

Flexible pipes for gas series AF and GIF

The metal flexible pipes of series AF and GIF are particularly suitable for the feeding of burners for methane gas or other fuel gas of the first, second and third family and air in industrial combustion systems. They are manufactured according to norm DIN 3384 .

The AF and GIF pipes are corrugated to maximize flexibility and resistance and an external metal braid improves their mechanical strength.

Sturdy compact construction, fully on metal, is an attractive feature for strongly heavy industrial applications, whether for temperatures or for working pressures.



TECHNICAL FEATURES

Standard construction material	AISI 321 – other material on request
Braid coated material	AISI 304
Connections	carbon steel
Max pressure	16 bar for air, 4 bar for natural gas
Working temperature	-20 ÷ +600 °C

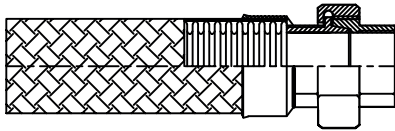
FEATURES

- Perfect leak-tightness
- High resistance to flame
- High tolerance to corrosion
- Flexible compensator materials on request:
 - ASTM A 240 TP 316L (AISI 316L)
 - ASTM B 168 (INCONEL 600)
 - ASTM B 333 (HASTELLOY B)
 - Cu Sn 6 (Bronze)
 - MONEL
 - AISI 316Ti
- Male screwed connection made of steel INOX 1.4305 (for AF version)
- Male or female pipe union made of three steel pieces (screwed on the connector) made of cast iron
- Connector coupling by TIG soldering in controlled atmosphere

FITTINGS

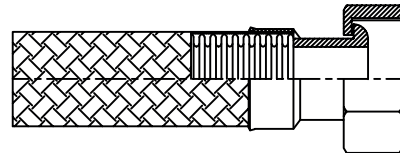
Each flexible hose can have a wide range of fittings with all materials that are available on the market. The hose fitting can be made by means of a silver alloy welding or tig. This one has got a higher resistance to high temperatures, up to 800°C while the silver alloy one can reach 300°C.

BFI e/o BFC



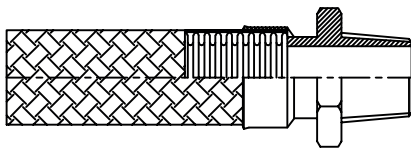
Male or female union, three pieces for BSP/NPT gas thread

DGI e/oDGC



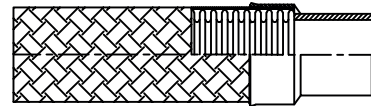
Revolving nut for cylindrical gas thread with tapered and/or flat seat

MFI e/o MFC



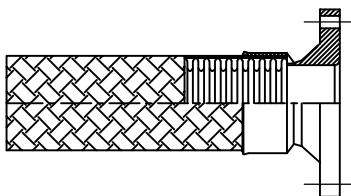
BSP/NPT gas tapered - cylindrical thread fixed male

MLI e/o MLC



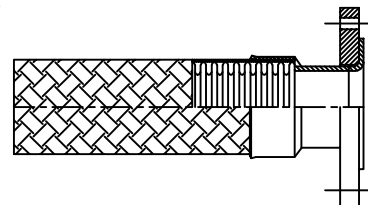
Plain coupling to be head welded

FFI e/o FFC



Fixed flange according to UNI - ANSI - DIN or SPECIAL

FGI e/o FGC



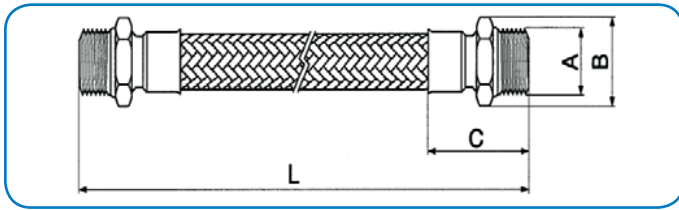
Revolving flange according to UNI - ANSI - DIN or SPECIAL with stainless steel plate and/or carbon steel plate. Thin and/or high thickness.

NOTE

All the following initials can end with letter "C", if they are in carbon steel, or they can end with letter "I" if they are in stainless steel AISI 304. For other kinds of materials our internal initials will be communicated each time.

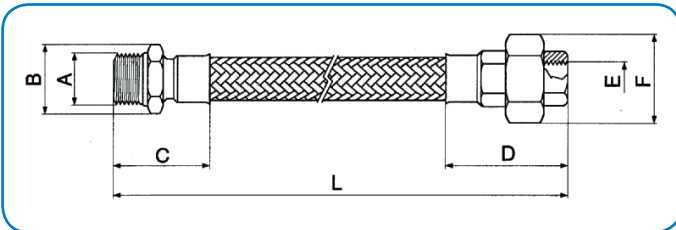
MODELS

CONNECTIONS: FIXED MALE/FIXED MALE



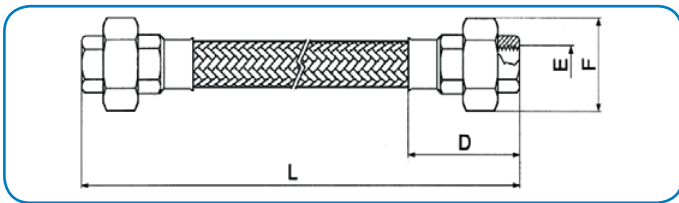
DN	10	15	20	25	32	40	50
A*	3/8	1/2	3/4	1	1.1/4	1.1/2	2
B	17	22	27	36	42	50	60
C	29	33	39	45	50	51	57

CONNECTIONS: FIXED MALE/PIPE UNION FEMALE



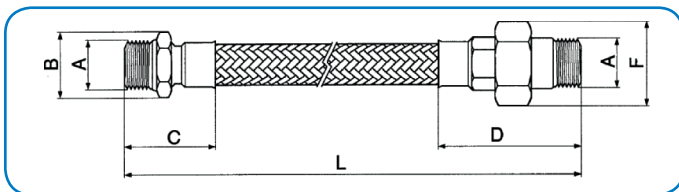
DN	10	15	20	25	32	40	50
A*	3/8	1/2	3/4	1	1.1/4	1.1/2	2
B	17	22	27	36	42	50	60
C	29	33	39	45	50	51	57
D	55	58	66	73	83	100	110
E*	3/8	1/2	3/4	1	1.1/4	1.1/2	2
F	32	41	50	55	70	75	90

CONNECTIONS: PIPE UNION FEMALE/PIPE UNION FEMALE



DN	10	15	20	25	32	40	50
E*	3/8	1/2	3/4	1	1.1/4	1.1/2	2
F	32	41	50	55	70	75	90
D	55	58	66	73	83	100	110

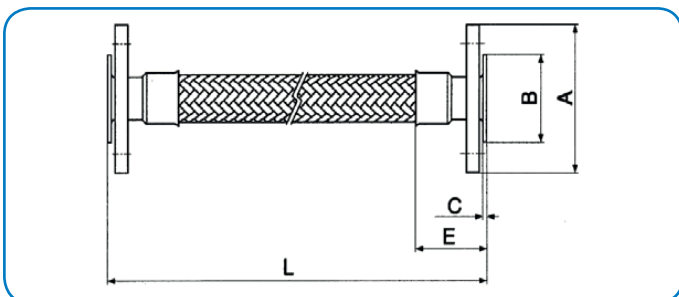
CONNECTIONS: FIXED MALE/PIPE UNION FEMALE



DN	10	15	20	25	32	40	50
A*	3/8	1/2	3/4	1	1.1/4	1.1/2	2
B	17	22	27	36	42	50	60
C	29	33	39	45	50	51	57
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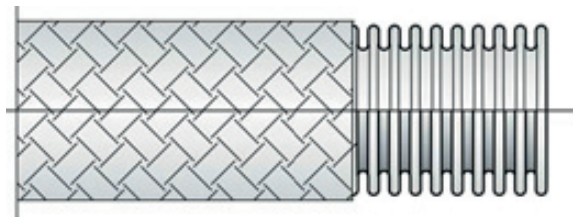
A* - E* = threading according to ISO 7/1
 L = standard lengths as per our price list
 (special lengths can be supplied on request)

CONNECTIONS: SLIDING FLANGES



DN	10	15	20	25	32	40	50	65	80	100
A	90	95	105	115	140	150	205	185	200	220
B	40	45	58	68	78	88	102	152	138	158
C	2	2	2	3	3	3	3	3	3	3
D	27	33	33	36	41	41	43	48	48	50
E	37	45	47	51	59	59	63	73	78	82

Flanges PN 16 according to ISO 7005
 L = standard lengths as per our price list (special lengths can be supplied on request)



The table here below shows the kind of convolution and moulding process.

DN	Ø (mm)	Bend radius constant flexure (mm)	Bend radius permanent bending (mm)	Hose type GIF	
				De (mm)	PN (Kg/cm ²)
1/8"	6,2	55	10	10,8	125
1/4"	8,3	60	15	13,5	100
3/8"	10,2	100	18	17	64
1/2"	12,2	140	20	19	64
3/4"	16,2	190	25	24	64
3/4"	20,2	230	30	29	50
1"	25,5	260	40	35	50
1" 1/4	34,2	290	50	44	40
1" 1/2	40,1	320	60	54	25
2"	50,4	360	70	66	25
2" 1/2	65,4	420	80	83	16
3"	80,2	480	100	100	16
4"	100,2	580	120	122	16
5"	126,2	680	150	150	16
6"	149,8	800	200	177	12,5
8"	200	950	260	232	10

All the reported data are subject to be changed without notice.

from 181016