



# PFG series

NATURAL GAS CARTRIDGES

DIAMETER 89-116-140 mm

## MAIN APPLICATIONS:

- FINE CHEMICALS
- PETROCHEMICAL
- OIL & GAS
- POWER GENERATION
- GENERAL INDUSTRY

## CHARACTERISTICS:

- Large diameter for high flow-rate
- High separation efficiency
- Low initial (*dry*) and saturation (*wet*) pressure drop
- Flow direction from inside to outside for coalescing
- Flow direction from outside to inside for solids separation
- Seamless fibreglass media
- Depth filter media with graded density matrix
- Epoxy resin for end caps assembly
- Tinned steel hardware
- Ideal for dry gas filtration
- Suitable for liquid hydrocarbons or water separation from gas
- Suitable for gas contaminated with gel, waxes and asphaltenes
- Ideal as pre-coalescing stage in double stage gas filter separators
- Suitable for gas with liquids up to 30000 ppm (3%)
- Available in six filtration ratings
- Separation efficiency: 98% for solids and 99.5% liquids  $\geq 0.5 \mu\text{m}$

# ASCO FILTRI

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## NATURAL GAS CARTRIDGES

DIAMETER 89-116-140 mm

### TECHNICAL DATA

#### DIFFERENTIAL PRESSURE

Cartridge replacement:

0.8 - 1.0 bar @ 25 °C

Max. allowable:

OD 88.9: 8.2 bar @ 25 °C

OD 116.0: 3.4 bar @ 25 °C

OD 139.7: 2.4 bar @ 25 °C

7.0 bar (HP version)

#### WORKING TEMPERATURE

115 °C (standard version)

232 °C (HT version)

#### CONSTRUCTION MATERIAL

Filter media:

- High density fiberglass cylinder

External drain sock:

- Cotton

Hardware:

- Tinned steel

- Stainless steel (SS version)

Gaskets:

- Buna-n

- Viton (only for HT version)

#### DIMENSIONS

Diameter:

PFG36 OD 89/52 x 914 mm

PFG336 OD 116/81 x 914 mm

PFG536 OD 140/106 x 914 mm

PFG72 OD 89/52 x 1829 mm

PFG372 OD 116/81 x 1829 mm

PFG572 OD 140/106 x 1829 mm

#### FILTERING AREA

PFG36 0.25 m<sup>2</sup>

PFG336 0.34 m<sup>2</sup>

PFG536 0.41 m<sup>2</sup>

PFG72 0.50 m<sup>2</sup>

PFG372 0.68 m<sup>2</sup>

PFG572 0.82 m<sup>2</sup>

### Flow-rate / Delta-P data:

Pressure (bara)	Flow-rate (Nm <sup>3</sup> /h)			
	PFG36	PFG336	PFG372	PFG536
10	2080	2940	4830	9370
20	2880	4200	7200	12990
40	4020	6090	10500	18110
50	4660	6820	11550	20990
60	4930	7350	12440	22180

Data are valid at the following conditions:

Fluid: natural gas with specific weight 0.69 kg/Nm<sup>3</sup>. Liquids: hydrocarbons with specific weight 700 kg/m<sup>3</sup>.

Delta-P on dry condition: 0.1 bar. Delta-P on saturated condition: 0.25 bar. Temperature: 15 °C.

Recommended flow-rates should be reduced based on the application.

### Specific flow-rate correction factors:

For temperature different than 15 °C multiply the flow-rate by Kt coefficient.

°C	15	25	50	75	100	125	150	175
Kt	1.0	0.90	0.95	0.92	0.88	0.85	0.82	0.8

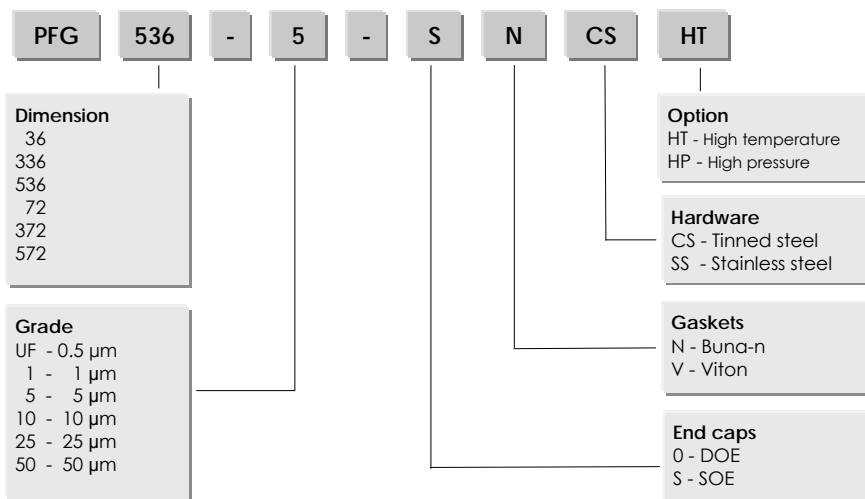
For specific weight different than 0.69 kg/Nm<sup>3</sup> multiply the flow-rate by Kδ coefficient.

kg/Nm <sup>3</sup>	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3
Kδ	1.50	1.30	1.20	1.10	1.0	0.90	0.85	0.80	0.75	0.70

For Delta-P different than 0.1 barg multiply the flow-rate by Kp coefficient.

bar	0.035	0.05	0.07	0.10	0.14	0.20	0.35
Kp	0.60	0.72	0.85	1.0	1.12	1.35	1.70

### Ordering information:



We reserve the right to change the data of this specification without notice.

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