



TECHNICAL DATA SHEET

FRABO G-SIZE

COPPER ENDFEED FITTINGS

FRABO G-SIZE

Copper endfeed fittings



DESCRIPTION

FRABO G-SIZE thick-walled endfeed fittings are designed and manufactured by **FRABO** for the installation of welded junctions designed to withstand high operating pressures or substantial mechanical stresses.

Such applications cannot be handled with conventional-thickness fittings, requiring products of a high quality and reliability.

With a wall thickness that far exceeds the minimum requirements under UNI EN 1254-1 (see table A below), **FRABO G-SIZE** fittings easily satisfy the typical requirements of modern industrial systems.

TABLE A

DIAMETER (mm)	G-SIZE THICKNESS (mm)	STANDARD THICKNESS ¹ (mm)
22	1,5	0,9
28	1,5	0,9
35	1,8	1,0
42	2,0	1,1
54	2,0	1,2
64	2,0	1,4
67	2,0	1,4

¹ According EN 1254-1

MATERIALS AND RANGE

FRABO G-SIZE fittings are manufactured from **Cu-DHP Copper** (material CW024A according to EN 1412) using seamless pipes supplied in the annealed state.

The standard range is supplied in the following sizes: 22, 28, 35, 42, 54, 64 and 67. Other sizes and shapes are available upon request.

For more information on the series and its individual shapes visit the **FRABO G-SIZE** section at www.frabo.com.

APPLICATIONS

The numerous applications of **FRABO G-SIZE** fittings listed below are the result of precision engineering carried out by **FRABO**, dedicated to offering maximum performance under heavy operating conditions (installations subject to vibrations or intense mechanical stresses).

Possible applications of **FRABO G-SIZE** fittings include:

-  Industrial cooling
-  Compressor tandemization/connection
-  Compressed air systems
-  High-pressure gas distribution systems
-  Solar plants

Working conditions and parameters shall not exceed the limits indicated in table B.

TABLE B - MAXIMUM OPERATING PRESSURE (BAR)¹

DIAMETER (mm)	Temperature up to 40° C		Temperature from 40° to 120° C		Temperature from 120° to 150° C	
	S = 3	S = 4	S = 3	S = 4	S = 3	S = 4
22	80	60	72	54	67	50
28	67	50	58	43	53	40
35	67	50	55	41	51	38
42	56	42	51	38	47	35
54	47	35	40	30	36	27
64	45	34	41	30	37	28
67	42	31	38	28	35	26
76,1	38	29	35	26	32	24
88,9	34	25	30	23	28	21
108	32	24	29	22	27	20

S = Safety factor in reference to the burst pressure.

¹ Maximum pressures are based on an installation carried out using strong brazing according to applicable rules of good practice.

INSTALLATION TYPES

To guarantee an optimum result and to ensure the product application is safe, reliable and perfectly operational as described in table B, installation is advised using strong brazing in accordance with the applicable rules of good practice and by qualified expert installers.

The designer and/or installer is responsible for choosing and applying the corrosion resistant protection and for evaluating the most effective protection methods in relation to the environment where the piping will be located.

FEATURES

HIGH PRESSURE RESISTANCE

FRABO G-SIZE series is particularly recommended for the installation of air conditioning systems which carry R-410A cooling fluid.

R-410A application require over-the standard working pressures forcing the technicians to look for high-performance system components like thick-walled pipes and fittings.

MARKINGS

FRABO G-SIZE products are easily recognisable by the markings fb and "G" on each piece.

STANDARDS COMPLIANCE

The latest copy of the declaration of product conformity with the applicable standards can be downloaded from the **FRABO G-SIZE** section of the website www.frabo.com.



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