

**3 Type**

- A** Without dipstick
- B\*** With dipstick

**4 Identification no.**

- 0** With splash guards, with wire mesh filter
- 1** With splash guards, no filter
- 2** With splash guards, with PU filter
- 3** No splash guards, no filter
- 4** No splash guards, with PU filter

**1**

**2**

d <sub>1</sub>	d <sub>2</sub>			d <sub>3</sub>	d <sub>4</sub>	l <sub>1</sub>	l <sub>2</sub> ≈	l <sub>3</sub>
31	G 1/4	-	-	8	30	9,5	29,5	188
31	G 3/8	M 16 x 1,5	M 18 x 1,5	10	30	9,5	29,5	188
31	G 1/2	M 20 x 1,5	M 22 x 1,5	12	30	9,5	29,5	188
42	G 3/8	-	-	10	41	11,5	36,5	-
42	G 1/2	-	-	12	41	11,5	36,5	-
42	G 3/4	-	-	18	41	11,5	36,5	184
42	G 1	-	-	23	41	11,5	36,5	184
57	G 3/4	-	-	18	56	14	42	-
57	G 1	-	-	23	56	14	42	-
57	G 1 1/4	-	-	28	56	16	42	184
57	G 1 1/2	-	-	28	56	16	42	184

**Specification**

- Plastic (Polyamide PA)
  - Temperature resistant up to 100 °C
  - Upper part (cap)
    - Orange, RAL 2004
  - Lower part (threaded part)
    - Black
- Seal, rubber NBR (Perbunan®)
- Air filter wire mesh
  - Zinc plated
  - Filtration 50 to 60 µm
- Air filter PU-foam (Polyurethan)
  - Filtration 40 µm
  - Temperature resistant up to 100 °C
- Dipstick steel, phosphated

• RoHS

**On request**

- Level Markings / Special Lengths GN 109  
→ Page 2083

**Information**

Function and operational criteria of breather caps GN 552 see description of function.  
MAX-MIN lines can easily be marked on the two flat sides of the dipstick (see GN 109 → Page 2083).

\* Type with dipstick (Type B) is only available for marks 0, 1 and 2 as follows:

- Size 31 - all threads
- Size 42 - G 3/4 and G 1 only
- Size 57 - G 1 1/4 and G 1 1/2 only

see also...

- ATEX Breather Caps GN 552.6 → Page 1610
- Breather Caps GN 552.1 (with Sealing Disk) → Page 1611

**How to order**

**GN 552-42-G<sup>3/4</sup>-A-1**

<b>1</b>	d <sub>1</sub>
<b>2</b>	d <sub>2</sub>
<b>3</b>	Type
<b>4</b>	Identification no.

### Description of function

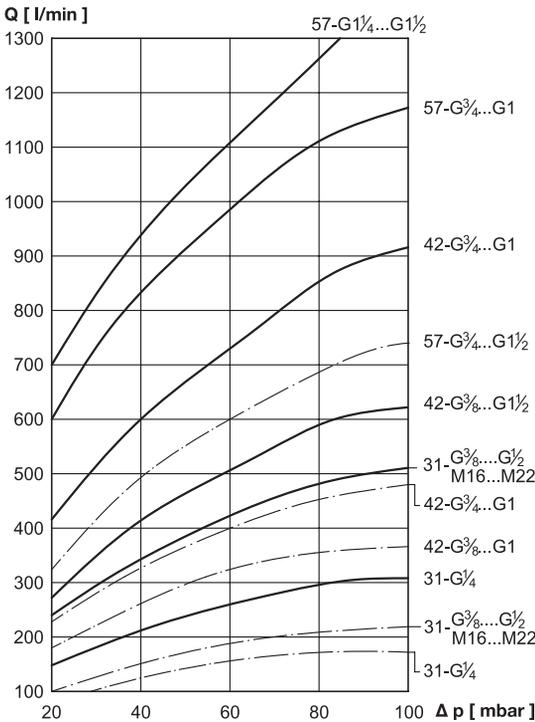
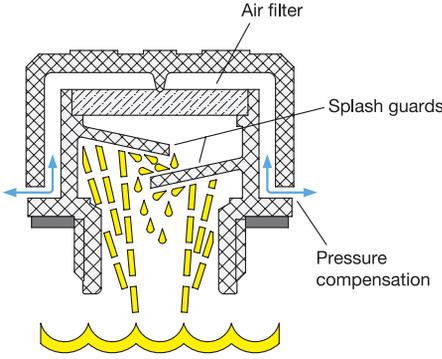
Breather caps GN 552 are used in oil reservoirs which must be ventilated.

If the oil is agitated, e.g. by a gear running in an oil bath or sump, there is the risk that the oil will leak. With properly aligned and shaped splash guards (see schematic drawing), these breather caps prevent the oil from leaking without substantially disrupting the ventilation / breathing process (pressure compensation).

The splash guards can be left out if their function is no longer needed or if a higher air flow rate is desired (Identification no. 3 and 4).

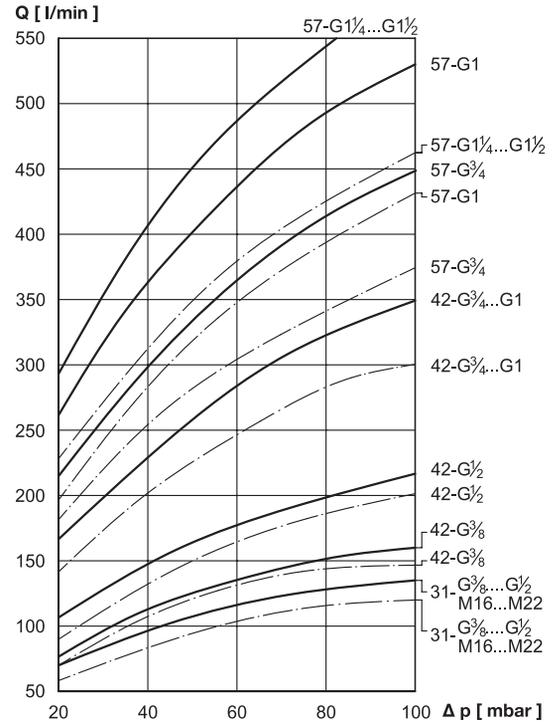
A filter is used to protect the oil from outside pollution (dust). The filter is mounted **behind** the splash guards to ensure it makes no contact with the oil and becomes saturated by capillary effect.

For a very high air flow rate (the level of the oil reservoir changing quickly), breather caps GN 663 → Page 1612 should be used.



Air flow rate [l/min] in reliance on the pressure difference  $\Delta p$  [mbar] container / outside space with filter (40 µm): — · — without filter: — — —

Type **without** splash guards (Identification no. 3 and 4)



Air flow rate [l/min] in reliance on the pressure difference  $\Delta p$  [mbar] container / outside space with filter (40 µm): — · — without filter: — — —

Type **with** splash guards (Identification no. 0, 1 and 2)

3.1

3.2

3.3

3.4

3.5

3.6

3.7

3.8

3.9

