Description

The FitSys 18 Push-Fit fitting system is used with a variety of liquid and gaseous media. It can also be used for food, hot water, steam and

The FitSys 18 Push Fit fitting is of modular design and allows the combination of

different connector types (male thread, tube clamp, nozzle, push-fit) in straight, L-, T- or

aggressive media

Y-connectors).



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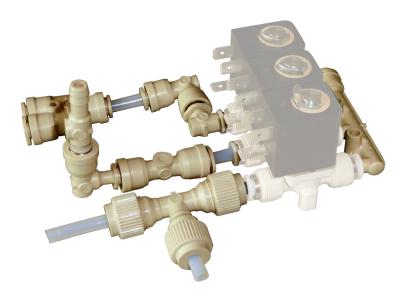
Solenoid valves Control valves Special valves and systems

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# Series FitSys 18



- Variable media management
- Distribution systems in vending machines

# **Applications**

- Connecting valves of the series 18.00x
- Espresso machines
- Medical equipment
- Industrial applications

# **Materials**

Fitting body / connection type	PPSU
O-ring	EPDM FKM on request
Spring	stainless steel

PPSU valve bodies must not come in contact with:

acetone, ethers, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, acids and oxidizing anaerobic adhesives.

### **Characteristics**

- Easy to assemble
- Compact design, for space optimisation
- Can easily be disassembled
- Hose guide prevents misalignment of tubing
- Tactile feedback when inserting the hose
- Minimal axial clearance on dynamic pressure loads
- No damage to the hose
- Connection types for most fittings in a wide variety of combinations
- Base body of fitting can be moulded with reduced orifice
- High temperature resistance (Saturated steam 143° C at 3 bar (290° F at 43.5 psi))

### Technical Data

Туре	Fitting syste	Fitting system			
Construction	Push-Fit with	hout tools			
Media	Neutral gases, cold and heated potable water and physically and chemically similar media				
T-Medium Saturated steam	98 °C max. 143 (3bar) °C max.				
T-Ambient	60 °C max.				
DN	4 (0.158 2 (0.079	mm inch) mm for type B) inch for type B) )			
p-Operating	0 - 16 (0 - 232	bar psi)			

Please be aware of the maximum allowable pressure of the used tube / hose.



# Possible connection types of the fitting system

Туре			Hose / tube material	Hose dimensions O.D. Ø x wall thickness	•
А	16.5	Hose stem connection ID tube Ø 6 mm (0.236 inch)	Flexible plastic tubes Silicone	8 x 1 (0.315 x 0.04 inch)	•
В	17	Push-Fit stem Ø 4 mm (0.158 inch) (Counterpart of type g))		-	
С	17	Push-Fit stem Ø 6 mm (0.236 inch) (Counterpart of type f))		-	•
D	0.5 14	Thread connection G 1/8		-	•
Е	24.5	Clamp connection	Flexible plastic tubes PFA, PTFE	6 x 1 (0.236 x 0.04 inch)	•
		Ø 6 mm (0.236 inch)	Metal tubes	6 x 1 (0.236 x 0.04 inch)	•
F	13.7	Push-Fit Ø 6 mm (0.236 inch) (Counterpart of type c))	Flexible plastic tubes PFA, PTFE	6 x 1 (0.236 x 0.04 inch) 6 x 0,75 (0.236 x 0.03 inch) 6 x 0,5 (0.236 x 0.02 inch)	s
G	3.7	Push-Fit Ø 4 mm (0.158 inch) (Counterpart of type b))	Metal tubes	4 x 1 (0.158 x 0.04 inch) 4 x 0,5 (0.158 x 0.02 inch)	s

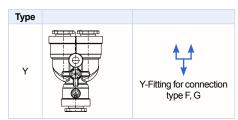
All drawings in mm units

# With possible base bodies

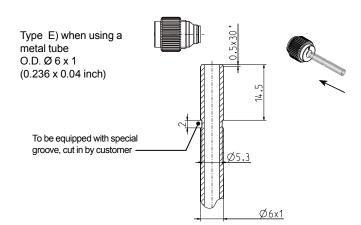
Туре		
		Straight through Ø 4 mm ( 0.158 inch)
Gx	1002-000 1002-000	Straight through with reduced orifice Ø 0,5 - 4 mm (Ø 0.02 - 0.158 inch) possible
		L-Fitting body Ø 4 mm ( 0.158 inch)
Lx	Ø1.5-Ø4	L-Fitting body with reduced orifice possible Ø 1,5 - 4 mm (Ø 0.06 - 0.158 inch)
Т	04 12 50	T-Fitting body Ø 4 mm ( 0.158 inch)

All drawings in mm units

# **Y-Distributor**



All drawings in mm units

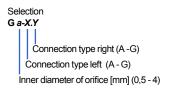




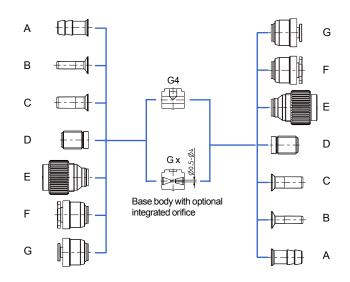
# **Straight through** connector

All connection types are feasible, see table for all currently available versions.

An internal orifice in the range  $\varnothing$  0.5 - 4 mm is also possible as an option.



# **Combination matrix**



Type	Dimensions	Image	ID
G4-G.C	15 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		009440
G4-F.C	15 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		009435
G4-F.F	\$1 3 3 39 39		009431
G4-B.A	46 15 10 4 4 4 4		009422
G0,8-B.A	46 15 10 4 4		009423



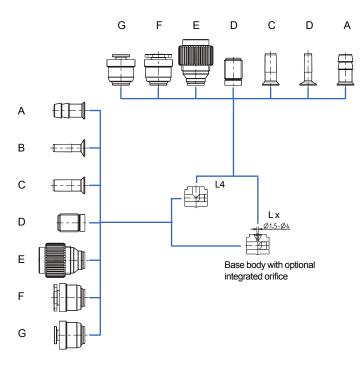
# L-connector

All connection types are feasible, see table for all currently available versions.

An internal orifice in the range  $\emptyset$  1.5 - 4 mm is also possible as an option.



# **Combination matrix**



Туре	Dimensions	Image	ID
L4-F.C			009434
L4-F.F	Ø 15 F (Ø 6)		009429
L4-G.G	Q 15 m		009475
L4-C.C	29 29		009392
L4-E.E	EØ50 Ø518		009430
L4-G.C			009506



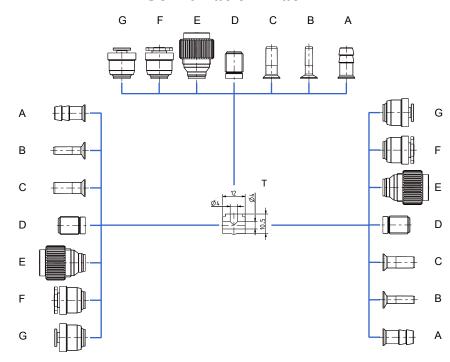
# **T-connector**

All connection types are feasible, see table for all currently available versions.

Selection
T-X.Y.Z

Connection type right (A -G)
Connection type top (A -G)
Connection type left (A - G)

# **Combination matrix**



Туре	Dimensions	Image	ID
T-G.G.G	15 G Ø 4) 77 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		009439
T-F.F.F	Ø15 F.Ø50		009432
T-E.E.E	Ø18 E Ø5)		009433
T-C.C.C	46 C (Ø 6)		009396
T-G.C.G	C (Ø6)		009507
T-C.F.C	Ø 15 F Ø 9 P P P P P P P P P P P P P P P P P P		009514
T-F.C.F	(C)(Ø5)		009523



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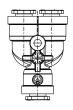
# Series FitSys 18

# **Y**-connector

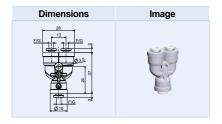
The connection types F 6 mm and G 4 mm can be manufactured arbitrarily combined. (Counterparts: Connection types B and C)

Selection Y-X.Y.Z

> Connection type below (ØDx: F oder G) Connection type top left (ØDx: F oder G) Connetion type top right (ØDx: F oder G)







Туре	Configuration	ID
Y-G.G.G	4mm	009437
Y-F.F.F	6mm	009436
Y-F.G.G	6mm Jumm	009474

**S-Plug**For connection types F (4 mm) and G (6 mm)

Selection S-X

Connection type B or C

Туре	Dimensions	Image	ID	
S-C	29		009462	Plug for connection F
S-B	29 15 10 00 10 00 10	-13	009463	Plug for connection G



# Manifold components for Push-fit connection 6 mm Ø

# **M**-connector

