

Short form catalogue

Fittings Series 9000 C-Truck



CAMOZZI

Certificate TÜV

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE

No. B 09 04 67334 002

Holder of Certificate: **Camozzi S.P.A.**
Via Eritrea 20/L
25126 Brescia
ITALY

Production Facility(ies): 67336

Certification Mark:

Product: **Air Brake Push- in Fittings**

Model(s): **C-Truck 9000**

Parameters: Disconnectalble Air Brake Fittings for Trucks
Connectalble to Air Brake Hoses with
Diameter 6; 8; 10;12; 15; 16; 18mm

Tested according to: DIN 74324:1996
DIN EN ISO 9227:2006
DIN EN 60068-2-6:1996

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.: 76236021/1

Date, 2009-04-07
Page 1 of 1

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TÜV SÜD Product Service GmbH · Zertifizierstelle · Ridlerstrasse 65 · 80339 München · Germany

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New

Fittings Series 9000 C-Truck for polyamide tubes

Tube external Ø 4, 6, 8, 10, 12, 15, 16 and 18 mm



The Series C-Truck fittings have been designed for use in the pneumatic braking systems on vehicles ensuring reliability and easy assembling.
Thanks to a proper key, it is possible to disconnect the tube without the need to remove the fitting.
The fittings have a protective cap to keep humidity and dirt away from the collet.
The insert gives the tube dimensional stability, even when there are extreme changes in temperature.

Fittings that need to be positioned to a precise angle are supplied with a locking nut and a sealing O-ring which is situated into a special groove in the thread to make sure there is no damage during assembly. The body is made in brass to give a high level of corrosive resistance while the material used for the sealing rings and the protective cover is a special rubber resistant to oils and petrol.

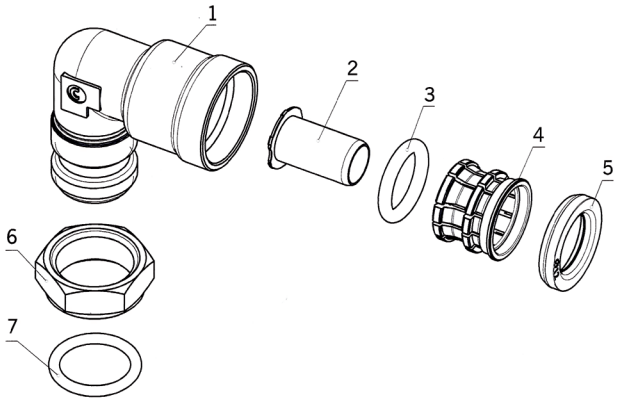
The fittings are suitable for use with temperatures between -50 and +100 °C. The working pressure is according to the thermoplastic tubes used, with Max value of 16 bar. Fittings are pre-assembled and are therefore ready for assembly. Fittings and tubes are in compliance with standards DIN 74324:1996, DIN EN ISO 9227:2006, DIN EN 60068-2-6:1996 and GOST R 51190-98.

General data

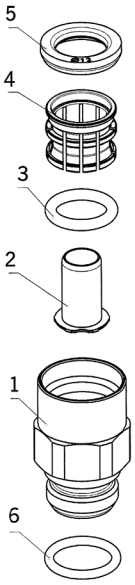
Materials	body and collet: brass; locking nut: brass / zinc-plated steel; insert: brass / technopolymer seals and protective cap: NBR
Thread	Metric
Working pressure	0 ÷ 16 bar
Maximum pressure	According to the polyamide tube specifications
Tube	Polyamide (D/d) 4/2, 6/4, 8/6, 10/8, 12/9, 15/12, 16/13 and 18/14
Fluid	Compressed air
Temperature	-50 ÷ +100 °C (see the tubes' specifications)

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Fittings view



No.	Parts name	No.	Parts name
1	Body	5	Protective cap
2	Insert	6	Locking nut
3	S-rapid O-Ring	7	Thread O-Ring
4	Collet		



No.	Parts name	No.	Parts name
1	Body	5	Protective cap
2	Insert	6	Thread O-Ring
3	S-rapid O-Ring		
4	Collet		

General characteristics of the tube

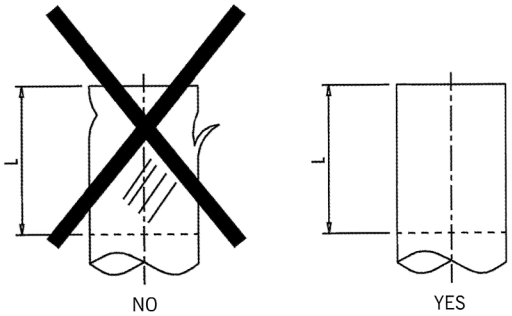
The Series C-Truck fittings can be used in all pneumatic braking systems using polyamide tube.
The table below shows the tube diameters that can be used according to the working pressure.

Tube Outer/Inner diameter	Maximum pressure at 23°C (bar)
4/2	46
6/4	28
8/6	20
10/8	16
12/9	20
15/12	16
16/13	13
18/14	17



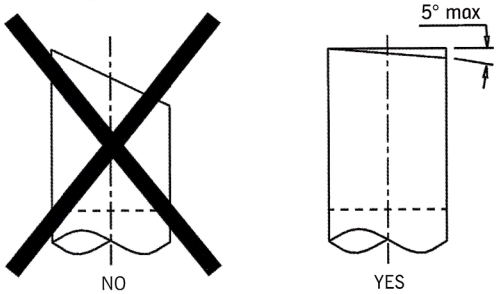
Surface and geometric characteristics of the tube

To guarantee the tubes seal with the fitting it is necessary to do the following. The tube that goes inside the fitting along the whole insert length L (see the table below) should not be damaged, have any cuts, scratches or burrs.



Tube Diameter	Insert length L, mm
4/2	9,5
6/4	9,5
8/6	9,5
10/8	11
12/9	11
15/12	11,5
16/13	13
18/14	13

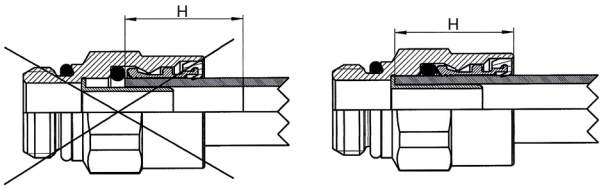
The angle between the tube and the fitting should not be greater than 5° in order to guarantee a proper seal.
For a correct tube end cutting, it is recommended that you use the tube cutting tool model PNZ.



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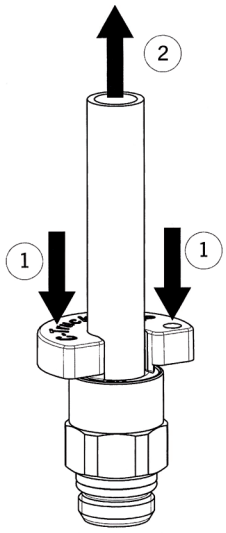
Tube assembly and disassembly

The tube assembly and disassembly must be done by an expert technician who knows exactly how the fittings have been made.
The tube needs to be inserted in the fitting up to the insert stop for the whole length H (see the table below).
It is recommended that you mark the tube to indicate that it has been fully inserted into the fitting.



Tube Outer/Inner diameter	Assembly length H, mm
4/2	18,5
6/4	18
8/6	19,5
10/8	22
12/9	21
15/12	25
16/13	27,5
18/14	27,5

To disconnect the tube it is necessary to push the fitting protection cap with the use of a special tool.
First make sure no air is present inside, then press the protection cap in towards the fitting body, remove the tube from the fitting.



Fitting assembly in the system

To guarantee the thread seal in the system, make sure that the thread chamfer conforms to the standard ISO 965 and GOST 10549-80.

The fittings which have an O-Ring seal on the thread, but no locking nut, have to be screwed into the system with the torque forces as shown in the table below.

Thread	Torque force (Nm)
M10X1	11-15
M12X1,5	15-19
M14X1,5	19-23
M16X1,5	24-30
M18X1,5	27-33
M22X1,5	36-44

For the assembly of fittings with locking nut, it is necessary to do the following:
- loosen the locking nut;
- screw the fitting into the system until the O-ring comes into contact with the system surface;
- position the fitting according to the suitable angle, moving the body up to 360°;
- keep the body still;
- screw the locking nut with torque forces as shown in the table sideways.

FITTINGS CODING

9502 | 12 - M16X1,5

9502 » MODEL
9512 = Super-rapid NON releasable version - straight fitting
9510 = Super-rapid NON releasable version - straight fitting
9463 = Super-rapid NON releasable version - fitting with female thread
9502 = Super-rapid NON releasable version - angle fitting
9500 = Super-rapid NON releasable version - angle fitting
9412 = Super-rapid NON releasable version - 3 ports horizontal fitting
9410 = Super-rapid NON releasable version - 3 ports horizontal fitting
9422 = Super-rapid NON releasable version - 3 ports vertical fitting
9420 = Super-rapid NON releasable version - 3 ports vertical fitting
9580 = Super-rapid NON releasable version - connector
9590 = Super-rapid NON releasable version - bulkhead connector
9592 = Super-rapid NON releasable version - bulkhead connector
9540 = Super-rapid NON releasable version - 3 ports fitting
D2512/D2502 = Accessory - bulkhead connector
D2602 = Accessory - hose adapter
D2612 = Accessory - tap
D2022 = Accessory - angle fitting
D2062 = Accessory - 3 ports horizontal fitting
D2072 = Accessory - 3 ports vertical fitting
D2003 = Accessory - 3 ports fitting
VPC = Test point valve
VDC = Drain valve
TRN = Tube
DRK = Tube disconnecting key
PNZ = Tube cutter tool

12 » TUBE DIAMETER (mm)
4 10 16
6 12 18
8 15

M16x1,5 » THREAD
M10x1 M14x1,5 M18x1,5 1/8 NPTF
M12x1,5 M16x1,5 M22x1,5

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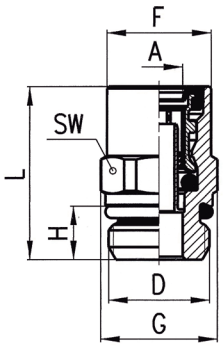
Fittings mod. 9512



DIMENSIONS

Mod.	A	D	F	G	H	L	SW
D6512 4-M10x1 (*)	4/2	M10x1	11,7	13,2	7	24,5	12
9512 6-M10x1	6/4	M10x1	13,8	15	7	27,5	14
9512 6-M12x1,5	6/4	M12x1,5	13,8	15	8,5	26	14
9512 6-M14x1,5	6/4	M14x1,5	13,8	15	8,5	25	14
9512 6-M16x1,5	6/4	M16x1,5	13,8	17	8,5	19,5	14
9512 8-M10x1	8/6	M10x1	16,5	18,5	7	30	17
9512 8-M12x1,5	8/6	M12x1,5	16,5	18,5	8,5	30,5	17
9512 8-M14x1,5	8/6	M14x1,5	16,5	18,5	8,5	27,5	17
9512 8-M16x1,5	8/6	M16x1,5	16,5	18,5	8,5	27	17
9512 8-M22x1,5	8/6	M22x1,5	16,5	26,5	8,5	21	24
9512 10-M12x1,5	10/8	M12x1,5	18,5	20,5	8,5	35	19
9512 10-M16x1,5	10/8	M16x1,5	18,5	20,5	8,5	29,5	19
9512 10-M18x1,5	10/8	M18x1,5	18,5	20,5	8,5	28,5	19
9512 10-M22x1,5	10/8	M22x1,5	18,5	23,5	8,5	24	19
9512 12-M12x1,5	12/9	M12x1,5	19,8	21,5	8,5	33,5	20
9512 12-M14x1,5	12/9	M14x1,5	19,8	21,5	8,5	33	20
9512 12-M16x1,5	12/9	M16x1,5	19,8	21,5	8,5	32	20
9512 12-M22x1,5	12/9	M22x1,5	21	26,5	8,5	23	24
9512 15-M16x1,5	15/12	M16x1,5	23,8	26,5	8,5	37,5	24
9512 15-M22x1,5	15/12	M22x1,5	23,8	26,5	8,5	30,5	24
9512 16-M22x1,5	16/13	M22x1,5	25	30	8,5	33,5	27
9512 18-M22x1,5	18/14	M22x1,5	26,8	30	8,5	38,5	27

(*) supplied without insert.



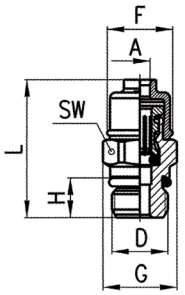
Fittings mod. D6512



DIMENSIONS

Mod.	A	D	F	G	H	L	SW	
D6512 4-M10x1	4/2	M10x1	11,7	13,2	7	24,5	12	*

* = supplied without insert

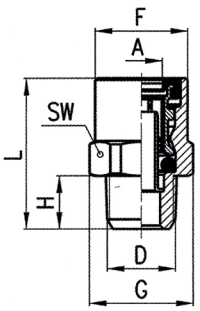


Fittings mod. 9510



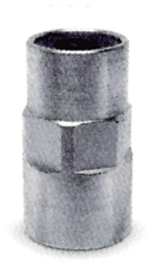
DIMENSIONS

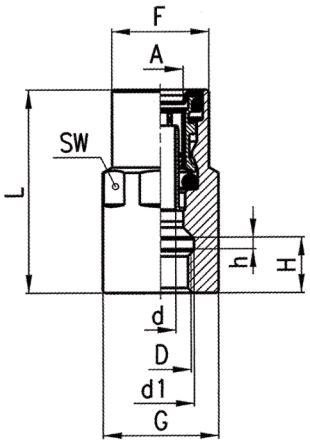
Mod.	A	D	F	G	H	L	SW
9510 6-02	6/4	1/8 NPTF	13,8	15	8	24,5	14
9510 05-02	8/6	1/8 NPTF	16,5	18,5	8	30	17



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Fittings mod. 9463



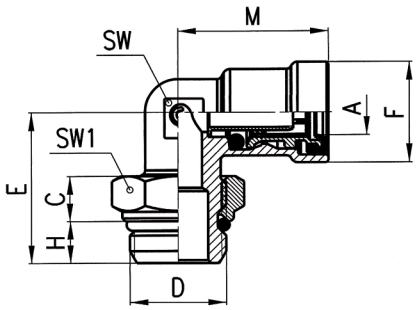


DIMENSIONS

Mod.	A	D	d	d1	H	h	L	F	G	SW
9463 6-M10x1	6/4	M10x1	3	11	9	2	31,5	13,8	15	14
9463 6-M16x1,5	6/4	M16x1,5	3	-	10,5	-	34	15,3	21	19
9463 8-M10x1	8/6	M10x1	5	11	9	2	33	16,5	18,5	17

Fittings mod. 9502





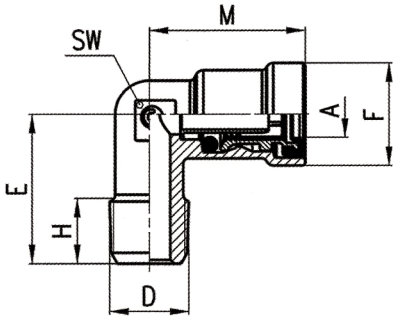
DIMENSIONS

Mod.	A	C	D	E	F	H	M	SW	SW1
9502 6-M10x1	6/4	5	M10x1	21	14,5	5	22,5	9	14
9502 6-M12x1,5	6/4	7	M12x1,5	23,5	14,5	7,5	22,5	9	17
9502 6-M16x1,5	6/4	7,5	M16x1,5	25	14,5	7	23	11	19
9502 8-M10x1	8/6	5	M10x1	22	16,5	5	25	11	14
9502 8-M12x1,5	8/6	7	M12x1,5	25	16,5	7,5	25	11	17
9502 8-M14x1,5	8/6	7	M14x1,5	25	16,5	7,5	25	11	19
9502 8-M16x1,5	8/6	7,5	M16x1,5	25	16,5	7	25	11	19
9502 8-M22x1,5	8/6	8,5	M22x1,5	30	16,5	8	26,5	15	27
9502 10-M12x1,5	10/8	7	M12x1,5	27	18,5	7,5	29,5	15	17
9502 10-M16x1,5	10/8	7,5	M16x1,5	27	18,5	7	29,5	15	19
9502 10-M22x1,5	10/8	8,5	M22x1,5	30	18,5	8	29,5	15	27
9502 12-M12x1,5	12/9	7	M12x1,5	27	21	7,5	29	15	17
9502 12-M16x1,5	12/9	7,5	M16x1,5	27	21	7	29	15	19
9502 12-M22x1,5	12/9	8,5	M22x1,5	30	21	8	29	15	27
9502 15-M16x1,5	15/12	7,5	M16x1,5	30,5	24,5	7	34	18	19
9502 15-M22x1,5	15/12	8,5	M22x1,5	34	24,5	8	34	18	27
9502 16-M22x1,5	16/13	8,5	M22x1,5	33	25	8	35,5	21	27
9502 18-M22x1,5	18/14	8,5	M22x1,5	33	27,5	8	35,5	21	27

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Fittings mod. 9500



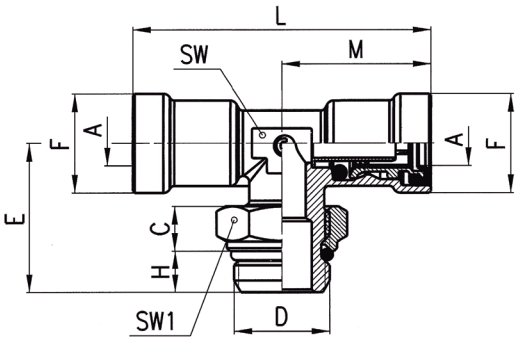


DIMENSIONS

Mod.	A	D	E	F	H	M	SW
9500 6-02	6/4	1/8 NPTF	17,5	14,5	8,5	22,5	9
9500 05-02	8/6	1/8 NPTF	17,5	16,5	8,5	25	11

Fittings mod. 9412



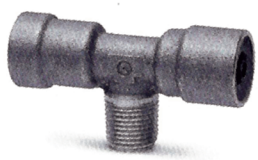


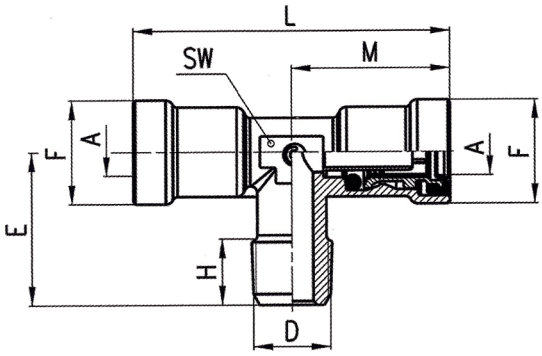
DIMENSIONS

Mod.	A	C	D	E	F	H	L	M	SW	SW1
9412 6-M10x1	6/4	5	M10x1	22	14,5	5	45	22,5	9	14
9412 6-M12x1,5	6/4	7	M12x1,5	27	14,5	7,5	46	23	11	17
9412 6-M16x1,5	6/4	7,5	M16x1,5	27	14,5	7	46	23	11	19
9412 8-M12x1,5	8/6	7	M12x1,5	27	16,5	7,5	50	25	11	17
9412 8-M16x1,5	8/6	7,5	M16x1,5	27	16,5	7	50	25	11	19
9412 8-M22x1,5	8/6	8,5	M22x1,5	32	16,5	8	53	26,5	15	27
9412 10-M16x1,5	10/8	7,5	M16x1,5	29	18,5	7	59	29,5	15	19
9412 10-M22x1,5	10/8	8,5	M22x1,5	32	18,5	8	59	29,5	15	27
9412 12-M12x1,5	12/9	7	M12x1,5	29	21	7,5	58	29	15	17
9412 12-M16x1,5	12/9	7,5	M16x1,5	29	21	7	58	29	15	19
9412 12-M22x1,5	12/9	8,5	M22x1,5	32	21	8	58	29	15	27
9412 15-M16x1,5	15/12	7,5	M16x1,5	32,5	24,5	7	68	34	18	19
9412 15-M22x1,5	15/12	8,5	M22x1,5	34	24,5	8	68	34	18	27

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Fittings mod. 9410



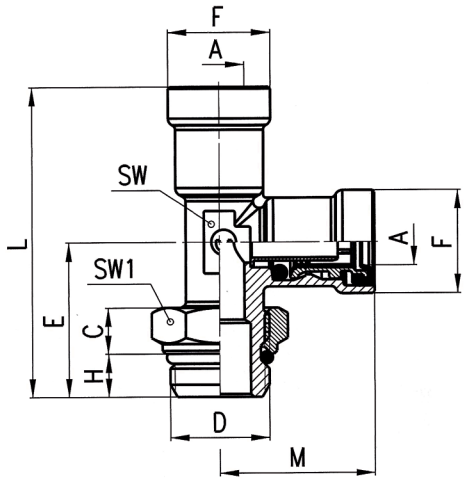


DIMENSIONS

Mod.	A	D	E	F	H	L	M	SW
9410 6-02	6/4	1/8 NPTF	17,5	14,5	8,5	45	22,5	9
9410 05-02	8/6	1/8 NPTF	18	16,5	8,5	50	25	11

Fittings mod. 9422





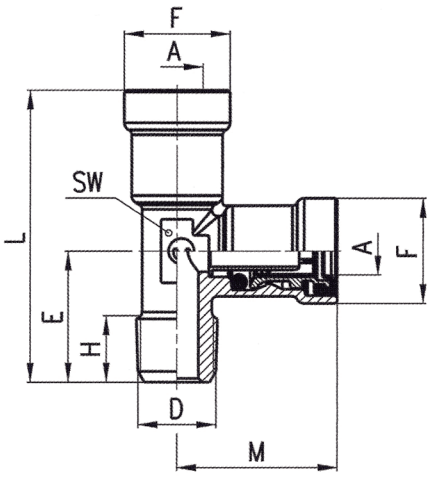
DIMENSIONS

Mod.	A	C	D	E	F	H	L	M	SW	SW1
9422 6-M10x1	6/4	5	M10x1	22	14,5	5	44,5	22,5	9	14
9422 6-M12x1,5	6/4	7	M12x1,5	27	14,5	7,5	50	23	11	17
9422 6-M16x1,5	6/4	7,5	M16x1,5	27	14,5	7	50	23	11	19
9422 8-M12x1,5	8/6	7	M12x1,5	27	16,5	7,5	52	25	11	17
9422 8-M16x1,5	8/6	7,5	M16x1,5	27	16,5	7	52	25	11	19
9422 8-M22x1,5	8/6	8,5	M22x1,5	32	16,5	8	58,5	26,5	15	27
9422 10-M16x1,5	10/8	7,5	M16x1,5	29	18,5	7	58,5	29,5	15	19
9422 10-M22x1,5	10/8	8,5	M22x1,5	32	18,5	8	61,5	29,5	15	27
9422 12-M12x1,5	12/9	7	M12x1,5	29	21	7,5	58	29	15	17
9422 12-M16x1,5	12/9	7,5	M16x1,5	29	21	7	58	29	15	19
9422 12-M22x1,5	12/9	8,5	M22x1,5	32	21	8	61	29	15	27
9422 15-M16x1,5	15/12	7,5	M16x1,5	32,5	24,5	7	66,5	34	18	19
9422 15-M22x1,5	15/12	8,5	M22x1,5	34	24,5	8	68	34	18	27

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Fittings mod. 9420



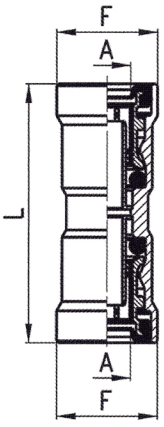


DIMENSIONS

Mod.	A	D	E	F	H	L	M	SW
9420 6-02	6/4	1/8 NPTF	17,5	14,5	8,5	40	22,5	9
9420 05-02	8/6	1/8 NPTF	18	16,5	8,5	43	25	11

Fittings mod. 9580





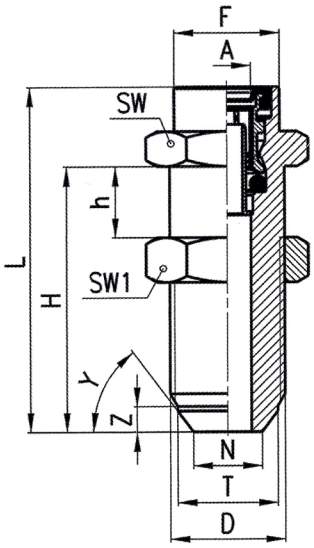
DIMENSIONS

Mod.	A	F	L
9580 6	6/4	14	37,5
9580 8	8/6	16	41
9580 10	10/8	18	46,5
9580 12	12/9	20	44,5

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Fittings mod. 9590



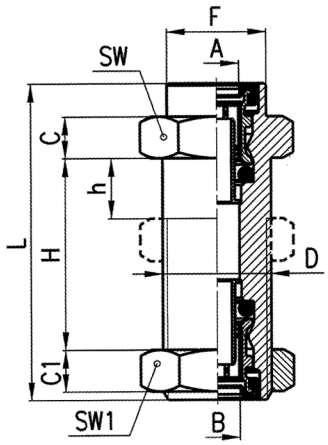


DIMENSIONS

Mod.	A	D	F	H	h	L	N	T	Y	Z	SW	SW1
9590 8-M18x1,5	8/6	M18x1,5	-	50	10	55,5	10,8	15,7	53	4	22	22
9590 12-M18x1,5	12/9	M18x1,5	20,5	34	4	52,5	11	16	60	5	22	22

Fittings mod. 9592





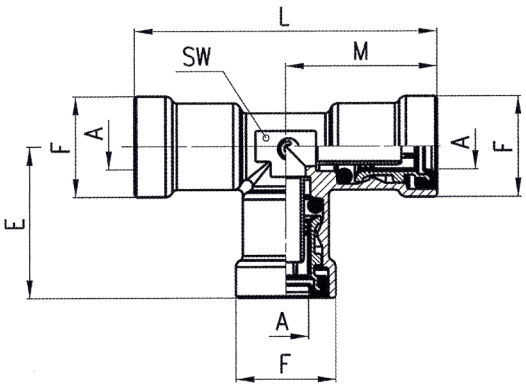
DIMENSIONS

Mod.	A	B	C	C1	D	F	H	h	L	SW	SW1
9592 8-8-M18X1	8/6	8/6	5,5	7	M18x1	-	30	18	43,5	22	22
9592 12-8-M18X1	12/9	8/6	7,5	7	M18x1	20,5	30	18	56,5	22	22

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Fittings mod. 9540



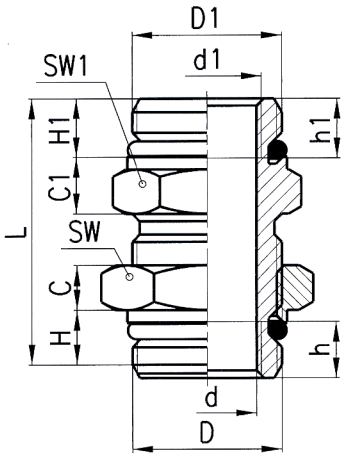


DIMENSIONS

Mod.	A	E	F	L	M	SW
9540 6	6/4	22,5	14,5	45	22,5	9
9540 8	8/6	25	16,5	50	25	11
9540 10	10/8	29,5	18,5	59	29,5	15
9540 12	12/9	29	21	58	29	15

Fittings mod. D2512 and D2502





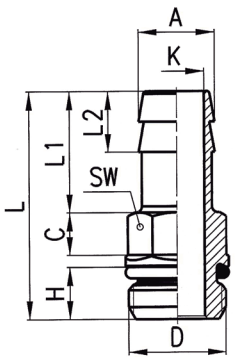
DIMENSIONS

Mod.	D	D1	d	d1	H	H1	h	h1	C	C1	L	SW	SW1
D2512 M22x1,5-M16x1,5	M22x1,5	M16x1,5	M16x1,5	M10x1	8	8,5	10,5	10,5	8,5	8	48	27	22
D2502 M22x1,5-M22x1,5	M22x1,5	M22x1,5	-	-	8	8,5	-	-	8,5	8,5	39	27	24

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Fittings mod. D2602



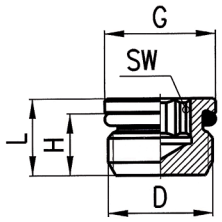


DIMENSIONS

Mod.	A	D	H	C	L	L1	L2	K	SW
D2602 12-M16x1,5	12,5	M16x1,5	8,5	5	36	20	10	9	14
D2602 12-M22x1,5	12,5	M22x1,5	8,5	5	36,5	20	10	9	19

Fittings mod. D2612



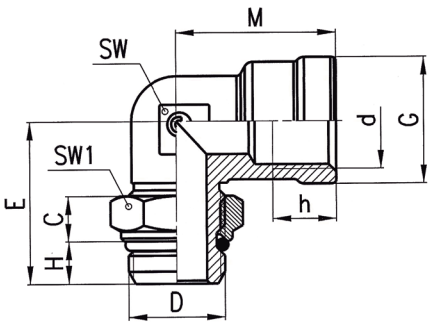


DIMENSIONS

Mod.	D	H	L	G	SW
D2612 M12x1,5	M12x1,5	8,5	10,5	12,9	6
D2612 M16x1,5	M16x1,5	8,5	11	17	8
D2612 M22x1,5	M22x1,5	8,5	11,5	23,5	12

Fittings mod. D2022



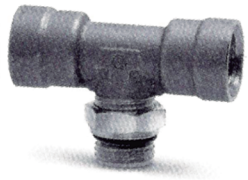


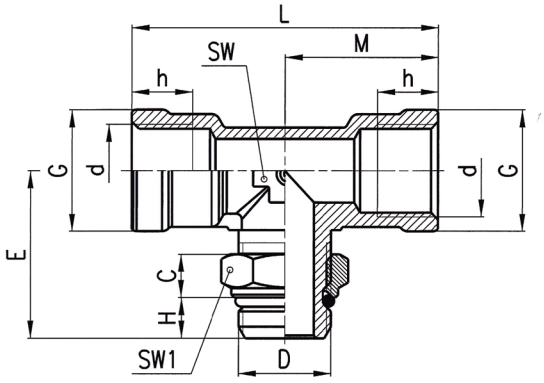
DIMENSIONS

Mod.	D	d	C	E	G	H	h	M	SW	SW1
D2022 M16x1,5-M16x1,5	M16x1,5	M16x1,5	7,5	27	21	7	10,5	26,5	15	19
D2022 M16x1,5-M22x1,5	M22x1,5	M16x1,5	8,5	30	21	8	10,5	26,5	15	27
D2022 M22x1,5-M22x1,5	M22x1,5	M22x1,5	8,5	32,5	27,5	8	11	32,5	21	27

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Fittings mod. D2062



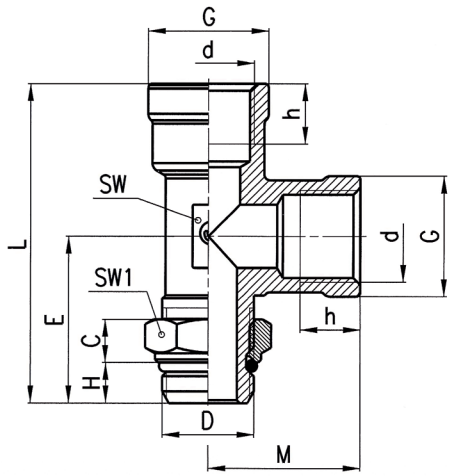


DIMENSIONS

Mod.	d	D	C	E	G	H	h	L	M	SW	SW1
D2062 M16x1,5-M12x1,5	M16x1,5	M12x1,5	7	29	21	7,5	10,5	53	26,5	15	17
D2062 M16x1,5-M16x1,5	M16x1,5	M16x1,5	7,5	29	21	7	10,5	53	26,5	15	19
D2062 M16x1,5-M22x1,5	M16x1,5	M22x1,5	8,5	32	21	8	10,5	53	26,5	15	27
D2062 M22x1,5-M22x1,5	M22x1,5	M22x1,5	8,5	33	27	8	11	64	32	20	27

Fittings mod. D2072



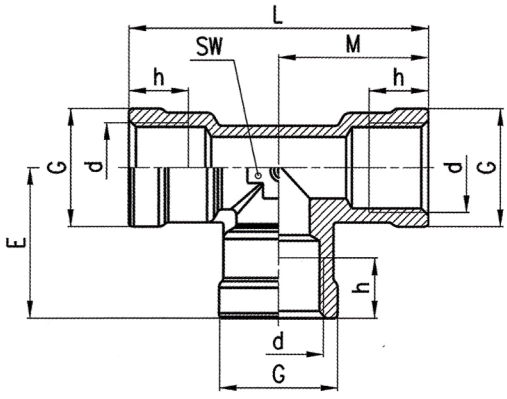


DIMENSIONS

Mod.	d	D	C	E	G	H	h	L	M	SW	SW1
D2072 M16x1,5-M12x1,5	M16x1,5	M12x1,5	7	29	21	7,5	10,5	55,5	26,5	15	17
D2072 M16x1,5-M16x1,5	M16x1,5	M16x1,5	7,5	29	21	7	10,5	55,5	26,5	15	19
D2072 M16x1,5-M22x1,5	M16x1,5	M22x1,5	8,5	32	21	8	10,5	58,5	26,5	15	27
D2072 M22x1,5-M22x1,5	M22x1,5	M22x1,5	8,5	33	27	8	11	65	32	20	27

Fittings mod. D2003





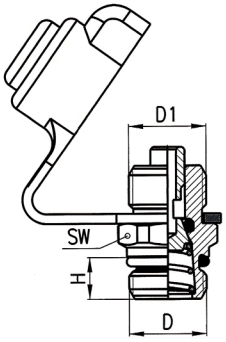
DIMENSIONS

Mod.	d	E	G	h	M	L	SW
D2003 M16x1,5	M16x1,5	26,5	21	10,5	26,5	53	15
D2003 M22x1,5	M22x1,5	32	27	11	32	64	20

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Fittings mod. VPC



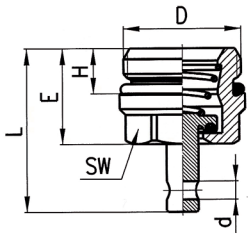


DIMENSIONS

Mod.	D	D1	H	SW
VPC M16x1,5-M16x1,5	M16x1,5	M16x1,5	8,5	19
VPC M22x1,5-M16x1,5	M22x1,5	M16x1,5	8,5	24

Fittings mod. VDC





DIMENSIONS

Mod.	D	d	H	E	L	SW
VDC M22x1,5	M22x1,5	3,4	8,5	18	31	19

Tubes mod. TRN



According to standards:
- DIN 74324
- REACH REGULATION (EC N°1907/2006)
- EUROPEAN DIRECTIVE RoHS n° 2002/95/EC

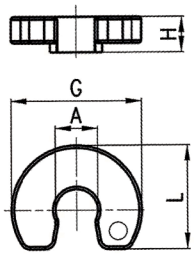
Polyamide BLACK tube (PA 12)

DIMENSIONS

Mod.	D/d	MAX pressure at 23°C (bar)	Weight (g/mt)	Min. curve radius (mm)	Operating temperature (°C)	Size (mt)
TRN 4/2 NX	4/2	46	9,8	15	da -55°C a +100°C	50
TRN 6/4 NX	6/4	28	16,3	30	da -55°C a +100°C	50
TRN 8/6 NX	8/6	20	22,9	40	da -55°C a +100°C	50
TRN 10/8 NX	10/8	16	29,4	60	da -55°C a +60°C	50
TRN 12/9 NX	12/9	20	51,4	60	da -55°C a +100°C	50
TRN 15/12 NX	15/12	16	66,1	90	da -55°C a +60°C	50
TRN 16/13 NX	16/13	13	71	120	da -55°C a +100°C	50
TRN 18/14 NX	18/14	17	104,5	100	da -55°C a +60°C	50

Tube disconnecting key Mod. DRK





DIMENSIONS

Mod.	A	G	H	L
DRK 6	6	25	6	19
DRK 8	8	28,5	7	20
DRK 10	10	30,5	9	22
DRK 12	12	33	9	23
DRK 15	15	36	10	27
DRK 16	16	37	10	27,5
DRK 18	18	40	12	31

Tube cutter tool Mod. PNZ



DIMENSIONS

Mod.
PNZ-12
PNZ-25

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