

SERIES FRABO G SIZE: PRESSURE AND TEMPERATURE RATES

Nominal Diameter (mm)	Temperatures from -40°C up to 40°C				Temperatures over 40°C and up to 120°C				Temperatures over 120°C up to 150°C			
	Estimated Burst Pressure (bar)	Estimated Burst Pressure (bar) SF=2	Estimated Burst Pressure (bar) SF=3	Estimated Burst Pressure (bar) SF=4	Estimated Burst Pressure (bar)	Estimated Burst Pressure (bar) SF=2	Estimated Burst Pressure (bar) SF=3	Estimated Burst Pressure (bar) SF=4	Estimated Burst Pressure (bar)	Estimated Burst Pressure (bar) SF=2	Estimated Burst Pressure (bar) SF=3	Estimated Burst Pressure (bar) SF=4
22	240	120	80	60	216	108	72	54	201	100,5	67	50
28	201	100,5	67	50	174	87	58	43,5	159	79,5	53	40
35	201	100,5	67	50	165	82,5	55	41	153	76,5	51	38
42	168	84	56	42	153	76,5	51	38	141	70,5	47	35
54	141	70,5	47	35	120	60	40	30	108	54	36	27
64	135	67,5	45	34	123	61,5	41	31	111	55,5	37	28
66,7	126	63	42	31,5	114	57	38	28,5	105	52,5	35	26
76,1	114	57	38	28,5	105	52,5	35	26	96	48	32	24
88,9	102	51	34	25,5	90	45	30	22,5	84	42	28	21
108	96	48	32	24	87	43,5	29	22	81	40,5	27	20

The values shown in the table have been calculated by using the formula shown on the right.

PS= Estimated burst pressure (bar)

Rm= Estimated mechanical resistance of the fitting material (N/mm²)

S= Fitting thickness (mm) Dn= Nominal diameter (mm)

SF= Safety Factor K= Correction coefficient

$$PS = K \times \frac{Rm \times S}{Dn \times SF}$$

The copper end feed fittings belonging to the GSIZE series comply with the requirement of EN 1254-1 and shall be hard brazed according the relevant rules of good practice.

The application of the fittings is limited to the compatible fluids within the pressure and temperature limits prescribed in the table above (ask Fra.Bo's technical service for further details).

REMARKS

The application framework described by standards EN 14276 and EN 378 requires, in relation to burst pressure calculation, a value for SF ≥ 3 (ask Fra.Bo's technical service for further details).