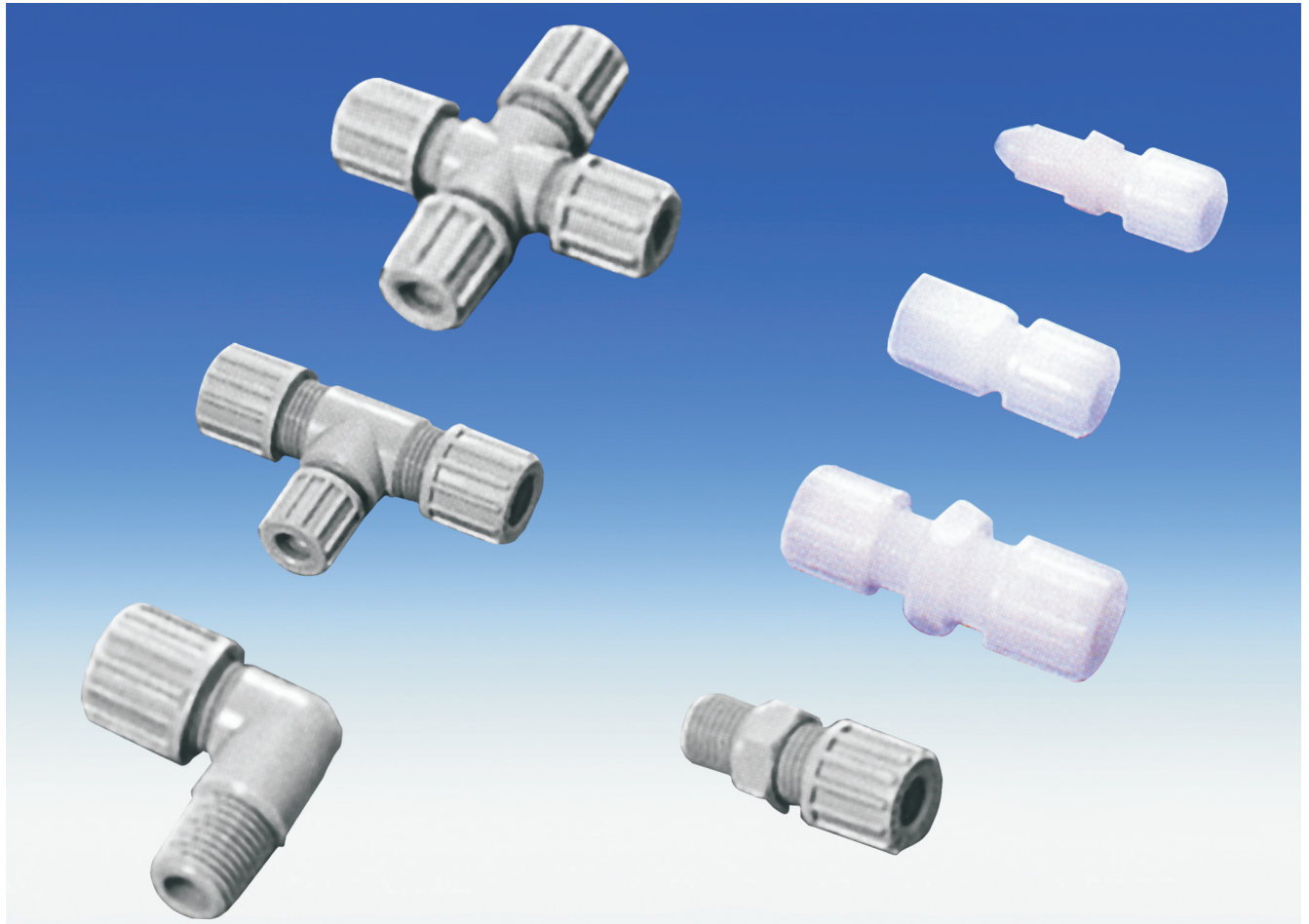


Hose Fittings Connectors



In properly designed and constructed sample conditioning systems, the internal tubing must conform to the same high standards required for components such as sample pumps, filters, etc. The connections must seal properly and reliably and the fittings must integrate easily with the components.

Bühler fittings are available in a variety of materials and are designed using reliable fastening principles.

On PP and PVDF fittings, the hose slides over a center pin that provides reinforcement and keeps the tubing in proper geometric form. A tapered ring secures the tubing when the cap is tightened.

PFA fittings use two tapered rings that keep the hose tight after the cap is tightened.

Construction Materials

•Polypropylene (PP)

Uses: Water, solvent, lyes

•Polyvinylidene Fluoride (PVDF)

Uses: Acids, clean water, VE - water, lacquers, colors

•Polyfluoroalkoxy (PFA)

Uses: Acids, lyes, sample gases, corrosive gases

Technical Data

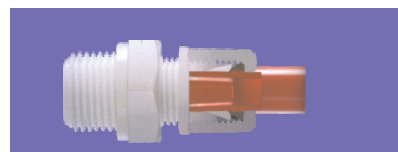
Material	PP / PVDF / PFA
Pressure max..	10 bar
Media Temp. max.	PP = +10°C to +80 °C PVDF = -20°C to + 130 °C PFA = -20°C to + 200 °C

Construction :

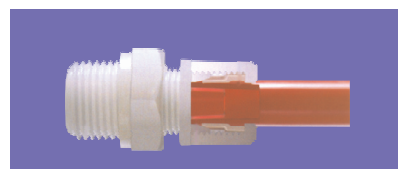
DN 4/6 with thread M10 x 1	for hose 4/6
DN 6/8 with thread M12 x 1,5	for hose 6/8
DN 8/12 with thread M18 x 1,5	for hose 8/12

Note: All male fittings with cylindrical threads are self-sealing no washers or O - rings are required.

PP / PVDF



PFA



Application in explosive atmosphere (additional indications):

The equipment is not within the scope of Directive 94/9/EC. However the equipment corresponds to the essential requirements of the Directive. Therefore they can be used in potentially explosive atmosphere (zone1, group IIC).



Electrostatic Charge

- Clean plastic parts and labels with damp cloth only.
- Gas must be free from particles and droplets.



Gas Leaks

- Protect the equipment against impact.
- Life- and explosion risk may result from gas leakage due to improper use.
- During maintenance or inspection, release the process pressure or switch off the process. Use face protection and gloves. The process gas may be harmful or explosive.
- Vent all gases outside of the working- and traffic area.

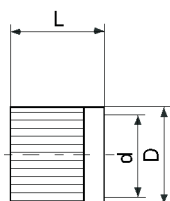


Surface Temperature

Note the ignition temperature of the explosive gas-atmosphere as well as maximum allowable surface temperatures (see Directive 94/9/EC and harmonised standards).

Caps No. 0

For all hose fittings

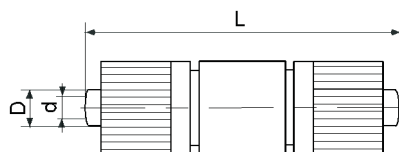


Dimensions (lengths in mm)

d	D	L	DN	PP	PVDF	PFA
M 10 x 1	14	14	4/6	4346001	4346053	4346002
M 12 x 1.5	21	17	6/8	4368001	4368049	4368002
M 18 x 1.5	23	21	8/12	4381001	4381044	4381002

Male Connector No. 4

For DIN - hoses

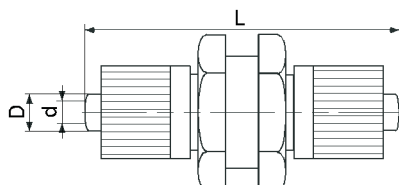


Dimensions (lengths in mm)

d	D	L	DN	PP	PVDF	PFA
4	6	42	4/6	4346027	4346066	4346028
6	8	55	6/8	4368027	4368062	4368028
8	12	62	8/12	4381020	4381054	4381021

Bulkhead Union No. 6

For DIN - hoses

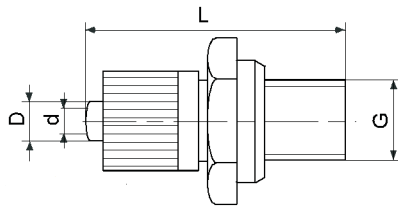


Dimensions (lengths in mm)

d	D	L	SW	DN	PP	PVDF	PFA
4	6	42	14	4/6	4346029	4346067	4346030
6	8	55	17	6/8	4368029	4368063	4368030
8	12	62	24	8/12	4381022	4381055	4381023

Male Connection No. 7

for DIN - hoses and G-thread.



Dimensions

(G in inches. All others in mm)

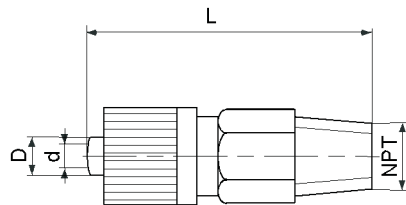
d	D	G	L	SW	DN
4	6	1/8	34	14	4/6
4	6	1/4	36	17	4/6
4	6	3/8	38	22	4/6
4	6	1/2	40	24	4/6
6	8	1/8	39	14	6/8
6	8	1/4	41	17	6/8
6	8	3/8	41	22	6/8
6	8	1/2	43	24	6/8
8	12	1/4	43	17	8/12
8	12	3/8	43	22	8/12
8	12	1/2	45	24	8/12

Part No.

PP	PVDF	PFA
4346004	4346054	4346008
4346005	4346055	4346009
4346006	4346056	4346010
4346007	4346057	4346011
4368004	4368050	4368008
4368005	4368051	4368009
4368006	4368052	4368010
4368007	4368053	4368011
4381005	4381045	4381008
4381006	4381046	4381009
4381007	4381047	4381010

Male Connection No. 9

for DIN - hoses and NPT-thread.



Dimensions

(NPT in inches. All others in mm)

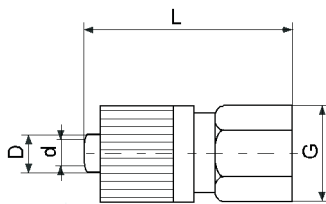
d	D	NPT	L	SW	DN
4	6	1/8	34	14	4/6
4	6	1/4	36	17	4/6
4	6	3/8	38	22	4/6
4	6	1/2	40	24	4/6
6	8	1/8	39	14	6/8
6	8	1/4	41	17	6/8
6	8	3/8	41	22	6/8
6	8	1/2	43	24	6/8
8	12	1/4	43	17	8/12
8	12	3/8	43	22	8/12
8	12	1/2	45	24	8/12

Part No.

PP	PVDF	PFA
4346012	4346058	4346016
4346013	4346059	4346017
4346014	4346060	4346018
4346015	4346061	4346019
4368012	4368054	4368016
4368013	4368055	4368017
4368014	4368056	4368018
4368015	4368057	4368019
4381011	4381048	4381014
4381012	4381049	4381015
4381013	4381050	4381016

Female Connection No. 10

for DIN - hoses and G-thread



Dimensions

(G in inches. All others in mm)

d	D	G	L	SW	DN
4	6	1/8	34	14	4/6
4	6	1/4	36	17	4/6
4	6	3/8	38	22	4/6
4	6	1/2	40	24	4/6
6	8	1/8	39	14	6/8
6	8	1/4	41	17	6/8
6	8	3/8	41	22	6/8
6	8	1/2	43	24	6/8
8	12	1/4	43	17	8/12
8	12	3/8	43	22	8/12
8	12	1/2	45	24	8/12

Part No.

PP	PVDF	PFA
4346020	4346062	4346024
4346021	4346063	4346025
4346022	4346064	4346026
4346023	4346065	
4368020	4368058	4368024
4368021	4368059	4368025
4368022	4368060	4368026
4368023	4368061	
4381017	4381051	4381041
4381018	4381052	4381042
4381019	4381053	4381043

Elbow Male no. 21

for DIN - hoses and G-thread.

Dimensions

(G in inches. All others in mm)

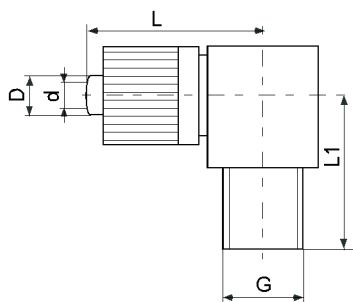
d D G L L1 D/N

Part No.

PP

PVDF

PFA



4	6	1/8	34	22	4/6	4346031	4346068	4346034
4	6	1/4	36	24,5	4/6	4346032	4346069	4346035
4	6	3/8	38	25	4/6	4346033	4346070	4346036
4	6	1/2	40	30	4/6		4346071	
6	8	1/8	39	23	6/8		4368064	
6	8	1/4	41	29	6/8	4368031	4368065	4368034
6	8	3/8	41	29	6/8	4368032	4368066	4368035
6	8	1/2	43	31	6/8	4368033	4368067	4368036
8	12	1/4	43	30	8/12	4381024	4381056	4381027
8	12	3/8	43	30	8/12	4381025	4381057	4381028

Elbow Male No. 21

for DIN - hoses and NPT-thread.

Dimensions

(NPT in inches. All others in mm)

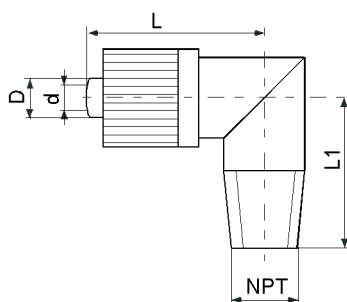
d D NPT L L1 D/N

Part No.

PP

PVDF

PFA



4	6	1/8	34	22	4/6	4346037	4346072	4346041
4	6	1/4	36	24,5	4/6	4346038	4346073	4346042
4	6	3/8	38	25	4/6	4346039	4346074	4346043
4	6	1/2	40	30	4/6	4346040	4346075	4346044
6	8	1/8	39	23	6/8		4368068	
6	8	1/4	41	29	6/8	4368037	4368069	4368040
6	8	3/8	41	29	6/8	4368038	4368070	4368041
6	8	1/2	43	31	6/8	4368039	4368071	4368042
8	12	1/4	43	30	8/12	4381030	4381059	4381033
8	12	3/8	43	30	8/12	4381031	4381060	4381034

Union T No. 40

for DIN - hoses

Dimensions (lengths in mm)

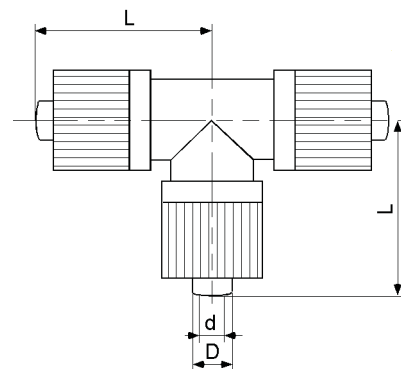
d D L DN

Part No.

PP

PVDF

PFA



4	6	26	4/6	4346045	4346076	4346046
6	8	30	6/8	4368043	4368072	4368044
8	12	35	8/12	4381036	4381062	4381037

Cross Union No. 70

for DIN - hoses

Dimensions (lengths in mm)

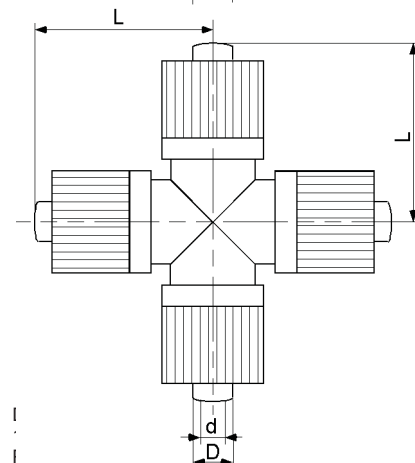
d D L DN

Part No.

PP

PVDF

PFA



4	6	26	4/6	4346047	4346077	4346048
6	8	30	6/8	4368045	4368073	4368046
8	12	35	8/12	4381038	4381063	4381039