



Copper endfeed fittings in inches
LötfitTINGS in Zoll



FRABO FRIO 1/4" to 4" inch size endfeed fittings are designed to be installed with EN 12735-1, EN 12735-2 and ASME B 280 compliant pipes in cooling and climate control systems, being therefore suitable for both VRV and VRF systems. The high quality and strength of FRABO FRIO fittings are the best basis for safe and problem-free construction of climate control systems by strong brazing.

Die Schweißfitting-Serie aus Kupfer **FRABO FRIO** mit Zollabmessungen von 1/4" bis 4" ist die perfekte Ergänzung der entsprechend den Normen UNI EN 12735-1, UNI EN 12735-2 und ASME B 280 gefertigten Kupferrohre für den Bau von Klima- und Kühlanlagen. Sie widerstehen schwierigeren Betriebsbedingungen wie Installationen mit Vibrationen oder intensiven mechanischen Belastungen.

ADVANTAGES | VORTEILE

- The ideal solution for VRV, VRF refrigeration systems and similar
Spezifisch für Anwendungen in Klimaanlagen (VRV, VRF u.ä.) gedacht ist.
- The excellent chemical and physical properties of the copper are the guarantee to the highest corrosion resistance and the best hygienic conditions
Die exzellenten chemisch physikalischen Eigenschaften des Kupfers verleihen den Fittings eine ausgesprochen hohe Korrosionsbeständigkeit und garantieren maximale Hygiene.

FIELDS OF APPLICATION | EINSATZBEREICHE



VRV, VRF REFRIGERATION SYSTEMS AND SIMILAR
KLIMAAANLAGEN (VRV, VRF U. Ä.)

GENERAL FEATURES | EIGENSCHAFTEN DES SYSTEMS

Joining techniques Verbindungstechnik	Soldering (Strong brazing) Hartlöten
Dimensions Nennweiten	inches from 1/4" to 4.1/8" Zoll von 1/4" bis 4.1/8"
Material	Copper CW024A Kupfer CW024A
Standards Compliance Gemäss Norm*	EN 1412, ASME B 16.22, UNI EN 12735-1, UNI EN 12735-2

* SEE PAGE 282. / SIEHE BITTE SEITE NUMMER 282.

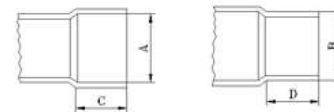
PIPES TO BE USED | ROHR AUSGANGSMATERIAL

Type
Typologie

Copper pipes according to UNI EN 12735-1 (seamless round copper pipes for air conditioning and refrigeration)
Kupferrohre nach Norm UNI EN 12735-1 (nahtlose Rundrohre aus Kupfer für Kalte- und Klimatechnik)

CONVERSION TABLE INCHES MM | UMRECHNUNGSTABELLE ZOLL MM (ASME B16.22)

Ø	A		B				C		D		wall thickness Wandstärke			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
3/8	0,377	9,5758	0,381	9,6774	0,373	9,4742	0,376	9,5504	0,31	7,874	0,38	9,652	0,023	0,5842
1/2	0,502	12,7508	0,506	12,8524	0,497	12,6238	0,501	12,7254	0,38	9,652	0,44	11,176	0,026	0,6604
5/8	0,627	15,9258	0,631	16,0274	0,622	15,7988	0,626	15,9004	0,5	12,7	0,56	14,224	0,029	0,7366
3/4	0,752	19,1008	0,756	19,2024	0,747	18,9738	0,751	19,0754	0,62	15,748	0,69	17,526	0,031	0,7874
7/8	0,877	22,2758	0,881	22,3774	0,872	22,1488	0,876	22,2504	0,75	19,05	0,81	20,574	0,033	0,8382
1	1,003	25,48	1,004	25,52	0,997	25,32	1,001	25,42	0,866	22	0,925	23,5	0,043	1,1
1-1/8	1,128	28,6512	1,132	28,7528	1,122	28,4988	1,127	28,6258	0,91	23,114	0,97	24,638	0,04	1,016
1-1/4	1,253	31,826	1,257	31,928	1,246	31,663	1,248	31,700	0,94	23,876	1,0	25,40	0,042	1,0668
1-3/8	1,378	35,0012	1,382	35,108	1,372	34,8488	1,377	34,9758	0,97	24,638	1,03	26,162	0,044	1,1176
1-5/8	1,628	41,3512	1,633	41,4782	1,621	41,1734	1,627	41,3258	1,09	27,686	1,16	29,464	0,051	1,2954
2-1/8	2,128	54,0512	2,133	54,1782	2,121	53,8734	2,127	54,0258	1,34	34,036	1,41	35,814	0,059	1,4986
2-5/8	2,628	66,7512	2,633	66,8782	2,621	66,5734	2,627	66,7258	1,47	37,338	1,53	38,862	0,067	1,7018
3-1/8	3,128	79,4512	3,133	79,5782	3,121	79,2734	3,127	79,4258	1,66	42,164	1,72	43,688	0,075	1,905
3-5/8	3,628	92,1512	3,633	92,2782	3,621	91,9734	3,627	92,1258	1,91	48,514	1,97	50,038	0,086	2,1844
4-1/8	4,128	104,8512	4,133	104,9782	4,121	104,6734	4,127	104,8258	2,16	54,884	2,22	56,388	0,096	2,4384



SCAN ME

For more detailed information on products installations and fields of application, it is necessary to refer to the technical data sheets available on the site www.frabo.com



SCANNE MICH

Für weitere Hinweise über die Installation der Produkte und deren Anwendungsbereichen wird auf die technischen Datenblätter auf der Website www.frabo.com verwiesen

FRABO FRIO

Copper endfeed fittings in inches | Löt fittings in Zoll



FR5001 90° elbow M/F - Bogen 90° 1/A

CODE	D	1	2
FR5001A14A14000*	1/4	10	100
FR5001A38A38000	3/8	5	250
FR5001A12A12000	1/2	10	50
FR5001A58A58000	5/8	10	150
FR5001A34A34000	3/4	10	160
FR5001A78A78000	7/8	10	80
FR5001B01B01000	1	5	50
FR5001B18B18000	1.1/8	5	40
FR5001B14B14000	1.1/4	5	30
FR5001B38B38000	1.3/8	5	25
FR5001B58B58000	1.5/8	5	15
FR5001C18C18000*	2.1/8	1	5
FR5001C58C58000*	2.5/8	1	10
FR5001D18D18000*	3.1/8	1	6



FR5041 45° elbow F/F - Bogen 45° 1/I

CODE	D	1	2
FR5041A14A14000*	1/4	10	400
FR5041A38A38000	3/8	10	100
FR5041A12A12000	1/2	10	100
FR5041A58A58000	5/8	10	150
FR5041A34A34000	3/4	10	200
FR5041A78A78000	7/8	10	100
FR5041B01B01000	1	10	50
FR5041B18B18000	1.1/8	10	60
FR5041B14B14000*	1.1/4	10	50
FR5041B38B38000	1.3/8	5	30
FR5041B58B58000	1.5/8	5	20
FR5041C18C18000*	2.1/8	1	10
FR5041C58C58000*	2.5/8	1	20



FR5002 90° elbow F/F - Bogen 90° 1/I

CODE	D	1	2
FR5002A14A14000*	1/4	10	100
FR5002A38A38000	3/8	10	100
FR5002A12A12000	1/2	10	300
FR5002A58A58000	5/8	10	150
FR5002A34A34000	3/4	10	100
FR5002A78A78000	7/8	10	80
FR5002B01B01000	1	5	50
FR5002B18B18000	1.1/8	5	40
FR5002B14B14000	1.1/4	5	25
FR5002B38B38000	1.3/8	5	50
FR5002B58B58000	1.5/8	5	10
FR5002C18C18000	2.1/8	1	6
FR5002C58C58000	2.5/8	1	12
FR5002D18D18000*	3.1/8	1	6



FR5090 Elbow 90° F/F - Winkel 90° 1/I

CODE	D	1	2
FR5090A14A14000*	1/4	10	300
FR5090A38A38000	3/8	10	200
FR5090A12A12000	1/2	10	300
FR5090A58A58000	5/8	10	120
FR5090A34A34000	3/4	10	200
FR5090A78A78000*	7/8	10	40
FR5090B01B01000*	1	10	40
FR5090B18B18000	1.1/8	5	50
FR5090B14B14000*	1.1/4	5	50
FR5090B38B38000	1.3/8	5	35
FR5090B58B58000	1.5/8	5	20
FR5090C18C18000*	2.1/8	1	25
FR5090C58C58000*	2.5/8	1	20
FR5090D18D18000*	3.1/8	1	8



FR5040 45° street elbow M/F - Bogen 45° 1/A

CODE	D	1	2
FR5040A14A14000*	1/4	10	400
FR5040A38A38000*	3/8	10	500
FR5040A12A12000	1/2	10	300
FR5040A58A58000	5/8	10	150
FR5040A34A34000	3/4	10	100
FR5040A78A78000	7/8	10	100
FR5040B01B01000*	1	5	80
FR5040B18B18000	1.1/8	5	60
FR5040B38B38000	1.3/8	5	25
FR5040B58B58000	1.5/8	5	20
FR5040C18C18000*	2.1/8	1	10
FR5040C58C58000	2.5/8	1	10



FR5092 Street Elbow 90° M/F - Winkel 90° 1/A

CODE	D	1	2
FR5092A14A14000*	1/4	10	400
FR5092A38A38000*	3/8	10	300
FR5092A12A12000*	1/2	10	350
FR5092A58A58000*	5/8	10	60
FR5092A34A34000*	3/4	10	60
FR5092A78A78000*	7/8	10	40
FR5092B01B01000*	1	5	20
FR5092B18B18000*	1.1/8	5	100
FR5092B14B14000*	1.1/4	5	50
FR5092B38B38000*	1.3/8	5	40
FR5092B58B58000*	1.5/8	5	50
FR5092C18C18000*	2.1/8	1	8
FR5092C58C58000*	2.5/8	1	10
FR5092D18D18000*	3.1/8	1	10



FR5270 Straight coupling F/F - Muffe 1/I

CODE	D	1	2
FR5270A14A14000	1/4	10	1000
FR5270A38A38000	3/8	10	150
FR5270A12A12000	1/2	10	400
FR5270A58A58000	5/8	10	200
FR5270A34A34000	3/4	10	180
FR5270A78A78000	7/8	10	150
FR5270B01B01000	1	5	100
FR5270B18B18000	1.1/8	5	80
FR5270B14B14000	1.1/4	5	50
FR5270B38B38000	1.3/8	5	50
FR5270B58B58000	1.5/8	5	30
FR5270C18C18000	2.1/8	5	15
FR5270C58C58000	2.5/8	1	20
FR5270D18D18000	3.1/8	1	20



FR5130 Equal Tee F/F/F - T-Stück 1/I/I

CODE	D	1	2	€/Pc	€/Stk	RG
FR5130A14A14A14	1/4	10	1000	3.02	RF	
FR5130A38A38A38	3/8	10	400	2.18	RF	
FR5130A12A12A12	1/2	10	300	2.50	RF	
FR5130A58A58A58	5/8	10	200	3.08	RF	
FR5130A34A34A34	3/4	10	100	3.81	RF	
FR5130A78A78A78	7/8	10	70	5.61	RF	
FR5130B01B01B01	1	5	50	9.48	RF	
FR5130B18B18B18	1.1/8	5	30	10.10	RF	
FR5130B14B14B14	1.1/4	5	25	14.63	RF	
FR5130B38B38B38	1.3/8	5	20	15.24	RF	
FR5130B58B58B58	1.5/8	5	10	21.68	RF	
FR5130C18C18C18*	2.1/8	1	8	38.41	RF	
FR5130C58C58C58*	2.5/8	1	12	111.43	RF	
FR5130D18D18D18*	3.1/8	1	5	170.28	RF	
FR5130D58D58D58*	3.5/8	1	4	400.31	RF	



FR5130 Reducing Tee F/F/F - T-Stück reduziert 1/I/I

CODE	D	1	2
FR5130A14A38A38*	1/4x3/8x3/8	10	500
FR5130A38A14A38*	3/8x1/4x3/8	10	500
FR5130A34A58A34*	3/4x5/8x3/4	10	100
FR5130B18A78B18*	1.1/8x7/8x1.1/8	5	25
FR5130B58B38B38*	1.5/8x1.3/8x1.3/8	5	20
FR5130C18B58B58*	2.1/8x1.5/8x1.5/8	1	5
FR5130C18C58C18*	2.1/8x2.5/8x2.1/8	1	10
FR5130B58C18B58*	1.5/8x2.1/8x1.5/8	1	2
FR5130C58C18C18*	2.5/8x2.1/8x2.1/8	1	10



Please read as follows:
Bitte lesen Sie folgt:
ex. FR5130B58B38B38

1: 1.5/8
2: 1.3/8
3: 1.3/8

* ON DEMAND / AUF ANFRAGE

FR5240 Reducing coupling F/F - Reduziermuffe 1/I

CODE	D	1	2
FR5240A12A38000	1/2x3/8	10	500
FR5240A58A12000	5/8x1/2	10	150
FR5240A34A12000	3/4x1/2	10	50
FR5240A34A58000	3/4x5/8	10	200



FR5243 Fitting reducer M/F - Reduzierstück 1/A

CODE	D	1	2
FR5243A12A14000	1/2x1/4	5	100
FR5243A12A38000	1/2x3/8	5	250
FR5243A58A38000	5/8x3/8	10	500
FR5243A58A12000	5/8x1/2	10	200
FR5243A34A38000	3/4x3/8	10	100
FR5243A34A12000	3/4x1/2	10	100
FR5243A34A58000	3/4x5/8	10	100
FR5243A38A14000	3/8x1/4	10	50
FR5243A78A58000	7/8x5/8	10	200
FR5243A78A34000	7/8x3/4	10	200
FR5243B01A34000	1x3/4	5	120
FR5243B01A78000	1x7/8	5	100
FR5243B18A34000	1.1/8x3/4	5	40
FR5243B18A78000	1.1/8x7/8	5	100
FR5243B38B18000	1.3/8x1.1/8	5	120
FR5243B58B18000	1.5/8x1.1/8	5	50
FR5243B58B38000*	1.5/8x1.3/8	5	40
FR5243C18B18000*	2.1/8x1.1/8	5	30
FR5243C18B58000*	2.1/8x1.5/8	5	30
FR5243C58C18000*	2.5/8x2.1/8	1	25
FR5243E18D58000*	4.1/8x3.5/8	1	10



FR5301 Stop end F - Kappe 1

CODE	D	1	2
FR5301A38000000	3/8	10	500
FR5301A12000000	1/2	10	500
FR5301A58000000	5/8	10	50
FR5301A34000000	3/4	10	400
FR5301A78000000	7/8	10	300
FR5301B01000000	1	5	50
FR5301B18000000	1.1/8	5	150
FR5301B38000000	1.3/8	5	100
FR5301B58000000	1.5/8	5	60

