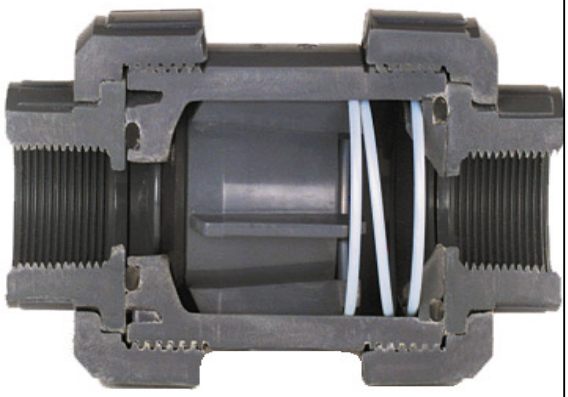
Cone check valve S4



General:

Materials: PVC-u, PP, PVDF
Sealing materials: EPDM, FPM
Spring: PTFE (Teflon®) coated,
WST1.4401
Dimensions: DN10 d16 3/8“ – DN80 d110 4“

End connections:

- Solvent sockets DIN / ASTM / JIS
  PVC
- Solvent spigots DIN
  PVC
- Threaded sockets BSP / NPT
  PVC / PP / PVDF
- Flanges DIN / ANSI / JIS / BS
  PVC / PP / PP-GFK
- Fusion sockets DIN / ASTM
  PP / PVDF / PE
- Fusion spigots DIN
  PP / PVDF / PE

Operating pressure:

DN10 d16 3/8“ – DN50 d63 d2“	PN16/10
DN65 d75 d2 1/2“	PN16/8
DN80 d90 3“	PN10/6
DN80 d110 4“	PN6

Technical specification (e.g. PVC):

Cone check valve S4
PTFE coated spring DN25
PVC grey PVC-U socket d32
metric PN16 EPDM EPDM
Opening pressure = 0,06 bar

Cone check valve S4

Technical features:

1) The cone check valve S4 is spring loaded and allows installation in any directions (horizontally, vertically, diagonally).

2) The spring can be coated by PTFE (Teflon®), whereby the basic material of spring WST1.4401 will not be wetted with the media. This avoids any corrosion and increases the life time and service intervals.

3) The special designed cone offers excellent flow characteristics. Additional sliding straps permit high resistance to abrasion by vibrations.

4) EPDM or FPM flat gaskets sealed on top of the cone permits tight sealing.

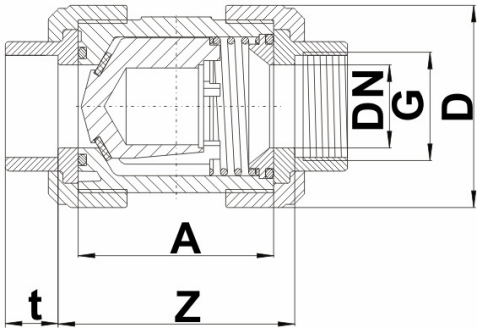
5) Union nuts allow radial installation and removal without additional connection elements and simple replacement of individual components.

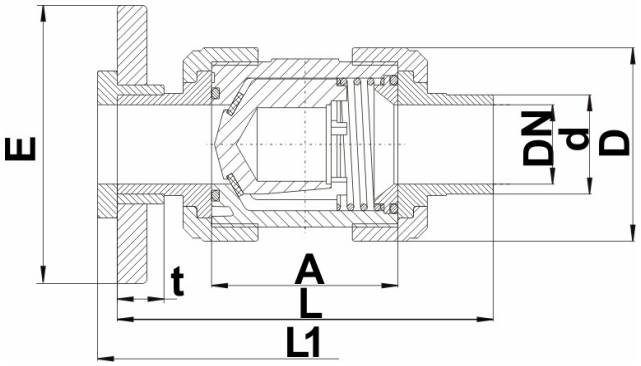
6) Special designed union nuts with trapeze-thread (for sizes of DN10-DN50) and sawtooth-thread (DN65-DN80) guarantees highest protection at vibration, high pressure and temperatures.

7) Additional ear on the body for easy tagging.

Cone check valve S4

Dimensions





PVC-U

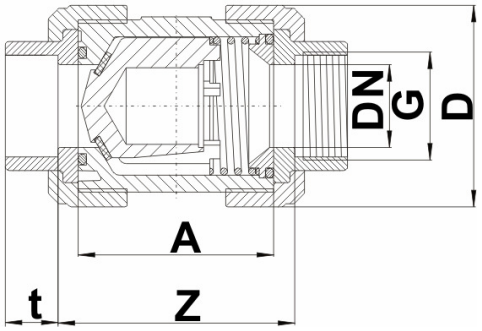
End connections:

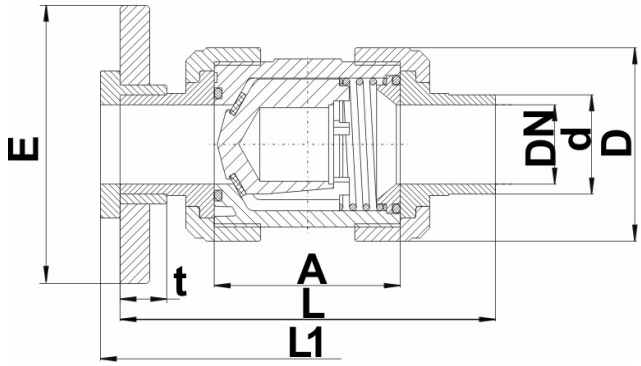
PVC Solvent sockets / Solvent spigots / Threaded sockets
PVC Backing Flange / Fix Flange
PE Fusion sockets / Fusion spigots

DN	10	15	20	25	32	40	50	65	80	80
d	16	20	25	32	40	50	63	75	90	110
G [1] GM	3/8“	1/2“	3/4“	1“	1 1/4“	1 1/2“	2“	2 1/2“	3“	-
A	62	62	70	74	84	95	109	137	163	163
D	53	53	63	70	85	101	124,5	155	188	188
t [2] KM	16,5	16,5	19,5	22,5	26,5	31,5	38,5	45	55,5	64
t [3] KS	17	17	20	22,5	26,5	31,5	38,5	45	52	64,5
t [4] SM PE	14,5	16	17	19,5	22	25	29	34,5	37,5	41,5
t [5] SS PE	13	14,5	15,5	18,5	15,5	29	31	32	30	38
E [6] LF	90	95	105	115	140	150	165	185	200	220
E [7] FF	-	97	105	125	140	150	165	185	200	229
L [4] KS	115	125	145	154	174	194	223	287	300	341
L [5] SS PE	112	123	143	151	142	180	197	253	293	323
L1 [6] LF [7] FF	120	130	150	160	180	200	230	290	310	350
Z [2] KM	68	67	76	80	91	103	120	148	180	173
Z [1] GM	67	67	77	81	90	104	120	150	185	-
Z [3] SM PE	71	68	80	79	98	115	137	165	210	210
PN	16	16	16	16	16	16	16	16	10	6
PN [6] LF	10	10	10	10	10	10	10	10	10	6
PN [7] FF	16	16	16	16	16	16	16	16	10	6

[1] GM = Threaded sockets
[2] KM = Solvent sockets
[3] KS = Solvent spigots
[4] SM = Fusion sockets
[5] SS = Fusion spigots
[6] LF = Backing Flange
[7] FF=Fix Flange

Cone check valve S4



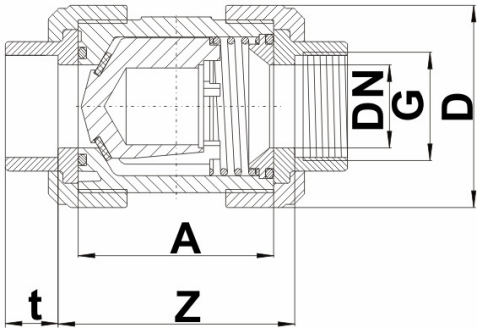


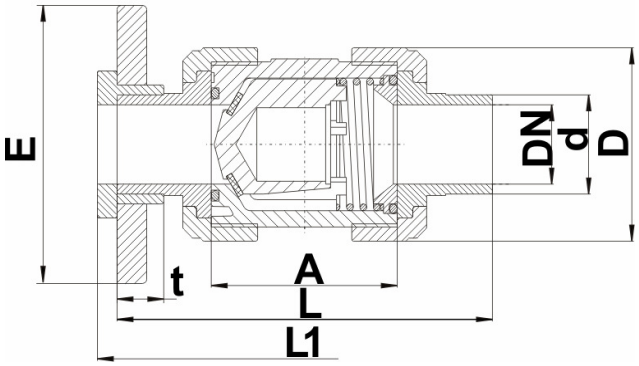
PP
End connections
PP Fusion sockets / Threaded sockets / Fusion spigots
PE Fusion sockets / Fusion spigots
PP- GFK Backing Flange
PP Fix Flange

DN	10	15	20	25	32	40	50	65	80	80
d	16	20	25	32	40	50	63	75	90	110
G_{GM} [1]	3/8“	1/2“	3/4“	1“	1 1/4“	1 1/2“	2“	2 1/2“	3“	-
A	62	62	69	73	93	94	108	133	160	160
D	53	53	64	71	84,5	100	120,5	155	187	187
t_{SM} [2] $_{PP}$	16,5	16,5	19,5	22,5	26,5	31,5	38,5	45	55,5	64
t_{SS} [3] $_{PP}$	13	14	15,5	18,5	20,5	23,5	28	31	36	38
t_{SM} [2] $_{PE}$	14,5	16	17	19,5	22	25	29	34,5	37,5	41,5
t_{SS} [3] $_{PE}$	13	14,5	15,5	18,5	15,5	29	31	32	30	38
E_{LF} [4] $_{DIN}$	-	95	108	115	140	151	165	186	202	222
E_{LF} [4] $_{ANSI}$	-	95	102	114	130	133	162	184	194	229
E_{FF} [5]	-	95	105	115	136	149	160	-	200	228
L_{SS} [3] $_{PP}$	114	124	143	152	171	191	220	277	295	312
L_{SS} [3] $_{PE}$	112	123	142	150	141	179	196	249	290	320
$L1_{LF}$ [4]	-	130	150	160	180	200	230	290	310	350
$L1_{FF}$ [5]	-	130	150	160	180	200	230	-	310	350
Z_{GM} [1]	67	67	74	80	99	103	119	143	180	-
Z_{SM} [2] $_{PP}$	71	68	78	84	107	113	136	162	211	213
Z_{SM} [2] $_{PE}$	71	68	79	87	107	114	136	161	207	207
PN	10	10	10	10	10	10	10	8	6	6

[1] GM = Threaded sockets
[2] SM = Fusion sockets
[3] SS = Fusion spigots
[4] LF=Backing Flange
[5] FF=Fix Flange

Cone check valve S4





PVDF

End connections

PVDF Fusion sockets / Threaded sockets / Fusion spigots

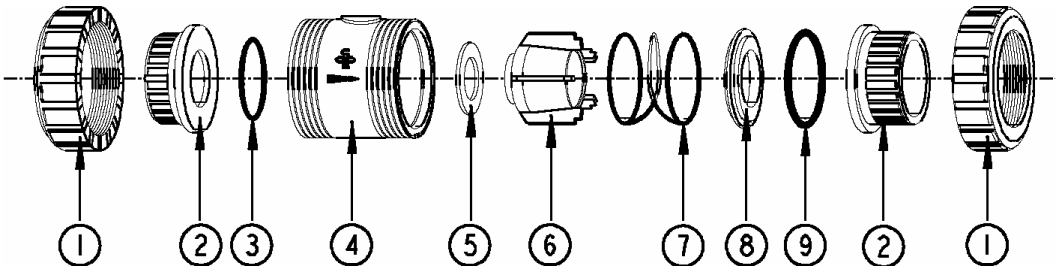
PP- GFK Backing Flange

DN	10	15	20	25	32	40	50	65	80	80
d	16	20	25	32	40	50	63	75	90	110
G_{GM} [1]	3/8“	1/2“	3/4“	1“	1 1/4“	1 1/2“	2“	2 1/2“	3“	-
A	62	62	69	73	83	94	108	133	160	160
D	52,5	52,5	63	70	83	98,5	118	151	183	183
t_{SM} [2]	14,5	16	17,5	19,5	22	25,5	29	34,5	38,5	41,5
t_{SS} [3]	13	14	15,5	18	20,5	23,5	28	31	36	38
$E_{LF\ DIN}$ [4]	-	95	108	115	140	151	165	186	202	222
$E_{LF\ ANSI}$ [4]	-	95	102	114	130	133	162	184	194	229
L_{SS} [3]	114	125	143	152	171	191	220	297	295	320
L1	-	130	150	160	180	20	230	290	310	350
Z_{GM} [1]	67	67	74	80	89	103	119	143	180	-
Z_{SM} [2]	71	68	78	84	97	113	136	162	207	213
PN	16	16	16	16	16	16	16	16	10	6

[1] GM = Threaded sockets [2] SM = Fusion sockets
[3] SS = Fusion spigots [5] LF = Backing Flange

Cone check valve S4

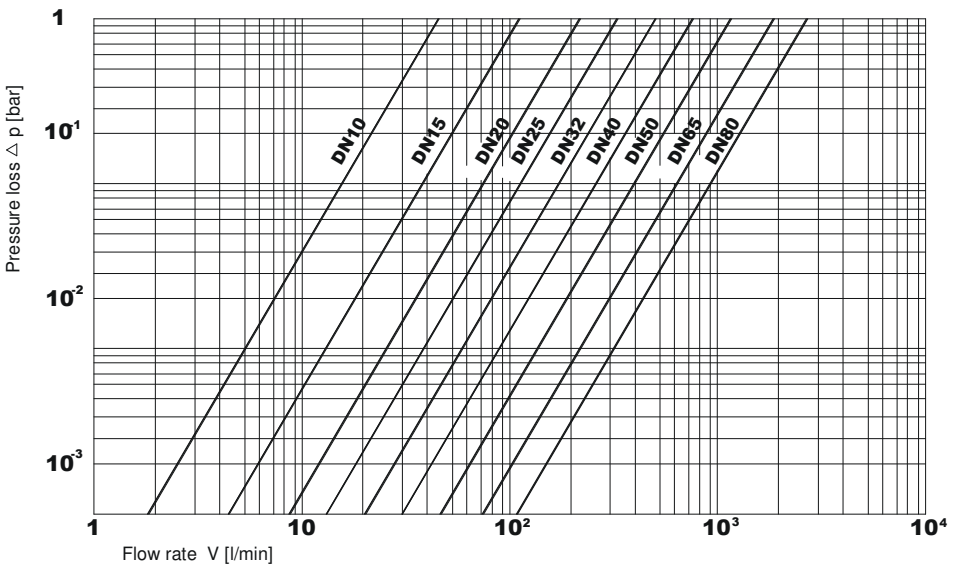
Exploded drawing



1.- Union
2.- End connection
3.- O-Ring
4.- Body
5.- Flat gasket
6.- Cone
7.- Spring made of WST1.4401; optional: (PTFE (Teflon®) coated
8.- Trust collar
9.- O-Ring

Datas of diagrams

Flow - pressure loss diagram



This print has purpose of providing information but does not express any guarantees.
Our product range will be extended constantly hence all information correspond to types and products that were valid at time of printing.
Subject to change without prior notice!