

SERIES F-NSF PLUS FITTINGS

The fittings in the F-NSF Plus series encompass all the advantages of Metal Work push-in fittings in one NSF-certified product.

As is known, a Metal Work push-in fitting can be reused thousands of times without affecting the perfect pneumatic and mechanical tightness.

The refined profile of the clamping spring retains the pipe without cutting or deforming it.

The fittings in this series also feature a double internal O-ring seal for enhanced safe tightness, especially when using water or other fluids.

The materials and lubricants used in these fittings are suitable for use in the food industry and for operation in contact with cold and hot drinking water.

The fittings in the F-NSF Plus series are made of brass with a low lead content ($\leq 0.1\%$) that is subject to a further process that extracts the lead from the surface layer of the product; the gaskets are made of special FDA-approved Viton®.

Engineering plastics are ideal for use at a high temperature and in contact with water.

The fitting can be used up to 150°C depending on the choice of materials, which makes it ideal for use in applications at high temperatures.

The threads are cylindrical and under-head O-rings provide a pneumatic seal. This avoids the need for sealants (e.g. Teflon®), which could release solid fragments during screwing and unscrewing that would contaminate the environment or the fluid. Our fittings can be screwed and unscrewed any number of times and still remain clean and pneumatically sealed.

In addition to the standard range available, many other configurations can be created on specific request.

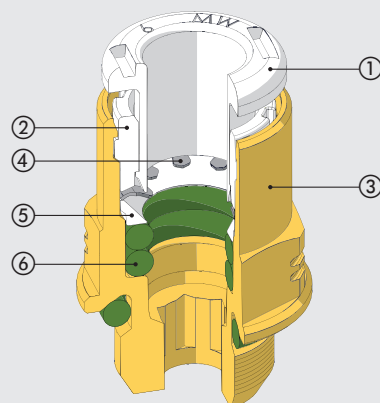


TECHNICAL DATA		
Threaded port		G (BSP)*: 1/8 - 1/4
Diameter		Ø 4 - Ø 6
Temperature range	°C	- 20 to + 150
	°F	- 4 to 302
Pressure range	bar	- 0.99 to +16
	MPa	- 0.099 to +1.6
Recommended pipe		PTFE
Fluid		Vacuum - Compressed air

* Cylindrical threads according to ISO 228-1, identified with a letter G. They also correspond to BSP or more precisely to BSPP designation (P stands for Parallel).

COMPONENTS

- ① Release bushing: PPSU
- ② Locking bushing: PPSU
- ③ Body: low-lead brass ($\leq 0.1\%$)
- ④ Clamping spring: stainless steel
- ⑤ Spring supporting ring: PPSU
- ⑥ Seal: FDA-approved Viton®



ADVANTAGES / CERTIFICATIONS

ADVANTAGES

Under-head O-ring

Can be screwed and unscrewed any number of times; no fragments of Teflon® or sealant will contaminate the fluid.

CONFORMITY DECLARATIONS

- NSF/ANSI 372 standard: drinking water system components - Lead Content.
- DM 174
- Regulation 1935/04 EU.*
- Regulation 2023/06 EU.



* Release tests performed at 50°C for 30 minutes.

CERTIFIED

- NSF/ANSI 169 standard: products in contact with food.

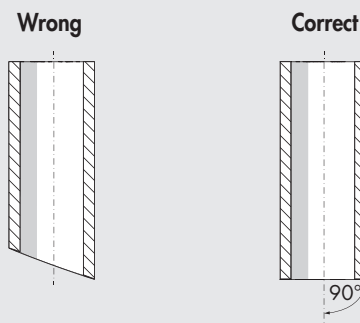


INSTALLING THE PIPE

Compressed air pipes must be used in compliance with some basic criteria in order to ensure long life and proper operation of the fitting:

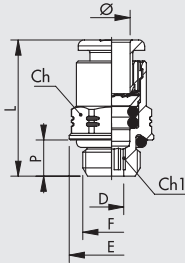
- check that the conditions for the installation and use (e.g. temperature and fluid used) comply with the characteristics stated by the pipe manufacturer;
- check the pipe size; oversized pipes could not fit properly, undersized ones could not ensure pipe retention and air tightness.

The cut should be as accurate as possible at a right angle with the pipe axis.



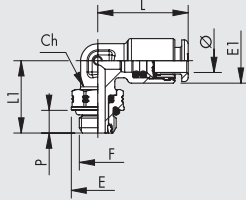
- the bending radius of the pipe installed must be as wide as possible. The fittings have been designed to ensure axial seal of the pipe; excessive curvature could considerably shorten the life of the pipe.
- the pipe must not be subjected to excessive axial stress and it must be of the right length for snugly fitting (not too long or too short).
- correct insertion of the pipe into the fitting is essential for air tightness and pipe retention. Make sure that the pipe is pushed right into the seat.
- check that the pipe does not encounter any obstacles or blockages along its way, which could cause tensile stress of the pipe in the fitting.

STRAIGHT, CYLINDRICAL, MALE R1 F-NSF PLUS



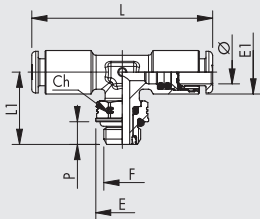
Code	Ref.	Ø	F	Ch	Ch1	P	L	D	E
2FP0152	R1 F-NSF P	4	1/8	10	3	6	20	3.1	14
2FP0153	R1 F-NSF P	4	1/4	10	3	8	21.8	3.1	18
2FP0157	R1 F-NSF P	6	1/8	12	4	6	23.6	4.1	14
2FP0158	R1 F-NSF P	6	1/4	12	4	8	22.6	4.1	18

ROTARY ELBOW, MALE, CYLINDRICAL R31 F-NSF PLUS



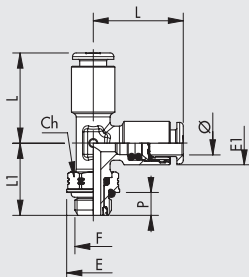
Code	Ref.	Ø	F	Ch	E	E1	L	L1	P
2FP3152	R31 F-NSF P	4	1/8	12	14	9.5	20.6	19.1	6
2FP3153	R31 F-NSF P	4	1/4	14	18	9.5	20.6	21.1	8
2FP3158	R31 F-NSF P	6	1/8	12	14	11.8	23.9	19.1	6
2FP3159	R31 F-NSF P	6	1/4	14	18	11.8	23.9	21.1	8

CENTRAL TEE, MALE, CYLINDRICAL, ROTARY R32 F-NSF PLUS



Code	Ref.	Ø	F	Ch	E	E1	L	L1	P
2FP3252	R32 F-NSF P	4	1/8	12	14	9.5	41.2	19.1	6
2FP3253	R32 F-NSF P	4	1/4	14	18	9.5	41.2	21.1	8
2FP3260	R32 F-NSF P	6	1/8	12	14	11.5	47.8	19.1	6
2FP3261	R32 F-NSF P	6	1/4	14	18	11.5	47.8	21.1	8

LATERAL TEE, MALE, CYLINDRICAL, ROTARY R38 F-NSF PLUS



Code	Ref.	Ø	F	Ch	E	E1	L	L1	P
2FP3852	R38 F-NSF P	4	1/8	12	14	9.5	20.6	19.1	6
2FP3853	R38 F-NSF P	4	1/4	14	18	9.5	20.6	21.1	8
2FP3858	R38 F-NSF P	6	1/8	12	14	11.5	23.9	19.1	6
2FP3859	R38 F-NSF P	6	1/4	14	18	11.5	23.9	21.1	8