SET COLLARS
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Dismountable split set collars

Clamping assembly, technopolymer

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer.

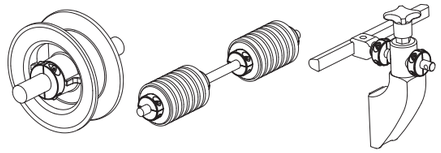
SCREWS AND NUTS
Two cylindrical head screws with hexagon socket and AISI 316 stainless steel nuts supplied assembled with the two semi-split set collars.

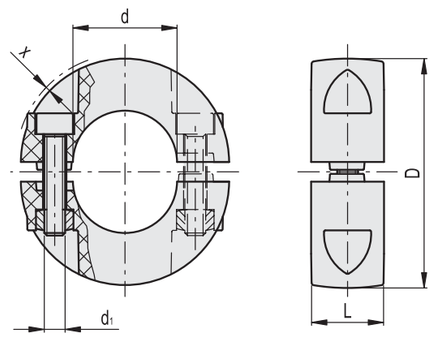
FEATURES AND APPLICATIONS
- Suitable for assembly on idle shafts as end stops, for fixing end limit switches, pulleys, supporting pins or other components.
- They avoid damage to the surfaces of the shaft.
- Lightness and high mechanical resistance.
- Anticorrosive material: possibility of use even in the presence of liquids.
- Resistant to several cleaning cycles with solvents and other chemical agents, for this reason they can be used for applications in the pharmaceutical or food industry.

TECHNICAL DATA
Assembly on h7 ÷ h11 tolerance round shafts.

SPECIAL EXECUTIONS ON REQUEST
Dismountable split set collars with keyway DIN 6885/1 P9 tollerance (see page A16).

Application examples





Code	Description	D	L	d	d_1	x	Max. tightening torque [Nm]	⚖
319901	ANPS-12	35	13	12	M4	1	2	17
319911	ANPS-14	35	13	14	M4	1	2	16
319921	ANPS-16	35	13	16	M4	1	2	15
319931	ANPS-18	40	14	18	M4	0.75	2	20
319941	ANPS-20	40	14	20	M4	0.75	2	19
319945	ANPS-22	50	14	22	M5	2.40	3	33
319951	ANPS-25	50	14	25	M5	2.40	3	31
319961	ANPS-30	50	14	30	M5	2.40	3	29
319971	ANPS-35	65	14	35	M5	0.15	3	44
319981	ANPS-40	65	14	40	M5	0.15	3	39

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Set collars

Steel / Stainless Steel

SPECIFICATION

Types

- Type **A**: Grub screw with slot ISO 7434 (DIN 553)
- Type **E**: Grub screw with internal hexagon DIN 914

Version in Steel
blackened (Standard)

Version in zinc plated
Steel
zinc plated, blue passivated **ZB**

Version in Stainless Steel
AISI 303 **NI**

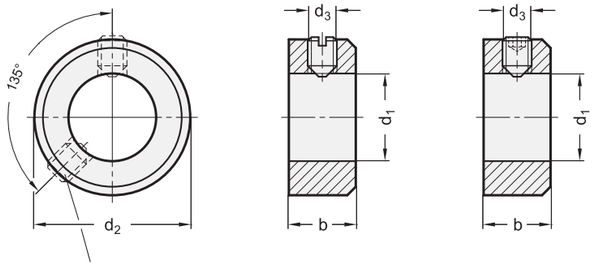
INFORMATION

Set collars GN 705 essentially comply with the designs of DIN 705 which has been re-issued in April 2007.
The official standard sheet also lists the sizes d_1 = 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 85 / 90 / 100 / 110 / 120 / 125 / 125 / 140 / 150 / 160 / 180 and 200, although it does not show a whole series of the intermediate sizes listed in the above table.
Also, the official standard sheet still lists the Types B and C for fixing the set collars with transverse pin, but not Type E.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)

Type **A** Type **E**



Second grub screw for size d_1 = 80

*Complete with type index of the Set collars

A with slot
E with internal hexagon

GN 705-ST

Description	d_1 H8	d_2	d_3	b js14	⚖
GN 705-5-*	5	10	M3x4	6	3
GN 705-6-*	6	12	M4x5	8	5
GN 705-7-*	7	12	M4x5	8	5
GN 705-8-*	8	16	M4x6	8	10
GN 705-9-*	9	18	M5x8	10	14
GN 705-10-*	10	20	M5x8	10	18
GN 705-11-*	11	20	M5x8	10	16
GN 705-12-*	12	22	M6x8	12	26
GN 705-13-*	13	22	M6x8	12	26
GN 705-14-*	14	25	M6x8	12	32
GN 705-15-*	15	25	M6x8	12	34
GN 705-16-*	16	28	M6x8	12	38
GN 705-18-*	18	32	M6x8	14	50
GN 705-20-*	20	32	M6x8	14	52
GN 705-22-*	22	36	M6x10	14	69
GN 705-24-*	24	40	M8x12	16	90
GN 705-25-*	25	40	M8x10	16	93
GN 705-26-*	26	40	M8x10	16	100
GN 705-28-*	28	45	M8x12	16	122

GN 705-ST

Description	d_1 H8	d_2	d_3	b js14	⚖
GN 705-30-*	30	45	M8x10	16	136
GN 705-32-*	32	50	M8x12	16	142
GN 705-34-*	34	50	M8x12	16	152
GN 705-35-*	35	56	M8x12	16	166
GN 705-36-*	36	56	M8x12	16	180
GN 705-38-*	38	56	M8x12	16	187
GN 705-40-*	40	63	M10x16	18	220
GN 705-42-*	42	63	M10x16	18	244
GN 705-45-*	45	70	M10x16	18	261
GN 705-48-*	48	70	M10x16	18	287
GN 705-50-*	50	80	M10x16	18	317
GN 705-52-*	52	80	M10x16	18	408
GN 705-55-*	55	80	M10x16	18	429
GN 705-60-*	60	90	M10x16	20	552
GN 705-65-*	65	100	M10x20	20	607
GN 705-70-*	70	100	M10x20	20	687
GN 705-75-*	75	110	M12x20	22	768
GN 705-80-*	80	110	M12x20	22	858

Weight type A

GN 705-ZB

Description	d_1 H8	d_2	d_3	b js14	⚖
GN 705-5-E-ZB	5	10	M3x4	6	3
GN 705-6-E-ZB	6	12	M4x5	8	4
GN 705-7-E-ZB	7	12	M4x5	8	5
GN 705-8-E-ZB	8	16	M4x6	8	10
GN 705-9-E-ZB	9	18	M5x8	10	16
GN 705-10-E-ZB	10	20	M5x8	10	18
GN 705-11-E-ZB	11	20	M5x8	10	18
GN 705-12-E-ZB	12	22	M6x8	12	22
GN 705-13-E-ZB	13	22	M6x8	12	24
GN 705-14-E-ZB	14	25	M6x8	12	30
GN 705-15-E-ZB	15	25	M6x8	12	32
GN 705-16-E-ZB	16	28	M6x8	12	37
GN 705-18-E-ZB	18	32	M6x8	14	50
GN 705-20-E-ZB	20	32	M6x8	14	52
GN 705-22-E-ZB	22	36	M6x10	14	69
GN 705-24-E-ZB	24	40	M8x12	16	80
GN 705-25-E-ZB	25	40	M8x10	16	91
GN 705-26-E-ZB	26	40	M8x10	16	96
GN 705-28-E-ZB	28	45	M8x12	16	111
GN 705-30-E-ZB	30	45	M8x10	16	122
GN 705-32-E-ZB	32	50	M8x12	16	142
GN 705-35-E-ZB	35	56	M8x12	16	187
GN 705-40-E-ZB	40	63	M10x16	18	254
GN 705-45-E-ZB	45	70	M10x16	18	317
GN 705-50-E-ZB	50	80	M10x16	18	400
GN 705-60-E-ZB	60	90	M10x16	20	552
GN 705-70-E-ZB	70	100	M10x20	20	607
GN 705-80-E-ZB	80	110	M12x20	22	768

GN 705-NI **STAINLESS STEEL**

Description	d_1 H8	d_2	d_3	b js14	⚖
GN 705-5-E-NI	5	10	M3x4	6	3
GN 705-6-E-NI	6	12	M4x5	8	3
GN 705-7-E-NI	7	12	M4x5	8	4
GN 705-8-E-NI	8	16	M4x6	8	10
GN 705-9-E-NI	9	18	M5x8	10	15
GN 705-10-E-NI	10	20	M5x8	10	17
GN 705-11-E-NI	11	20	M5x8	10	18
GN 705-12-E-NI	12	22	M6x8	12	23
GN 705-13-E-NI	13	22	M6x8	12	25
GN 705-14-E-NI	14	25	M6x8	12	28
GN 705-15-E-NI	15	25	M6x8	12	31
GN 705-16-E-NI	16	28	M6x8	12	38
GN 705-18-E-NI	18	32	M6x8	14	53
GN 705-20-E-NI	20	32	M6x8	14	59
GN 705-22-E-NI	22	36	M6x10	14	69
GN 705-24-E-NI	24	40	M8x12	16	88
GN 705-25-E-NI	25	40	M8x10	16	93
GN 705-26-E-NI	26	40	M8x10	16	99
GN 705-28-E-NI	28	45	M8x12	16	100
GN 705-30-E-NI	30	45	M8x10	16	109
GN 705-32-E-NI	32	50	M8x12	16	142
GN 705-34-E-NI	34	50	M8x12	16	150
GN 705-35-E-NI	35	56	M8x12	16	160
GN 705-36-E-NI	36	56	M8x12	16	187
GN 705-38-E-NI	38	56	M8x12	16	200
GN 705-40-E-NI	40	63	M10x16	18	258
GN 705-42-E-NI	42	63	M10x16	18	220
GN 705-45-E-NI	45	70	M10x16	18	300
GN 705-48-E-NI	48	70	M10x16	18	380
GN 705-50-E-NI	50	80	M10x16	18	425

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Semi-split set collars

Steel / Stainless Steel / Aluminium

SPECIFICATION

Version in Steel ST

Sintered Steel (Distaloy AB)
black oxidised with vapor

Socket head cap screw DIN 912
Steel, blank

Version in Stainless Steel

Sintered Steel AISI 316 LHC **NI**
Socekt head cap screw DIN 912-A2

Turned version AISI 316 **A4**
weldable
Socket head cap screw DIN 912-A4

Version in Aluminium AL

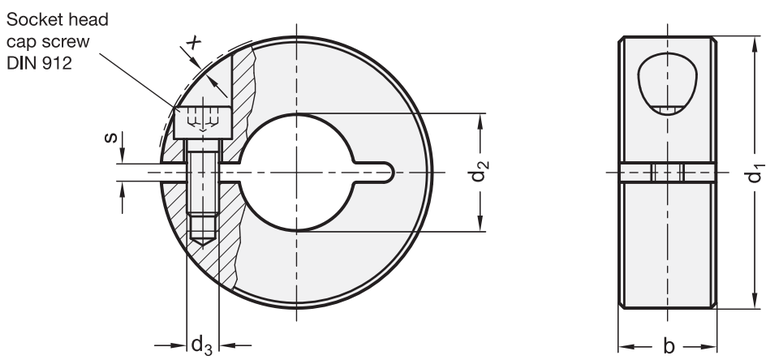
- ground
- Socket head cap screw DIN 912-A2

INFORMATION

Semi-split set collars GN 706.2 can safely and simply be assembled i.e. with high clamping force without damaging the surface of the shaft.
For size d_1 = 20 to 36 d_3 is a through hole; starting from d_1 = 42 d_3 is a threaded blind bore.
These set collars not only serve as an end stop, but they can also be used for fixing or triggering other components such as end limit switches.

TECHNICAL INFORMATION

- ISO-Fundamental tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



*Complete with material index of the Split set collars (AL, ST or NI)

AL	ST	NI
Aluminum	Steel	Stainless Steel

GN 706.2 — **STAINLESS STEEL**

Description	d_1	d_2 H10 Recommended shaft tolerance h11	b ±0.2	d_3	s	x ≈ Max. protrusion of cap thread	⚖
GN 706.2-20-B6-*	20	B 6	9	M 3	2.1	1.2	18
GN 706.2-22-B8-*	22	B 8	9	M 3	2.1	1	20
GN 706.2-26-B10-*	26	B 10	11	M 4	2.1	1.6	32
GN 706.2-30-B12-*	30	B 12	11	M 4	2.1	0.7	40
GN 706.2-32-B14-*	32	B 14	11	M 4	2.1	0.7	41
GN 706.2-36-B15-*	36	B 15	13	M 5	2.1	1.4	68
GN 706.2-36-B16-*	36	B 16	13	M 5	2.1	1.4	70
GN 706.2-42-B18-*	42	B 18	15	M 5	3	0.6	103
GN 706.2-42-B20-*	42	B 20	15	M 5	3	0.6	109
GN 706.2-48-B22-*	48	B 22	15	M 5	3	0	126
GN 706.2-48-B25-*	48	B 25	15	M 5	3	0	139
GN 706.2-55-B28-*	55	B 28	15	M 6	3	0.5	163
GN 706.2-55-B30-*	55	B 30	15	M 6	3	0.5	171
GN 706.2-60-B32-*	60	B 32	15	M 6	4	0.4	178
GN 706.2-60-B35-*	60	B 35	15	M 6	4	0.4	190
GN 706.2-65-B40-*	65	B 40	15	M 6	4	0.5	196

Weight type AL

GN 706.2-A4 — **STAINLESS STEEL**

Description	d_1	d_2 E8 Recommended shaft tolerance h11	b ±0.2	d_3	s	x ≈ Max. protrusion of cap thread	⚖
GN 706.2-36-B16-A4	36	B 16	13	M 5	1.6	1.4	78
GN 706.2-42-B20-A4	42	B 20	15	M 5	1.6	0.6	119
GN 706.2-48-B25-A4	48	B 25	15	M 5	1.6	0	147
GN 706.2-55-B30-A4	55	B 30	15	M 6	1.6	0.5	185
GN 706.2-60-B35-A4	60	B 35	15	M 6	1.6	0.4	207

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Split set collars

Steel / Stainless Steel / Aluminium

SPECIFICATION

Version in Steel ST

Sintered Steel (Distaloy AB)
black oxidised with vapor

Socket head cap screw DIN 912
Steel, blank

Version in Stainless Steel

Sindered Steel AISI 316 LHC **NI**
Socket head cap screw DIN 912-A2

Turned version AISI 316 **A4**
weldable
Socket head cap screw DIN 912-A4

Version in Aluminium AL

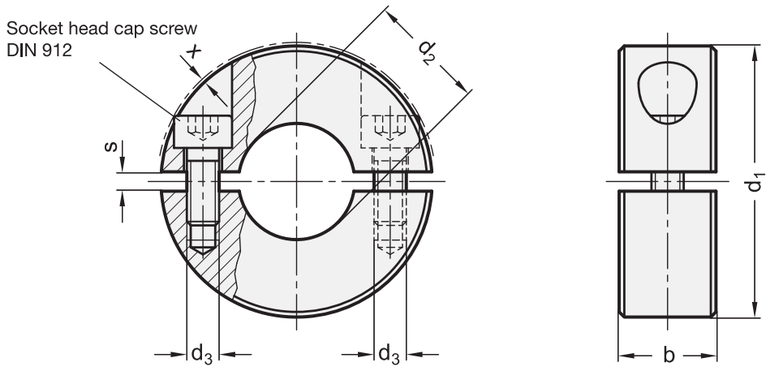
- ground
- Socket head cap screw DIN 912-A2

INFORMATION

Split set collars GN 707.2 are used when the latter cannot be slipped over a shaft.
For size d_1 = 20 to 36 d_3 is a through hole; starting from d_1 = 42 d_3 is a threaded blind bore.
These set collars not only serve as an end stop, but they can also be used for fixing or triggering other components such as end limit switches.

TECHNICAL INFORMATION

- ISO-Fundamental tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



*Complete with material index of the Split set collars (AL, ST or NI)

AL	ST	NI
Aluminum	Steel	Stainless Steel

GN 707.2 — STAINLESS STEEL

Description	d_1	d_2 H10 Recommended shaft tolerance h11	b ±0.2	d_3	s	x ≈ Max. protrusion of cap thread	⚖
GN 707.2-20-B6-*	20	B 6	9	M 3	2.1	1.2	16
GN 707.2-22-B8-*	22	B 8	9	M 3	2.1	1	18
GN 707.2-26-B10-*	26	B 10	11	M 4	2.1	1.6	30
GN 707.2-30-B12-*	30	B 12	11	M 4	2.1	0.7	39
GN 707.2-32-B14-*	32	B 14	11	M 4	2.1	0.7	43
GN 707.2-36-B15-*	36	B 15	13	M 5	2.1	1.4	65
GN 707.2-36-B16-*	36	B 16	13	M 5	2.1	1.4	66
GN 707.2-42-B18-*	42	B 18	15	M 5	3	0.6	98
GN 707.2-42-B20-*	42	B 20	15	M 5	3	0.6	104
GN 707.2-48-B22-*	48	B 22	15	M 5	3	0	122
GN 707.2-48-B25-*	48	B 25	15	M 5	3	0	134
GN 707.2-55-B28-*	55	B 28	15	M 6	3	0.5	153
GN 707.2-55-B30-*	55	B 30	15	M 6	3	0.5	165
GN 707.2-60-B32-*	60	B 32	15	M 6	4	0.4	170
GN 707.2-60-B35-*	60	B 35	15	M 6	4	0.4	187
GN 707.2-65-B40-*	65	B 40	15	M 6	4	0.5	189

Weight type AL

GN 707.2-A4 — STAINLESS STEEL

Description	d_1	d_2 E8 Recommended shaft tolerance h11	b ±0.2	d_3	s	x ≈ Max. protrusion of cap thread	⚖
GN 707.2-36-B16-A4	36	B 16	13	M 5	1.6	1.4	78
GN 707.2-42-B20-A4	42	B 20	15	M 5	1.6	0.6	110
GN 707.2-48-B25-A4	48	B 25	15	M 5	1.6	0	140
GN 707.2-55-B30-A4	55	B 30	15	M 6	1.6	0.4	170
GN 707.2-60-B35-A4	60	B 35	15	M 6	1.6	0.4	220

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Threaded set collars

Steel / Stainless Steel

SPECIFICATION

Version in Steel

Steel **ST**

Sintered Steel (Distaloy AB)
black oxidised with vapor

Socket head cap screw DIN 912
Steel, blank

Version in Stainless Steel

Stainless Steel (Sintered Steel) **NI**

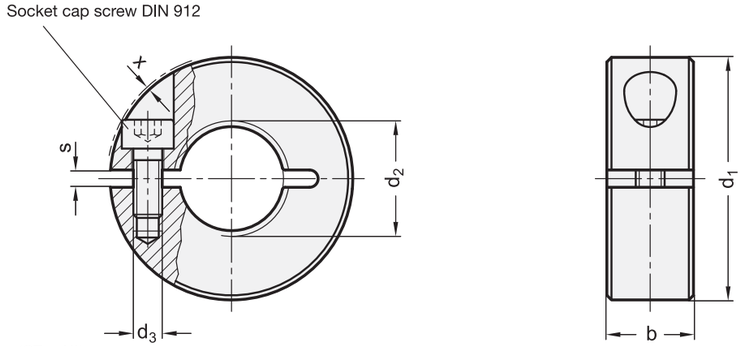
AISI 316L
Socked head cap screw DIN 912
Stainless Steel AISI 304

INFORMATION

Threaded set collars GN 706.3 can be used in connection with bolt thread tolerance 6g. After clamping, the thread of the semi-split set collar may no longer be tolerance-stable (6H).
The thread d_3 for sizes d_1 = 20 to 36 is designed as a through hole, from size d_1 = 42 it is designed as blind hole.

TECHNICAL INFORMATION

- Metric ISO thread (see page A19)
- Stainless Steel characteristics (see page A26)



*Complete with material index of the Threaded set collars (ST or NI)

ST Steel
NI Stainless Steel

GN 706.3 STAINLESS STEEL

Description	d_1	d_2 6H	b	d_3	s	x ≈ Max. protrusion of cap thread	⚖
GN 706.3-20-M8-*	20	M 8	9	M 3	2.1	1	15
GN 706.3-20-M8x1-*	20	M 8 x 1	9	M 3	2.1	1	16
GN 706.3-22-M10-*	22	M 10	9	M 3	2.1	0.8	14
GN 706.3-22-M10x1-*	22	M 10 x 1	9	M 3	2.1	0.8	18
GN 706.3-26-M12-*	26	M 12	11	M 4	2.1	1.6	31
GN 706.3-26-M12x1,5-*	26	M 12 x 1.5	11	M 4	2.1	1.6	31
GN 706.3-32-M16-*	32	M 16	11	M 4	2.1	0.7	42
GN 706.3-32-M16x1,5-*	32	M 16 x 1.5	11	M 4	2.1	0.7	43
GN 706.3-42-M20-*	42	M 20	15	M 5	3	0.6	106
GN 706.3-42-M20x1,5-*	42	M 20 x 1.5	15	M 5	3	0.6	105
GN 706.3-48-M24x1,5-*	48	M 24 x 1.5	15	M 5	3	0	134
GN 706.3-55-M30x1,5-*	55	M 30 x 1.5	15	M 6	3	0.4	165

Weight ST

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Semi-split set collars

Steel / Stainless Steel / Aluminium, with adjustable hand lever

SPECIFICATION

Version in Steel

Steel **ST**

Sintered Steel (Distaloy AB)
black oxidised with vapor

Version in Stainless Steel

Stainless Steel (Sintered Steel) **NI**
AISI 316L

Version in Aluminium

Aluminium **AL**
ground

Adjustable hand levers

Zinc die casting
plastic coated
black, RAL 9005, textured finish

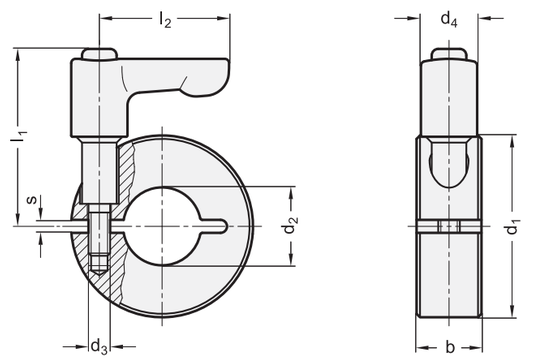
Screw insert and retaining screw
Stainless Steel AISI 303

INFORMATION

Semi-split set collars GN 706.4 can safely and simply be assembled i.e. with high clamping force without damaging the surface of the shaft.
For size d_1 = 32 and 36, d_3 is a through hole; starting from d_1 = 42 d_3 is a threaded blind bore.
These set collars not only serve as an end stop, but they can also be used for fixing or triggering other components such as end limit switches.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



*Complete with material index of the Semi-split set collars (AL, ST or NI)

AL Aluminum
ST Steel
NI Stainless Steel

GN 706.4 STAINLESS STEEL

Description	d_1	d_2 H10 Recommended shaft tolerance h11	b ±0.2	d_3	d_4	l_1	l_2	s	⚖
GN 706.4-32-B14-*	32	B 14	11	M 4	13	37	30	2.1	70
GN 706.4-36-B15-*	36	B 15	13	M 5	13	38.5	30	2.1	112
GN 706.4-36-B16-*	36	B 16	13	M 5	13	38.5	30	2.1	100
GN 706.4-42-B18-*	42	B 18	15	M 5	13	41	30	3	120
GN 706.4-42-B20-*	42	B 20	15	M 5	13	41	30	3	145
GN 706.4-48-B22-*	48	B 22	15	M 5	13	43	45	3	180
GN 706.4-48-B25-*	48	B 25	15	M 5	13	43	45	3	167
GN 706.4-55-B28-*	55	B 28	15	M 6	13	45	45	3	200
GN 706.4-55-B30-*	55	B 30	15	M 6	13	45	45	3	200
GN 706.4-60-B32-*	60	B 32	15	M 6	13	46.5	45	4	240
GN 706.4-60-B35-*	60	B 35	15	M 6	13	46.5	45	4	220
GN 706.4-65-B40-*	65	B 40	15	M 6	13	47.5	45	4	240

Weight ST

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Clamping elements

for adjustable spindles

SPECIFICATION

Types

- Type **H**: Clamping screw with adjustable handle
- Type **S**: Clamping screw with internal hexagon

Aluminium
anodized black **ELS**

Wedge
Brass

Adjustable hand levers

- black, RAL 9005, textured finish
- with setting screw, Stainless Steel AISI 303

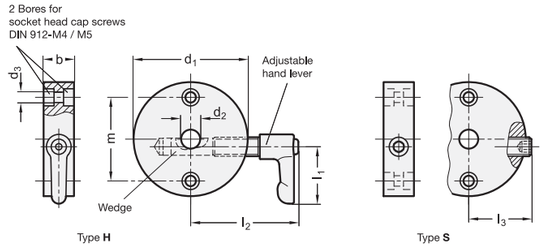
Setting screw with internal hexagon
Stainless Steel AISI 303

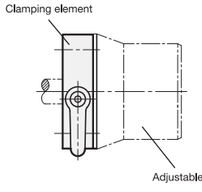
INFORMATION

Clamping elements GN 826 are normally used in connection with control knobs and smaller handwheels.
Spindles can so be clamped gently and easily and without much construction and installation effort. The clamping wedge stiffens the spindle, e.g., to prevent maladjustments caused by vibrations or to secure the spindle after adjustment.
This clamping element can also be used to store the spindle.
The clamping element may be mounted such that the clamping lever / the clamping screw is positioned either on the left or the right hand side.
Indicator arrows which can be attached to the circumference of the clamping element are found under GN 711.1. (see page 640)

TECHNICAL INFORMATION

- ISO-Fundamental tolerances (see page A21)
- Stainless Steel characteristics (see page A26)





GN 826

Description	d1	d2 H7	d3	b	m	l1	l2 max.	l3 max.	⚖
GN 826-40-B8-H-ELS	40	B 8	4.3	16	28	30	50	-	80
GN 826-40-B10-H-ELS	40	B 10	4.3	16	28	30	50	-	79
GN 826-50-B8-H-ELS	50	B 8	5.3	16	36	30	56	-	110
GN 826-50-B10-H-ELS	50	B 10	5.3	16	36	30	56	-	110
GN 826-50-B12-H-ELS	50	B 12	5.3	16	36	30	56	-	109
GN 826-60-B10-H-ELS	60	B 10	5.3	16	44	30	61	-	148
GN 826-60-B12-H-ELS	60	B 12	5.3	16	44	30	61	-	147
GN 826-40-B8-S-ELS	40	B 8	4.3	16	28	-	-	27	54
GN 826-40-B10-S-ELS	40	B 10	4.3	16	28	-	-	27	54
GN 826-50-B8-S-ELS	50	B 8	5.3	16	36	-	-	32	84
GN 826-50-B10-S-ELS	50	B 10	5.3	16	36	-	-	32	84
GN 826-50-B12-S-ELS	50	B 12	5.3	16	36	-	-	32	83
GN 826-60-B10-S-ELS	60	B 10	5.3	16	44	-	-	36	122
GN 826-60-B12-S-ELS	60	B 12	5.3	16	44	-	-	36	122

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Quick release set collars

SPECIFICATION

Ring
Aluminium
black anodized

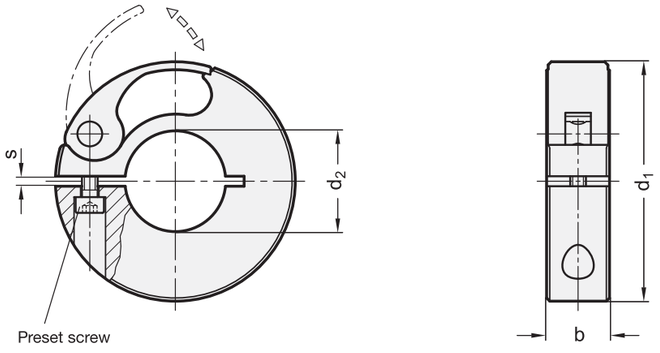
Lever
Aluminium
yellow anodized

INFORMATION

The force lock with the shaft is made in the GN 704 quick release set collars via an eccentric lever which allows the collars to be adjusted easily and quickly without tools. The aluminium design delivers low inertia values.
The specified tightening torque of the screw is a recommended value with which the collar clamped to a shaft (with closed eccentric lever) is capable of reaching the specified axial load capacity. The details on axial load capacity are non-binding guidance values and do not constitute a warranty of characteristics.
Keeping the friction surface of the eccentric lever slightly greased will help to prolong the useful service life.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



GN 704

Description	d1	d2 Recommended shaft tolerance h8	b	s	Tightening torque of the screw in Nm ≈	Axial load in N ≈	⚖
GN 704-38-B6	38	B 6	10	1.5	0.5	130	27
GN 704-38-B8	38	B 8	10	1.5	0.5	130	25
GN 704-38-B10	38	B 10	10	1.5	0.5	150	25
GN 704-38-B12	38	B 12	10	1.5	0.5	160	25
GN 704-38-B14	38	B 14	10	1.5	0.5	180	24
GN 704-38-B15	38	B 15	10	1.5	0.5	220	22
GN 704-38-B16	38	B 16	10	1.5	0.5	260	23
GN 704-50-B20	50	B 20	13	1.5	0.7	310	54
GN 704-50-B25	50	B 25	13	1.5	0.7	400	49
GN 704-50-B28	50	B 28	13	1.5	0.7	430	43
GN 704-50-B30	50	B 30	13	1.5	0.7	450	41
GN 704-75-B32	75	B 32	15	1.5	1.5	460	126
GN 704-75-B35	75	B 35	15	1.5	1.5	480	119
GN 704-75-B38	75	B 38	15	1.5	1.5	530	113

10.11 Stainless Steel characteristics

AISI Standard	431 (A4)	304	303	CF-8 Precison casting
German Material No.	1.4057 (A4)	1.4301	1.4305	1.4308
DIN / EN-Number	EN 10088-3	EN 10088-3	EN 10088-3	EN 10213-4
Symbol	X 17 CrNi 16-2	X 5 CrNi 18-10	X 8 CrNiS 18-9	GX 5CrNi 19-10
Alloying components %	C ≤ 0.12 ... 0.22 Cr 15.0 ... 17.0 Ni 1.5 ... 2.5	C ≤ 0.07 Cr 17.5 ... 19.5 Ni 8.0 ... 10.5	C ≤ 0.10 S ≤ 0.15 ... 0.35 Cr 17.0 ... 19.0 Ni 8.0 ... 10.0	C ≤ 0.07 Cr 18.0 ... 20.0 Ni 8.0 ... 11.0
Minimum tensile strength Rm in N/mm²	800 ... 950	500 ... 700	500 ... 700	440 ... 640
Yield strength Rp0.2 in N/mm²	≥ 600	≥ 190	≥ 190	≥ 175
Machinability	poor	medium	very good	medium
Forgeability	medium	good	poor	–
Weldability	good	excellent	poor	good
Special characteristics	magnetic, martensitic structure for elements with high stability, can be used up to 400 °C	antimagnetic, austenitic structure suitable for low temperatures, can be used up to 700 °C	antimagnetic, austenitic structure	antimagnetic, austenitic structure
Corrosion resistance	good however, sensitive to intercrystalline corrosion	good resistant to corrosion, in the natural environment: water, rural and urban atmospheres without significant chloride or acid concentrations, in food areas and in agricultural food areas	medium due to the sulphur content reservations in environments which contain acids and chlorides	good resistant to corrosion, Material is largely comparable with AISI 304
Main areas of application	– Vehicle construction – Chemical industry – Aviation – Machine construction – Food industry	– Food industry – Agriculture – Chemical industry – Vehicle construction – Construction industry – Machine construction – Decorative purposes (Kitchen equipment)	– Vehicle construction – Electronics – Decorative purposes (Kitchen equipment) – Machine construction	– Food industry – Beverage industry – Packaging industry – Fittings – Pumps – Agitators

The characteristics described should be treated as guidelines only. No guarantee is made. The exact conditions of use have to be taken into account individually.

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10.8 DIN ISO 286 ISO-Fundamental tolerances

This ISO Standard represents the basic for a system of nominal dimensions and sizes whereby the table mirrors the calculated values of basic tolerances relating to basic dimensions.
The use of this table is limited to smooth circular cylindrical workpieces or such with two parallel fitting planes or contact areas.
The values attributed to an ISO tolerance grade (IT) specify the tolerance value and hence the tolerance area. With ascending numbers, the size of the tolerance increases.
For identification purpose of the position of the tolerance area in relation to the nominal dimension (zero), the number chosen as tolerance grade IT is preceeded by a letter.
Tolerance area H is the most common value for bores. It specifies that the minimum dimension of the bore corresponds to the nominal dimension.
The permissible maximum dimension corresponds to the nominal dimension plus the IT tolerance.

Examples:
bore 20 H7 = 20 + 0.021/0
min. dimension: 20.000
max. dimension: 20.021

bore 8 H11 = 8 + 0.090/0
min. dimension: 8.000
max. dimension: 8.090

ISO-Fundamental tolerance series DIN ISO 286

Tol. (µm)	Nominal sizes												
Grades IT	– ... 3	> 3 ... 6	> 6 ... 10	> 10 ... 18	> 18 ... 30	> 30 ... 50	> 50 ... 80	> 80 ... 120	> 120 ... 180	> 180 ... 250	> 250 ... 315	> 315 ... 400	> 400 ... 500
01	0.3	0.4	0.4	0.5	0.6	0.6	0.8	1	1.2	2	2.5	3	4
0	0.5	0.6	0.6	0.8	1	1	1.2	1.5	2	3	4	5	6
1	0.8	1	1	1.2	1.5	1.5	2	2.5	3.5	4.5	6	7	8
2	1.2	1.5	1.5	2	2.5	2.5	3	4	5	7	8	9	10
3	2	2.5	2.5	3	4	4	5	6	8	10	12	13	15
4	3	4	4	5	6	7	8	10	12	14	16	18	20
5	4	5	6	8	9	11	13	15	18	20	23	25	27
6	6	8	9	11	13	16	19	22	25	29	32	36	40
7	10	12	15	18	21	25	30	35	40	46	52	57	63
8	14	18	22	27	33	39	46	54	63	72	81	89	97
9	25	30	36	43	52	62	74	87	100	115	130	140	155
10	40	48	58	70	84	100	120	140	160	185	210	230	250
11	60	75	90	110	130	160	190	220	250	290	320	360	400
12	100	120	150	180	210	250	300	350	400	460	520	570	630
13	140	180	220	270	330	390	460	540	630	720	810	890	970
14	250	300	360	430	520	620	740	870	1000	1150	1300	1400	1550
15	400	480	580	700	840	900	1200	1400	1600	1850	2100	2300	2500
16	600	750	900	1100	1300	1600	1900	2200	2500	2900	3200	3600	4000
17	1000	1200	1500	1800	2100	2500	3000	3500	4000	4600	5200	5700	6300
18	1400	1800	2200	2700	3300	3900	4600	5400	6300	7200	8100	8900	9700