



3 Type
A Low design
B High design, with stainless steel cap

Specification



- Body
Brass **MS**
- Ball
Steel 1.3505
- Thrust spring
Stainless steel AISI 301
- Seal DIN 7603 A
Soft iron 1.0338
(for d₁ = M10x1: PA6)
- Breather cap (Type B)
Stainless steel AISI 304
- Temperature resistant from
-22 °F to +392 °F (-30 °C to +200 °C)
- *Stainless Steel Characteristics* → page 2143
- **RoHS compliant**

Accessory

- Thin hex nuts GN 7430 → page 1714

Information

Once the opening pressure specified in the table is exceeded, GN 883 breather valves will vent a container, preventing excessive internal container pressure. They are also characterized by their compact dimensions.

An identification (type A) or a colored ring (type B) in yellow (20 - 80 mbar) or green (160 - 240 mbar) indicates the different opening pressures.

The simple operating principle (thrust spring / ball) guarantees a stable and trouble-free use of the valve. The installation position is vertically upwards.

Assembly note:

For wall thicknesses below 4 mm, use GN 7430 thin hex nuts.

How to order

GN 883-G3/8-20-A-MS

1	Pipe thread d ₁ (Fine thread d ₁)
2	Opening pressure (min.)
3	Type
4	Material

Metric table

Dimensions in: millimeters - inches

d₁		Opening pressure in mbar		d₂	d₃	e₁	e₂	l₁	l₂	l₃	l₄	l₅	A/F		Approx. air outlet l/min.	
Fine thread	Pipe thread	min.	max.										Type A	Type B	Type A	Type B
M 10 x 1	-	20	80	14.5 <i>0.57</i>	12.5 <i>0.49</i>	16 <i>0.63</i>	18.5 <i>0.73</i>	6 <i>0.24</i>	6 <i>0.24</i>	8 <i>0.31</i>	7 <i>0.28</i>	16 <i>0.63</i>	14 <i>0.55</i>	17 <i>0.67</i>	1.2	1.8
M 10 x 1	-	160	240	14.5 <i>0.57</i>	12.5 <i>0.49</i>	16 <i>0.63</i>	18.5 <i>0.73</i>	6 <i>0.24</i>	6 <i>0.24</i>	8 <i>0.31</i>	7 <i>0.28</i>	16 <i>0.63</i>	14 <i>0.55</i>	17 <i>0.67</i>	1.2	1.8
M 12 x 1.5	-	20	80	18 <i>0.71</i>	12.5 <i>0.49</i>	19.5 <i>0.77</i>	18.5 <i>0.73</i>	6.5 <i>0.26</i>	6 <i>0.24</i>	7.5 <i>0.30</i>	7 <i>0.28</i>	16.5 <i>0.65</i>	17 <i>0.67</i>	17 <i>0.67</i>	1.2	1.8
M 12 x 1.5	-	160	240	18 <i>0.71</i>	12.5 <i>0.49</i>	19.5 <i>0.77</i>	18.5 <i>0.73</i>	6.5 <i>0.26</i>	6 <i>0.24</i>	7.5 <i>0.30</i>	7 <i>0.28</i>	16.5 <i>0.65</i>	17 <i>0.67</i>	17 <i>0.67</i>	1.2	1.8
M 14 x 1.5	G 1/4	20	80	20 <i>0.79</i>	12.5 <i>0.49</i>	19.5 <i>0.77</i>	18.5 <i>0.73</i>	6.5 <i>0.26</i>	6 <i>0.24</i>	7.5 <i>0.30</i>	7.5 <i>0.30</i>	16.5 <i>0.65</i>	17 <i>0.67</i>	17 <i>0.67</i>	1.2	1.8
M 14 x 1.5	G 1/4	160	240	20 <i>0.79</i>	12.5 <i>0.49</i>	19.5 <i>0.77</i>	18.5 <i>0.73</i>	6.5 <i>0.26</i>	6 <i>0.24</i>	7.5 <i>0.30</i>	7.5 <i>0.30</i>	16.5 <i>0.65</i>	17 <i>0.67</i>	17 <i>0.67</i>	1.2	1.8
M 16 x 1.5	-	20	80	22 <i>0.87</i>	12.5 <i>0.49</i>	25 <i>0.98</i>	24 <i>0.94</i>	9 <i>0.35</i>	11 <i>0.43</i>	7.5 <i>0.30</i>	7.5 <i>0.30</i>	16.5 <i>0.65</i>	22 <i>0.87</i>	22 <i>0.87</i>	1.2	1.8
M 16 x 1.5	-	160	240	22 <i>0.87</i>	12.5 <i>0.49</i>	25 <i>0.98</i>	24 <i>0.94</i>	9 <i>0.35</i>	11 <i>0.43</i>	7.5 <i>0.30</i>	7.5 <i>0.30</i>	16.5 <i>0.65</i>	22 <i>0.87</i>	22 <i>0.87</i>	1.2	1.8
-	G 3/8	20	80	23 <i>0.91</i>	12.5 <i>0.49</i>	25 <i>0.98</i>	24 <i>0.94</i>	9 <i>0.35</i>	11 <i>0.43</i>	7.5 <i>0.30</i>	7.5 <i>0.30</i>	16.5 <i>0.65</i>	22 <i>0.87</i>	22 <i>0.87</i>	1.2	1.8
-	G 3/8	160	240	23 <i>0.91</i>	12.5 <i>0.49</i>	25 <i>0.98</i>	24 <i>0.94</i>	9 <i>0.35</i>	11 <i>0.43</i>	7.5 <i>0.30</i>	7.5 <i>0.30</i>	16.5 <i>0.65</i>	22 <i>0.87</i>	22 <i>0.87</i>	1.2	1.8
-	G 1/2	20	80	26 <i>1.02</i>	12.5 <i>0.49</i>	31 <i>1.22</i>	29 <i>1.14</i>	8.5 <i>0.33</i>	11 <i>0.43</i>	8 <i>0.31</i>	8 <i>0.31</i>	17 <i>0.67</i>	27 <i>1.06</i>	27 <i>1.06</i>	1.2	1.8
-	G 1/2	160	240	26 <i>1.02</i>	12.5 <i>0.49</i>	31 <i>1.22</i>	29 <i>1.14</i>	8.5 <i>0.33</i>	11 <i>0.43</i>	8 <i>0.31</i>	8 <i>0.31</i>	17 <i>0.67</i>	27 <i>1.06</i>	27 <i>1.06</i>	1.2	1.8
-	G 3/4	20	80	32 <i>1.26</i>	12.5 <i>0.49</i>	37 <i>1.46</i>	35 <i>1.38</i>	8.5 <i>0.33</i>	11 <i>0.43</i>	8 <i>0.31</i>	8 <i>0.31</i>	17 <i>0.67</i>	32 <i>1.26</i>	32 <i>1.26</i>	1.2	1.8
-	G 3/4	160	240	32 <i>1.26</i>	12.5 <i>0.49</i>	37 <i>1.46</i>	35 <i>1.38</i>	8.5 <i>0.33</i>	11 <i>0.43</i>	8 <i>0.31</i>	8 <i>0.31</i>	17 <i>0.67</i>	32 <i>1.26</i>	32 <i>1.26</i>	1.2	1.8

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