D 4002 Series

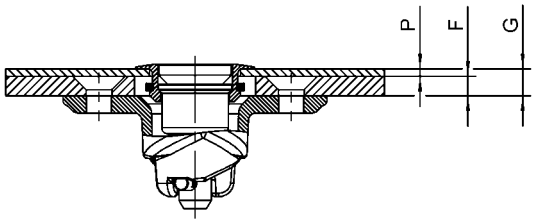
Features
Max. tensile strength 4.700 N, working load 3.100 N.
Small fastener for high tensile load.
Large range of stud assembles with fixed and floating receptacles

Selection Instructions
1. Select stud assembly, page G-4 and G-5, grommet and snap-on retaining ring, page G-7 and receptacle, page G-8 and G-9.
2. Select retaining washer, page G-6, for studs from length no. 5.
3. Select stud length number from total thickness G using the formula and the table on page G-2 and G-3 (e.g. D 4002-*AGV).

Determining the stud length number when using receptacle:

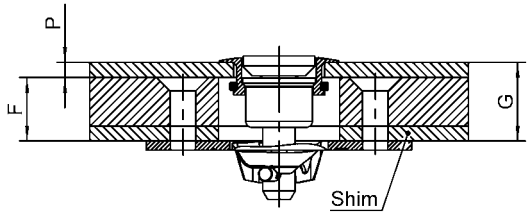
Standard version

Type 1 + 2



G = P + F

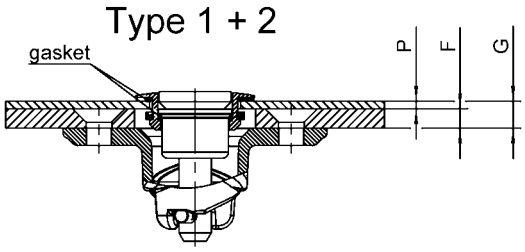
Type 3



G = P + F (8,9 min.)

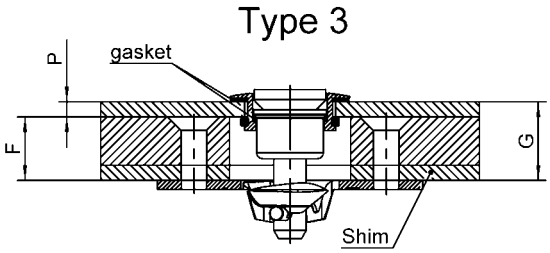
Sealed version

Type 1 + 2



G = P + F + 0,75

Type 3



G = P + F (8,9 min.) + 0,75

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D 4002 Series
Stud Length Table

When Using the Following Grommet and Receptacles:

Flush Mounting Grommets
D4002-G-AGV D4002-H-AGV

Total Thickness G	Stud Length No. When Using **Type 1** Receptacles	Total Thickness G	Stud Length No. When Using **Type 2** Receptacles	Total Thickness G	Stud Length No. When Using **Type 3** Receptacles
0,50 - 1,30	-	0,50 - 1,30	-	8,90 - 9,65	2
1,30 - 2,05	-	1,30 - 2,05	2	9,65 - 10,40	3
2,05 - 2,80	2	2,05 - 2,80	3	10,40 - 11,20	4
2,80 - 3,55	3	2,80 - 3,55	4	11,20 - 11,95	5
3,55 - 4,30	4	3,55 - 4,30	5	11,95 - 12,70	6
4,30 - 5,10	5	4,30 - 5,10	6	12,70 - 13,50	7
5,10 - 5,85	6	5,10 - 5,85	7	13,50 - 14,20	8
5,85 - 6,60	7	5,85 - 6,60	8	14,20 - 15,00	9
6,60 - 7,30	8	6,60 - 7,30	9	15,00 - 15,75	10
7,30 - 8,15	9	7,30 - 8,15	10	15,75 - 16,50	11
8,15 - 8,90	10	8,15 - 8,90	11	16,50 - 17,30	12
8,90 - 9,65	11	8,90 - 9,65	12	17,30 - 18,00	13
9,65 - 10,40	12	9,65 - 10,40	13	18,00 - 18,80	14
10,40 - 11,20	13	10,40 - 11,20	14	18,80 - 19,55	15
11,20 - 11,95	14	11,20 - 11,95	15	19,55 - 20,30	16
11,95 - 12,70	15	11,95 - 12,70	16	20,30 - 21,10	17
12,70 - 13,50	16	12,70 - 13,50	17	21,10 - 21,85	18
13,50 - 14,20	17	13,50 - 14,20	18	21,85 - 22,60	19
14,20 - 15,00	18	14,20 - 15,00	19	22,60 - 23,40	20
15,00 - 15,75	19	15,00 - 15,75	20	23,40 - 24,15	21
15,75 - 16,50	20	15,75 - 16,50	21	24,15 - 24,90	22
16,50 - 17,30	21	16,50 - 17,30	22	24,90 - 25,65	23
17,30 - 18,00	22	17,30 - 18,00	23	25,65 - 26,40	24
18,00 - 18,80	23	18,00 - 18,80	24	26,40 - 27,20	25
18,80 - 19,55	24	18,80 - 19,55	25	27,20 - 27,95	26
19,55 - 20,30	25	19,55 - 20,30	26	27,95 - 28,70	27
20,30 - 21,10	26	20,30 - 21,10	27	28,70 - 29,50	28
21,10 - 21,85	27	21,10 - 21,85	28	29,50 - 30,20	29
21,85 - 22,60	28	21,85 - 22,60	29	30,20 - 31,00	30
22,60 - 23,40	29	22,60 - 23,40	30	31,00 - 31,75	31
23,40 - 24,15	30	23,40 - 24,15	31	31,75 - 32,50	32
24,15 - 24,90	31	24,15 - 24,90	32	32,50 - 33,30	33
24,90 - 25,65	32	24,90 - 25,65	33	33,30 - 34,05	34
25,65 - 26,40	33	25,65 - 26,40	34	34,05 - 34,80	35
26,40 - 27,20	34	26,40 - 27,20	35		
27,20 - 27,95	35				

Other lengths on request.

Preferred dash-lengths

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D 4002 Series
Stud Length Table

When Using the Following Grommet and Receptacles:

Plus Flush Mounting Grommets
D4002-N-AGV D4002-O-AGV
D4002-P-AGV

Total Thickness G	Stud Length No. When Using **Type 1** Receptacles	Total Thickness G	Stud Length No. When Using **Type 2** Receptacles	Total Thickness G	Stud Length No. When Using **Type 3** Receptacles
0,50 - 1,30	1	0,50 - 1,30	2	8,90 - 9,65	3
1,30 - 2,05	2	1,30 - 2,05	3	9,65 - 10,40	4
2,05 - 2,80	3	2,05 - 2,80	4	10,40 - 11,20	5
2,80 - 3,55	4	2,80 - 3,55	5	11,20 - 11,95	6
3,55 - 4,30	5	3,55 - 4,30	6	11,95 - 12,70	7
4,30 - 5,10	6	4,30 - 5,10	7	12,70 - 13,50	8
5,10 - 5,85	7	5,10 - 5,85	8	13,50 - 14,20	9
5,85 - 6,60	8	5,85 - 6,60	9	14,20 - 15,00	10
6,60 - 7,30	9	6,60 - 7,30	10	15,00 - 15,75	11
7,30 - 8,15	10	7,30 - 8,15	11	15,75 - 16,50	12
8,15 - 8,90	11	8,15 - 8,90	12	16,50 - 17,30	13
8,90 - 9,65	12	8,90 - 9,65	13	17,30 - 18,00	14
9,65 - 10,40	13	9,65 - 10,40	14	18,00 - 18,80	15
10,40 - 11,20	14	10,40 - 11,20	15	18,80 - 19,55	16
11,20 - 11,95	15	11,20 - 11,95	16	19,55 - 20,30	17
11,95 - 12,70	16	11,95 - 12,70	17	20,30 - 21,10	18
12,70 - 13,50	17	12,70 - 13,50	18	21,10 - 21,85	19
13,50 - 14,20	18	13,50 - 14,20	19	21,85 - 22,60	20
14,20 - 15,00	19	14,20 - 15,00	20	22,60 - 23,40	21
15,00 - 15,75	20	15,00 - 15,75	21	23,40 - 24,15	22
15,75 - 16,50	21	15,75 - 16,50	22	24,15 - 24,90	23
16,50 - 17,30	22	16,50 - 17,30	23	24,90 - 25,65	24
17,30 - 18,00	23	17,30 - 18,00	24	25,65 - 26,40	25
18,00 - 18,80	24	18,00 - 18,80	25	26,40 - 27,20	26
18,80 - 19,55	25	18,80 - 19,55	26	27,20 - 27,95	27
19,55 - 20,30	26	19,55 - 20,30	27	27,95 - 28,70	28
20,30 - 21,10	27	20,30 - 21,10	28	28,70 - 29,50	29
21,10 - 21,85	28	21,10 - 21,85	29	29,50 - 30,20	30
21,85 - 22,60	29	21,85 - 22,60	30	30,20 - 31,00	31
22,60 - 23,40	30	22,60 - 23,40	31	31,00 - 31,75	32
23,40 - 24,15	31	23,40 - 24,15	32	31,75 - 32,50	33
24,15 - 24,90	32	24,15 - 24,90	33	32,50 - 33,30	34
24,90 - 25,65	33	24,90 - 25,65	34	33,30 - 34,05	35
25,65 - 26,40	34	25,65 - 26,40	35		
26,40 - 27,20	35				

Other lengths on request.

Preferred dash-lengths

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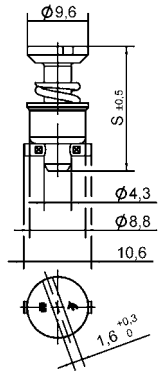
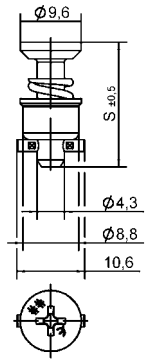
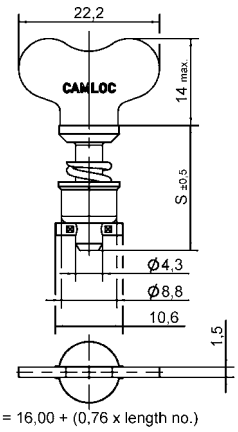
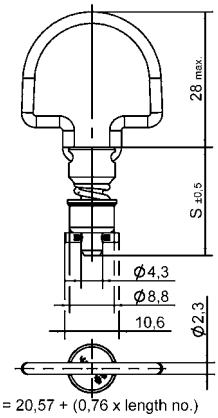
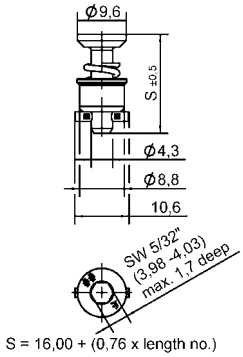
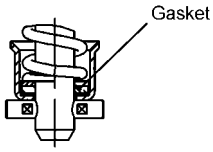
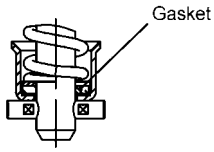
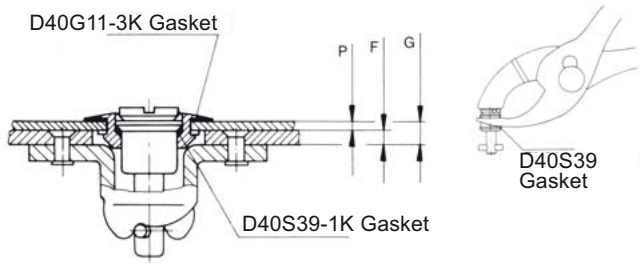
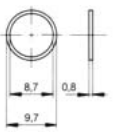
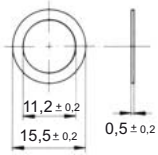
D 4002 Series
Stud Assemblies

Style	Dimensions	Materials / Finish	°C	Part No.
Slotted Recess Head	 S = 16,00 + (0,76 x length no.)	Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-*AGV**
Cross Recess Head	 S = 16,00 + (0,76 x length no.)	Steel / zinc-plated CrVI-free, clear passivation	120	**D40S5-*AGV**
Fixed Wing Head	 S = 16,00 + (0,76 x length no.)	Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-*WAGV**
180° Folding Bail Handle	 S = 20,57 + (0,76 x length no.)	Steel / zinc-plated, CrVI-free, clear passivation	120	**D40S47-*AGV**

* Length no. from Table, page G-2 and G-3

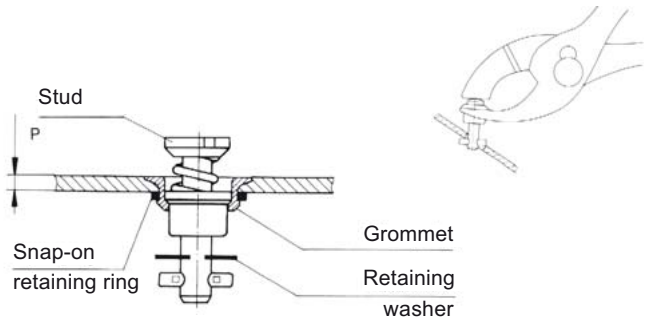
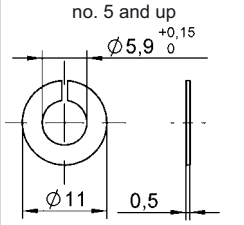
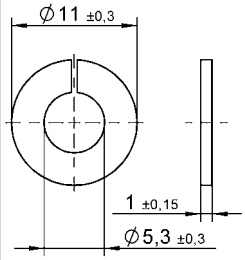
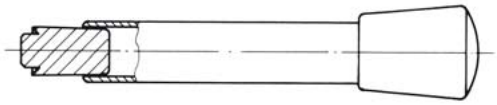
D 4002 Series
Stud Assemblies

Style	Dimensions	Materials / Finish	°C	Part No.
Hex Recess Head	 S = 16,00 + (0,76 x length no.)	Steel / zinc-plated, CrVI-free, clear passivation	120	**D40E28- *AGV**
Sealed Slotted Recess Head	 Additional required gasket see page G-4	Steel / zinc-plated, CrVI-free, clear passivation Gasket: Rubber Available in Stud Length no. 4 and above	100	**D4002I-*AGV**
Sealed Cross Recess Head	 Additional required gasket see page G-4	Steel / zinc-plated, CrVI-free, clear passivation Gasket: Rubber Available in Stud Length no. 4 and above	100	**D40S5I-*AGV**

Installation Dimensions	Accessories	Materials / Finish	Part No.
Gasket to be ordered in addition to the sealed stud assembly 	Gasket 	Plastic / (PA6)	**D40S39-1K**
	Gasket 	EPDM black	**D40G11-3K**

* Length no. from Table, page G-2 and G-3

D 4002 Series
Stud Assemblies

Installation Dimensions	Accessories	Materials / Finish	Part No.
 4P3-1 installation pliers, see below	retaining ring loose on stud use for stud length no. 5 and up  retaining ring loose on stud use for stud length no. 5 and up 	Stainless steel Plastic	**4002-SW-SS** **50W204-01K**
	Stud installation pliers		**4P3-1**
	**R4G-* and V40G26-1N snap-on retaining ring installation tool**		**T26**

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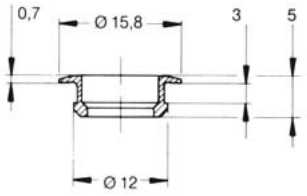
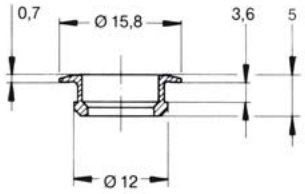
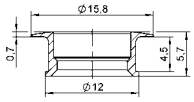
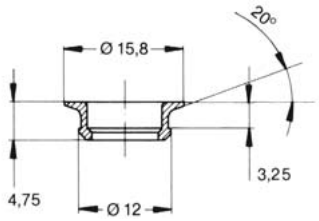
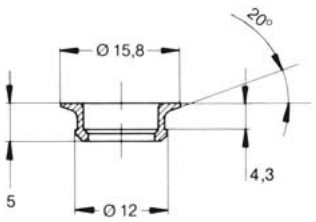
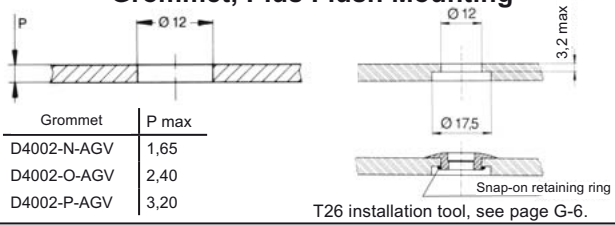
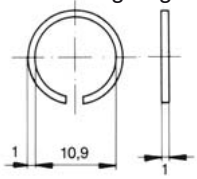
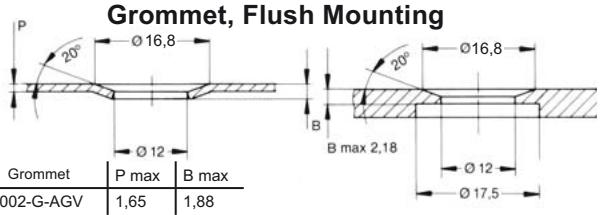
D 4002 Series
Grommets

Style	Dimensions	Materials / Finish	°C	Part No.
Plus Flush Mounting **For Panel Thickness up to 1,65** 		Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-N-AGV**
Plus Flush Mounting **For Panel Thickness from 1,65 to 2,40** 		Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-O-AGV**
Plus Flush Mounting **For Panel Thickness from 2,40 to 3,20** 		Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-P-AGV**
Flush Mounting **For Panel Thickness up to 1,65** 		Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-G-AGV**
Flush Mounting **For Panel Thickness from 1,65 to 2,18** 		Steel / zinc-plated, CrVI-free, clear passivation	120	**D4002-H-AGV**

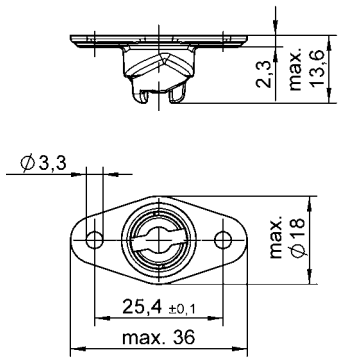
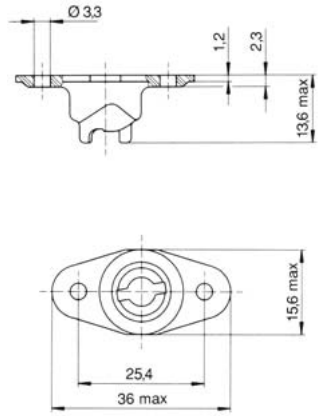
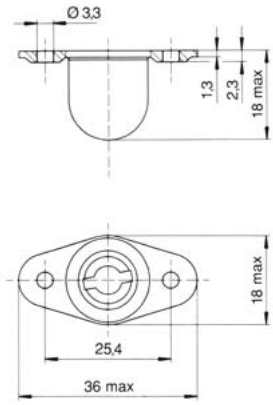
Grommets for thicker panels upon request.

Installation Dimensions	Accessories	Materials / Finish	Part No.
Grommet, Plus Flush Mounting  T26 installation tool, see page G-6.	Snap-on retaining ring 	Steel / zinc plated, CrVI-free, clear passivation	**R4G-3**
Grommet, Flush Mounting  T26 installation tool, see page G-6.			

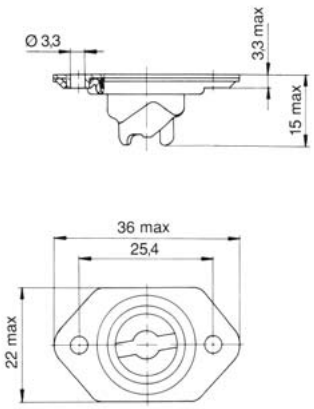
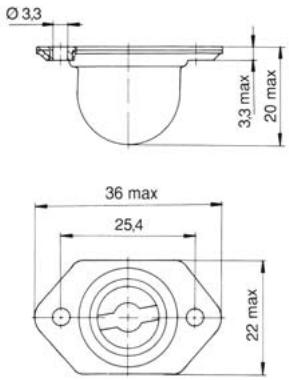
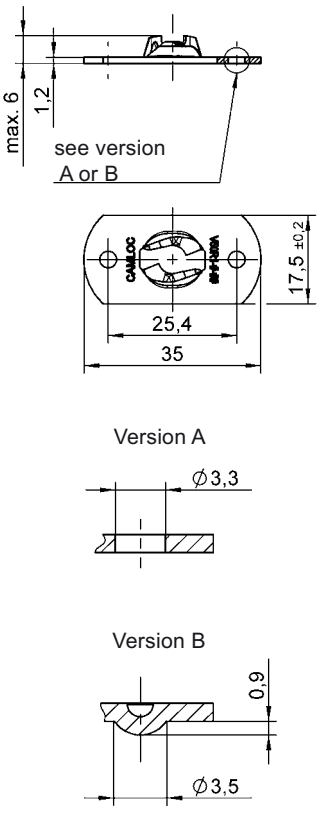
Grommet	P max	B max
D4002-G-AGV	1,65	1,88
D4002-H-AGV	2,18	2,97

Grommet	P max
D4002-N-AGV	1,65
D4002-O-AGV	2,40
D4002-P-AGV	3,20

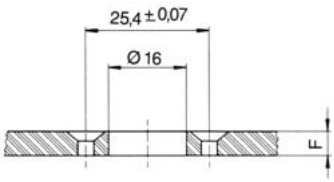
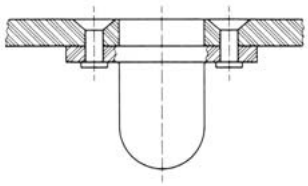
D 4002 Series
Receptacles

Style	Dimensions	Materials / Finish	°C	Part No.
Type 1 Cast 		Hard bronze / zinc-plated, CrVI-free, clear passivation	120	**D214-16FGV**
Type 1 Cast Narrow Width 		Hard bronze / zinc-plated, CrVI-free, clear passivation	120	**D214-16NFGV**
Type 1 Cast Encapsulated 		Hard bronze / zinc-plated, CrVI-free, clear passivation Capsule: Brass / zinc-plated, CrVI-free, clear passivation	150	**D40R12-1FGV**

D 4002 Series
Receptacles

Style	Dimensions	Materials / Finish	°C	Part No.
Type 2 **Float up to 0,75 mm*** **(Cast Receptacle)** 		Hard bronze / zinc-plated, CrVI-free, clear passivation Cage: Steel / zinc-plated, CrVI-free, clear passivation	120	**D244-16-FGV**
Type 2 **Float up to 0,75 mm*** **Encapsulated** 		Hard bronze / zinc-plated, CrVI-free, clear passivation Capsule: Steel / zinc-plated, CrVI-free, clear passivation	120	**D244-16C-FGV**
Type 3 **Flat** **Rivet / Screw or** **Weld Mounting** 		**Rivet / Screw Mounting** Hard bronze / zinc-plated, CrVI-free, clear passivation **Welding** Steel / zinc-plated	120 -	**V50R1-1-1AGV** **V50R1-1-2AZ** **V50R1-1-2AR**

D 4002 Series
Receptacle Installation Instructions

Installation Dimensions

Types 1, 2 and 3
Receptacle Hole Pattern