

www.KH-Technic.dk

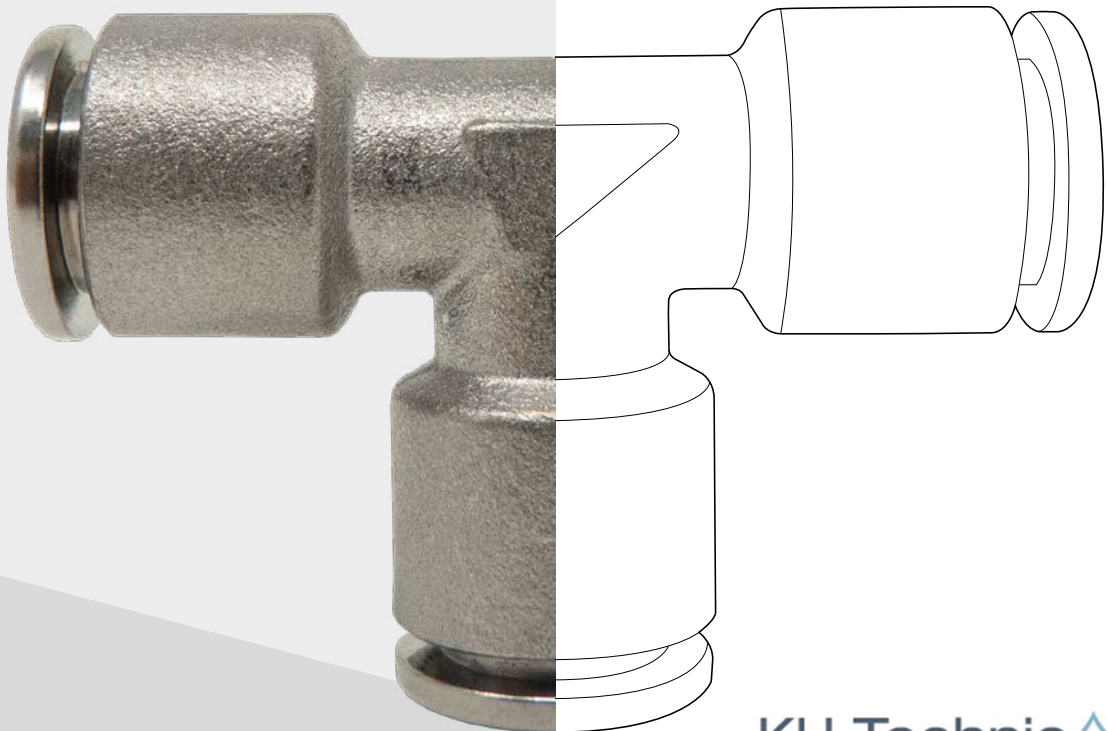
Tlf. 0045-43690011



FOOD GRADE HFR SERIES



COMPONENT



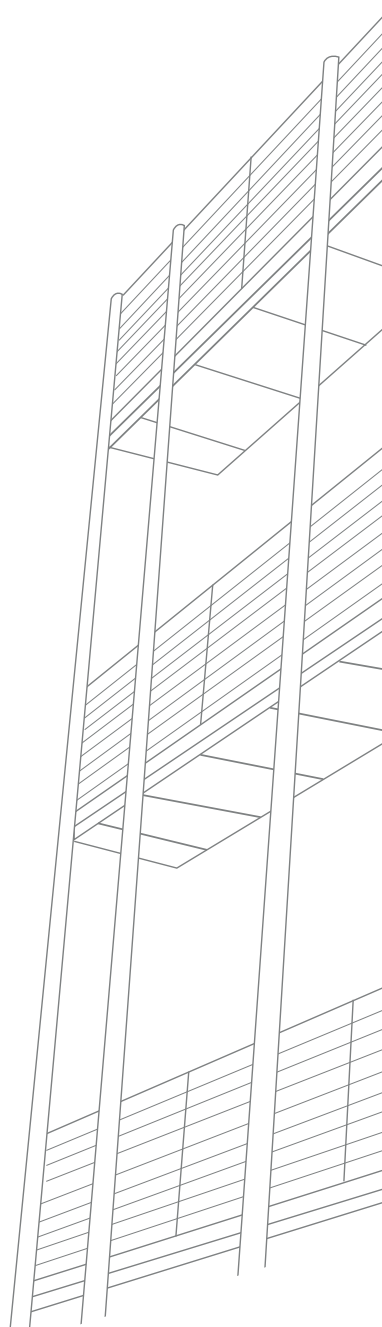
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Tlf. 0045-43690011







 **TierreGroup**[®]
INDUSTRIAL AUTOMATION
HYGIENIC & FOOD FOOD & BEVERAGE

 **TierreFittings**[®]

 **F-Line.PRO**

 **NET.Fit**[®]

 **INOX.Fit**[®]



FOOD GRADE HFR SERIES



PLUS

**HIGH CORROSION AND CHEMICAL
RESISTANCE**

**STUDIED TO GUARANTEE
RELIABILITY AND HIGH
MECHANICAL EFFICIENCY**

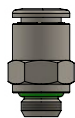
VACUUM RESISTANCE

**COMPLETE RANGE FOR USE IN
VARIOUS SECTORS**

**USABLE IN THE FOOD & BEVERAGE,
COFFEE MACHINES AND MEDICINAL
SECTORS**

SILICON FREE





p. 8 / **HFR-C-G**



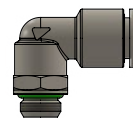
p. 8 / **HFR-O-C**



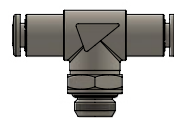
p. 8 / **HFR-C-F**



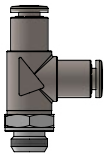
p. 9 / **HFR-M-M**



p. 9 / **HFR-L-G**



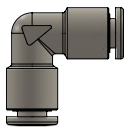
p. 9 / **HFR-T-G**



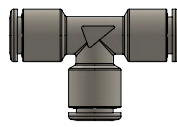
p. 10 / **HFR-S-T-G**



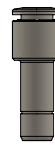
p. 10 / **HFR-U-C**



p. 10 / **HFR-L**

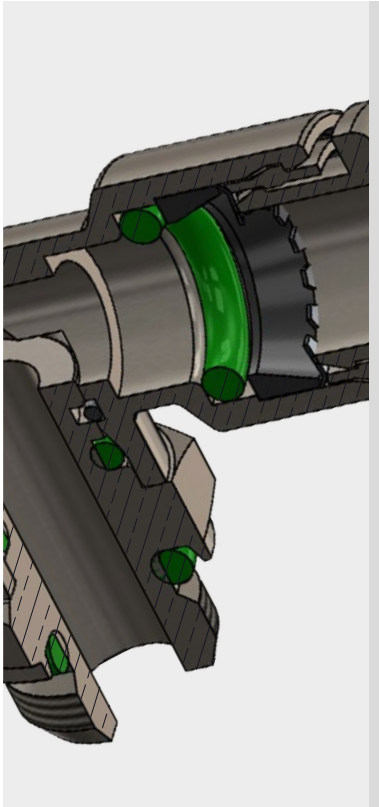


p. 11 / **HFR-T**



p. 11 / **HFR-G-J**





-20°C ÷ 150°C



Max. working pressure:

20 Bar

Negative pressure:

- 0,95 Bar



Compressed air and vacuum,
water and fluids suitable with
the construction materials



- Parallel gas BSPP ISO 228

G1/8" - G3/8"

- Metric ISO 262

M5 - M7



Polyamide, Polyethylene, FEP,
and PTFE

TEA⁺

HIGHLY CORROSION RESISTANT in strong acidic or alkaline environments:

- thicknesses of 2 - 4 µm withstand
- ASS 96h and CASS 48h salt spray tests

EN 16058 rig test (26 weeks)

NSF 61 section 8- pH5 Commercial hot (82°C) for taps, sanitary fittings, HVAC

EN 16889 for professional coffee machines and other "food zone" devices.

Body: TEA⁺ plated brass

Collet: TEA⁺ plated brass

Collar: PVDF-UHM FDA compliant

Lock claw: Stainless steel AISI 301

Back ring: PVDF-UHM FDA compliant

O'ring: FKM NSF/ANSI 61 certified
and FDA compliant

Retaining ring for swivel system:

Stainless steel AISI 302



Products in compliance with
the directive 1907/2006



Products in compliance with
the directive EU 2015/863



TEA⁺ surface treatment

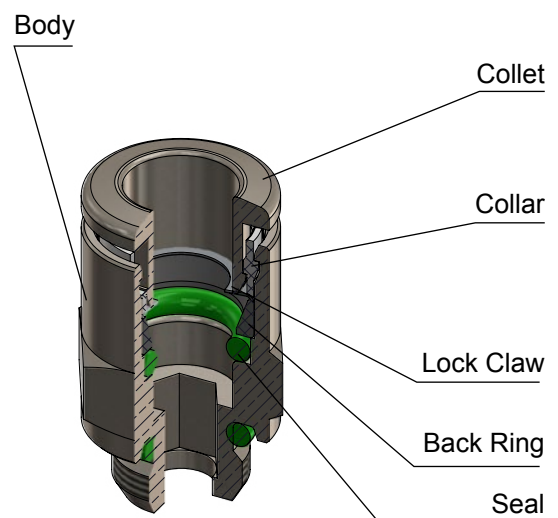
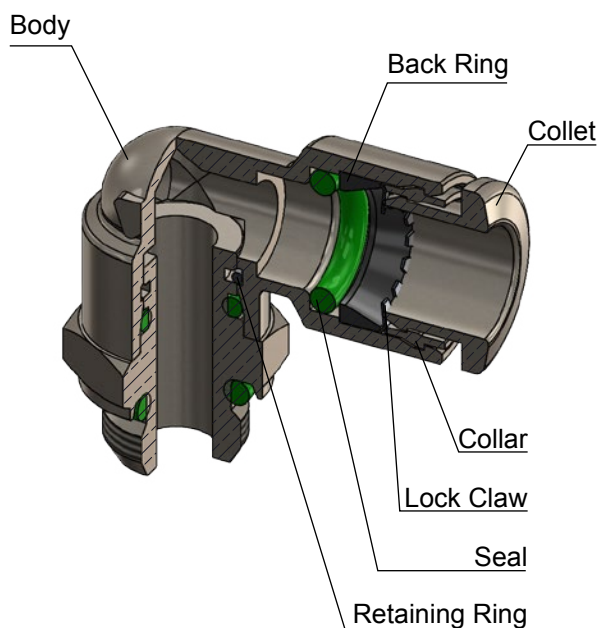


NSF/ANSI 169



SILICON FREE

CONSTRUCTION DETAILS

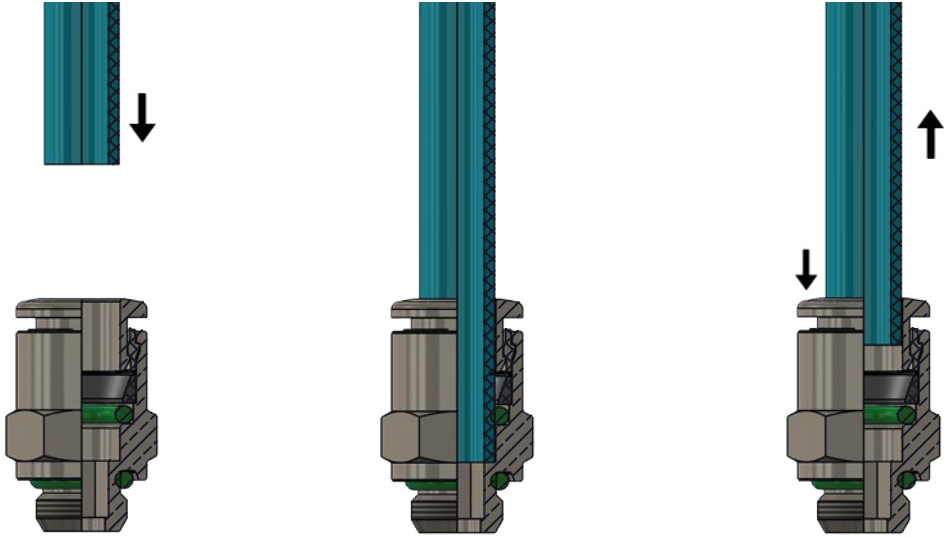


INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand and pull the tube away from the fitting with the other hand.
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



TUBE TOLERANCES

Ø TUBE (mm)	4	6	8	12
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,15

TUBE INSERTION DEPTH

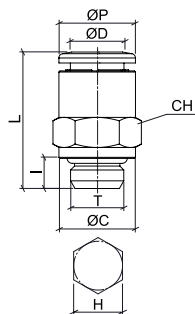
Ø TUBE (mm)	4	6	8	12
TUBE INSERTION LENGTH (mm)	14	15,5	17,5	21

TIGHTENING TORQUE

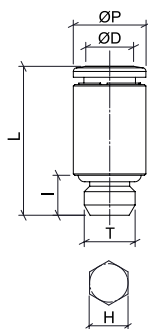
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M7x1	1/8"	1/4"	3/8"
Nm	0,8	0,8	1,2	1,5	2,5

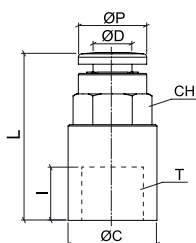


HFRC-G**Male connector BSPP & metric thread**

CODE	ØD	T	ØP	ØC	I	L	CH	H
HFRC04M5	4	M5x0,8	10	7	4	19	9	2,5
HFRC04M7		M7x1	10	10	5,5	19	10	2,5
HFRC04G01		G 1/8"	10	14	5,5	18	10	3
HFRC06M5	6	M5x0,8	12	7	4	21	11	2,5
HFRC06M7		M7x1	12	10	4,5	22,5	11	4
HFRC06G01		G 1/8"	12	14	5,5	19,5	12	4
HFRC06G02	8	G 1/4"	12	16	6,5	19,5	12	4
HFRC08G01		G 1/8"	14	14	5,5	24,5	14	5
HFRC08G02		G 1/4"	14	16	6,5	21,5	14	6
HFRC12G03	12	G 3/8"	19	22	7,5	29,5	19	10

HFROC**Male connector round body BSPP & metric thread**

CODE	ØD	T	ØP	I	L	H
HFROC04M5	4	M5x0,8	10	4	19	2,5
HFROC04M7		M7x1	10	6	20,5	2,5
HFROC06M5	6	M5x0,8	12	4	21	2,5
HFROC06M7C		M7x1	12	5,5	20,5	4

HFRCF-G**Female connector BSPP thread**

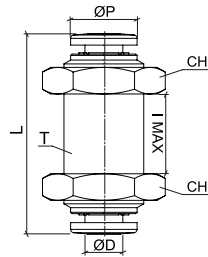
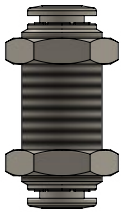
CODE	ØD	T	ØP	I	L	CH
HFRCF04G01	4	G 1/8"	10	7,5	24,5	13
HFRCF04G02		G 1/4"	10	11	27	10
HFRCF06G01	6	G 1/8"	12	7,5	26	12
HFRCF06G02		G 1/4"	12	11	29	12
HFRCF08G01	8	G 1/8"	14	7,5	27	14
HFRCF08G02		G 1/4"	14	11	30	14



HFRMM



Bulkhead connector

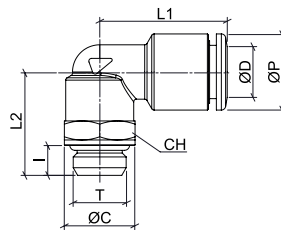
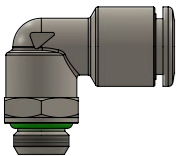


CODE	ØD	T	ØP	L	I MAX	CH
HFRMM04	4	M12x1	10	34	15	16
HFRMM06	6	M14x1	12	32	12	17
HFRMM08	8	M16x1	14	36,5	16	19

HFRL-G



Swivel male elbow BSPP & metric

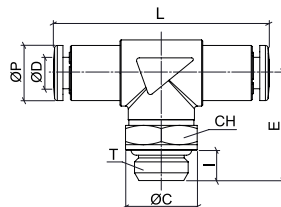
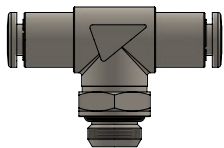


CODE	ØD	T	ØP	ØC	I	L1	L2	CH
HFRLO4M5	4	M5x0,8	10	7	4	18	15	8
HFRLO4G01		G 1/8"	10	13	5,5	19,5	19	13
HFRLO6M5	6	M5x0,8	12	7	4	19,5	16	8
HFRLO6G01		G 1/8"	12	13	5,5	21	19	13
HFRLO6G02	8	G 1/4"	12	16	6,5	21	21,5	13
HFRLO8G01		G 1/8"	14	13	5,5	23	19	13
HFRLO8G02		G 1/4"	14	16	6,5	23	21,5	13

HFRT-G



Swivel male tee BSPP & metric thread



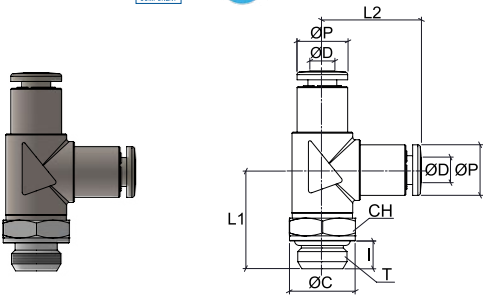
CODE	ØD	T	ØP	I	E	L	CH
HFRT04G01	4	G 1/8"	10	5,5	19,5	39	13
HFRT06G01	6	G 1/8"	12	5,5	19,5	42	13
HFRT06G02		G 1/4"	12	6,5	22	42	13
HFRT08G01	8	G 1/8"	14	5,5	19,5	46,5	13
HFRT08G02		G 1/4"	14	6,5	22	46,5	13



HFRST-G



Male connector BSPP & metric thread

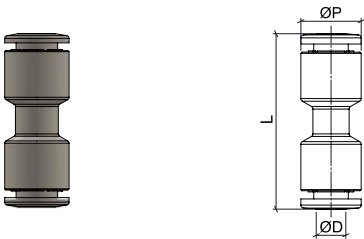


CODE	ØD	T	ØP	ØC	I	L1	L2	CH
HFRST04G01	4	G 1/8"	10	13	5,5	19,5	19,5	13

HFRUC



Union connector metric tube

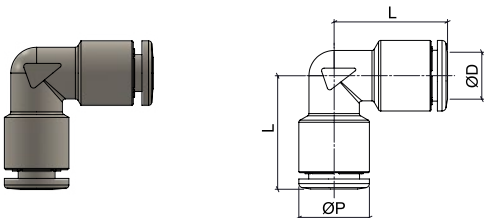


CODE	ØD	ØP	L
HFRUC04	4	10	29
HFRUC06	6	12	32
HFRUC08	8	14	35,5

HFRUL



Union elbow metric tube

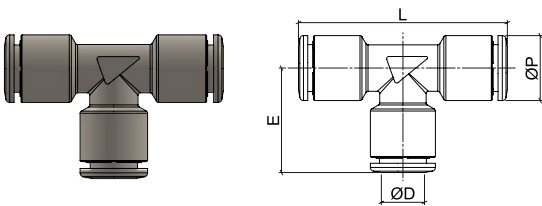


CODE	ØD	ØP	L
HFRUL04	4	10	18
HFRUL06	6	12	19,5
HFRUL08	8	14	22,5

HFRUT



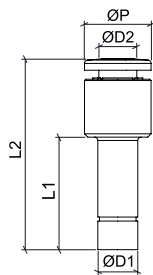
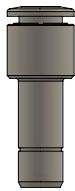
Union tee metric tube



CODE	ØD	ØP	E	L
HFRUT04	4	10	18	36
HFRUT06	6	12	19,5	39
HFRUT08	8	14	22,5	45



HFRGJ



Stem reduction metric tube

CODE	$\varnothing D1$	$\varnothing D2$	$\varnothing P$	L1	L2
HFRGJ0604	6	4	10	17	28,5
HFRGJ0806	8	6	12	19,5	34,5
HFRGJ1004	10	4	10	13	37



NOTES



A series of horizontal lines for taking notes, spanning the width of the page below the 'NOTES' header.







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