

Product Range

Ventilating Valve
Type 595

Ventilating- and
Bleed Valve
Type 591

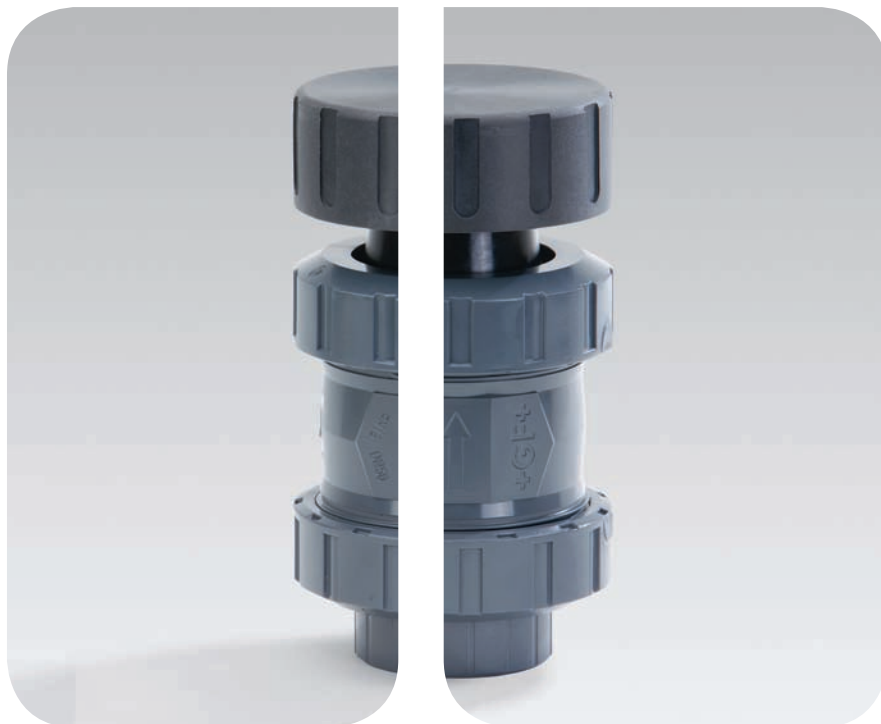


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PVC-U metric

Process control valves

Ventilating and bleed valve

Type 591 PVC-U

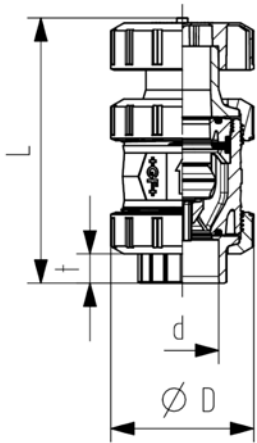
With solvent cement sockets metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	16	161 591 001	161 591 011	50	118	56	64	3/8
20	15	16	161 591 002	161 591 012	50	124	56	64	1/2
25	20	16	161 591 003	161 591 013	58	142	65	72	3/4
32	25	16	161 591 004	161 591 014	68	157	71	79	1
40	32	16	161 591 005	161 591 015	84	179	85	94	1 1/4
50	40	16	161 591 006	161 591 016	97	197	89	95	1 1/2
63	50	16	161 591 007	161 591 017	124	229	101	107	2
75	65	16	161 591 008	161 591 018	166	258	136	144	2 1/2
90	80	16	161 591 009	161 591 019	200	277	141	151	3
110	100	16	161 591 010	161 591 020	238	320	164	174	4



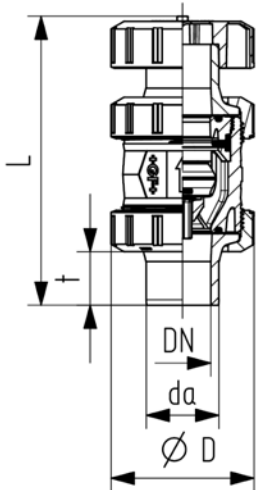
PVC-U metric

Ventilating and bleed valve Type 591 PVC-U With solvent cement spigots metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length



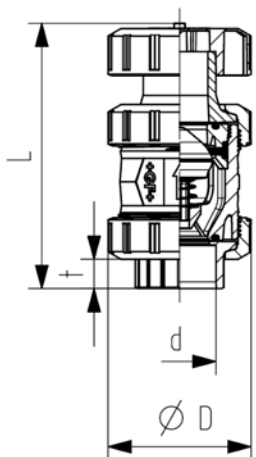
d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	closest inch
16	10	16	161 591 041	161 591 051	50	129	56	3/8
20	15	16	161 591 042	161 591 052	50	139	56	1/2
25	20	16	161 591 043	161 591 053	58	160	65	3/4
32	25	16	161 591 044	161 591 054	68	172	71	1
40	32	16	161 591 045	161 591 055	84	193	85	1 1/4
50	40	16	161 591 046	161 591 056	97	215	89	1 1/2
63	50	16	161 591 047	161 591 057	124	249	101	2
75	65	16	161 591 048	161 591 058	166	284	136	2 1/2
90	80	16	161 591 049	161 591 059	200	300	141	3
110	100	16	161 591 050	161 591 060	238	340	164	4

Ventilating valve type 595 PVC-U With solvent cement sockets metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	16	161 595 001	161 595 011	50	118	56	64	3/8
20	15	16	161 595 002	161 595 012	50	124	56	64	1/2
25	20	16	161 595 003	161 595 013	58	142	65	72	3/4
32	25	16	161 595 004	161 595 014	68	157	71	79	1
40	32	16	161 595 005	161 595 015	84	179	85	94	1 1/4
50	40	16	161 595 006	161 595 016	97	197	89	95	1 1/2
63	50	16	161 595 007	161 595 017	124	229	101	107	2
75	65	16	161 595 008	161 595 018	166	258	136	144	2 1/2
90	80	16	161 595 009	161 595 019	200	277	141	151	3
110	100	16	161 595 010	161 595 020	238	320	164	174	4

PVC-U metric

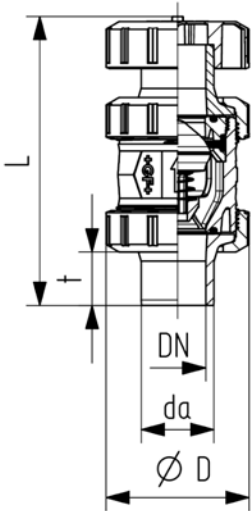
Ventilating valve type 595 PVC-U With solvent cement spigots metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	closest inch
16	10	16	161 595 041	161 595 051	50	129	56	3/8
20	15	16	161 595 042	161 595 052	50	139	56	1/2
25	20	16	161 595 043	161 595 053	58	160	65	3/4
32	25	16	161 595 044	161 595 054	68	172	71	1
40	32	16	161 595 045	161 595 055	84	193	85	1 1/4
50	40	16	161 595 046	161 595 056	97	215	89	1 1/2
63	50	16	161 595 047	161 595 057	124	249	101	2
75	65	16	161 595 048	161 595 058	166	284	136	2 1/2
90	80	16	161 595 049	161 595 059	200	300	141	3
110	100	16	161 595 050	161 595 060	238	340	164	4



PVC-U ASTM/ANSI

Process control valves

Ventilating and bleed valve

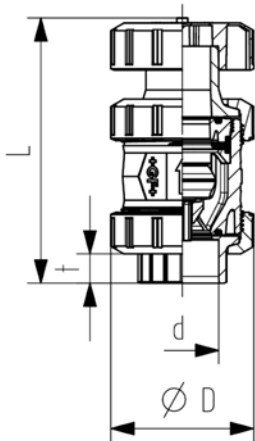
Type 591 PVC-U

With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length



NPT [inch]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	10	16	161 591 101	161 591 111	50	111	56	67
1/2	15	16	161 591 102	161 591 112	50	119	56	61
3/4	20	16	161 591 103	161 591 113	58	137	65	70
1	25	16	161 591 104	161 591 114	68	152	71	76
1 1/4	32	16	161 591 105	161 591 115	84	176	85	90
1 1/2	40	16	161 591 106	161 591 116	97	193	89	94
2	50	16	161 591 107	161 591 117	124	229	101	107
2 1/2	65	16	161 591 108	161 591 118	166	258	136	144
3	80	16	161 591 109	161 591 119	200	277	141	151
4	100	16	161 591 110	161 591 120	238	320	164	174

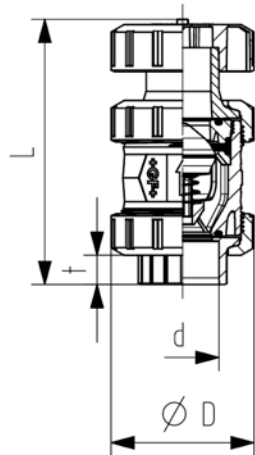
Ventilating valve type 595 PVC-U

With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length



NPT [inch]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	10	16	161 595 101	161 595 111	50	111	56	67
1/2	15	16	161 595 102	161 595 112	50	119	56	61
3/4	20	16	161 595 103	161 595 113	58	137	65	70
1	25	16	161 595 104	161 595 114	68	152	71	76
1 1/4	32	16	161 595 105	161 595 115	84	176	85	90
1 1/2	40	16	161 595 106	161 595 116	97	193	89	94
2	50	16	161 595 107	161 595 117	124	229	101	107
2 1/2	65	16	161 595 108	161 595 118	166	258	136	144
3	80	16	161 595 109	161 595 119	200	277	141	151
4	100	16	161 595 110	161 595 120	238	320	164	174

PVC-C metric

Process control valves

Ventilating and bleed valve

Type 591 PVC-C

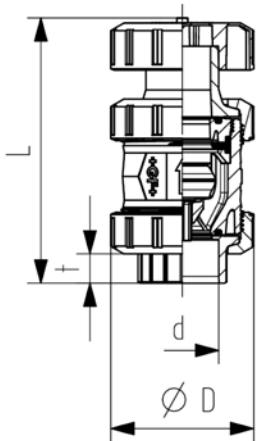
With solvent cement sockets metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	16	163 591 001	163 591 011	50	118	56	64	3/8
20	15	16	163 591 002	163 591 012	50	124	56	64	1/2
25	20	16	163 591 003	163 591 013	58	142	65	72	3/4
32	25	16	163 591 004	163 591 014	68	157	71	79	1
40	32	16	163 591 005	163 591 015	84	179	85	94	1 1/4
50	40	16	163 591 006	163 591 016	97	197	89	95	1 1/2
63	50	16	163 591 007	163 591 017	124	229	101	107	2
75	65	16	163 591 008	163 591 018	166	258	136	144	2 1/2
90	80	16	163 591 009	163 591 019	200	277	141	151	3
110	100	16	163 591 010	163 591 020	238	320	164	174	4



Ventilating valve type 595 PVC-C

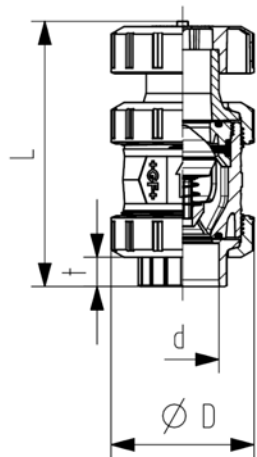
With solvent cement sockets metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	16	163 595 001	163 595 011	50	118	56	64	3/8
20	15	16	163 595 002	163 595 012	50	124	56	64	1/2
25	20	16	163 595 003	163 595 013	58	142	65	72	3/4
32	25	16	163 595 004	163 595 014	68	157	71	79	1
40	32	16	163 595 005	163 595 015	84	179	85	94	1 1/4
50	40	16	163 595 006	163 595 016	97	197	89	95	1 1/2
63	50	16	163 595 007	163 595 017	124	229	101	107	2
75	65	16	163 595 008	163 595 018	166	258	136	144	2 1/2
90	80	16	163 595 009	163 595 019	200	277	141	151	3
110	100	16	163 595 010	163 595 020	238	320	164	174	4



PVC-C ASTM/ANSI/BS

Process control valves

Ventilating and bleed valve

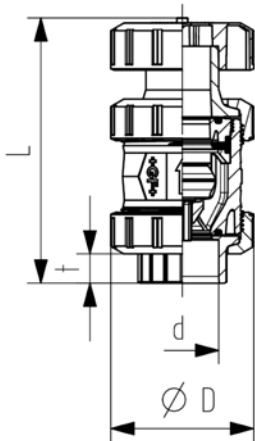
Type 591 PVC-C

With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length



NPT [inch]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	10	16	163 591 101	163 591 111	50	111	56	67
1/2	15	16	163 591 102	163 591 112	50	119	56	61
3/4	20	16	163 591 103	163 591 113	58	137	65	70
1	25	16	163 591 104	163 591 114	68	152	71	76
1 1/4	32	16	163 591 105	163 591 115	84	176	85	90
1 1/2	40	16	163 591 106	163 591 116	97	193	89	94
2	50	16	163 591 107	163 591 117	124	229	101	107
2 1/2	65	16	163 591 108	163 591 118	166	258	136	144
3	80	16	163 591 109	163 591 119	200	277	141	151
4	100	16	163 591 110	163 591 120	238	320	164	174

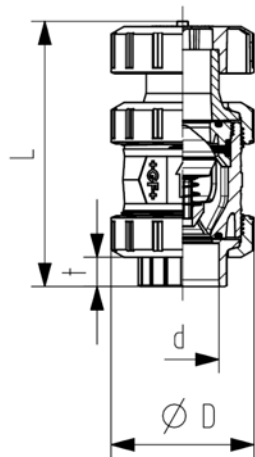
Ventilating valve type 595 PVC-C

With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length



NPT [inch]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	10	16	163 595 101	163 595 111	50	111	56	67
1/2	15	16	163 595 102	163 595 112	50	119	56	61
3/4	20	16	163 595 103	163 595 113	58	137	65	70
1	25	16	163 595 104	163 595 114	68	152	71	76
1 1/4	32	16	163 595 105	163 595 115	84	176	85	90
1 1/2	40	16	163 595 106	163 595 116	97	193	89	94
2	50	16	163 595 107	163 595 117	124	229	101	107
2 1/2	65	16	163 595 108	163 595 118	166	258	136	144
3	80	16	163 595 109	163 595 119	200	277	141	151
4	100	16	163 595 110	163 595 120	238	320	164	174

ABS metric

Process control valves

Ventilating and bleed valve

Type 591 ABS

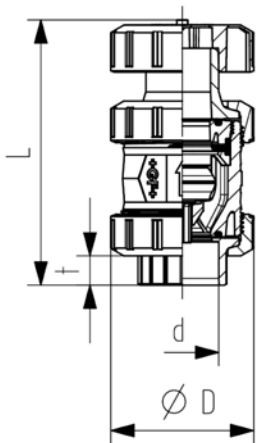
With solvent cement sockets metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	10	169 591 001	50	126	56	64	3/8
20	15	10	169 591 002	50	127	56	64	1/2
25	20	10	169 591 003	58	142	65	72	3/4
32	25	10	169 591 004	68	155	71	79	1
40	32	10	169 591 005	84	177	85	94	1 1/4
50	40	10	169 591 006	97	195	89	95	1 1/2
63	50	10	169 591 007	124	227	101	107	2
75	65	10	169 591 008	166	256	136	144	2 1/2
90	80	10	169 591 009	200	275	141	151	3
110	100	10	169 591 010	238	318	164	174	4



Ventilating valve type 595 ABS

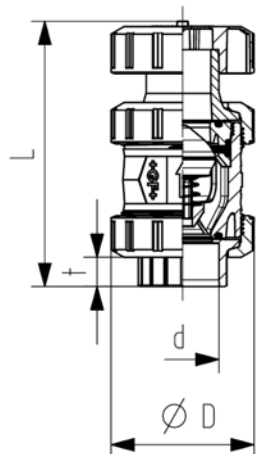
With solvent cement sockets metric



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	10	169 595 001	50	126	56	64	3/8
20	15	10	169 595 002	50	127	56	64	1/2
25	20	10	169 595 003	58	142	65	72	3/4
32	25	10	169 595 004	68	155	71	79	1
40	32	10	169 595 005	84	177	85	94	1 1/4
50	40	10	169 595 006	97	195	89	95	1 1/2
63	50	10	169 595 007	124	227	101	107	2
75	65	10	169 595 008	166	256	136	144	2 1/2
90	80	10	169 595 009	200	275	141	151	3
110	100	10	169 595 010	238	318	164	174	4



ABS Inch BS

Process control valves

Ventilating and bleed valve

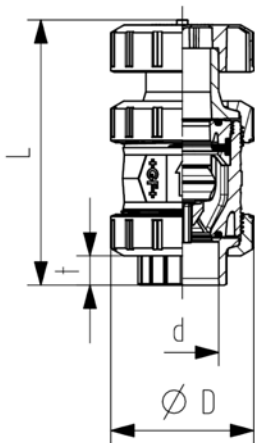
Type 591 ABS

With solvent cement sockets Inch BS



Model:

- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length



Inch	DN [mm]	PN	EPDM Code	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	10	10	169 591 101	50	126	56	60
1/2	15	10	169 591 102	50	127	56	60
3/4	20	10	169 591 103	58	142	65	69
1	25	10	169 591 104	68	155	71	75
1 1/4	32	10	169 591 105	84	177	85	89
1 1/2	40	10	169 591 106	97	195	89	97
2	50	10	169 591 107	124	227	101	110
2 1/2	65	10	169 591 108	166	256	136	144
3	80	10	169 591 109	200	275	141	151
4	100	10	169 591 110	238	318	164	174

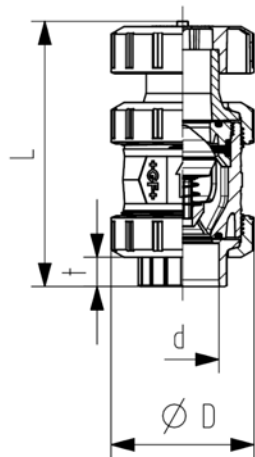
Ventilating valve type 595 ABS

With solvent cement sockets Inch BS



Model:

- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length



Inch	DN [mm]	PN	EPDM Code	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	10	10	169 595 101	50	126	56	60
1/2	15	10	169 595 102	50	127	56	60
3/4	20	10	169 595 103	58	142	65	69
1	25	10	169 595 104	68	155	71	75
1 1/4	32	10	169 595 105	84	177	85	89
1 1/2	40	10	169 595 106	97	195	89	97
2	50	10	169 595 107	124	227	101	110
2 1/2	65	10	169 595 108	166	256	136	144
3	80	10	169 595 109	200	275	141	151
4	100	10	169 595 110	238	318	164	174

PROGEF Standard metric

Process control valves

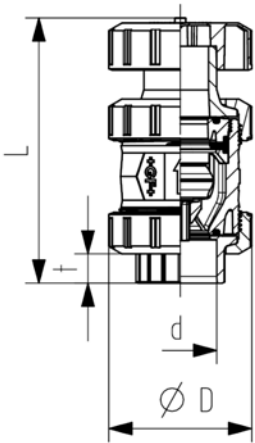
PROGEF Standard Ventilating and bleed valve type 591 With fusion sockets metric



Model:

- Material: PP-H
- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	10	167 591 001	167 591 011	50	126	56	67	3/8
20	15	10	167 591 002	167 591 012	50	127	56	66	1/2
25	20	10	167 591 003	167 591 013	58	142	65	77	3/4
32	25	10	167 591 004	167 591 014	68	153	71	83	1
40	32	10	167 591 005	167 591 015	84	171	85	99	1 1/4
50	40	10	167 591 006	167 591 016	97	190	89	105	1 1/2
63	50	10	167 591 007	167 591 017	124	219	101	117	2
75	65	10	167 591 008	167 591 018	166	256	136	167	2 1/2
90	80	10	167 591 009	167 591 019	200	275	141	180	3
110	100	10	167 591 010	167 591 020	238	318	164	215	4



PROGEF Standard metric

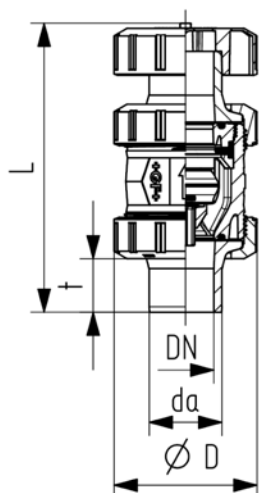
PROGEF Standard Ventilating and bleed valve type 591 With socket fusion spigots metric



Model:

- Material: PP-H
- Up to DN50 with protection cap made from PP-GF
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	closest inch
16	10	10	167 591 041	167 591 051	50	135	56	3/8
20	15	10	167 591 042	167 591 052	50	140	56	1/2
25	20	10	167 591 043	167 591 053	58	157	65	3/4
32	25	10	167 591 044	167 591 054	68	168	71	1
40	32	10	167 591 045	167 591 055	84	189	85	1 1/4
50	40	10	167 591 046	167 591 056	97	211	89	1 1/2
63	50	10	167 591 047	167 591 057	124	245	101	2
75	65	10	167 591 048	167 591 058	166	280	136	2 1/2
90	80	10	167 591 049	167 591 059	200	296	141	3
110	100	10	167 591 050	167 591 060	238	336	164	4



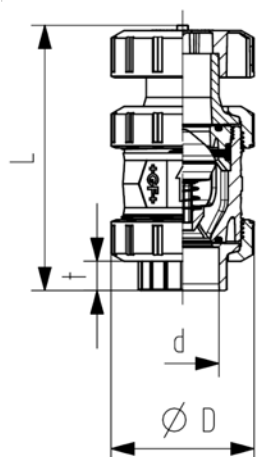
PROGEF Standard Ventilating valve type 595 With fusion sockets metric



Model:

- Material: PP-H
- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	10	167 595 001	167 595 011	50	126	56	67	3/8
20	15	10	167 595 002	167 595 012	50	127	56	66	1/2
25	20	10	167 595 003	167 595 013	58	142	65	77	3/4
32	25	10	167 595 004	167 595 014	68	153	71	83	1
40	32	10	167 595 005	167 595 015	84	171	85	99	1 1/4
50	40	10	167 595 006	167 595 016	97	190	89	105	1 1/2
63	50	10	167 595 007	167 595 017	124	219	101	117	2
75	65	10	167 595 008	167 595 018	166	256	136	167	2 1/2
90	80	10	167 595 009	167 595 019	200	275	141	180	3
110	100	10	167 595 010	167 595 020	238	318	164	215	4



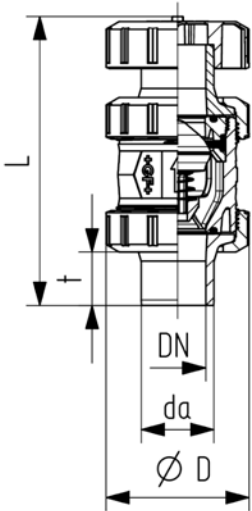
PROGEF Standard metric

PROGEF Standard Ventilating valve type 595 With socket fusion spigots metric



Model:

- Material: PP-H
- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	L2 [mm]	closest inch
16	10	10	167 595 041	167 595 051	50	135	56	3/8
20	15	10	167 595 042	167 595 052	50	140	56	1/2
25	20	10	167 595 043	167 595 053	58	157	65	3/4
32	25	10	167 595 044	167 595 054	68	168	71	1
40	32	10	167 595 045	167 595 055	84	189	85	1 1/4
50	40	10	167 595 046	167 595 056	97	211	89	1 1/2
63	50	10	167 595 047	167 595 057	124	245	101	2
75	65	10	167 595 048	167 595 058	166	280	136	2 1/2
90	80	10	167 595 049	167 595 059	200	296	141	3
110	100	10	167 595 050	167 595 060	238	336	164	4

SYGEF Standard metric/ASTM/ANSI

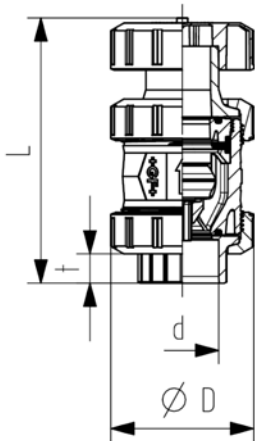
Process control valves

SYGEF Standard Ventilating and bleed valve type 591 With fusion sockets metric



Model:

- Material: PVDF
- Up to DN50 with protection cap made from PP-GF
- Special floater made of PVDF
- Designed for easy installation and removal
- Compact installation length



d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	16	175 591 011	50	126	56	67	3/8
20	15	16	175 591 012	50	127	56	66	1/2
25	20	16	175 591 013	58	142	65	77	3/4
32	25	16	175 591 014	68	153	71	83	1
40	32	16	175 591 015	84	171	85	99	1 1/4
50	40	16	175 591 016	97	190	89	105	1 1/2
63	50	16	175 591 017	124	219	101	117	2
75	65	16	175 591 018	166	256	136	167	2 1/2
90	80	16	175 591 019	200	275	141	180	3
110	100	16	175 591 020	238	318	164	215	4

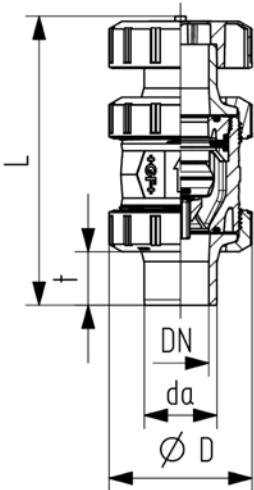
SYGEF Standard metric/ASTM/ANSI

SYGEF Standard Ventilating and bleed valve type 591 With socket fusion spigots metric



Model:

- Material: PVDF
- Up to DN50 with protection cap made from PP-GF
- Special floater made of PVDF
- Designed for easy installation and removal
- Compact installation length



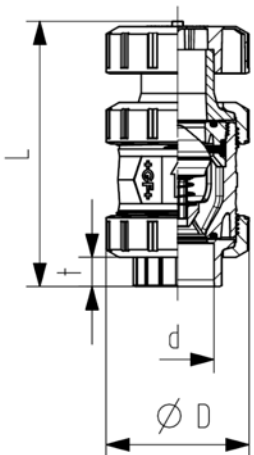
d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L2 [mm]	closest inch
16	10	16	175 591 031	50	135	56	3/8
20	15	16	175 591 032	50	140	56	1/2
25	20	16	175 591 033	58	157	65	3/4
32	25	16	175 591 034	68	168	71	1
40	32	16	175 591 035	84	189	85	1 1/4
50	40	16	175 591 036	97	211	89	1 1/2
63	50	16	175 591 037	124	245	101	2

SYGEF Standard Ventilating valve type 595 With fusion sockets metric



Model:

- Material: PVDF
- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length



d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch
16	10	16	175 595 011	50	126	56	67	3/8
20	15	16	175 595 012	50	127	56	66	1/2
25	20	16	175 595 013	58	142	65	77	3/4
32	25	16	175 595 014	68	153	71	83	1
40	32	16	175 595 015	84	171	85	99	1 1/4
50	40	16	175 595 016	97	190	89	105	1 1/2
63	50	16	175 595 017	124	219	101	117	2
75	65	16	175 595 018	166	256	136	167	2 1/2
90	80	16	175 595 019	200	275	141	180	3
110	100	16	175 595 020	238	318	164	215	4

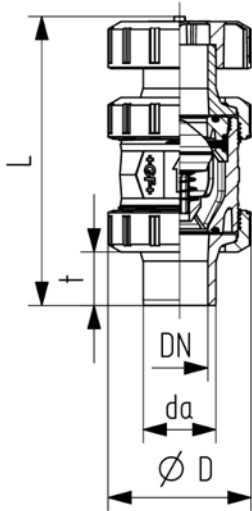
SYGEF Standard metric/ASTM/ANSI

SYGEF Standard Ventilating valve type 595 With socket fusion spigots metric



Model:

- Material: PVDF
- Up to DN50 with protection cap made from PP-GF
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

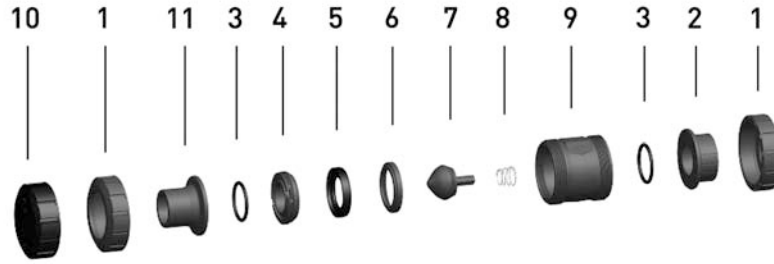


d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L2 [mm]	closest inch
16	10	16	175 595 031	50	135	56	¾
20	15	16	175 595 032	50	140	56	½
25	20	16	175 595 033	58	157	65	¾
32	25	16	175 595 034	68	168	71	1
40	32	16	175 595 035	84	189	85	1 ¼
50	40	16	175 595 036	97	211	89	1 ½
63	50	16	175 595 037	124	245	101	2

Spare parts

Spare parts ventilating- and bleed valves

Spare parts ventilating- and bleed valve type 591/595



Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater PP-H/ PVDF (7), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261
20	1/2	15	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261
25	3/4	20	161 485 262	161 485 272	163 485 262	163 485 272	169 485 262
32	1	25	161 485 263	161 485 273	163 485 263	163 485 273	169 485 263
40	1 1/4	32	161 485 264	161 485 274	163 485 264	163 485 274	169 485 264
50	1 1/2	40	161 485 265	161 485 275	163 485 265	163 485 275	169 485 265
63	2	50	161 485 266	161 485 276	163 485 266	163 485 276	169 485 266
75	2 1/2	65	161 485 267	161 485 277	163 485 267	163 485 277	169 485 267
90	3	80	161 485 268	161 485 278	163 485 268	163 485 278	169 485 268
110	4	100	161 485 269	161 485 279	163 485 269	163 485 279	169 485 269

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 485 261	167 485 271	175 485 271
20	1/2	15	167 485 261	167 485 271	175 485 271
25	3/4	20	167 485 262	167 485 272	175 485 272
32	1	25	167 485 263	167 485 273	175 485 273
40	1 1/4	32	167 485 264	167 485 274	175 485 274
50	1 1/2	40	167 485 265	167 485 275	175 485 275
63	2	50	167 485 266	167 485 276	175 485 276
75	2 1/2	65	167 485 267	167 485 277	175 485 277
90	3	80	167 485 268	167 485 278	175 485 278
110	4	100	167 485 269	167 485 279	175 485 279



Central part with spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater (7), spring Nimonic 90 Halar coated (8), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281
20	1/2	15	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281
25	3/4	20	161 485 282	161 485 292	163 485 282	163 485 292	169 485 282
32	1	25	161 485 283	161 485 293	163 485 283	163 485 293	169 485 283
40	1 1/4	32	161 485 284	161 485 294	163 485 284	163 485 294	169 485 284
50	1 1/2	40	161 485 285	161 485 295	163 485 285	163 485 295	169 485 285
63	2	50	161 485 286	161 485 296	163 485 286	163 485 296	169 485 286
75	2 1/2	65	161 485 287	161 485 297	163 485 287	163 485 297	169 485 287
90	3	80	161 485 288	161 485 298	163 485 288	163 485 298	169 485 288
110	4	100	161 485 289	161 485 299	163 485 289	163 485 299	169 485 289

table continued next page

Spare parts

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 485 281	167 485 291	175 485 291
20	1/2	15	167 485 281	167 485 291	175 485 291
25	3/4	20	167 485 282	167 485 292	175 485 292
32	1	25	167 485 283	167 485 293	175 485 293
40	1 1/4	32	167 485 284	167 485 294	175 485 294
50	1 1/2	40	167 485 285	167 485 295	175 485 295
63	2	50	167 485 286	167 485 296	175 485 296
75	2 1/2	65	167 485 287	167 485 297	175 485 297
90	3	80	167 485 288	167 485 298	175 485 298
110	4	100	167 485 289	167 485 299	175 485 299



Cone (7)

Model:

- For type 595

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	3/8	10	161 491 151	163 482 151	169 482 151	167 485 151	175 484 151
20	1/2	15	161 491 151	163 482 151	169 482 151	167 485 151	175 484 151
25	3/4	20	161 491 152	163 482 152	169 482 152	167 485 152	175 484 152
32	1	25	161 491 153	163 482 153	169 482 153	167 485 153	175 484 153
40	1 1/4	32	161 491 154	163 482 154	169 482 154	167 485 154	175 484 154
50	1 1/2	40	161 491 155	163 482 155	169 482 155	167 485 155	175 484 155
63	2	50	161 491 156	163 482 156	169 482 156	167 485 156	175 484 156
75	2 1/2	65	161 491 157	163 482 157	169 482 157	167 485 157	175 484 157
90	3	80	161 491 158	163 482 158	169 482 158	167 485 158	175 484 158
110	4	100	161 491 159	163 482 159	169 482 159	167 485 159	175 484 159



Floater (7)

Model:

- For type 591

d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code
16	3/8	10	167 485 151	175 484 161
20	1/2	15	167 485 151	175 484 161
25	3/4	20	167 485 152	175 484 162
32	1	25	167 485 153	175 484 163
40	1 1/4	32	167 485 154	175 484 164
50	1 1/2	40	167 485 155	175 484 165
63	2	50	167 485 156	175 484 166
75	2 1/2	65	167 485 157	175 484 167
90	3	80	167 485 158	175 484 168
110	4	100	167 485 159	175 484 169



Profile seal ring (5)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 436 001	749 436 001
20	1/2	15	748 436 001	749 436 001
25	3/4	20	748 436 002	749 436 002
32	1	25	748 436 003	749 436 003
40	1 1/4	32	748 436 004	749 436 004
50	1 1/2	40	748 436 005	749 436 005
63	2	50	748 436 006	749 436 006
75	2 1/2	65	748 436 007	749 436 007
90	3	80	748 436 008	749 436 008
110	4	100	748 436 009	749 436 009

Spare parts

Protective cap (10)



Model:

- Protects the piping system from dirt particles out of the ambient air
Can also be used as tool for opening and closing the valve union bushing

d [mm]	Inch	DN [mm]	PP-GF Code
16	3/8	10	167 485 361
20	1/2	15	167 485 361
25	3/4	20	167 485 362
32	1	25	167 485 363
40	1 1/4	32	167 485 364
50	1 1/2	40	167 485 365
63	2	50	167 485 366

Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 485 240	161 485 250
20	1/2	15	161 485 241	161 485 251
25	3/4	20	161 485 242	161 485 252
32	1	25	161 485 243	161 485 253
40	1 1/4	32	161 485 244	161 485 254
50	1 1/2	40	161 485 245	161 485 255
63	2	50	161 485 246	161 485 256
75	2 1/2	65	161 485 247	161 485 257
90	3	80	161 485 248	161 485 258
110	4	100	161 485 249	161 485 259

Face seal (3)



d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 059	749 410 059
20	1/2	15	748 410 059	749 410 059
25	3/4	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 1/2	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231
75	2 1/2	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254

Spring (8)

Model:

- Material: NIMONIC 90, code: 2.4632, HALAR® coated

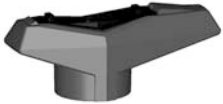


d [mm]	Inch	DN [mm]	NIMONIC 90 HALAR coated Code
16	3/8	10	161 485 112
20	1/2	15	161 485 112
25	3/4	20	161 485 112
32	1	25	161 485 113
40	1 1/4	32	161 485 114
50	1 1/2	40	161 485 115
63	2	50	161 485 116

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Spare parts

d [mm]	Inch	DN [mm]	NIMONIC 90 HALAR coated Code	
75	2 ½	65	161 485 117	
90	3	80	161 485 118	
110	4	100	161 485 119	



DN10/15 - 50



Handle for dismantling

d [mm]	Inch	DN [mm]	red Code	black Code	
16	¾	10	167 484 088	167 484 076	
20	½	15	167 484 088	167 484 076	
25	¾	20	167 484 089	167 484 077	
32	1	25	167 484 090	167 484 078	
40	1 ¼	32	167 484 091	167 484 079	
50	1 ½	40	167 484 092	167 484 080	
63	2	50	167 484 093	167 484 081	
75	2 ½	65	167 484 094	167 484 082	
90	3	80	167 484 095	167 484 083	
110	4	100	167 484 096	167 484 084	

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161 485 113	20	161 491 156	19	161 595 005	5
161 485 114	20	161 491 157	19	161 595 006	5
161 485 115	20	161 491 158	19	161 595 007	5
161 485 116	20	161 491 159	19	161 595 008	5
161 485 117	21	161 591 001	4	161 595 009	5
161 485 118	21	161 591 002	4	161 595 010	5
161 485 119	21	161 591 003	4	161 595 011	5
161 485 240	20	161 591 004	4	161 595 012	5
161 485 241	20	161 591 005	4	161 595 013	5
161 485 242	20	161 591 006	4	161 595 014	5
161 485 243	20	161 591 007	4	161 595 015	5
161 485 244	20	161 591 008	4	161 595 016	5
161 485 245	20	161 591 009	4	161 595 017	5
161 485 246	20	161 591 010	4	161 595 018	5
161 485 247	20	161 591 011	4	161 595 019	5
161 485 248	20	161 591 012	4	161 595 020	5
161 485 249	20	161 591 013	4	161 595 041	6
161 485 250	20	161 591 014	4	161 595 042	6
161 485 251	20	161 591 015	4	161 595 043	6
161 485 252	20	161 591 016	4	161 595 044	6
161 485 253	20	161 591 017	4	161 595 045	6
161 485 254	20	161 591 018	4	161 595 046	6
161 485 255	20	161 591 019	4	161 595 047	6
161 485 256	20	161 591 020	4	161 595 048	6
161 485 257	20	161 591 041	5	161 595 049	6
161 485 258	20	161 591 042	5	161 595 050	6
161 485 259	20	161 591 043	5	161 595 051	6
161 485 261	18	161 591 044	5	161 595 052	6
161 485 262	18	161 591 045	5	161 595 053	6
161 485 263	18	161 591 046	5	161 595 054	6
161 485 264	18	161 591 047	5	161 595 055	6
161 485 265	18	161 591 048	5	161 595 056	6
161 485 266	18	161 591 049	5	161 595 057	6
161 485 267	18	161 591 050	5	161 595 058	6
161 485 268	18	161 591 051	5	161 595 059	6
161 485 269	18	161 591 052	5	161 595 060	6
161 485 271	18	161 591 053	5	161 595 101	7
161 485 272	18	161 591 054	5	161 595 102	7
161 485 273	18	161 591 055	5	161 595 103	7
161 485 274	18	161 591 056	5	161 595 104	7
161 485 275	18	161 591 057	5	161 595 105	7
161 485 276	18	161 591 058	5	161 595 106	7
161 485 277	18	161 591 059	5	161 595 107	7
161 485 278	18	161 591 060	5	161 595 108	7
161 485 279	18	161 591 101	7	161 595 109	7
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161 485 282	18	161 591 103	7	161 595 111	7
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161 485 288	18	161 591 109	7	161 595 117	7
161 485 289	18	161 591 110	7	161 595 118	7
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161 485 292	18	161 591 112	7	161 595 120	7
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161 491 152	19	161 595 001	5	163 482 159	19
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161 491 154	19	161 595 003	5	163 485 262	18

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General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser. They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser. In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
 - a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
 - b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially impractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads. Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith. Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the reform, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
 - c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met. The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved.

Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible. In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice. In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com. Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
 - the repair or replacement of the defective Product is impossible
 - the defective Product is not repaired or replaced within a reasonable period
 - Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, oversteering or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
 - Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - warranty or damage claims - contrary to Section 15.6 - are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages. This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case of unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.
- 18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland. Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

GF Piping Systems – worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries.

www.piping.georgfischer.com



The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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