
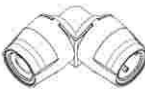




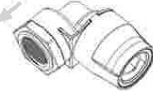




RESISTANCE COEFFICIENTS

There are different criteria to calculate resistance coefficients. Only its results shall be listed below. Besides when the liquid flow through a pipe, it also loses energy when it changes direction. The liquid must then overcome extra resistance. The table below gives an overview of the resistance coefficients of the different fittings and the corresponding number of metres of piping.

RESISTANCE COEFFICIENTS										
K values and equivalent pipe lengths to HTP_{push}										
Pipe bend	K values					Equivalent pipe lengths (m)				
	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	1.25	0.80	0.67	0.67	0.10	0.650	0.486	0.469	0.469	0.000
Elbow 90°	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	3.48	2.02	1.42	1.42	1.03	1.531	1.172	1.115	1.115	1.030
Tee 90°	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	4.55	3.15	1.75	1.75	1.22	1.638	1.449	1.019	1.019	1.366
Tee 90°	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	3.06	1.33	0.88	0.88	0.56	1.285	0.692	0.774	0.774	0.610
Tee 90°	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	4.20	1.98	1.55	1.55	1.11	1.680	1.307	1.287	1.287	1.100
Tee 90°	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	4.20	1.99	1.55	1.55	1.11	1.680	1.313	1.287	1.287	1.221
Elbow female adaptor 90°	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	2.75	2.10	1.28	1.28	0.05	1.265	1.323	1.083	1.083	0.000
Coupling reducer	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	3.45	2.00	1.42	1.42	0.98	1.522	1.171	1.008	1.008	0.980
Coupling	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm	∅ 16 mm	∅ 20 mm	∅ 25 mm	∅ 26 mm	∅ 32 mm
	2.05	1.00	0.35	0.35	0.27	0.923	0.632	0.301	0.301	0.270