

Brass cutting ring fittings ISO 8434-1



Brass cutting ring fittings

ISO 8434-1 (DIN 2353)

Materials: Body: Nickel-plated brass, cutting ring: Brass

Temperature range: -40°C to max. +250°C (pivot joint: -20°C to max. +90°C)

Operating pressure for total connection incl. tube

Tube Ø external	Tube Ø internal	Hard copper tube (page 251)	With flexible polyamide tube* (page 196)
4	2.0	100 bar	40 bar
4	2.7	---	23 bar
6	4.0	100 bar	27 bar
8	6.0	100 bar	19 bar
10	8.0	115 bar	15 bar
12	9.0	---	19 bar
12	10.0	75 bar	12 bar
15	12.0	---	15 bar
15	13.0	70 bar	---
16	14.0	70 bar	---
18	14.0	---	17 bar
18	16.0	65 bar	---

*in connection with reinforcing ring



When using soft copper tube a correction factor of 0.65 must be used (pressure x 0,65).

The given values for polyamide tube are understood at temperatures from -15°C to +30°C.

Use the following multipliers for other temperatures:

+31°C to +50°C: pressure x 0.68

+51°C to +70°C: pressure x 0.55

Straight screw-in connections

Type	Tube Ø external	Screw-in thread	Type	Tube Ø external	Screw-in thread
Very light model series			Light model series		
GE 4 LLR MSV	4 LL	R 1/8"	GE 10 LR MSV	10 L	R 1/4"
GE 6 LLR MSV	6 LL	R 1/8"	GE 10 LR 3/8 MSV	10 L	R 3/8"
GE 6 LLR 1/4 MSV	6 LL	R 1/4"	GE 12 LR MSV	12 L	R 3/8"
GE 8 LLR MSV	8 LL	R 1/8"	GE 12 LR 1/2 MSV	12 L	R 1/2"
GE 8 LLR 1/4 MSV	8 LL	R 1/4"	GE 15 LR MSV	15 L	R 1/2"
GE 8 LLR 3/8 MSV	8 LL	R 3/8"	GE 18 LR MSV	18 L	R 1/2"

Straight screw-on connections, with female threads

Type	Tube Ø external	Screw-in thread	Type	Tube Ø external	Screw-in thread
Very light model series			Light model series		
GAI 4 LLR MSV	4 LL	G 1/8"	GAI 10 LR MSV	10 L	G 1/4"
GAI 6 LLR MSV	6 LL	G 1/8"	GAI 10 LR 3/8 MSV	10 L	G 3/8"
GAI 6 LLR 1/4 MSV	6 LL	G 1/4"	GAI 12 LR MSV	12 L	G 3/8"
GAI 8 LLR MSV	8 LL	G 1/8"	GAI 12 LR 1/2 MSV	12 L	G 1/2"
GAI 8 LLR 1/4 MSV	8 LL	G 1/4"	GAI 15 LR MSV	15 L	G 1/2"
GAI 8 LLR 3/8 MSV	8 LL	G 3/8"	GAI 18 LR MSV	18 L	G 1/2"

Straight screw connections

Type	Tube Ø external	Union nut thread	Type	Tube Ø external	Union nut thread
Very light model series			Light model series		
G 4 LL MSV	4 LL	M 8 x 1	G 10 L MSV	10 L	M 16 x 1.5
G 6 LL MSV	6 LL	M 10 x 1	G 12 L MSV	12 L	M 18 x 1.5
G 8 LL MSV	8 LL	M 12 x 1	G 15 L MSV	15 L	M 22 x 1.5
			G 18 L MSV	18 L	M 26 x 1.5

Angle screw-in connections

Type	Tube Ø external	Screw-in thread	Type	Tube Ø external	Screw-in thread
Very light model series			Light model series		
WE 4 LLR MSV	4 LL	R 1/8"	WE 10 LR MSV	10 L	R 1/4"
WE 6 LLR MSV	6 LL	R 1/8"	WE 10 LR 3/8 MSV	10 L	R 3/8"
WE 6 LLR 1/4 MSV	6 LL	R 1/4"	WE 12 LR MSV	12 L	R 3/8"
WE 8 LLR MSV	8 LL	R 1/8"	WE 12 LR 1/2 MSV	12 L	R 1/2"
WE 8 LLR 1/4 MSV	8 LL	R 1/4"	WE 15 LR MSV	15 L	R 1/2"
WE 8 LLR 3/8 MSV	8 LL	R 3/8"	WE 18 LR MSV	18 L	R 1/2"

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.