# PUSH-IN FITTINGS FOOD GRADE HFR SERIES









#### TEA<sup>+</sup> SURFACE TREATMENT ABLE TO GUARANTEES A HIGH RESISTANCE TO CORROSION AND CHEMICALS

**RELIABILITY** and **HIGH MECHANICAL EFFICIENCY** are key features for high performances

**COMPLETE RANGE** for a wide array of applications

Suitable for FOOD & BEVERAGE AND COFFEE MACHINES

PRODUCTS CAN BE TAILOR-MADE TO SPECIFIC CUSTOMER NEEDS

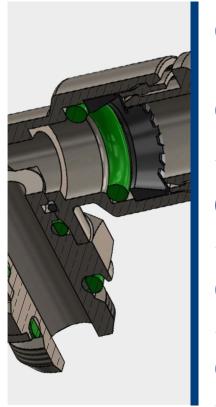
MADE IN ITALY

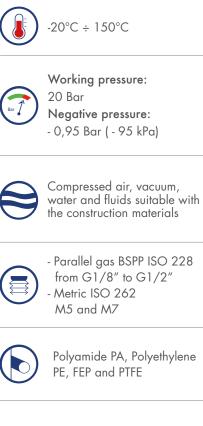














HIGHLY CORROSION RESISTANT in strong acidic or alkaline enviroments:

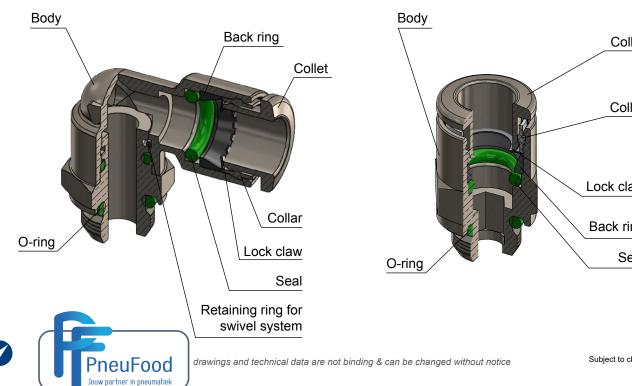
- thicknesses of 2 - 4 µm withstand

- ASS 96h and CASS 48h salt spray tests

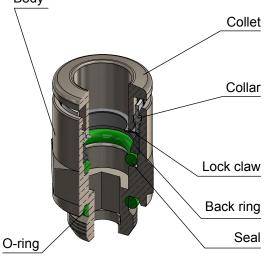
EN 16058 rig test (26 weeks)

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.

#### **CONSTRUCTION DETAILS**





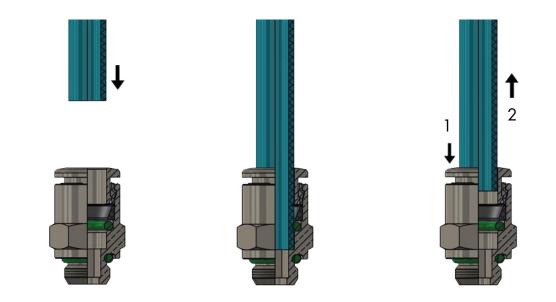


#### **INSERTION OF THE TUBE INTO THE FITTING**

- 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 (1) and pull the tube away from the fitting with the other hand (2).
- 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.



#### **TOLERANCES - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	±0,15	± 0,15

#### **INSERTION DEPTH - METRIC TUBE**

					<u> </u>
Ø TUBE (mm)	4	6	8	10	12
TUBE INSERTION LENGHT (mm)	14	15,5	17,5	19	21

#### **TIGHTENING TORQUE**

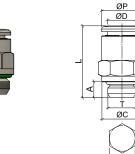
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M7x1	1/8″	1/4″	3/8″	1/2"
Nm	] ± 20%	3 ± 20%	6 ± 20%	7,5 ± 20%	9 ± 20%	<b>9</b> ± 20%



# **HFRC-G**

#### Male connector BSPP & metric thread



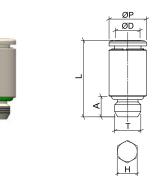
СН

CODE	ØD	Т	ØP	ØC	А	L	СН	Н
HFRC04M5		M5x0,8	10	7	4	19,0	9	2,5
HFRC04G01	4	G 1/8″	10	14	5,5	18,0	10	3
HFRC04G02		G 1/4″	10	16	6,5	18,0	10	3
HFRC06M5		M5x0,8	12	7	4	21,0	11	2,5
HFRC06G01	6	G 1/8″	12	14	5,5	19,5	12	4
HFRC06G02		G 1/4″	12	16	6,5	19,5	12	4
HFRC08G01		G 1/8″	14	14	5,5	24,5	14	5
HFRC08G02	8	G 1/4″	14	16	6,5	21,5	14	6
HFRC08G03		G 3/8″	14	20	7,5	21,5	14	6
HFRC10G02	10	G 1/4″	16	16	6,5	27,5	16	7
HFRC10G03	10	G 3/8″	16	20	7,5	25,0	16	8
HFRC12G02	12	G 1/4″	19	16	6,5	30,0	19	7
HFRC12G03		G 3/8″	19	22	7,5	29,5	19	10
HFRC12G04		G 1/2″	19	25	9	28,0	19	10

Male connector round body metric thread

-	CODE	ØD	Т	ØP	А	L	Н
	HFROC04M7	4	M7x1	10	6	20,5	2,5
*	HFROC06M7C	6	M7x1	10	5,5	20,5	4

#### ★ compact version

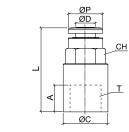


## Female connector BSPP thread

CODE	ØD	Т	ØP	ØC	А	L	СН
HFRCF04G01	4	G 1/8″	10	13	7,5	24,5	13
HFRCF04G02	4	G 1/4″	10	16	11	27,0	10
HFRCF06G01	4	G 1/8″	12	13	7,5	26,0	12
HFRCF06G02	6	G 1/4″	12	16	11	29,0	12
HFRCF08G01	8	G 1/8″	14	13	7,5	27,0	14
HFRCF08G02		G 1/4″	14	16	11	30,0	14



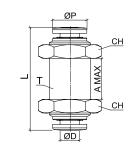
**HFROC** 





#### Bulkhead connector

CODE	ØD	Т	ØP	L	A MAX	СН
HFRMM04	4	M12x1	10	34,0	15	16
HFRMM06	6	M14x1	12	32,0	12	17
HFRMM08	8	M16x1	14	36,5	16	19
HFRMM10	10	M20x1	16	43,0	19	24
HFRMM12	12	M22x1,5	19	44,0	20	25

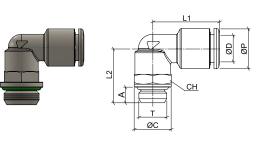




**HFRMM** 

**HFRL-G** 

#### Swivel male elbow BSPP & metric

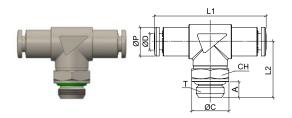


CODE	ØD	Т	ØP	ØC	A	L1	L2	СН
HFRLO4M5		M5x0,8	10	7	4	18,0	15,0	8
HFRL04G01	4	G 1/8″	10	13	5,5	19,5	19,0	13
HFRL04G02		G 1/4″	10	16	6,5	19,5	21,5	13
HFRL06M5		M5x0,8	12	7	4	19,5	16,0	8
HFRL06G01	6	G 1/8″	12	13	5,5	21,0	19,0	13
HFRL06G02		G 1/4″	12	16	6,5	21,0	21,5	13
HFRL08G01		G 1/8″	14	13	5,5	23,0	19,0	13
HFRL08G02	8	G 1/4″	14	16	6,5	23,0	21,5	13
HFRL08G03		G 3/8″	14	20	7,5	23,0	23,0	13
HFRL10G02	10	G 1/4″	16	16	6,5	26,0	23,0	16
HFRL10G03	10	G 3/8″	16	20	7,5	26,0	26,0	16
HFRL12G02		G 1/4″	19	16	6,5	31,0	25,5	20
HFRL12G03	12	G 3/8″	19	20	7,5	31,0	26,5	20
HFRL12G04		G 1/2″	19	25	9	31,0	29,0	20

#### Swivel male tee BSPP thread

CODE	ØD	Т	ØP	А	L1	L2	СН
HFRT04G01	4	G 1/8″	10	5,5	39,0	19,5	13
HFRT06G01	4	G 1/8″	12	5,5	42,0	19,5	13
HFRT06G02	6	G 1/4″	12	6,5	42,0	22,0	13
HFRT08G01	0	G 1/8″	14	5,5	46,5	19,5	13
HFRT08G02	- 8	G 1/4″	14	6,5	46,5	22,0	13

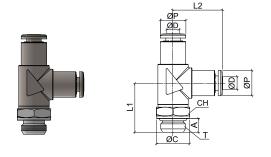






#### **HFRST-G**

#### Swivel male lateral tee BSPP thread



СС	DDE	ØD	Т	ØP	ØC	А	L1	L2	СН
HFRST	04G01	4	G 1/8″	10	13	5,5	19,5	19,5	13

# **HFRA-G**

# Stem adapter BSPP thread

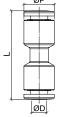


ØD	
T ØC	

CODE	ØD	т	ØC	А	L	DN	СН
HFRA04G01	4	G 1/8″	13	5,5	28,0	2,0	13
HFRA06G01	6	G 1/8″	13	5,5	29,0	4,0	13
HFRA06G02	6	G 1/4″	16	6,5	30,5	4,0	13
HFRA08G01	8	G 1/8″	13	5,5	30,0	6,0	13
HFRA08G02	0	G 1/4″	16	6,5	32,0	6,0	13
HFRA10G01	10	G 1/8″	13	5,5	35,0	6,0	13
HFRA10G02		G 1/4″	16	6,5	36,5	8,0	13
HFRA12G02	12	G 1/4″	16	6,5	37,5	8,0	13

### **HFRUC**





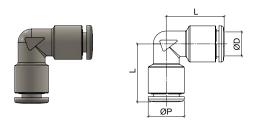
CODE	ØD	ØP	L
HFRUC04	4	10	29,0
HFRUC06	6	12	32,0
HFRUC08	8	14	35,5
HFRUC10	10	16	39,5
HFRUC12	12	19	44,0



Union connector

#### **HFRUL**

Union elbow

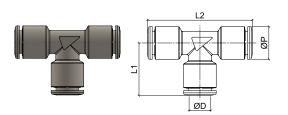


CODE	ØD	ØP	L
HFRUL04	4	10	18,0
HFRUL06	6	12	19,5
HFRUL08	8	14	22,5
HFRUL10	10	16	25,5
HFRUL12	12	19	29,0

# HFRUT

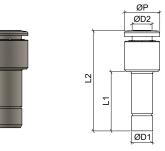
Union tee

Stem reduction



CODE	ØD	ØP	L1	L2
HFRUT04	4	10	18,0	36,0
HFRUT06	6	12	19,5	39,0
HFRUT08	8	14	22,5	45,0
HFRUT10	10	16	25,5	51,0
HFRUT12	12	19	29,0	58,0

# HFRGJ



CODE	ØD1	ØD2	ØP	L1	L2
HFRGJ0604	6	4	10	17,0	28,5
HFRGJ0806	8	6	12	19,5	34,5
HFRGJ1008	10	8	14	24,0	37,5
HFRGJ1210	12	10	16	25,0	40,0

