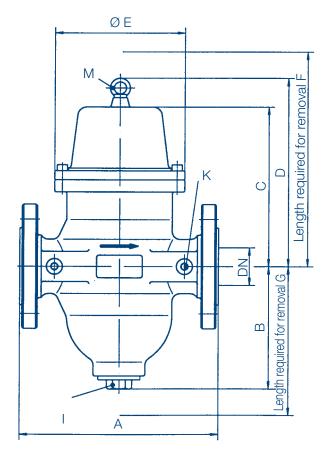




HON 907



HON 906a



- H Plug for condensate drainageG 1/2 (DN 25, DN 50)G 1 (DN 80 bis DN 150)
- I Plug for condensate drainage M 36 x 1.5 (DN 25) G 1 1/2 (DN 50 to DN 100)
- K Connection for differential pressure measuring device
 M 12 x 1.5 (DN 25)
 M 16 x 1.5 (≥ DN 50)
- L Ring screw for DN 150
- M Ring screw for DN 80, DN 100

Dimensions										
Туре	DN	Α	В	С	D	Е	F	G	Volume of the pressure chamber in I	Weight in kg
HON 906	25 50	140 210	65 95	130 215	-	104 159	250 350	-	0.45	2.5 7
	80	268	125	380	- -	179	600	- -	1.6 5.1	13
	100 150	318 400	160 190	470 680	- 760	214 289	710 1000	– –	11.5 34	22 128
HON	25 50	190 260	110 165	130 220	- -	120 170	180 320	200 280	0.8 3.5	8 20
906a	80 100	330 380	210 245	390 470	455 535	225 265	640 760	360 420	11 20	44 64
HON 907	25 50 80 100	- - -	78 123 134 159	87 132 266 331	- - -	104 159 179 214	195 260 500 570	- - - -	0.3 1.4 4.1 7.5	2 6 11 16

All dimensions in mm unless otherwise specified

Note

Compliance with the following documents is required for installation, commissioning and maintenance:

- DVGW worksheets G 495 and G 498
- Honeywell 'Operating and maintenance instructions, spare parts 906.20'

The HON 906, HON 906a and HON 907 rotary filters should be preferentially installed in a horizontal position with vertical arrangement of the filter insert in the pipeline. The flow direction must be marked for all types with an arrow on the housing.

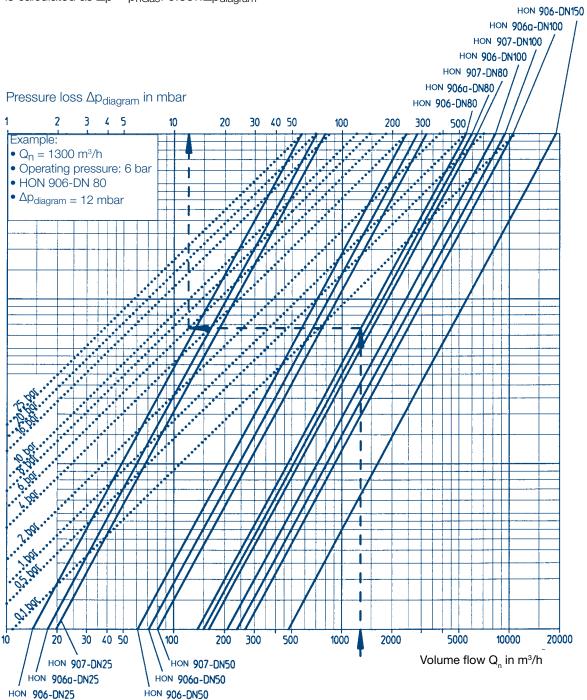
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Pressure loss in new condition of the filter insert

Filter insert type 1 (standard version)

Note: • The values apply for natural gas with $p_n = 0.83 \text{ kg/m}^3$ and t = 15 °C

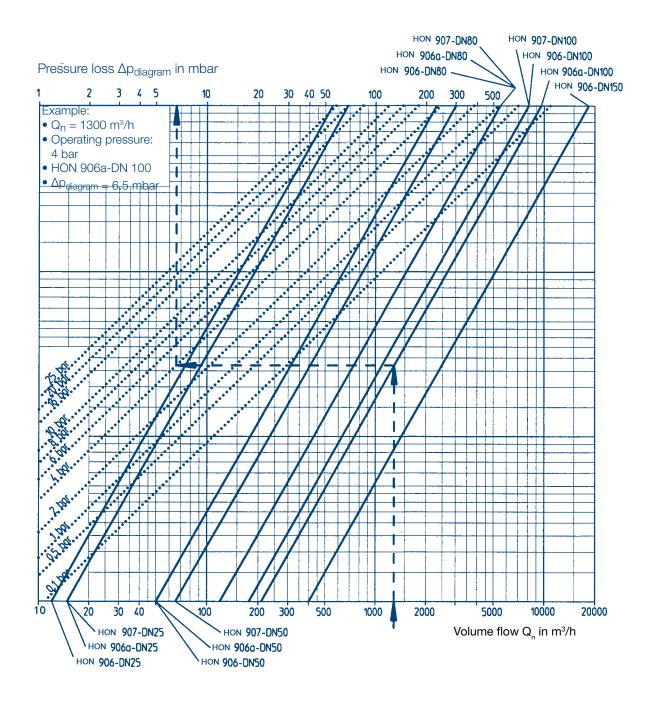
• With use of other gas types, the pressure loss is calculated as $\Delta p = p_nGas/0.83 \times \Delta p_{diagram}$



Filter insert type 2 (polyester-reinforced version)

Note: • The values apply for natural gas with $p_n = 0.83 \text{ kg/m}^3$ and t = 15 °C

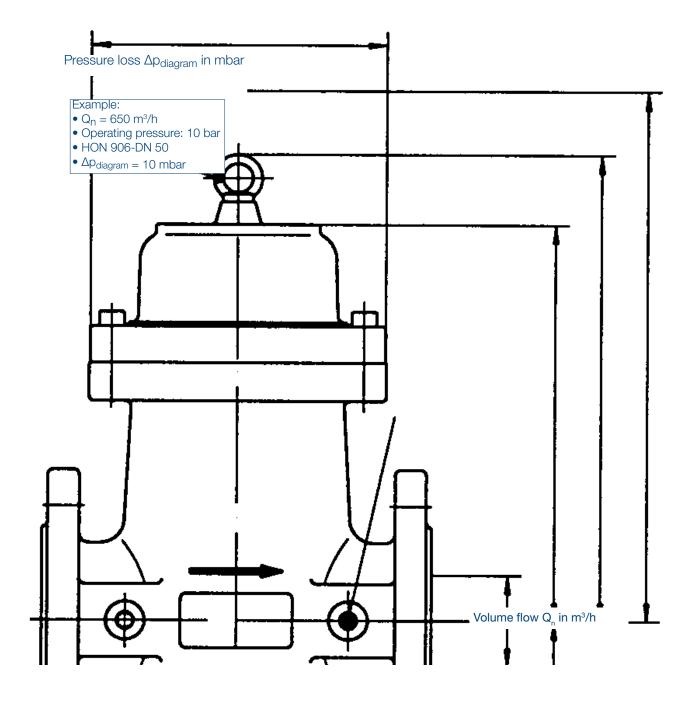
• With use of other gas types, the pressure loss is calculated as $\Delta p = p_n Gas/0.83 \times \Delta p_{diagram}$



Filter insert type 3 (fine-pore version)

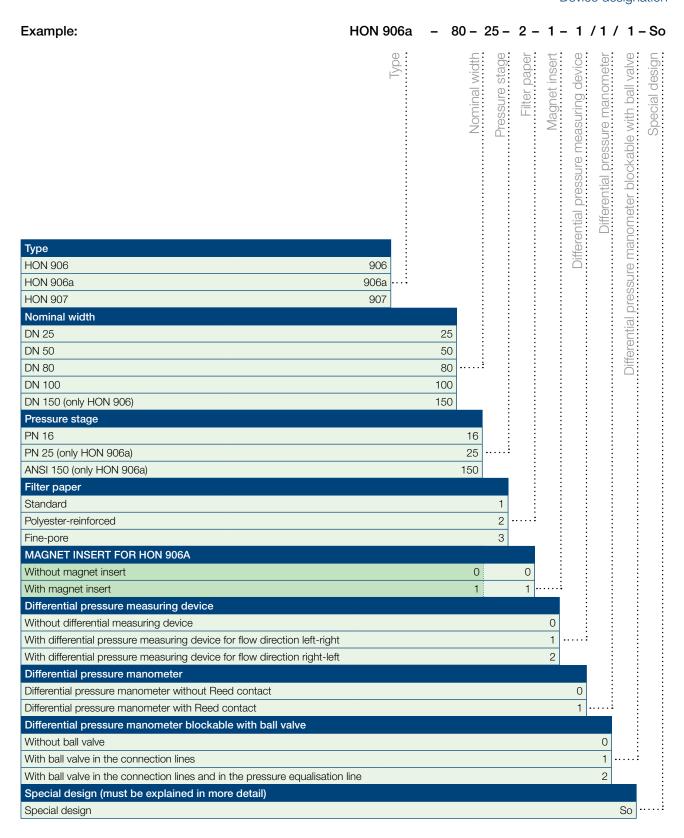
Note: • The values apply for natural gas with $p_n = 0.83 \text{ kg/m}^3$ and t = 15 °C

• With use of other gas types, the pressure loss is calculated as $\Delta p = p_{nGas}/0.83 \times \Delta p_{diagram}$



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Device designation



Subject to technical changes!

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For More Information

To learn more about Honeywell's Advanced Gas Solutions, visit www.honeywellprocess.com or contact your Honeywell account manager

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