

Rings, flanges & couplings

Flanges

Slim rings

Wide rings

Rapid lock rings

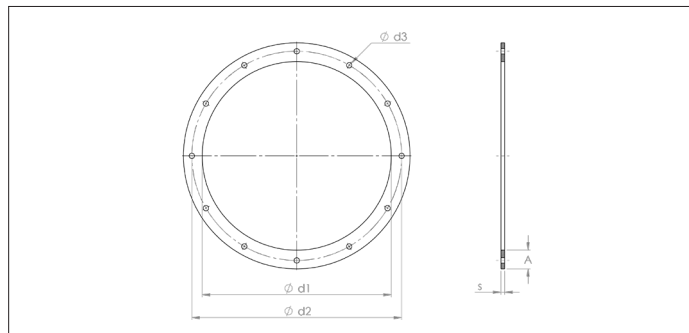
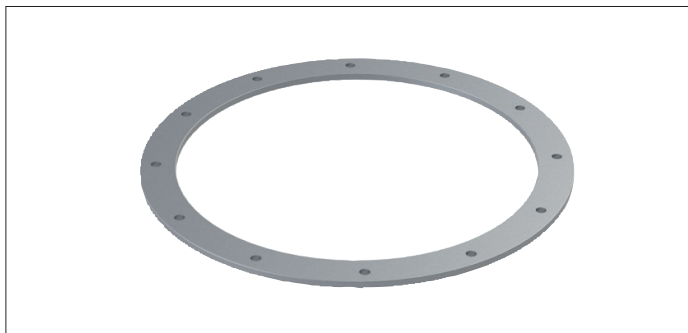
Flexible hose rings

Pipe couplings

Mounting brackets

Accessories

Formula Air flanges GABA



Formula Air flanges GABA

Galvanized flanges with dimensions according to ISO norms for the assembly of different ducting components.

- ! Make sure the edges of the components are large enough to hold the flange.
A seal can be added to the lip of the ducting for better airtightness.

Material

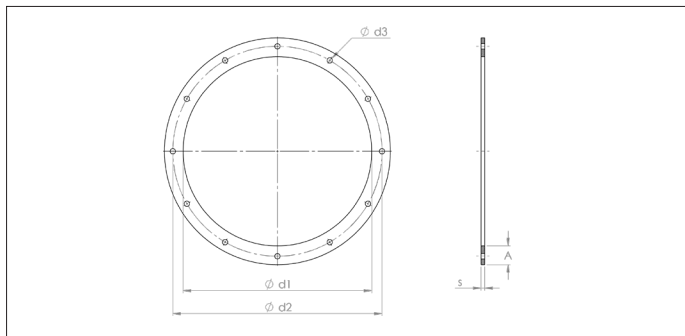
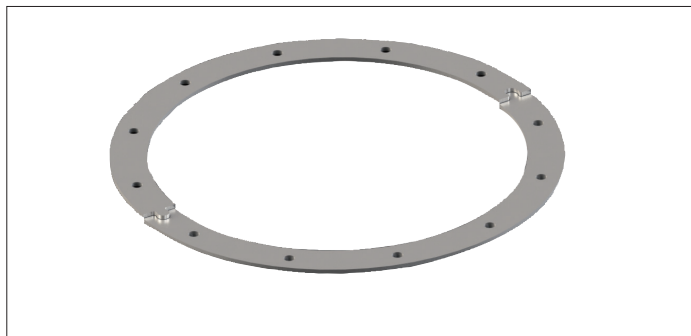
Hot dipped galvanized black steel

Options

- other diameters
- black steel
- painted RAL
- stainless steel (GBBA)

Ø	Code	Ø d1 mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABA000001	83	115	9.5	1	8	25	3	0.26
100	GABA000002	103	135	9.5	1	8	25	3	0.31
120	GABA000003	123	155	9.5	1	8	25	3	0.36
125	GABA000030	128	160	9.5	1	8	25	3	0.38
140	GABA000004	143	175	9.5	1.5	8	25	3	0.41
150	GABA000005	153	185	9.5	1.5	8	25	5	0.55
160	GABA000006	163	195	9.5	1.5	8	25	5	0.58
180	GABA000007	183	215	9.5	1.5	8	25	5	0.64
200	GABA000008	203	235	9.5	1.5	12	25	5	0.70
225	GABA000009	228	260	9.5	1.5	12	25	5	0.75
250	GABA000010	253	285	9.5	1.5	12	25	5	0.85
275	GABA000011	278	310	9.5	1.5	12	25	5	0.96
280	GABA000031	285	315	9.5	1.5	12	25	5	0.98
300	GABA000012	304	336	9.5	1.5	12	25	5	1.01
315	GABA000013	319	351	9.5	1.5	12	25	5	1.26
350	GABA000014	354	389	11.5	1.5	12	30	6	1.84
400	GABA000015	405	439	11.5	1.5	16	30	6	2.08
450	GABA000016	455	489	11.5	1.5	16	30	6	2.32
500	GABA000017	505	540	11.5	1.5	16	30	6	2.56
550	GABA000018	555	590	11.5	2	16	30	6	2.80
600	GABA000019	605	640	11.5	2	16	30	6	3.04
630	GABA000020	635	670	11.5	2	24	30	6	3.19
650	GABA000021	655	690	11.5	2	24	30	6	3.28
700	GABA000022	705	750	11.5	2	24	40	6	3.53
750	GABA000023	755	800	11.5	2	24	40	6	5.09
800	GABA000024	805	850	11.5	2	24	40	6	5.41
850	GABA000025	855	900	11.5	2	24	40	6	5.73
900	GABA000026	905	950	11.5	2	24	40	6	6.05
950	GABA000027	955	1000	11.5	2	24	40	6	6.37
1000	GABA000028	1005	1050	11.5	2	24	40	6	6.69

Formula Air puzzle flanges GABG

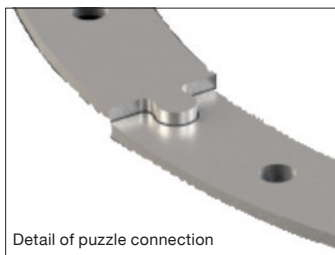


Formula Air puzzle flanges GABG

Galvanized flanges with dimensions according to ISO norms for an easy assembly of different ducting components on site.

Designed to fit on ducting with standard 6 mm edges.

! A seal can be added to the lip of the ducting for better airtightness.



Detail of puzzle connection

Material

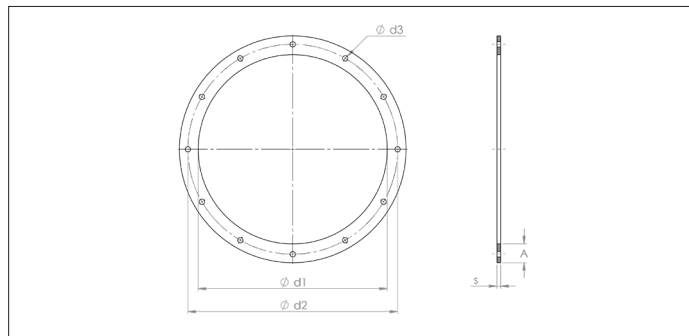
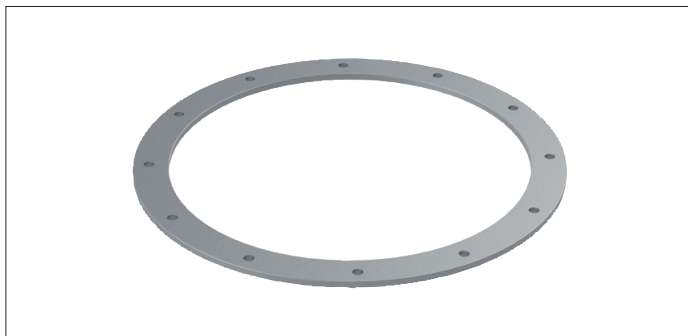
Senzimir galvanized

Options

- other diameters
- black steel
- painted RAL
- stainless steel

Ø	Code	Ø d1 mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABG000001	83	115	9.5	1	8	25	3	0.26
100	GABG000002	103	135	9.5	1	8	25	3	0.31
120	GABG000003	123	155	9.5	1	8	25	3	0.36
125	GABG000021	128	160	9.5	1	8	25	3	0.38
140	GABG000004	143	175	9.5	1.5	8	25	3	0.41
150	GABG000005	153	185	9.5	1.5	8	25	5	0.55
160	GABG000006	163	195	9.5	1.5	8	25	5	0.58
180	GABG000007	183	215	9.5	1.5	8	25	5	0.64
200	GABG000008	203	235	9.5	1.5	12	25	5	0.70
225	GABG000009	228	260	9.5	1.5	12	25	5	0.75
250	GABG000010	253	285	9.5	1.5	12	25	5	0.85
275	GABG000011	278	310	9.5	1.5	12	25	5	0.96
300	GABG000012	304	336	9.5	1.5	12	25	5	1.01
315	GABG000013	319	351	9.5	1.5	12	25	5	1.26
350	GABG000014	354	389	11.5	1.5	12	30	6	1.84
400	GABG000015	405	439	11.5	1.5	16	30	6	2.08
450	GABG000016	455	489	11.5	1.5	16	30	6	2.32
500	GABG000017	505	540	11.5	1.5	16	30	6	2.56
550	GABG000018	555	590	11.5	2	16	30	6	2.80
600	GABG000019	605	640	11.5	2	16	30	6	3.04
630	GABG000020	635	670	11.5	2	24	30	6	3.19
650	GABG000023	655	690	11.5	2	24	30	6	3.28
700	GABG000024	705	750	11.5	2	24	40	6	3.53
750	GABG000025	755	800	11.5	2	24	40	6	5.09
800	GABG000026	805	850	11.5	2	24	40	6	5.41
850	GABG000027	855	900	11.5	2	24	40	6	5.73
900	GABG000028	905	950	11.5	2	24	40	6	6.05
950	GABG000029	955	1000	11.5	2	24	40	6	6.37
1000	GABG000030	1005	1050	11.5	2	24	40	6	6.69

DIN Reihe I (T1) flanges GABB



DIN Reihe I (T1) flanges GABB

Galvanized flanges according to the DIN 24154 standard for the assembly of different ducting components. Model Reihe I (T1).

- ⚠ Make sure the edges of the components are large enough to hold the flange.
A seal can be added to the lip of the ducting for better airtightness.

Material

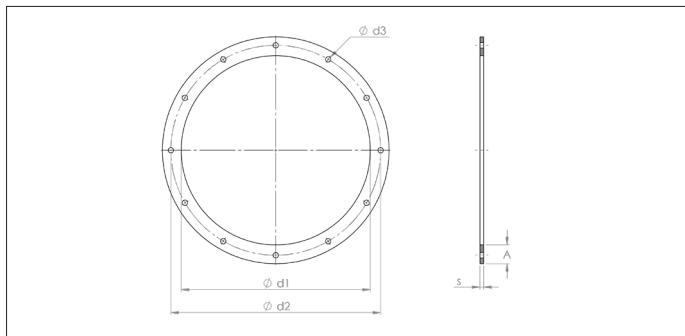
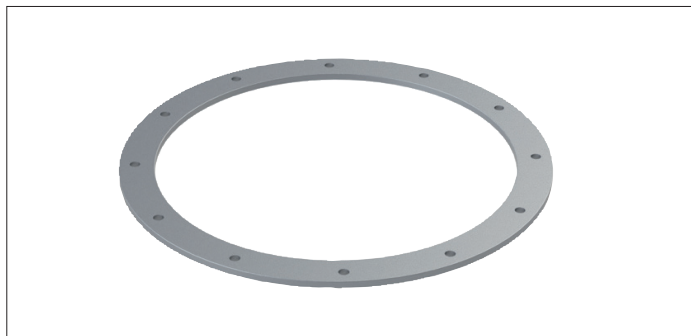
Hot dipped galvanized black steel

Options

- other diameters
- black steel
- painted RAL
- stainless steel
- puzzle flange execution

Ø	Code	Ø d1 mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABB000001	82	112	9.5	1	4	25	3	0.18
100	GABB000002	102	132	9.5	1	4	25	3	0.21
125	GABB000003	127	157	9.5	1	4	25	4	0.26
140	GABB000004	142	172	9.5	1.5	6	25	4	0.41
150	GABB000005	152	185	9.5	1.5	6	25	4	0.43
160	GABB000006	162	192	9.5	1.5	6	25	4	0.46
180	GABB000007	182	212	9.5	1.5	6	25	4	0.51
200	GABB000008	203	233	9.5	1.5	6	25	4	0.56
224	GABB000009	227	257	9.5	1.5	6	25	4	0.62
250	GABB000010	253	283	9.5	1.5	6	25	4	0.69
300	GABB000012	303	339	9.5	1.5	8	30	4	0.98
315	GABB000013	318	352	9.5	1.5	8	30	4	1.03
355	GABB000014	358	392	9.5	1.5	8	30	4	1.15
400	GABB000015	404	438	9.5	1.5	8	30	4	1.28
450	GABB000016	454	488	9.5	1.5	8	30	4	1.43
500	GABB000017	504	538	9.5	1.5	8	30	4	1.58
560	GABB000018	564	600	9.5	2	12	35	4	2.07
600	GABB000019	606	641	9.5	2	12	35	4	2.21
630	GABB000020	634	670	9.5	2	12	35	4	2.31
710	GABB000021	714	750	9.5	2	12	35	4	2.58
800	GABB000022	804	840	9.5	2	16	35	4	2.90
900	GABB000023	904	940	9.5	2	16	35	4	3.24
1000	GABB000024	1005	1041	9.5	2	16	35	4	3.59

DIN Reihe II (T2) flanges GABC



DIN Reihe II (T2) flanges GABC

Galvanized flanges according to the DIN 24154 standard for the assembly of different ducting components. Model Reihe II (T2).

⚠ Make sure the edges of the components are large enough to hold the flange.

A seal can be added to the lip of the ducting for better airtightness.

Material

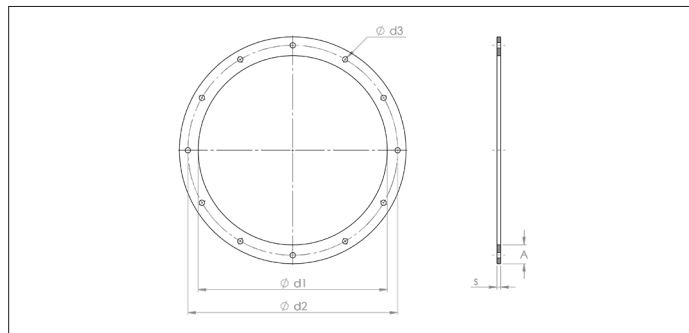
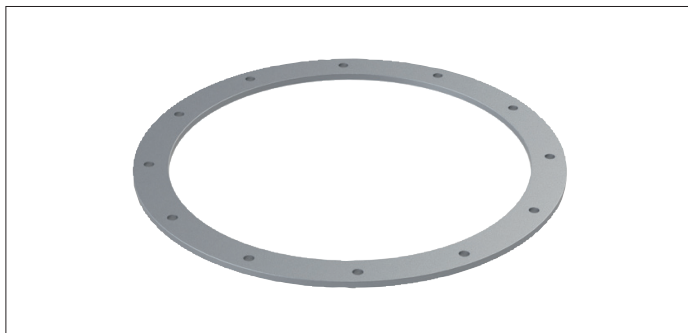
Hot dipped galvanized black steel

Options

- other diameters
- black steel
- painted RAL
- stainless steel (GBBC)
- puzzle flange execution (GABH)

Ø	Code	Ø d1 mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABC000001	82	118	9.5	1	4	30	6	0.48
100	GABC000002	102	139	9.5	1	4	30	6	0.55
125	GABC000004	127	165	9.5	1	4	30	6	0.68
140	GABC000005	142	182	11.5	1.5	8	35	6	0.87
150	GABC000006	152	191	11.5	1.5	8	35	6	0.92
160	GABC000007	162	200	11.5	1.5	8	35	6	0.98
180	GABC000009	182	219	11.5	1.5	8	35	6	1.08
200	GABC000010	203	241	11.5	1.5	8	35	6	1.19
224	GABC000011	227	265	11.5	1.5	8	35	6	1.32
250	GABC000012	253	292	11.5	1.5	8	35	6	1.45
280	GABC000014	283	332	11.5	1.5	8	40	8	2.51
300	GABC000015	303	349	11.5	1.5	8	40	8	2.74
315	GABC000016	318	366	11.5	1.5	8	40	8	2.98
355	GABC000018	358	405	11.5	1.5	8	40	8	3.10
400	GABC000019	404	448	11.5	1.5	12	40	8	3.44
450	GABC000020	454	497	11.5	1.5	12	40	8	3.84
500	GABC000021	504	551	11.5	1.5	12	40	8	4.13
560	GABC000023	564	629	14	2	16	50	8	5.90
600	GABC000024	606	665	14	2	16	50	8	6.24
630	GABC000025	634	698	14	2	16	50	8	6.59
710	GABC000026	714	775	14	2	16	50	8	7.38
800	GABC000027	804	861	14	2	24	50	8	8.19
900	GABC000028	904	958	14	2	24	50	8	9.17
1000	GABC000029	1005	1067	14	2	24	50	8	10.20

DIN Reihe 3 (R3) flanges GABD



DIN Reihe 3 (R3) flanges GABD

Galvanized flanges according to the DIN 24154 standard for the assembly of different ducting components. Model Reihe 3 (R3).

- ! Make sure the edges of the components are large enough to hold the flange.
A seal can be added to the lip of the ducting for better airtightness.

Material

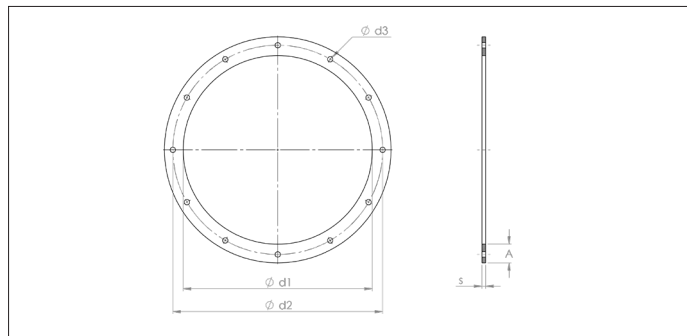
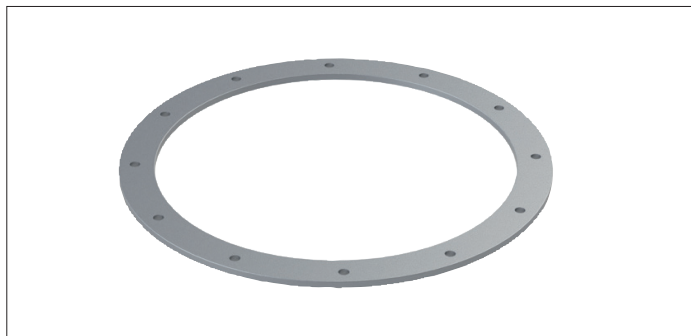
Hot dipped galvanized black steel

Options

- other diameters
- black steel
- painted RAL
- stainless steel
- puzzle flange execution

Ø	Code	Ø d1 mm	Ø d1 loose mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABD000001	84	88	108	7	1	4	20	5	0.21
100	GABD000002	105	109	129	7	1	4	20	5	0.25
125	GABD000003	131	135	155	7	1	4	20	5	0.30
140	GABD000004	146	150	176	7	1.5	6	25	5	0.52
150	GABD000005	155	159	185	7	1.5	6	25	5	0.55
160	GABD000006	164	168	194	7	1.5	6	25	5	0.58
180	GABD000007	183	187	213	7	1.5	6	25	5	0.64
200	GABD000008	205	209	235	7	1.5	6	25	5	0.71
224	GABD000009	229	233	259	7	1.5	6	25	5	0.78
250	GABD000010	256	260	286	7	1.5	6	25	5	0.87
280	GABD000011	288	292	322	9.5	1.5	8	30	6	1.41
300	GABD000012	305	309	339	9.5	1.5	8	30	6	1.48
315	GABD000013	322	326	356	9.5	1.5	8	30	6	1.56
350	GABD000014	355	359	389	9.5	1.5	8	30	6	1.69
355	GABD000015	361	365	395	9.5	1.5	8	30	6	1.73
400	GABD000016	404	408	438	9.5	1.5	12	30	6	1.92
450	GABD000017	453	457	487	9.5	1.5	12	30	6	2.12
500	GABD000018	507	511	541	9.5	1.5	12	30	6	2.38
560	GABD000019	569	573	605	11.5	2	16	35	6	3.13
600	GABD000020	605	609	641	11.5	2	16	35	6	3.30
630	GABD000021	638	642	674	11.5	2	16	35	6	3.48
710	GABD000022	715	719	751	11.5	2	16	35	6	3.88
800	GABD000023	801	805	837	11.5	2	24	35	6	4.33
900	GABD000024	898	902	934	11.5	2	24	35	6	4.80
1000	GABD000025	1007	1011	1043	11.5	2	24	35	6	5.39

DIN Reihe 4 (R4) flanges GABE



DIN Reihe 4 (R4) flanges GABE

Galvanized flanges according to the DIN 24154 standard for the assembly of different ducting components. Model Reihe 4 (R4).

⚠ Make sure the edges of the components are large enough to hold the flange.

A seal can be added to the lip of the ducting for better airtightness.

Material

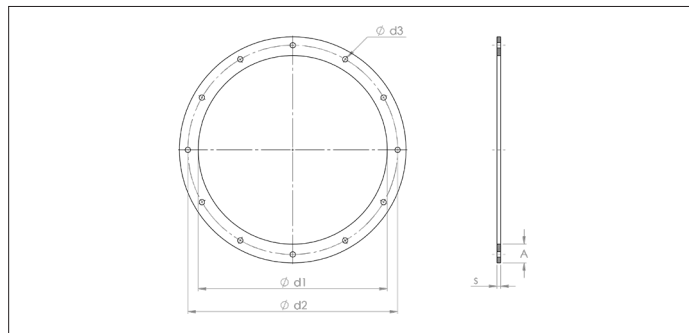
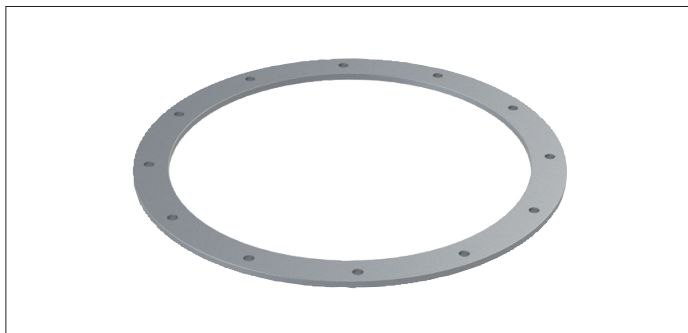
Hot dipped galvanized black steel

Options

- other diameters
- black steel
- painted RAL
- stainless steel
- puzzle flange execution

Ø	Code	Ø d1 mm	Ø d1 loose mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABE000001	84	88	118	9.5	1	4	30	6	0.51
100	GABE000002	105	109	139	9.5	1	4	30	6	0.60
125	GABE000003	131	135	165	9.5	1	4	30	6	0.71
140	GABE000004	146	150	182	11.5	1.5	8	35	6	0.93
150	GABE000005	155	159	191	11.5	1.5	8	35	6	0.97
160	GABE000006	164	168	200	11.5	1.5	8	35	6	1.02
180	GABE000007	183	187	219	11.5	1.5	8	35	6	1.12
200	GABE000008	205	209	241	11.5	1.5	8	35	6	1.24
224	GABE000009	229	233	265	11.5	1.5	8	35	6	1.36
250	GABE000010	256	260	292	11.5	1.5	8	35	6	1.50
280	GABE000011	288	292	332	11.5	1.5	8	40	8	2.58
300	GABE000012	305	309	349	11.5	1.5	8	40	8	2.72
315	GABE000013	322	326	366	11.5	1.5	8	40	8	2.85
350	GABE000014	355	359	399	11.5	1.5	8	40	8	3.10
355	GABE000015	361	365	405	11.5	1.5	8	40	8	3.16
400	GABE000016	404	408	448	11.5	1.5	12	40	8	3.49
450	GABE000017	453	457	497	11.5	1.5	12	40	8	3.89
500	GABE000018	507	511	551	11.5	1.5	12	40	8	4.30
560	GABE000019	569	573	629	14	2	16	50	8	6.10
600	GABE000020	605	609	665	14	2	16	50	8	6.45
630	GABE000021	638	642	698	14	2	16	50	8	6.78
710	GABE000022	715	719	775	14	2	16	50	8	7.53
800	GABE000023	801	805	861	14	2	24	50	8	8.40
900	GABE000024	898	902	958	14	2	24	50	8	9.30
1000	GABE000025	1007	1011	1067	14	2	24	50	8	10.40

DIN Reihe 5 (R5) flanges GABF



DIN Reihe 5 (R5) flanges GABF

Galvanized flanges according to the DIN 24154 standard for the assembly of different ducting components. Model Reihe 5 (R5).

- ❗ Make sure the edges of the components are large enough to hold the flange.
A seal can be added to the lip of the ducting for better airtightness.

Material

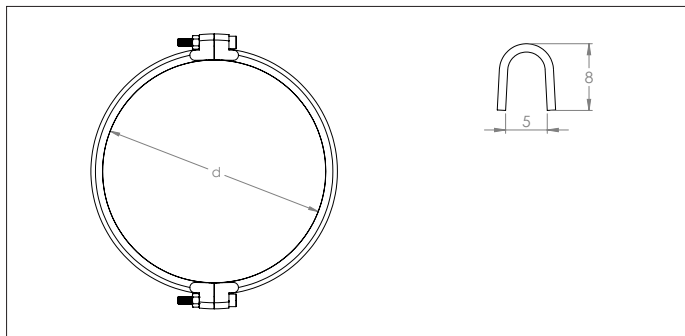
Hot dipped galvanized black steel

Options

- other diameters
- black steel
- painted RAL
- stainless steel
- puzzle flange execution

Ø	Code	Ø d1 mm	Ø d2 mm	Ø d3 mm	Tolerance mm	Number of holes	A mm	S mm	Weight kg
80	GABF000001	82	108	7	1	4	25	3	0.20
100	GABF000002	102	129	7	1	4	25	3	0.23
125	GABF000003	127	155	7	1	4	25	4	0.28
140	GABF000004	142	176	7	1.5	6	30	4	0.50
150	GABF000005	152	185	7	1.5	6	30	4	0.53
160	GABF000006	162	194	7	1.5	6	30	4	0.56
180	GABF000007	182	213	7	1.5	6	30	4	0.62
200	GABF000008	203	235	7	1.5	6	30	4	0.69
224	GABF000009	227	259	7	1.5	6	30	4	0.76
250	GABF000010	253	286	7	1.5	6	30	4	0.83
280	GABF000011	283	322	9.5	1.5	8	35	5	1.40
300	GABF000012	303	342	9.5	1.5	8	35	5	1.48
315	GABF000013	318	356	9.5	1.5	8	35	5	1.56
355	GABF000014	358	395	9.5	1.5	8	35	5	1.73
400	GABF000015	404	438	9.5	1.5	12	35	5	1.93
450	GABF000016	454	487	9.5	1.5	12	35	5	2.15
500	GABF000017	504	541	9.5	1.5	12	35	5	2.37
560	GABF000018	564	629	11.5	2	16	45	6	4.00
600	GABF000019	606	666	11.5	2	16	45	6	4.24
630	GABF000020	634	698	11.5	2	16	45	6	4.47
710	GABF000021	714	775	11.5	2	16	45	6	4.99
800	GABF000022	804	861	11.5	2	24	45	6	5.55
900	GABF000023	904	958	11.5	2	24	45	6	6.21
1000	GABF000024	1005	1067	11.5	2	24	45	6	6.88

Slim rings GAAA



Slim rings GAAA

Rings in two parts, without seal, with 2x M5 bolts.

❗ For assembly of ducting from 0.75 mm up to 1.25 mm.
As an option, a rubber seal can be added for better airtightness.

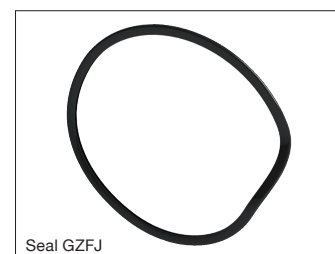
❗ Maximum tightening torque as of Ø450 : 10 Nm.

Material

Galvanized steel

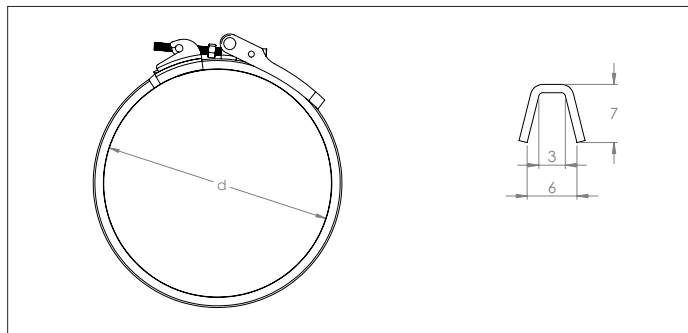
Options

- other diameters
- seals (GZFJ)
- Terostat sealants
- stainless steel AISI 304 (GBAA)



Ø	Code		Ød mm	Weight kg
	unit code	pack of 10 pcs		
80	GAAB000001	GAAA000001	81.5	0.06
100	GAAB000002	GAAA000002	101.5	0.07
120	GAAB000003	GAAA000003	121.5	0.08
125	GAAB000018	GAAA000018	126.5	0.08
140	GAAB000004	GAAA000004	141.5	0.09
150	GAAB000005	GAAA000005	151.5	0.09
160	GAAB000006	GAAA000006	161.5	0.10
180	GAAB000007	GAAA000007	181.5	0.11
200	GAAB000008	GAAA000008	201.5	0.12
225	GAAB000009	GAAA000009	226.5	0.13
250	GAAB000010	GAAA000010	251.5	0.13
275	GAAB000011	GAAA000011	276.5	0.14
300	GAAB000012	GAAA000012	301.5	0.15
315	GAAB000013	GAAA000013	316.5	0.15
350	GAAB000014	GAAA000014	351.5	0.17
400	GAAB000015	GAAA000015	401.5	0.19
450	GAAB000016	GAAA000016	451.5	0.21
500	GAAB000017	GAAA000017	501.5	0.24

Slim rapid lock rings GAAJ



Slim rapid lock rings GAAJ

Rings with adjustable handle.

From Ø 80 up to Ø 125 mm (*) with adjustable handle and hinge. From Ø 140 mm, it is supplied without hinge and with an adjustable handle.

❗ For assembly of ducting from 0.75 mm up to 1.25 mm.
As an option, a rubber seal can be added for better airtightness.

Material

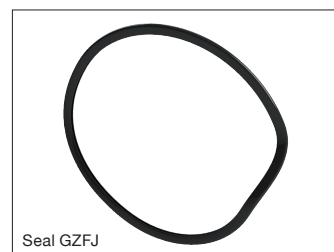
Galvanized steel

Options

- other diameters
- seals (GZFJ)
- Terostat sealants



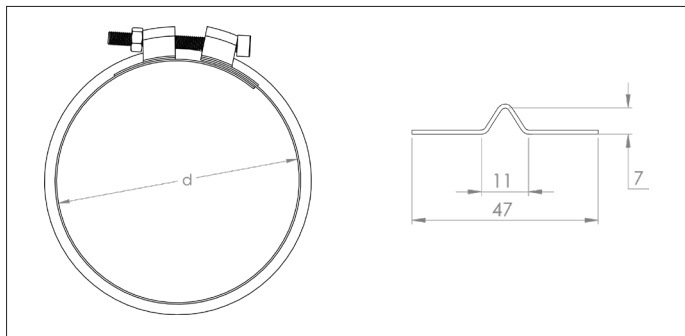
Model with handle & hinge (*)



Seal GZFJ

Ø	Code	Ød mm	Weight kg
80*	GAAJ000001	81.5	0.07
100*	GAAJ000002	101.5	0.09
120*	GAAJ000003	121.5	0.11
125*	GAAJ000004	126.5	0.11
140	GAAJ000005	141.5	0.12
150	GAAJ000006	151.5	0.13
160	GAAJ000007	161.5	0.13
180	GAAJ000008	181.5	0.14
200	GAAJ000009	201.5	0.15
225	GAAJ000010	226.5	0.15
250	GAAJ000011	251.5	0.16
275	GAAJ000012	276.5	0.17
300	GAAJ000014	301.5	0.18
315	GAAJ000015	316.5	0.19
350	GAAJ000016	351.5	0.23
400	GAAJ000017	401.5	0.25
450	GAAJ000018	451.5	0.28
500	GAAJ000019	501.5	0.30
550	GAAJ000020	551.5	0.33
600	GAAJ000021	601.5	0.36

Wide rings GAAF



Wide rings GAAF

Rings in one part, without seal, with one M8x80 bolt.

Greater lengths can be assembled with wide rings in comparison with slim rings. Can only be used on straight ducting or conical ducting with 50 mm straight extensions.

Our new and improved model includes a lock mechanism on both sides of the bolt to hold it in place that also strengthens the whole assembly.

❗ For assembly of ducting from 0.75 mm up to 1.5 mm.
As an option, a rubber seal can be added for better airtightness.

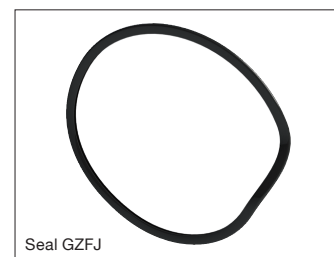
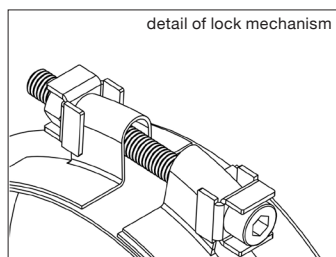
Material

Galvanized steel

Options

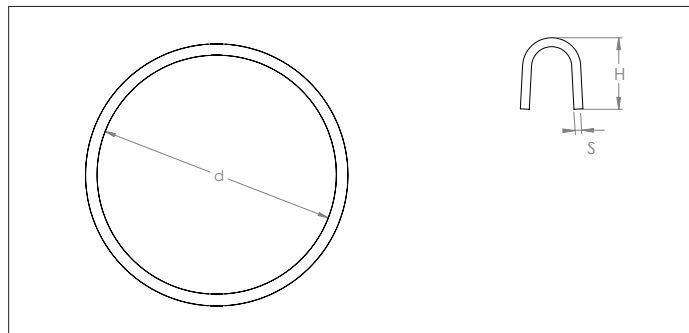
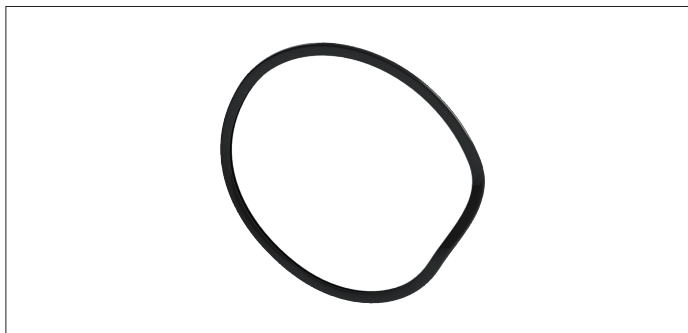
- other diameters
- seals (GZFJ)
- Terostat sealants
- stainless steel AISI 304 (GBAF)

❗ Maximum tightening torque as of Ø450 : 10 Nm.



Ø	Code	Ød mm	Weight kg
150	GAAF000002	151.5	0.20
160	GAAF000003	161.5	0.21
180	GAAF000004	181.5	0.22
200	GAAF000005	201.5	0.23
225	GAAF000006	226.5	0.25
250	GAAF000007	251.5	0.26
275	GAAF000008	276.5	0.28
300	GAAF000009	301.5	0.30
315	GAAF000010	316.5	0.31
350	GAAF000011	351.5	0.38
400	GAAF000012	401.5	0.43
450	GAAF000013	451.5	0.47
500	GAAF000014	501.5	0.51
550	GAAF000015	551.5	0.55
600	GAAF000016	601.5	0.59
630	GAAF000017	631.5	0.62
650	GAAF000018	651.5	0.64
700	GAAF000019	701.5	0.68
750	GAAF000020	751.5	0.72
800	GAAF000021	801.5	0.76
850	GAAF000022	851.5	0.80
900	GAAF000023	901.5	0.84
950	GAAF000024	951.5	0.88
1000	GAAF000025	1001.5	0.93

Seal insert GZFJ for rings GAAA, GAAJ & GAAF



Seal insert GZFJ for rings GAAA, GAAJ & GAAF

Very thin seals to mount on the lip of one pipe for extra airtightness.
Use one seal per ring.

Available in EPDM (Keltan) & NBR (Perbunan).

❗ Only to be used with the rings GAAA, GAAJ and GAAF.

EPDM (Keltan) :

Material

Ethylene-Propylene rubber

Color

Black

Temperature range

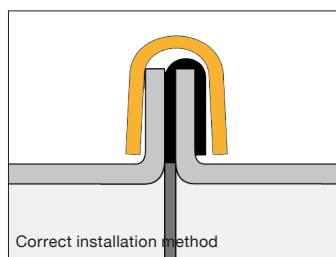
-40 °C up to +120 °C

Good resistance against :

Water, water vapour, acetone, ammonia, brine, methyl ethyl ketone, ozone, several acids, ageing and weathering

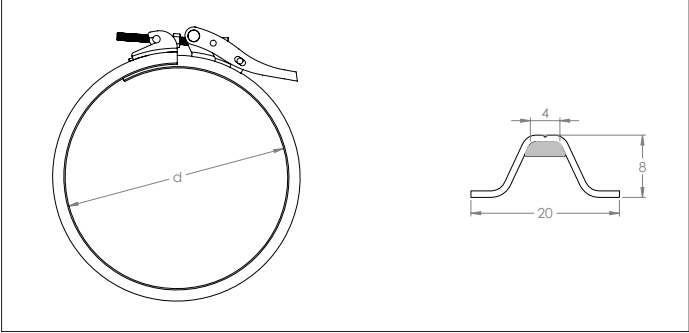
Little resistance against :

Mineral oils, fats, hydrocarbon fuels, heptane, pentane, toluene and chlorinated hydrocarbon



Ø	EPDM Code	Ød mm	S mm	H mm
80	GZFJ000001	74	0.7	6
100	GZFJ000002	94	0.7	6
120	GZFJ000003	114	0.7	6
125	GZFJ000019	119	0.7	6
140	GZFJ000004	134	0.7	6
150	GZFJ000005	144	0.7	6
160	GZFJ000006	154	0.7	6
180	GZFJ000008	174	0.7	6
200	GZFJ000009	194	0.7	6
225	GZFJ000010	218	0.7	6
250	GZFJ000011	244	0.7	6
275	GZFJ000012	274	0.7	6
300	GZFJ000013	294	0.7	6
315	GZFJ000014	309	0.7	6
350	GZFJ000015	344	0.7	6
400	GZFJ000016	394	0.7	6
450	GZFJ000017	444	0.7	6
500	GZFJ000018	494	0.7	6
550	GZFJ000021	544	0.7	6
600	GZFJ000022	594	0.7	6
630	GZFJ000023	624	0.7	6
650	GZFJ000024	644	0.7	6
700	GZFJ000025	694	0.7	6
750	GZFJ000026	744	0.7	6
800	GZFJ000027	794	0.7	6
900	GZFJ000029	894	0.7	6
1000	GZFJ000031	994	0.7	6

Slim rapid lock rings with foam insert GAAD



Slim rapid lock ring with foam insert GAAD

Rings with integrated foam insert and adjustable handle.

From Ø 80 up to Ø 140 mm with adjustable handle and hinge. (*)
From Ø 150 mm, it is supplied without hinge and with an adjustable handle.

Material

Galvanized steel with foam insert

Options

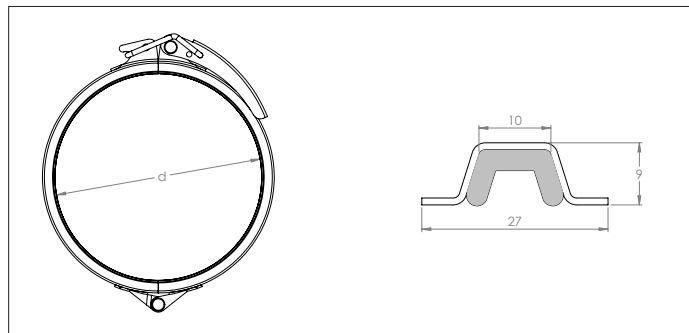
- other diameters

 For assembly of ducting from 0.75 mm up to 1.25 mm.



Ø	Code	Ød mm	Weight kg
80*	GAAD000001	81.5	0.07
100*	GAAD000002	101.5	0.09
120*	GAAD000003	121.5	0.11
125*	GAAD000019	126.5	0.11
140*	GAAD000004	141.5	0.12
150	GAAD000005	151.5	0.13
160	GAAD000006	161.5	0.13
180	GAAD000007	181.5	0.14
200	GAAD000008	201.5	0.15
225	GAAD000009	226.5	0.15
250	GAAD000010	251.5	0.16
280	GAAD000021	276.5	0.17
300	GAAD000011	301.5	0.18
315	GAAD000012	316.5	0.19
350	GAAD000013	351.5	0.23
400	GAAD000014	401.5	0.25
450	GAAD000015	451.5	0.28
500	GAAD000016	501.5	0.30
550	GAAD000017	551.5	0.33
600	GAAD000018	601.5	0.36

Rapid lock rings with PVC insert GAAC



Rapid lock ring with red PVC insert GAAC

Rings with integrated red PVC insert with handle and hinge.

From Ø 80 up to Ø 400 mm with integrated hinge and handle.
From Ø 450 mm, it is supplied without hinge and with an M8x80 bolt.

❗ For assembly of ducting from 0.75 mm up to 1.25 mm.

❗ Maximum tightening torque as of Ø450 : 10 Nm.

Material

Galvanized steel with red PVC insert

Options

- other diameters
- silicone insert for high temperature (up to 200 °C)
- stainless steel AISI 304 (GBAC)



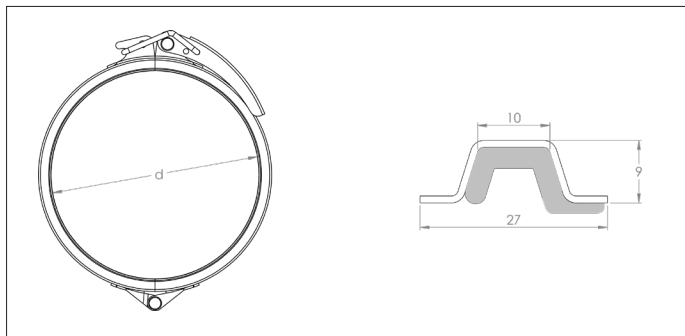
Model without handle & hinge



AISI 304 model GBAC

Ø	Code	Ød mm	Weight kg
80	GAAC000001	81.5	0.18
100	GAAC000002	101.5	0.21
120	GAAC000003	121.5	0.23
125	GAAC000021	126.5	0.24
140	GAAC000004	141.5	0.26
150	GAAC000005	151.5	0.27
160	GAAC000006	161.5	0.27
180	GAAC000007	181.5	0.30
200	GAAC000008	201.5	0.32
225	GAAC000009	226.5	0.35
250	GAAC000010	251.5	0.38
275	GAAC000011	276.5	0.41
300	GAAC000012	301.5	0.44
315	GAAC000013	316.5	0.46
350	GAAC000014	351.5	0.50
400	GAAC000015	401.5	0.56
450	GAAC000016	451.5	0.55
500	GAAC000017	501.5	0.61
550	GAAC000018	551.5	0.67
600	GAAC000019	601.5	0.72
630	GAAC000020	631.5	0.76

Rapid lock rings with PVC insert GAAS



Rapid lock ring with black PVC insert GAAS

Rings with integrated black PVC insert with handle and hinge, for use with telescope pipes (AAAB).

From Ø 80 up to Ø 400 mm with integrated hinge and handle.
From Ø 450 mm, it is supplied without hinge and with an M8x80 bolt.

Material

Galvanized steel with black PVC insert

Options

- other diameters
- stainless steel AISI 304 (GBAS)

❗ For assembly of ducting from 0.75 mm up to 1.25 mm.

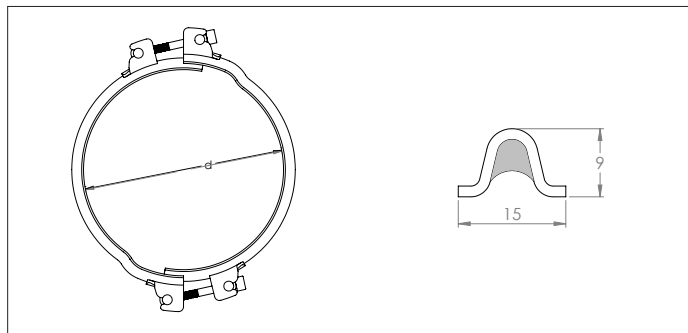
❗ Maximum tightening torque as of Ø450 : 10 Nm.



Model without handle & hinge

Ø	Code	Ød mm	Weight kg
80	GAAS000001	81.5	0.18
100	GAAS000002	101.5	0.21
120	GAAS000003	121.5	0.23
125	GAAS000020	126.5	0.24
140	GAAS000004	141.5	0.26
150	GAAS000005	151.5	0.27
160	GAAS000006	161.5	0.27
180	GAAS000007	181.5	0.30
200	GAAS000008	201.5	0.32
225	GAAS000009	226.5	0.35
250	GAAS000010	251.5	0.38
275	GAAS000011	276.5	0.41
300	GAAS000012	301.5	0.44
315	GAAS000013	316.5	0.46
350	GAAS000014	351.5	0.50
400	GAAS000015	401.5	0.56
450	GAAS000016	451.5	0.55
500	GAAS000017	501.5	0.61
550	GAAS000018	551.5	0.67
600	GAAS000019	601.5	0.72
630	GAAS000022	631.5	0.76

Pull rings with Terostat GAAH



Pull rings with Terostat GAAH

Rings with integrated Terostat (polymer Silane paste). For unpressurized or under-pressure systems. The Terostat seal is protected by a plastic film which needs to be removed during assembling.

❗ For assembly of ducting from 0.75 mm up to 3 mm. Specify ducting thickness when ordering.

❗ Maximum tightening torque as of Ø450 : 15 Nm.

Material

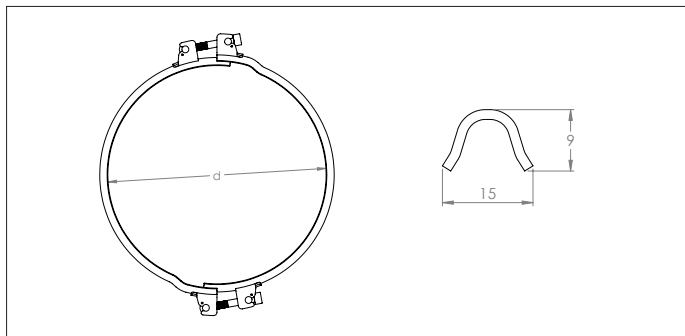
Galvanized steel with 2 bolts M6 or M8 x 60 mm with Terostat sealing paste (Egobon Butyl)

Options

- other diameters
- stainless steel AISI 304 (GBAH)

Ø	Code			Ød	S	Weight
	1 mm	2 mm	3mm	mm	mm	kg
80	GAAH000001	GAAH000024	GAAH000047	86	1.5	0.26
100	GAAH000002	GAAH000025	GAAH000048	106	1.5 or 1.75	0.27
120	GAAH000003	GAAH000026	GAAH000049	126	1.5 or 1.75	0.28
125	GAAH000071	GAAH000072	GAAH000073	131	1.5 or 1.75	0.29
140	GAAH000004	GAAH000027	GAAH000050	146	1.5 or 1.75	0.31
150	GAAH000005	GAAH000028	GAAH000051	156	1.5 or 1.75	0.32
160	GAAH000006	GAAH000029	GAAH000052	166	1.5 or 1.75	0.33
180	GAAH000008	GAAH000031	GAAH000054	186	1.5 or 1.75	0.35
200	GAAH000009	GAAH000032	GAAH000055	206	1.5 or 1.75	0.37
224	GAAH000010	GAAH000033	GAAH000056	230	1.5 or 1.75	0.39
250	GAAH000011	GAAH000034	GAAH000057	256	1.5 or 1.75	0.41
280	GAAH000012	GAAH000035	GAAH000058	286	1.5 or 1.75	0.44
300	GAAH000013	GAAH000036	GAAH000059	306	1.5 or 1.75	0.46
315	GAAH000014	GAAH000037	GAAH000060	321	1.5 or 1.75	0.47
350	GAAH000015	GAAH000038	GAAH000061	356	1.5 or 1.75	0.50
400	GAAH000016	GAAH000039	GAAH000062	406	1.5 or 1.75	0.55
450	GAAH000017	GAAH000040	GAAH000063	456	1.5 or 1.75	0.59
500	GAAH000018	GAAH000041	GAAH000064	506	1.5 or 1.75	0.64
550	GAAH000019	GAAH000042	GAAH000065	556	1.5 or 1.75	0.68
560	GAAH000020	GAAH000043	GAAH000066	566	1.5 or 1.75	0.69
600	GAAH000021	GAAH000044	GAAH000067	606	1.5 or 1.75	0.72
630	GAAH000022	GAAH000045	GAAH000069	636	1.5 or 1.75	0.75

Pull rings without seal GAAG



Pull rings without seal GAAG

Rings without seal for use with seals. The seals are sold separately depending on the sheet thickness used. For unpressurized, over-pressure or under-pressure systems.

❗ For assembly of ducting from 0.75 mm up to 3 mm.
Specify ducting thickness when ordering the seals.
(see seals GZFA, GZFB & GZFC)

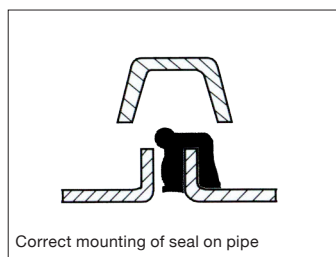
❗ Maximum tightening torque as of Ø450 : 15 Nm.

Material

Galvanized steel

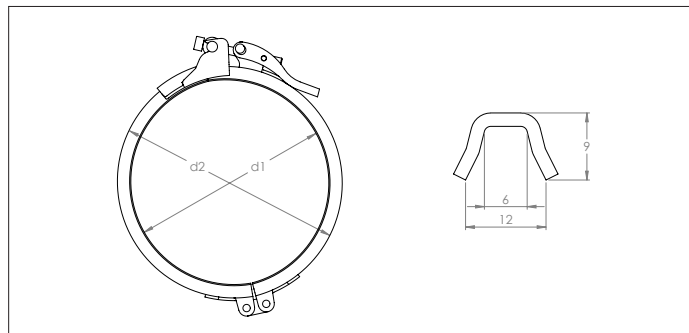
Options

- other diameters
- stainless steel AISI 304 (GBAG)



Ø	Code	Ød mm	S mm	Weight kg
80	GAAG000001	85	1.75	0.26
100	GAAG000002	105	1.75	0.29
120	GAAG000003	125	1.75	0.35
125	GAAG000024	130	1.75	0.35
140	GAAG000004	145	1.75	0.37
150	GAAG000005	155	1.75	0.39
160	GAAG000006	165	1.75	0.40
180	GAAG000008	185	1.75	0.42
200	GAAG000009	205	1.75	0.46
224	GAAG000010	229	1.75	0.51
250	GAAG000011	255	1.75	0.52
280	GAAG000013	285	1.75	0.53
300	GAAG000014	305	1.75	0.58
315	GAAG000015	320	1.75	0.61
350	GAAG000016	355	1.75	0.65
400	GAAG000017	405	1.75	0.71
450	GAAG000018	455	1.75	0.77
500	GAAG000019	505	1.75	0.83
550	GAAG000020	555	1.75	0.89
560	GAAG000021	565	1.75	0.91
600	GAAG000022	605	1.75	0.95
630	GAAG000023	635	1.75	0.99

Rapid lock rings without seal GAAE



Rapid lock rings without seal GAAE

Rings without seal for use with seals. The seals are sold separately depending on the sheet thickness used. For unpressurized, over-pressure or under-pressure systems.

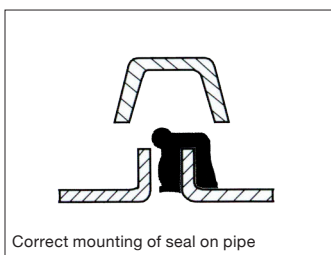
- ! For assembly of ducting from 0.75 mm up to 3 mm.
Specify ducting thickness when ordering the seals.
(see seals GZFA, GZFB & GZFC)

Material

Galvanized steel

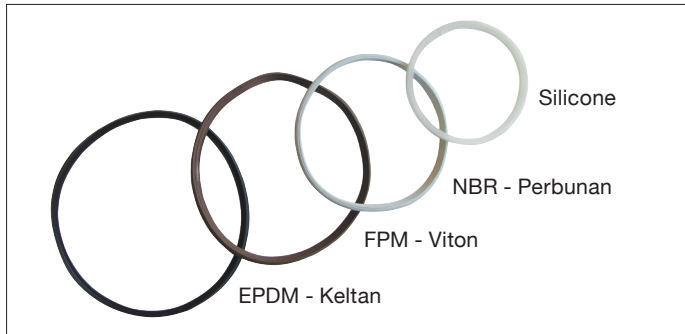
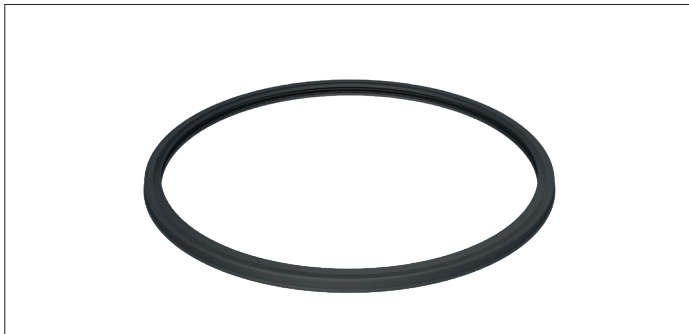
Options

- other diameters
- stainless steel AISI 304 (GBAE)



Ø	Code	Ød mm	S mm	Weight kg
80	GAAE000001	85	1.75	0.26
100	GAAE000002	105	1.75	0.29
120	GAAE000003	125	1.75	0.35
125	GAAE000023	130	1.75	0.35
140	GAAE000004	145	1.75	0.37
150	GAAE000005	155	1.75	0.39
160	GAAE000006	165	1.75	0.40
180	GAAE000008	185	1.75	0.42
200	GAAE000009	205	1.75	0.46
224	GAAE000010	229	1.75	0.51
250	GAAE000011	255	1.75	0.52
280	GAAE000012	285	1.75	0.53
300	GAAE000013	305	1.75	0.58
315	GAAE000014	320	1.75	0.61
350	GAAE000015	355	1.75	0.65
400	GAAE000016	405	1.75	0.71
450	GAAE000017	455	1.75	0.77
500	GAAE000018	505	1.75	0.83
550	GAAE000019	555	1.75	0.89
560	GAAE000020	565	1.75	0.91
600	GAAE000021	605	1.75	0.95
630	GAAE000022	635	1.75	0.99

Seal insert GZF for rings GAAG, GBAG, GAAE & GBAE



Seals GZF for rings GAAG, GBAG, GAAE & GBAE

Seals to mount on the lip of one pipe for extra airtightness. Use one seal per ring.

Available in EPDM (Keltan), NBR (Perbunan), FPM (Viton) or Silicone.

! For assembly of ducting from 1.0 up to 3.0 mm.
Only to be used with the rings GAAG, GBAG, GAAE & GBAE.

VITON models on request.

EPDM (Keltan) :

Material

Conductive and FDA conform Ethylene-Propylene rubber

Color

Black

Temperature range

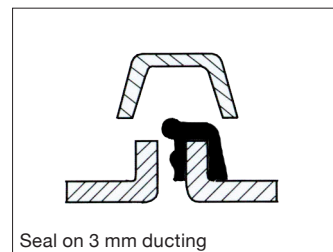
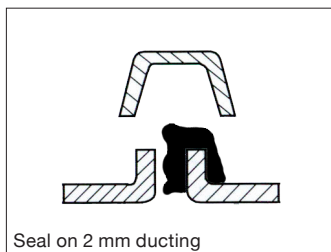
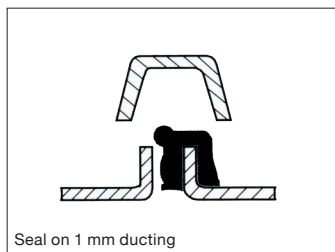
-40 °C up to +120 °C

Good resistance against :

Water, water vapour, acetone, ammonia, brine, methyl ethyl ketone, ozone, several acids, ageing and weathering

Little resistance against :

Mineral oils, fats, hydrocarbon fuels, heptane, pentane, toluene and chlorinated hydrocarbon



Ø	EPDM code			Ød mm	Thickness mm	Height mm
	1 mm	2 mm	3 mm			
80	GZFA000001	GZFA000023	-	74	7	8
100	GZFA000002	GZFA000024	-	94	7	8
120	GZFA000003	GZFA000025	-	114	7	8
125	GZFA000063	GZFA000064	-	119	7	8
140	GZFA000004	GZFA000026	-	134	7	8
150	GZFA000005	GZFA000027	GZFA000045	144	7	8
160	GZFA000006	GZFA000028	GZFA000046	154	7	8
180	GZFA000008	GZFA000030	GZFA000048	174	7	8
200	GZFA000009	GZFA000031	GZFA000049	194	7	8
225	GZFA000010	GZFA000032	GZFA000050	218	7	8
250	GZFA000011	GZFA000033	GZFA000051	244	7	8
275	GZFA000065	GZFA000066	GZFA000072	274	7	8
300	GZFA000013	GZFA000035	GZFA000053	294	7	8
315	GZFA000014	GZFA000036	GZFA000054	309	7	8
350	GZFA000015	GZFA000037	GZFA000055	344	7	8
400	GZFA000016	GZFA000038	GZFA000056	394	7	8
450	GZFA000017	GZFA000039	GZFA000057	444	7	8
500	GZFA000018	GZFA000040	GZFA000058	494	7	8
550	GZFA000019	GZFA000041	GZFA000059	544	7	8
600	GZFA000021	GZFA000043	GZFA000061	594	7	8
630	GZFA000022	GZFA000044	GZFA000062	624	7	8

Seal insert GZF for rings GAAG, GBAG, GAAE & GBAE

NBR (Perbunan) :

Color

Black

Good resistance against :

Chlorinated hydrocarbons, ammonia, heptane, pentane, organic and mineral oils and fats

Material

Conductive nitrile rubber

Temperature range

-20 °C up to +100 °C
(for short time +120 °C)

Little resistance against :

Acetone, weathering, methyl ethyl ketone, ozone, acids

Ø	NBR code			Ød mm	Thickness mm	Height mm
	1 mm	2 mm	3 mm			
80	GZFB000001	GZFB000023	-	74	7	8
100	GZFB000002	GZFB000024	-	94	7	8
120	GZFB000003	GZFB000025	-	114	7	8
125	GZFB000063	GZFB000065	-	119	7	8
140	GZFB000004	GZFB000026	-	134	7	8
150	GZFB000005	GZFB000027	GZFB000045	144	7	8
160	GZFB000006	GZFB000028	GZFB000046	154	7	8
180	GZFB000008	GZFB000030	GZFB000048	174	7	8
200	GZFB000009	GZFB000031	GZFB000049	194	7	8
225	GZFB000010	GZFB000032	GZFB000050	218	7	8
250	GZFB000011	GZFB000033	GZFB000051	244	7	8
275	GZFB000012	GZFB000034	GZFB000052	274	7	8
300	GZFB000013	GZFB000035	GZFB000053	294	7	8
315	GZFB000014	GZFB000036	GZFB000054	309	7	8
350	GZFB000015	GZFB000037	GZFB000055	344	7	8
400	GZFB000016	GZFB000038	GZFB000056	394	7	8
450	GZFB000017	GZFB000039	GZFB000057	444	7	8
500	GZFB000018	GZFB000040	GZFB000058	494	7	8
550	GZFB000019	GZFB000041	GZFB000059	544	7	8
600	GZFB000021	GZFB000043	GZFB000061	594	7	8
630	GZFB000022	GZFB000044	GZFB000062	624	7	8

SILICONE :

Color

Transparent

Good resistance against :

Water/steam (up to 120 °C), acetone, ammonia (gas and in water), ozone, several organic oils and fats, brine, ageing and weathering, suitable for food

Material

FDA conform Silicone

Temperature range

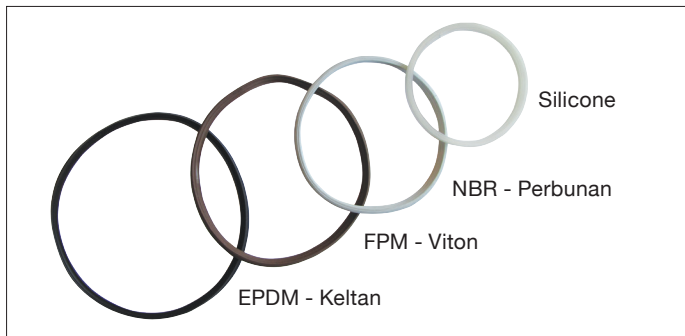
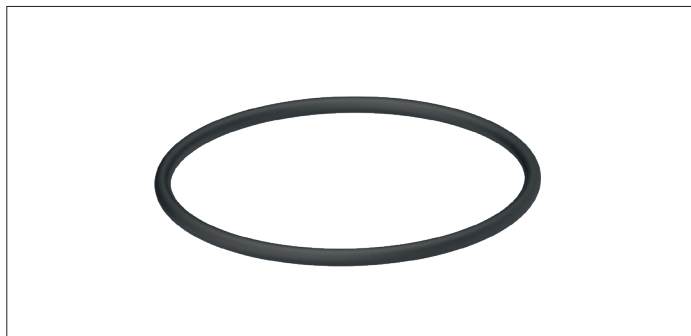
Transparent -60 °C up to + 200 °C,
(for short time +250 °C)

Little resistance against :

Mineral oils, fats, hydrocarbon fuels, acids, heptane

Ø	SILICONE code			Ød mm	Thickness mm	Height mm
	1 mm	2 mm	3 mm			
80	GZFC000001	GZFC000023	-	74	7	8
100	GZFC000002	GZFC000024	-	94	7	8
120	GZFC000003	GZFC000025	-	114	7	8
125	GZFC000063	GZFC000065	-	119	7	8
140	GZFC000004	GZFC000026	GZFC000071	134	7	8
150	GZFC000005	GZFC000027	GZFC000045	144	7	8
160	GZFC000006	GZFC000028	GZFC000046	154	7	8
180	GZFC000008	GZFC000030	GZFC000048	174	7	8
200	GZFC000009	GZFC000031	GZFC000049	194	7	8
225	GZFC000010	GZFC000032	GZFC000050	218	7	8
250	GZFC000011	GZFC000033	GZFC000051	244	7	8
275	GZFC000064	GZFC000066	GZFC000072	274	7	8
300	GZFC000013	GZFC000035	GZFC000053	294	7	8
315	GZFC000014	GZFC000036	GZFC000054	309	7	8
350	GZFC000015	GZFC000037	GZFC000055	344	7	8
400	GZFC000016	GZFC000038	GZFC000056	394	7	8
450	GZFC000017	GZFC000039	GZFC000057	444	7	8
500	GZFC000018	GZFC000040	GZFC000058	494	7	8
550	GZFC000019	GZFC000041	GZFC000059	544	7	8
600	GZFC000021	GZFC000043	GZFC000061	594	7	8
630	GZFC000022	GZFC000044	GZFC000062	624	7	8

Telescope seal insert GZF for rings GAAG, GBAG, GAAE & GBAE



Telescope seals GZF for rings GAAG, GBAG, GAAE & GBAE

Seals to mount on the telescope pipe side to come against the lip of the standard pipe to ensure airtightness. Use one seal per ring.

Available in EPDM (Keltan), NBR (Perbunan), FPM (Viton) or Silicone.

! For assembly of ducting from 1.0 up to 3.0 mm.
Only to be used with the rings GAAG, GBAG, GAAE & GBAE.

VITON models on request.

EPDM (Keltan) :

Material

Ethylene-Propylene rubber

Color

Black

Temperature range

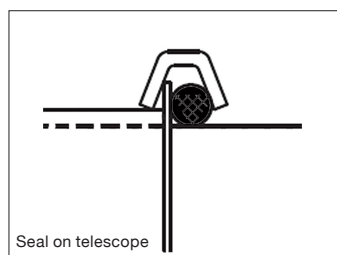
-30 °C up to +130 °C

Good resistance against :

Water, water vapour, acetone, ammonia, brine, methyl ethyl ketone, ozone, several acids, ageing and weathering

Little resistance against :

Mineral oils, fats, hydrocarbon fuels, heptane, pentane, toluene and chlorinated hydrocarbon



Ø	EPDM code	Ød mm	Height mm
80	GZFE000001	75	9
100	GZFE000002	95	9
120	GZFE000003	114	9
140	GZFE000004	131	9
150	GZFE000005	144	9
160	GZFE000006	154	9
175	GZFE000007	169	9
200	GZFE000008	194	9
224	GZFE000009	215	9
250	GZFE000010	244	9
280	GZFE000011	274	9
300	GZFE000012	294	9
315	GZFE000013	309	9
350	GZFE000014	344	9
400	GZFE000015	394	9

Telescope seal insert GZF for rings GAAG, GBAG, GAAE & GBAE
NBR (Perbunan) :
Color

Black

Good resistance against :

Chlorinated hydrocarbons, ammonia, heptane, pentane, organic and mineral oils and fats

Material

Nitrile rubber

Temperature range

-30 °C up to +90 °C

Little resistance against :

Acetone, weathering, methyl ethyl ketone, ozone, acids

Ø	NBR code	Ød mm	Height mm
80	GZFF000001	75	9
100	GZFF000002	95	9
120	GZFF000003	114	9
140	GZFF000004	131	9
150	GZFF000005	144	9
160	GZFF000006	154	9
175	GZFF000007	169	9
200	GZFF000008	194	9
224	GZFF000009	215	9
250	GZFF000010	244	9
280	GZFF000011	274	9
300	GZFF000012	294	9
315	GZFF000013	309	9
350	GZFF000014	344	9
400	GZFF000015	394	9

SILICONE :
Color

Transparent

Good resistance against :

Water/steam (up to 120 °C), acetone, ammonia (gas and in water), ozone, several organic oils and fats, brine, ageing and weathering, suitable for food

Material

Silicone

Temperature range

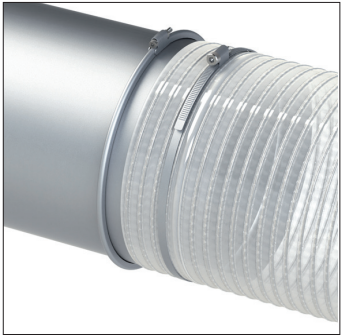
 Transparent -50 °C up to + 200 °C,
 (for short time +250 °C)

Little resistance against :

Mineral oils, fats, hydrocarbon fuels, acids, heptane

Ø	SILICONE code	Ød mm	Height mm
80	GZFG000001	75	9
100	GZFG000002	95	9
120	GZFG000003	114	9
140	GZFG000004	131	9
150	GZFG000005	144	9
160	GZFG000006	154	9
175	GZFG000007	169	9
200	GZFG000008	194	9
224	GZFG000009	215	9
250	GZFG000010	244	9
280	GZFG000011	274	9
300	GZFG000012	294	9
315	GZFG000013	309	9
350	GZFG000014	344	9
400	GZFG000015	394	9

Hose rings GADA



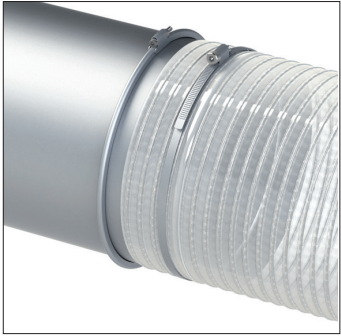
Hose rings GADA
 Thin hose rings for all types of flexible hoses.

Material
 Galvanized steel

Options
 - other diameters
 - stainless steel AISI 304

Ø	Code	Weight kg
50	GADA900008	0.03
80	GADA000001	0.04
100	GADA000002	0.06
120	GADA000003	0.07
125	GADA000015	0.07
140	GADA000004	0.08
150	GADA000005	0.08
160	GADA000006	0.08
180	GADA000007	0.09
200	GADA000008	0.09
225	GADA000009	0.09
250	GADA000010	0.09
275	GADA000011	0.09
300	GADA000012	0.10
350	GADA000013	0.10

Hose rings GZDA



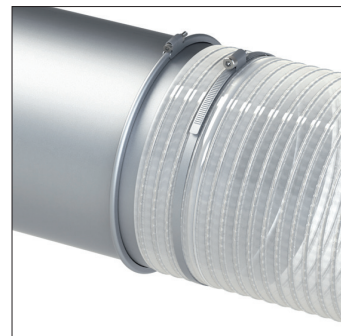
Hose rings GZDA
 9 mm adjustable hose rings with screw for quick mounting of a flexible hose.

Material
 Stainless steel AISI 430

Options
 - other diameters

Ø	Code	Width (mm)	Weight kg
25-100	GZDA000001	9	0.02
25-125	GZDA900003	9	0.02
25-150	GZDA000002	9	0.02
25-175	GZDA000003	9	0.03
25-225	GZDA000004	9	0.04
60-270	GZDA000005	9	0.05
60-325	GZDA000006	9	0.06

Bridge clamps for hoses GADA



Bridge clamps for hoses GADA

Special hose rings for all flexible hoses with an external spiral.

Material

Galvanized steel

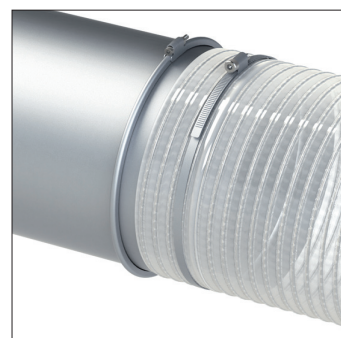
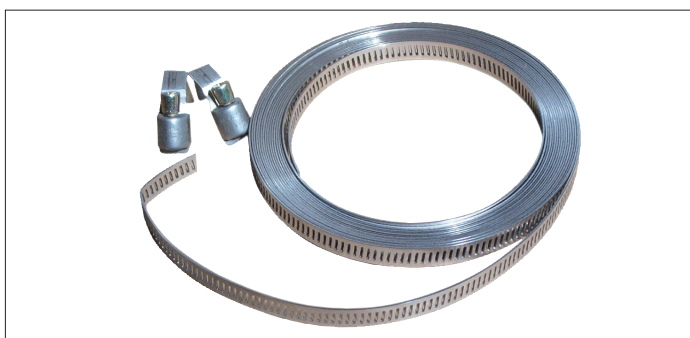
Options

- Other diameters
- Stainless steel AISI 304
- With quick release

! Left and right models available.

Ø	Product group	Width (mm)	Weight kg
45-65	GADA	12	0.01
55-75	GADA	12	0.01
75-95	GADA	12	0.02
85-105	GADA	12	0.02
95-115	GADA	12	0.02
100-120	GADA	12	0.02
115-135	GADA	12	0.02
145-165	GADA	12	0.02
155-175	GADA	12	0.03
195-215	GADA	12	0.03
245-265	GADA	12	0.04
275-295	GADA	12	0.05
295-315	GADA	12	0.06
345-365	GADA	12	0.07
395-415	GADA	12	0.10
495-515	GADA	12	0.15
695-715	GADA	12	0.20

Universal clamps for hoses GZZB



Universal clamps for hoses GZZB

Stainless steel universal clamps 'Serflex', roll of 25 m, 8 mm wide. Box of 50 locks sold separately (GZZC).

Material

Stainless steel AISI 430

Model	Code	Width (mm)	Weight kg
Clamp	GZZB000001	8	1.00
Locks	GZZC000001	-	0.07

Reinforced hose rings GADB



Reinforced hose rings GADB

Special hose rings, heavy-duty application for heavy flexible hoses or high pressures.

! Maximum tightening torque : 25 Nm.

Material

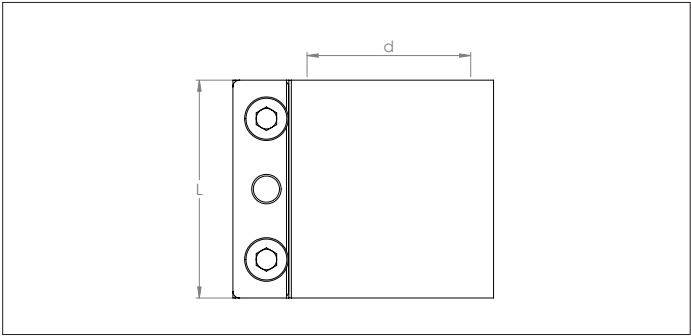
Band : 25 x 1 mm St 12.03 steel DIN 1623, galvanized Cr3
Bolts : M8 x 60/80, DIN 912, 8.8

Options

- other diameters
- stainless steel AISI 304

Hose Ø	Code	Ext. Ød mm	Weight kg
32	GADB000001	32-40	0.10
50	GADB000002	60-70	0.20
60	GADB000003	70-80	0.20
76	GADB000004	85-95	0.30
89	GADB000005	90-100	0.30
102	GADB000006	110-120	0.30
114	GADB000007	120-130	0.30
127	GADB000008	140-150	0.30
152	GADB000009	160-175	0.40
203	GADB000010	210-225	0.50

Pipe connectors GACA



Pipe connectors GACA

Light pipe connectors with conductive black EPDM rubber seal for assembly of high vacuum components.

! Standard length of 70 and 150 mm.

Material

Exterior housing : galvanized steel

Seal : conductive EPDM rubber

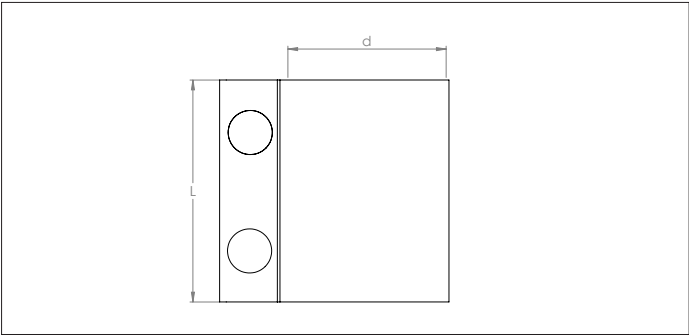
Bolts : 2 (70mm) or 3 (150mm) galvanized allen screws

Options

- none

Ø	Code	Ød mm	L mm	Weight kg
50	GACA000001	50	70	0.30
63	GACA000002	63	70	0.30
76	GACA000003	76	70	0.30
102	GACA000004	102	70	0.40
127	GACA000005	127	70	0.60
152	GACA000008	152	150	1.50
203	GACA000009	203	150	2.00

Medium FA pipe connector GACB



Medium FA pipe connector GACB

Medium pipe connectors with rubber seal and conductive buttons for the assembly of high vacuum components.

The conductivity buttons insure the equipotential connection between the ducting elements.

- ! Standard length of 100 and 150 mm.
- ! Maximum tightening torque of M8 bolt : 16 Nm.

Material

Exterior housing : galvanized steel
Seal : black SBR rubber -30 °C up to +80 °C
Bolts : 2 galvanized M8 bolt and nut for 100 mm,
3 galvanized M8 bolt and nut for 150 mm
Conductive buttons : AISI 304L

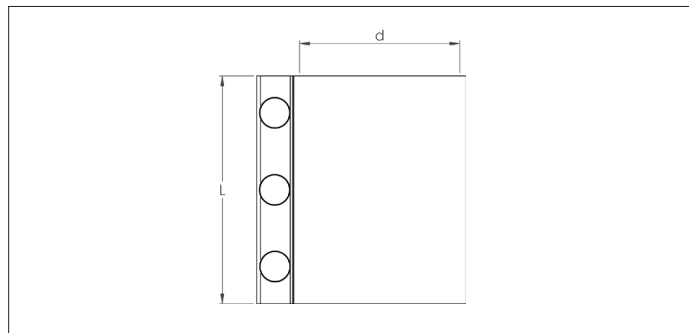
Options

- none



Ø	Code	Ød mm	L mm	Weight kg
38	GACB000005	38.1	100	0.35
50	GACB000006	50.0	100	0.50
64	GACB000007	63.5	100	0.55
76	GACB000008	76.1	100	0.38
89	GACB000009	88.9	100	0.41
102	GACB000010	101.6	150	0.70
114	GACB000011	114.3	150	0.75

Pipe connector GACC



Pipe connectors GACC

Reinforced pipe connectors with rubber seal and conductive buttons for the assembly of high vacuum components. The conductivity buttons insure the equipotential connection between the ducting elements.

- ❗ Standard length of 150 mm.
- ❗ Maximum tightening torque of M12 bolt : 60 Nm.
Maximum tightening torque of M16 bolt : 120 Nm.

Material

Exterior housing : galvanized steel
Seal : white SBR rubber -30 °C up to +80 °C
Bolts : M12 bolts up to Ø 88.9 mm,
M16 for bigger diameters
Conductive buttons : AISI 304L

Options

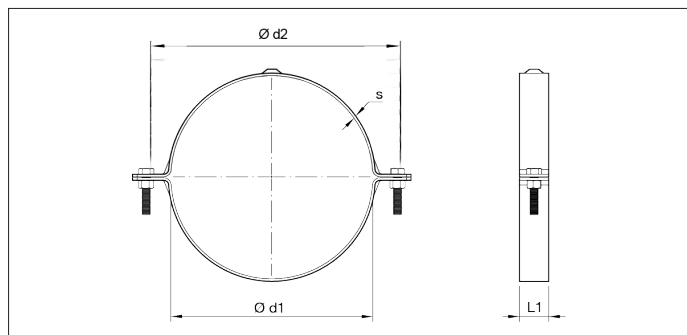
- other diameters
- stainless steel AISI 304 L with white NBR seal (GBCC)
- other length : 200 mm
- other seals : NBR, Silicone, Viton
- with stabilizing plates
- for assembly of different diameters



AISI 304 conductivity button

Ø	Code	Ød mm	L mm	Weight (L=150) kg
38	GACC000011	38.1	150	0.70
50	GACC000012	50.0	150	0.80
64	GACC000013	63.5	150	0.90
76	GACC000014	76.1	150	1.00
89	GACC000015	88.9	150	1.00
102	GACC000016	101.6	150	1.10
114	GACC000017	114.3	150	1.20
127	GACC000018	127.0	150	1.30
152	GACC000019	152.4	150	1.45
203	GACC000020	203.0	150	1.94

Mounting brackets GAEA



Mounting brackets GAEA

For the suspension of ducting on an existing structure. Delivered with 2x M8x40 bolts for assembly.

Can be mounted on a threaded rod (GAZF) by means of a connection muff (see GAZD).

Material

Galvanized steel

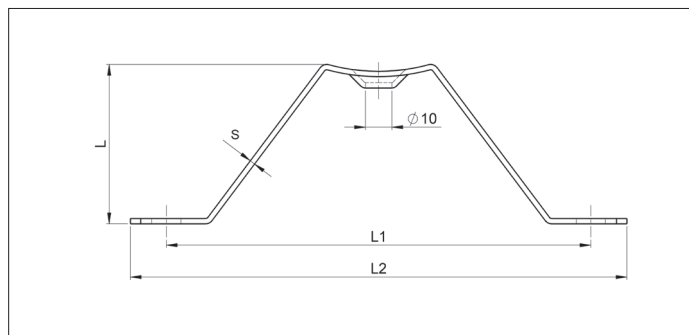
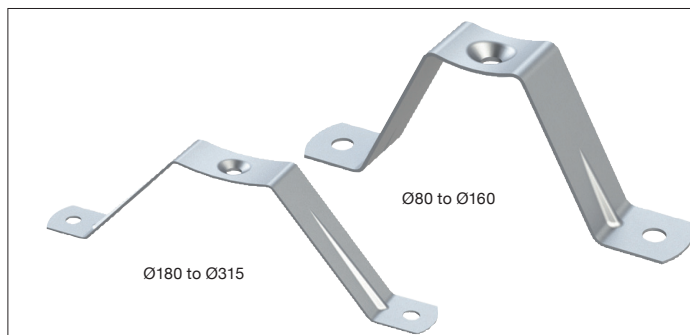
Options

- other diameters
- reinforced RAL painted execution



Ø	Code	Ø2 mm	L1 mm	s mm	Weight kg
80	GAEA000001	120	28	2.5	0.20
100	GAEA000002	140	28	2.5	0.24
120	GAEA000003	160	28	2.5	0.28
125	GAEA000029	165	28	2.5	0.29
140	GAEA000004	180	28	2.5	0.32
150	GAEA000005	190	28	2.5	0.34
160	GAEA000006	200	28	2.5	0.35
180	GAEA000007	220	28	2.5	0.38
200	GAEA000008	240	28	2.5	0.42
225	GAEA000009	265	28	2.5	0.46
250	GAEA000010	290	28	2.5	0.49
275	GAEA000011	315	28	2.5	0.52
300	GAEA000012	340	28	2.5	0.56
315	GAEA000013	355	28	2.5	0.58
350	GAEA000014	400	40	3	1.15
400	GAEA000015	450	40	3	1.31
450	GAEA000016	500	40	3	1.47
500	GAEA000017	550	40	3	1.61
550	GAEA000018	600	40	3	1.76
600	GAEA000019	650	40	3	1.89
630	GAEA000020	680	40	3	1.97
650	GAEA000021	700	40	3	2.04
700	GAEA000022	750	40	3	2.20
750	GAEA000023	800	40	3	2.37
800	GAEA000024	850	40	3	2.53
850	GAEA000025	900	40	3	2.69
900	GAEA000026	950	40	3	2.86
950	GAEA000027	1000	40	3	3.3
1000	GAEA000028	1050	40	3	3.19

Mounting brackets legs GAEC & GAED



Mounting brackets legs GAEC & GAED

Legs for wall or ceiling mounting of the mounting brackets GAEA & GAEB.

Material

Galvanized steel

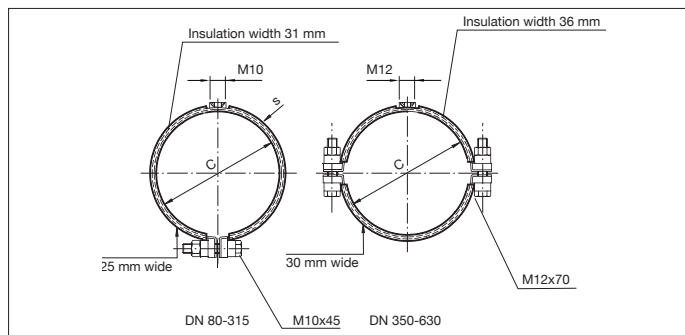
Options

- reinforced RAL 7032 painted execution
- other lengths GAED



Ø	Code	L mm	L1 mm	L2 mm	Width mm	s mm	Weight kg
80 to 160	GAEC000001	65	135	165	28	2.5	0.13
180 to 315	GAEC000002	65	210	240	28	2.5	0.16
350	GAED000001	235	-	-	40	3	0.27
400	GAED000002	260	-	-	40	3	0.30
450	GAED000003	285	-	-	40	3	0.34
500	GAED000004	310	-	-	40	3	0.34
550	GAED000005	335	-	-	40	3	0.36
600	GAED000006	360	-	-	40	3	0.37
630	GAED000007	380	-	-	40	3	0.38
650	GAED000008	390	-	-	40	3	0.40
700	GAED000009	463	-	-	40	3	0.41
750	GAED000010	490	-	-	40	3	0.42
800	GAED000011	515	-	-	40	3	0.43
850	OCSUP850	540	-	-	40	3	0.44

Mounting brackets GAEG for ceiling mounting



Mounting brackets GAEG for ceiling mounting

For the suspension of ducting on an existing structure. Delivered with 1x bolt M10x45 (Ø80 to 315), or 2x bolts M12x70 (Ø350 to 630).

Can be mounted on a threaded rod (GAZF) by means of the integrated M10 (Ø80 to 315), or M12 (Ø350 to 630) connection.

Material

Galvanized steel

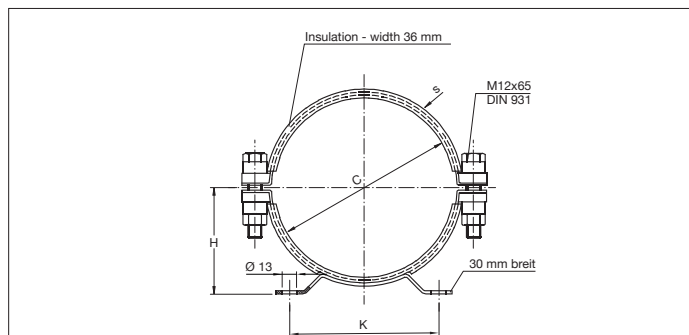
EPDM seal, Temperature range -20°C up to +90°C

Options

- stainless steel AISI 304 (GBEG)

Ø	Code	Width mm	s mm	Weight kg
80	GAEG000001	25	1.5	0.20
100	GAEG000002	25	1.5	0.24
120	GAEG000003	25	1.5	0.28
140	GAEG000004	25	1.5	0.32
150	GAEG000005	25	1.5	0.34
160	GAEG000006	25	1.5	0.35
175	GAEG000007	25	1.5	0.38
200	GAEG000008	25	1.5	0.42
224	GAEG000009	25	1.5	0.46
250	GAEG000010	25	1.5	0.49
280	GAEG000011	25	1.5	0.52
300	GAEG000012	25	1.5	0.56
315	GAEG000013	25	1.5	0.58
350	GAEG000014	30	2.5	1.15
400	GAEG000015	30	2.5	1.31
450	GAEG000016	30	2.5	1.47
500	GAEG000017	30	2.5	1.61
550	GAEG000018	30	2.5	1.76
560	GAEG000019	30	2.5	1.81
600	GAEG000020	30	2.5	1.89
630	GAEG000021	30	2.5	1.97

Mounting brackets GAEF for wall mounting



Mountingbrackets GAEG for ceiling mounting

For the suspension of ducting on an existing structure. Delivered with 2x M12x65 bolts for assembly.

Material

Galvanized steel

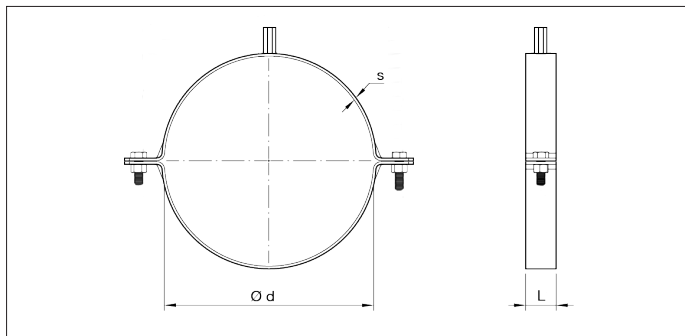
EPDM seal, Temperature range -20°C up to +90°C

Options

- stainless steel AISI 304 (GBEF)

Ø	Code	H mm	K mm	Width mm	s mm	Weight kg
80	GAEF000001	64	138	25	1.5	0.28
100	GAEF000002	75	138	25	1.5	0.32
120	GAEF000003	86	138	25	1.5	0.36
140	GAEF000004	94	138	25	1.5	0.40
150	GAEF000005	101	148	25	1.5	0.42
160	GAEF000006	108	148	25	1.5	0.43
175	GAEF000007	113	148	25	1.5	0.46
200	GAEF000008	126	148	25	1.5	0.50
224	GAEF000009	136	148	25	1.5	0.54
250	GAEF000010	151	230	25	1.5	0.57
280	GAEF000011	166	230	25	1.5	0.60
300	GAEF000012	176	230	25	1.5	0.64
315	GAEF000013	195	230	25	1.5	0.66
350	GAEF000014	204	260	30	2.5	1.23
400	GAEF000015	228	260	30	2.5	1.39
450	GAEF000016	254	300	30	2.5	1.55
500	GAEF000017	279	300	30	2.5	1.69
550	GAEF000018	300	350	30	2.5	1.84
560	GAEF000019	309	350	30	2.5	1.89
600	GAEF000020	321	350	30	2.5	1.97
630	GAEF000021	344	350	30	2.5	2.05

Mounting brackets with M8/10 insert GBEA



Mounting brackets with M8/M10 insert GBEA

For the suspension of ducting on an existing structure. Delivered with integrated M8/M10 bolt.

Can be mounted on a threaded rod (GAZF) by means of a connection muff (see GAZD).

Material

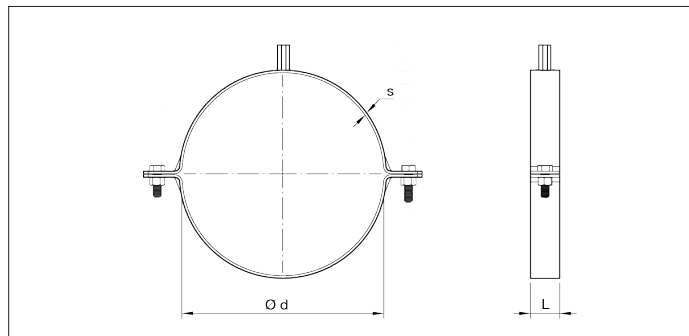
Stainless steel AISI 304

Options

- other diameters

Ø	Code	L mm	s mm	Weight kg
80	GBEA000001	30	2	0.16
100	GBEA000002	30	2	0.19
120	GBEA000003	30	2	0.22
125	GBEA000003	30	2	0.22
140	GBEA000004	30	2	0.24
150	GBEA000005	30	2	0.25
160	GBEA000006	30	2	0.28
180	GBEA000007	30	2	0.31
200	GBEA000008	30	2	0.33
225	GBEA000009	30	2	0.36
250	GBEA000010	30	2	0.39
275	GBEA000011	30	2	0.44
300	GBEA000012	30	2	0.46
315	GBEA000013	30	2	0.48
350	GBEA000014	30	2	0.53
400	GBEA000015	30	2	0.57
450	GBEA000016	30	2	0.63
500	GBEA000017	30	2	0.69

Mounting brackets with M8/M10 insert GAEE



Mounting brackets with M8/M10 insert GAEE without seal

Galvanized mounting brackets for the suspension of ducting on an existing structure.

Can be mounted on a threaded rod (GAZF) by means of the integrated M8/M10 bolt.

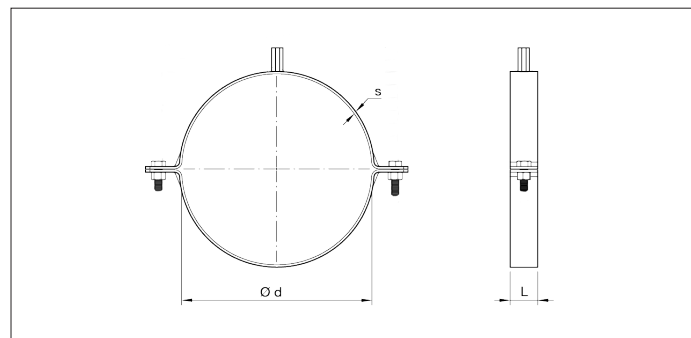
Material

Galvanized steel

Options

- other diameters
- with seal insert (QCØAMR)

Ø	Code group without seal	L mm	s mm	Weight kg
38	GAEE	20	2	0.04
50	GAEE	20	2	0.05
63	GAEE	20	2	0.07
76	GAEE	20	2	0.09
102	GAEE	20	2	0.13
127	GAEE	20	2	0.16
152	GAEE	20	2	0.17
203	GAEE	20	2	0.20



Mounting brackets with M8/M10 insert GAEE with seal

Galvanized mounting brackets with integrated rubber seal for the suspension of ducting on an existing structure.

Can be mounted on a threaded rod (GAZF) by means of the integrated M8/M10 bolt.

Material

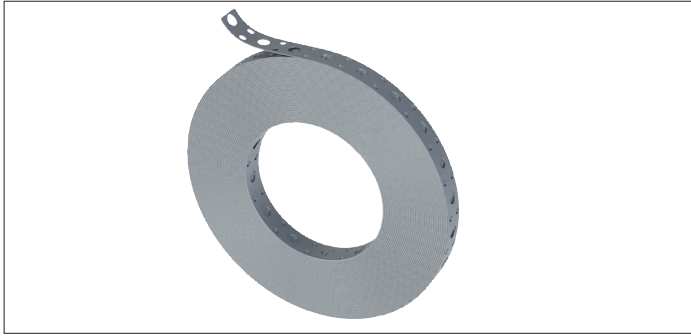
Galvanized steel

Options

- other diameters

Ø	Code with seal	L mm	s mm	Weight kg
38	GAEE000001	20	2	0.05
50	GAEE000002	20	2	0.06
63	GAEE000003	20	2	0.08
76	GAEE000004	20	2	0.10
89	GAEE000005	20	2	0.13
102	GAEE000006	20	2	0.15
114	GAEE000007	20	2	0.16
127	GAEE000008	20	2	0.17
152	GAEE000009	20	2	0.19
203	GAEE000010	20	2	0.22

Mounting accessories



Suspension strips GAZA

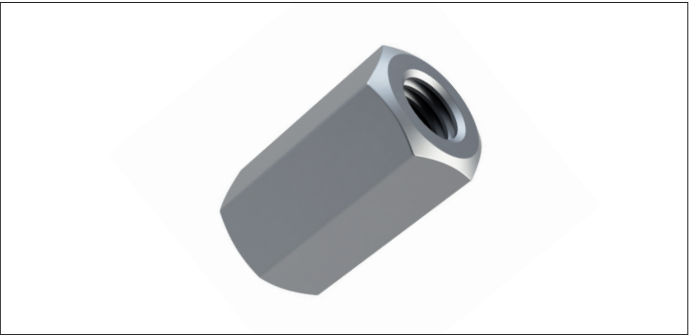
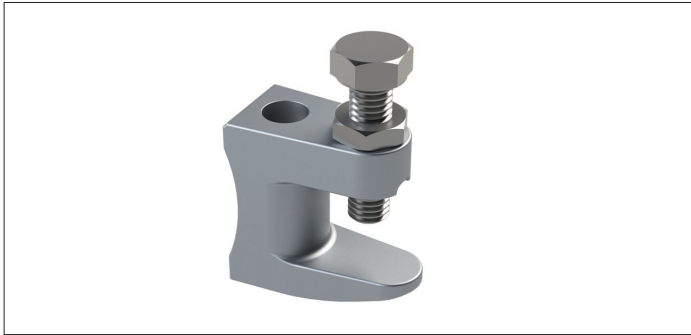
Suspension elements to be used for light loads. It can be directly affixed to the ceiling or structure. Made in galvanized steel.

Flat screws GAZE

Suspension elements, available in M8 or M10, made of galvanized steel.

Width mm	Code	Length m
17	GAZA000001	25
25	GAZA000002	25

Code	Size	Weight
GAZE000001	M8	0.01
GAZE000002	M10	0.02



Suspension clamps GAZB

Suspension elements, available in M8 or M10, made of galvanized steel.

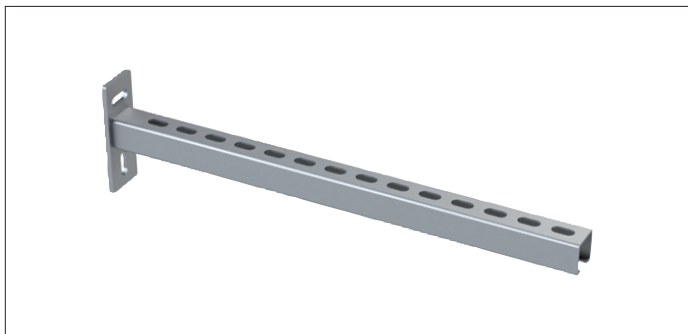
Connection muffers GAZD

Suspension elements, available in M8 or M10, made of galvanized steel.

Code	Size	Weight
GAZB000001	M8	0.10
GAZB000002	M10	0.12

Code	Size	Weight
GAZD000001	M8	0.02
GAZD000002	M10	0.02

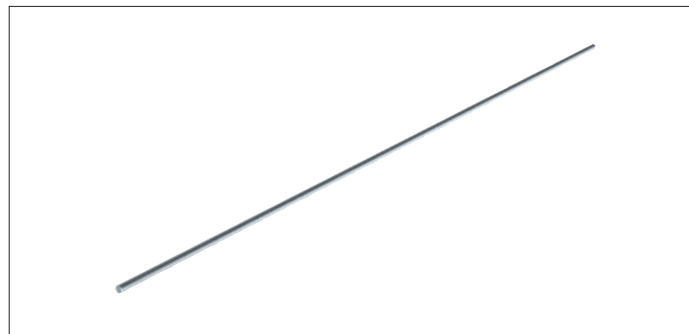
Mounting accessories



Suspension rails GAZC

Suspension elements, made of galvanized steel.

Length mm	Code	Weight
300	GAZC000001	0.50
450	GAZC000002	0.80
600	GAZC000003	1.10
750	GAZC000004	1.70
800	GAZC000005	1.90
1000	GAZC000006	2.30

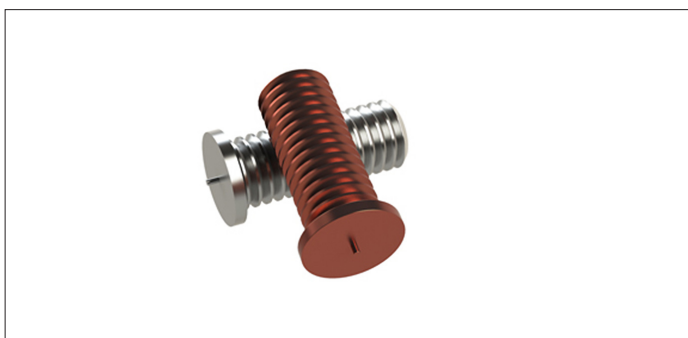


Threaded rods GAZF

Suspension elements, available in M8 or M10, made of galvanized steel.

Standard length : 1000 mm

Code	Size	Weight
GAZF000001	M8	0.30
GAZF000002	M10	0.40



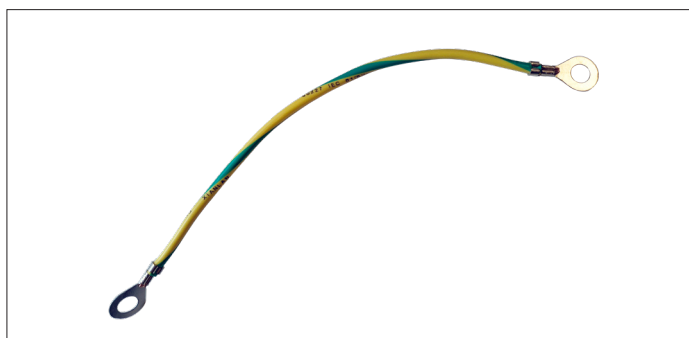
Earthing bolts

Placed on the light gauge ducting components to attach the earthing strap from one component to another.

Material

Brass for galvanized ducting or in Stainless steel for Stainless steel ducting. Including nut and plastic protection cap.

Model	Code	Size
Brass	GAZH000001	M6 x 15
AISI 304	GBZH000001	M6 x 15



Earthing strap GZZJ

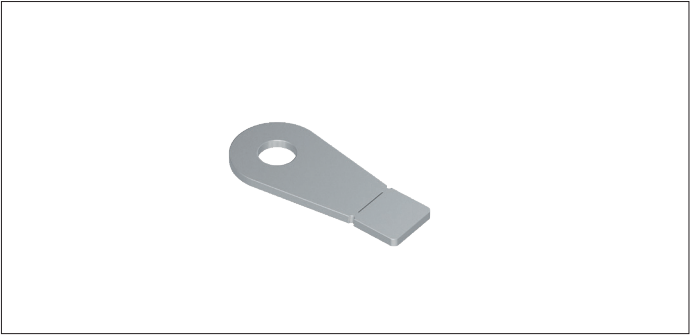
Used for the earthing of two elements, it ensures the conductivity within an installation. It can be affixed on a pipe with self-drilling screws or with earthing lugs.

Material

M6 PVC coated Ø3mm copper cable (green/yellow).

Length mm	Code	Weight
200	GZZJ000001	0.01

Mounting accessories



Earthing bolts GBZH

Placed on the heavy gauge ducting components to attach the earthing strap from one component to another. Delivered with a protective cap.

Material

Stainless steel AISI 304

Earthing lugs GBZG

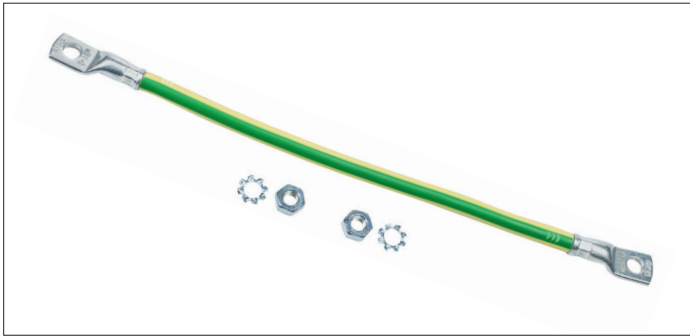
Placed on the heavy gauge ducting components to attach the earthing strap from one component to another. 10 pieces in a plastic bag.

Material

Stainless steel AISI 304

Model	Code	Size
AISI 304	GBZH000002	M6 x 15

Model	Code	Size
AISI 304	GBZG000001	M6



Earthing strap GZZJ

Used for the earthing of two elements, it ensures the conductivity within an installation. It can be affixed on a pipe with self-drilling screws or with earthing lugs.

Material

M6 PVC coated Ø7mm copper cable (green/yellow). 10 pieces in a plastic bag, including 2x serrated lock washers and nuts per cable.

Code	Length mm	Weight kg
GZZJ000006	120	0.10
GZZJ000007	230	0.20
GZZJ000008	330	0.30
GZZJ000009	430	0.40