

## Pressure loss fittings at 10 °C

ζ-Value and equivalent pipe length according to SV EN1267

### i Loading Unit and ζ-Value



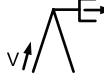
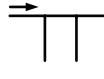
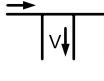
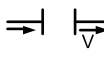
Weight limit value (LU) Loading Unit 1LU= 0,1 l/s (volume flow).

ζ-Value in the table with flow rate  $w = 2 \text{ m/s}$ .

### Simplified representation for 1 Loading Unit (LU)

#### Pressure loss in iLITE system components

JRG-Code	Terms	Short terms	Symbol <sup>a</sup>	Dimension DN/d	ζ-Value	Equivalent pipe length [m]
1	T-piece 90° Branch with flow separation	TA <sup>b</sup>		12/16	3,7	1,30
				15/20	3,8	1,65
				20/26	3,3	-
				25/32	3,2	-
2	T-piece 90° Flow with flow separation	TD <sup>b</sup>		12/16	0,9	0,35
				15/20	0,8	0,35
				20/26	0,7	-
				25/32	0,7	-
3	T-piece 90° Up-cut with flow separation	TG <sup>b</sup>		12/16	3,5	1,25
				15/20	3,6	1,55
				20/26	3,7	-
				25/32	3,8	-
4	T-piece 90° Up-cut with flow conjunction	TVA <sup>b</sup>		12/16	7,0	2,45
				15/20	7,1	3,05
				20/26	5,4	-
				25/32	4,7	-
5	T-piece 90° Branch with flow conjunction	TVD <sup>b</sup>		12/16	11,7	4,10
				15/20	11,8	5,05
				20/26	8,9	-
				25/32	7,8	-
6	T-piece 90° Up-cut with flow conjunction	TVG <sup>b</sup>		12/16	8,2	2,90
				15/20	8,3	3,55
				20/26	6,2	-
				25/32	5,5	-
7 <sub>A</sub>	Elbow 90°	W90		12/16	3,4	1,20
				15/20	3,4	1,45
				20/26	3,0	-
				25/32	3,0	-
7 <sub>B</sub>	Pipe/Bend 90°	(B90)		12/16	0,2	0,05
				15/20	0,2	0,15
				20/26	0,2	-
				25/32	0,2	-
(8 <sub>A</sub> )	Elbow 45°	W45		12/16	-	-
				15/20	-	-
				20/26	-	-
				25/32	-	-
8 <sub>B</sub>	Pipe/Bend 45°	(B45)		12/16	0,1	0,05
				15/20	0,1	0,10
				20/26	0,1	-
				25/32	0,1	-
9	Reducer	RED		12/16	-	-
				15/20	0,8	0,40
				20/26	1,0	-
				25/32	1,0	-

JRG-Code	Terms	Short-terms	Symbol <sup>a</sup>	Dimension DN/d	ζ-Value	Equivalent pipe length [m]
10	Pipe Outlet single	WS		12/16	2,3	0,85
				15/20	2,8	1,15
				20/26	-	-
				25/32	-	-
(11)	Pipe Outlet double Flow	WSD		12/16	2,0	0,75
				15/20	2,7	1,15
				20/26	-	-
(12)	Pipe Outlet double Branch	WSA		12/16	2,2	0,85
				15/20	4,3	1,9
				20/26	-	-
				25/32	-	-
13 <sub>A</sub>	Manifold Flow	STV <sub>D</sub>		12/16	0,5	-
				15/20	0,6	-
				20/26	-	-
				25/32	-	-
13 <sub>B</sub>	Manifold Branch	STV <sub>A</sub>		12/16	3,8	1,40
				15/20	1,9	0,85
				20/26	-	-
				25/32	-	-
14	Coupler	K		12/16	0,4	0,15
				15/20	0,4	0,20
				20/26	0,3	-
				25/32	0,3	-

a The symbol v for flow velocity indicates the reference flow in the fitting.

b For reduced T-piece, the resistance coefficient of a T-piece equal with the smallest size is used.