

Ball Catches

Zinc Die Casting / Stainless Steel

SPECIFICATION

Type ball housing

- Type **A1**: With countersunk holes, normal holding force
- Type **A2**: With countersunk holes, enhanced holding force
- Type **B1**: With internal thread, normal holding force
- Type **B2**: With internal thread, enhanced holding force

Type retaining element

- Type **AG**: With countersunk holes, straight
- Type **BG**: With internal thread, straight

Ball housing / Retaining element

- Zinc die casting **ZD**
Powder coated
 - Black, RAL 9005, textured finish **SW**
 - Silver, RAL 9006, textured finish **SR**
- Stainless steel AISI 630 **NI**
Matte, shot-blasted **GS**

Ball

- Stainless steel AISI 420C for ZD
- Ceramic, silicon nitride, black for NI

Spring

- Stainless steel AISI 301 for ZD
- Stainless steel AISI 316Ti for NI

Ball guide

Plastic, Polyacetal (POM)



INFORMATION

Ball catches GN 4490 are used, for example, to hold flaps and doors closed that must be opened and closed frequently and easily. The ball catches consist of a ball housing and a retaining element that snaps into the ball housing from the side or front.

Depending on the installation situation, the use of mounting plates GN 4490.1 (see page) may be required (see application examples). The slotted holes facilitate positioning. Depending on the slot width, mounting plates GN 4490.2 (see page) must be used when fastening the mounting blocks to aluminum profiles.

ACCESSORY

- GN 4490.1 Mounting Plates (for Ball Housings) (see page)
- GN 4490.2 Mounting Plates (for Retaining Elements) (see page)

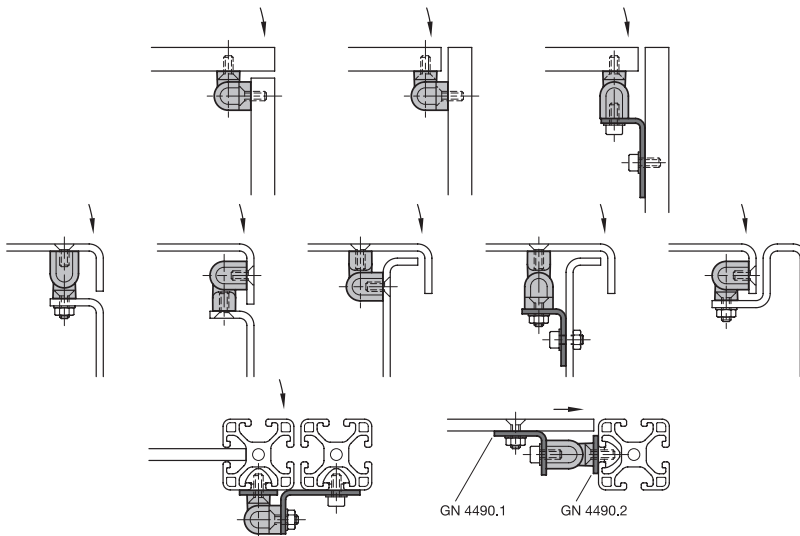
ON REQUEST

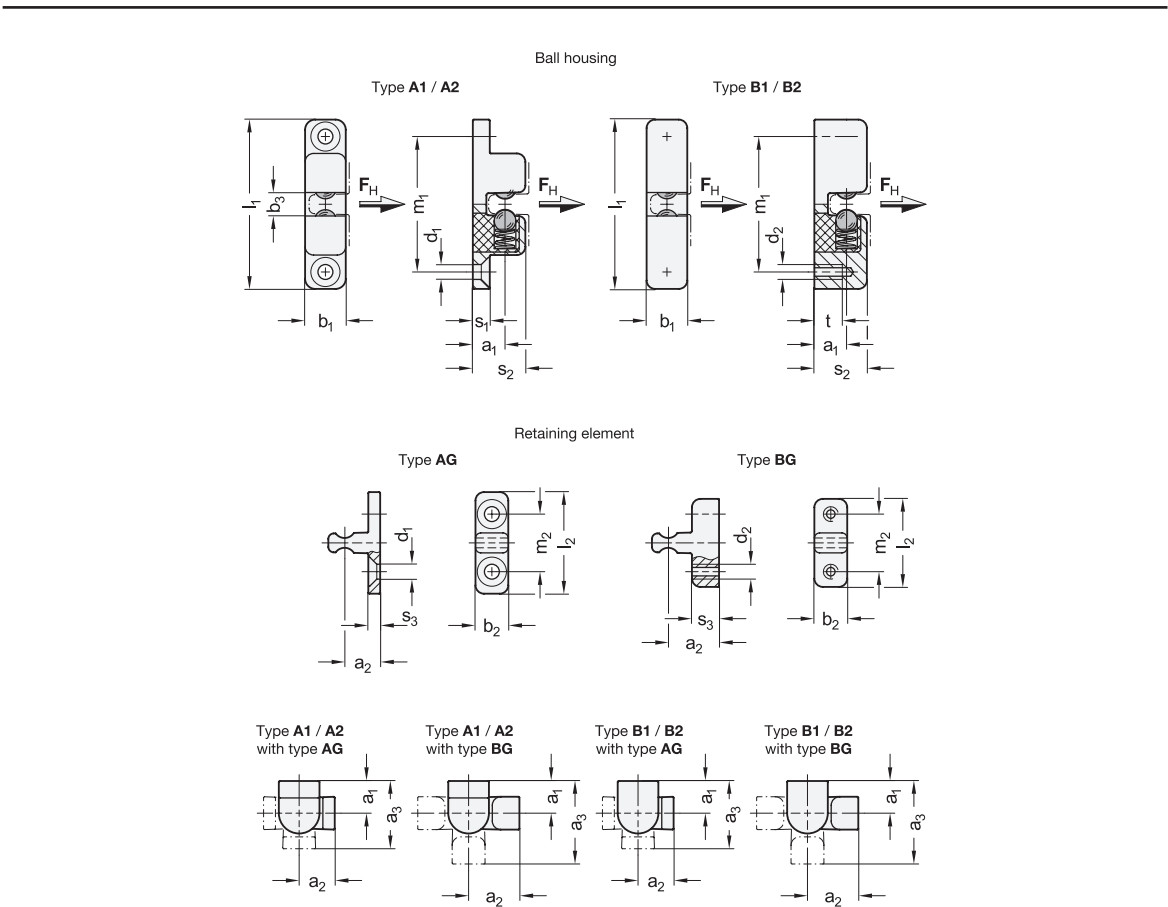
- Other colors / finishes

TECHNICAL INFORMATION

- Plastic Characteristics (see page A2)
- Stainless Steel Characteristics (see page A26)

Application examples





* Complete with color index (SW or SR)

SW

SR

RAL9005RAL9006

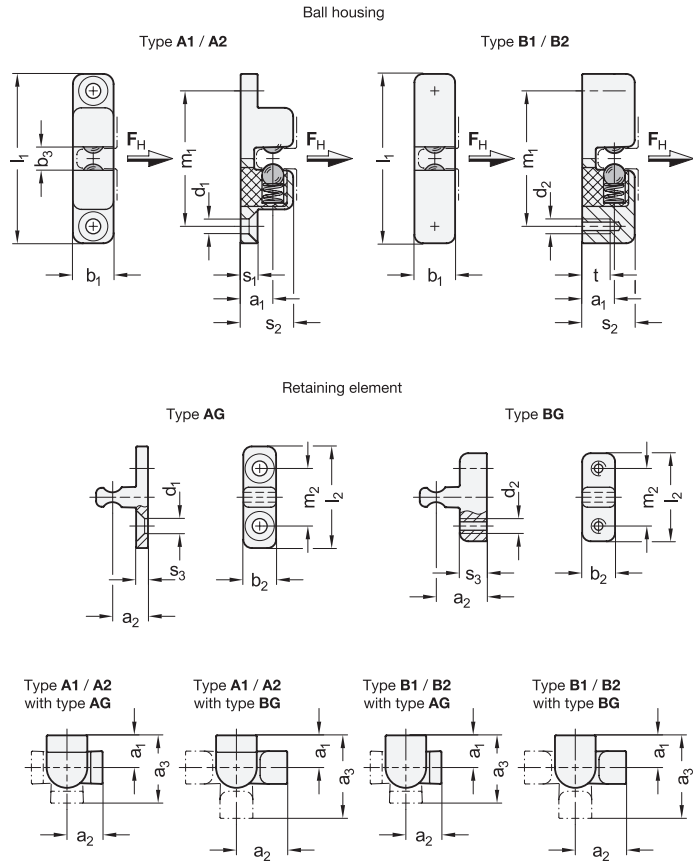
GN 4490-ZD-A-AG

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force FH in N ≈	
GN 4490-ZD-38-A1-AG-*	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	25	12
GN 4490-ZD-38-A2-AG-*	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	35	12
GN 4490-ZD-50-A1-AG-*	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	40	32
GN 4490-ZD-50-A2-AG-*	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	70	32
GN 4490-ZD-68-A1-AG-*	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	75	57
GN 4490-ZD-68-A2-AG-*	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	100	57
GN 4490-ZD-80-A1-AG-*	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	125	90
GN 4490-ZD-80-A2-AG-*	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	9	150	90

GN 4490-ZD-A-BG

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force FH in N ≈	
GN 4490-ZD-38-A1-BG-*	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	25	14
GN 4490-ZD-38-A2-BG-*	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	35	14
GN 4490-ZD-50-A1-BG-*	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	40	36
GN 4490-ZD-50-A2-BG-*	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	70	36
GN 4490-ZD-68-A1-BG-*	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	75	62
GN 4490-ZD-68-A2-BG-*	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	100	62
GN 4490-ZD-80-A1-BG-*	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	125	102
GN 4490-ZD-80-A2-BG-*	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	150	102

Weight SW



* Complete with color index (SW or SR)

 SW	 SR
RAL9005	RAL9006

GN 4490-ZD-B-AG

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force F _H in N ≈	
GN 4490-ZD-38-B1-AG-*	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	25	18
GN 4490-ZD-38-B2-AG-*	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	35	18
GN 4490-ZD-50-B1-AG-*	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	40	47
GN 4490-ZD-50-B2-AG-*	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	70	47
GN 4490-ZD-68-B1-AG-*	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	75	87
GN 4490-ZD-68-B2-AG-*	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	100	87
GN 4490-ZD-80-B1-AG-*	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	125	134
GN 4490-ZD-80-B2-AG-*	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	150	134

GN 4490-ZD-B-BG

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force F _H in N ≈	
GN 4490-ZD-38-B1-BG-*	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	25	20
GN 4490-ZD-38-B2-BG-*	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	35	20
GN 4490-ZD-50-B1-BG-*	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	40	52
GN 4490-ZD-50-B2-BG-*	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	70	52
GN 4490-ZD-68-B1-BG-*	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	75	92
GN 4490-ZD-68-B2-BG-*	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	100	92
GN 4490-ZD-80-B1-BG-*	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	125	147
GN 4490-ZD-80-B2-BG-*	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	150	147

Weight SW

GN 4490-NI-A-AG

STAINLESS STEEL

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force F _H in N ≈	
GN 4490-NI-38-A1-AG-GS	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	25	13
GN 4490-NI-38-A2-AG-GS	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	35	13
GN 4490-NI-50-A1-AG-GS	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	40	35
GN 4490-NI-50-A2-AG-GS	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	70	35
GN 4490-NI-68-A1-AG-GS	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	75	61
GN 4490-NI-68-A2-AG-GS	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	100	61
GN 4490-NI-80-A1-AG-GS	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	125	96
GN 4490-NI-80-A2-AG-GS	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	150	96

GN 4490-NI-A-BG

STAINLESS STEEL

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force F _H in N ≈	
GN 4490-NI-38-A1-BG-GS	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	25	16
GN 4490-NI-38-A2-BG-GS	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	35	16
GN 4490-NI-50-A1-BG-GS	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	40	40
GN 4490-NI-50-A2-BG-GS	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	70	40
GN 4490-NI-68-A1-BG-GS	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	75	67
GN 4490-NI-68-A2-BG-GS	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	100	67
GN 4490-NI-80-A1-BG-GS	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	125	111
GN 4490-NI-80-A2-BG-GS	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	150	111

GN 4490-NI-B-AG

STAINLESS STEEL

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force F _H in N ≈	
GN 4490-NI-38-B1-AG-GS	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	25	21
GN 4490-NI-38-B2-AG-GS	38	7.5	7.5	15	8	7	4.3	3.4	M 3	21	30	12	4	11.5	2.5	6	35	21
GN 4490-NI-50-B1-AG-GS	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	40	52
GN 4490-NI-50-B2-AG-GS	50	9.5	10.5	20	12	10	6.5	4.4	M 4	30	40	17	5	15.5	3.5	9	70	52
GN 4490-NI-68-B1-AG-GS	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	75	97
GN 4490-NI-68-B2-AG-GS	68	11	12	23	14.5	11	9.5	4.4	M 4	32.5	55	20	5	18.5	3.5	12	100	97
GN 4490-NI-80-B1-AG-GS	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	125	147
GN 4490-NI-80-B2-AG-GS	80	13	14	27	16.5	13	11	5.4	M 5	40	65	25	6	21.5	4	15	150	147

GN 4490-NI-B-BG

STAINLESS STEEL

Description	l1	a1	a2	a3	b1	b2	b3	d1	d2	l2	m1	m2	s1	s2	s3	t	Holding force F _H in N ≈	
GN 4490-NI-38-B1-BG-GS	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	25	23
GN 4490-NI-38-B2-BG-GS	38	7.5	11	18.5	8	7	4.3	3.4	M 3	18	30	12	4	11.5	6	6	35	23
GN 4490-NI-50-B1-BG-GS	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	40	58
GN 4490-NI-50-B2-BG-GS	50	9.5	15	24.5	12	10	6.5	4.4	M 4	26	40	17	5	15.5	8	9	70	58
GN 4490-NI-68-B1-BG-GS	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	75	102
GN 4490-NI-68-B2-BG-GS	68	11	16.5	27.5	14.5	11	9.5	4.4	M 4	28	55	20	5	18.5	8	12	100	102
GN 4490-NI-80-B1-BG-GS	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	125	162
GN 4490-NI-80-B2-BG-GS	80	13	20	33	16.5	13	11	5.4	M 5	37.5	65	25	6	21.5	10	15	150	162

