

Particular Features

Max. tensile strength 670 N.

Plastic washer stud assembly to protect decorative surfaces.

Spring loaded receptacle.

Selection Instructions

1. Select stud assembly and receptacle, page B-2 und B-4.
2. Select retaining washer or grommet, page B-3.
3. Select stud length number from total thickness G using the formula and table below, insert into stud part number * (e.g. V5S5-*AGV).

Determining the stud length number:

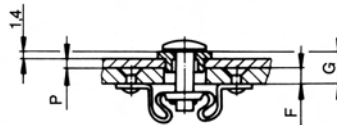
With retaining washer

$$G = P + F$$



With Grommet

$$G = P + F + 1,4$$


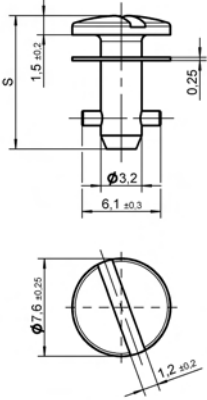

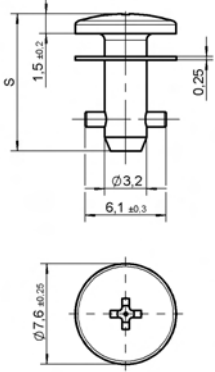


Stud Length Table

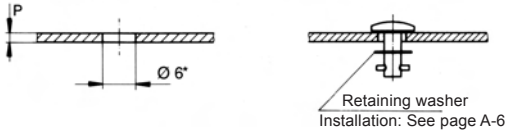
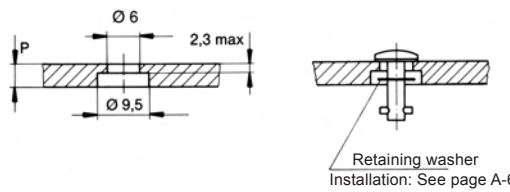
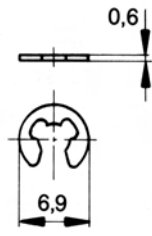
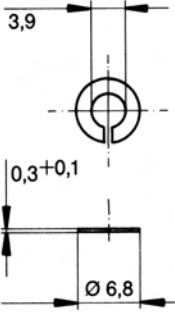

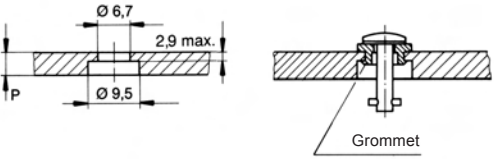
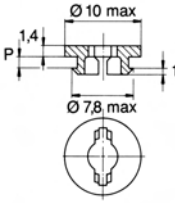
Total Thickness G	Stud Length No. When Using Receptacles
0,50 - 0,90	1
0,90 - 1,30	2
1,30 - 1,65	3
1,65 - 2,05	4
2,05 - 2,40	5
2,40 - 2,80	6
2,80 - 3,20	7
3,20 - 3,55	8
3,55 - 3,95	9
3,95 - 4,30	10
4,30 - 4,70	11
4,70 - 5,10	12
5,10 - 5,45	13
5,45 - 5,85	14
5,85 - 6,20	15
6,20 - 6,60	16
6,60 - 7,00	17
7,00 - 7,35	18
7,35 - 7,75	19
7,75 - 8,15	20
8,15 - 8,50	21


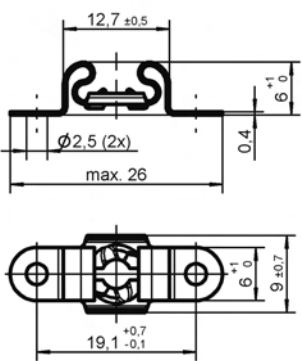
Other lengths on request.

■ Preferred dash-lengths

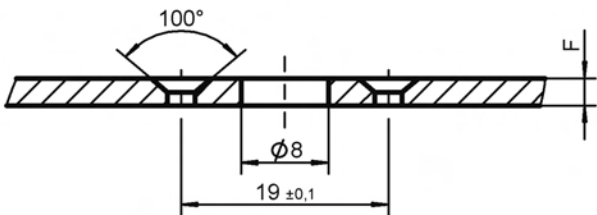
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p> 	 <p>$S = 6,70 + (0,38 \times \text{length no.})$</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p> <p>Steel / nickel-plated with plastic washer (PA6)</p>	<p>120</p> <p>120</p>	<p>V5S5- *AGV</p> <p>5S27-*</p>
<p>Cross Recess Head</p> 	 <p>$S = 6,70 + (0,38 \times \text{length no.})$</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p> <p>Stainless steel with stainless steel washer (tensile strength 470 N max.)</p>	<p>120</p> <p>230</p>	<p>V5S21- *AGV</p> <p>5S15-*</p>

* Length no. from Table, page B-1.
For installation dimensions see page B-3.

Installation Dimensions	Accessories	Material / Finish	Panel Thickness P	Part No.						
<p>Retainig Washer Panel Thickness P up to 2,3</p>  <p>Retainig washer Installation: See page A-6</p> <p>Panel thickness P over 2,3</p>  <p>Retainig washer Installation: See page A-6</p> <p>* For P up 1,4 : Ø 5,6 for installation without retaining washer</p>	<p>Retainig washer</p>  <p>Retainig washer</p> 	<p>Steel/zinc-plated, CrVI-free, transparent passivated</p> <p>Stainless steel</p>	<p></p>	<p>V5W3-1AG</p> <p>5S3-2</p>						
<p>Snap-In Grommet Panel thickness P up to 2,9</p>  <p>Grommet</p> <table border="1" data-bbox="199 1478 375 1556"> <thead> <tr> <th>P max</th> <th>G min</th> </tr> </thead> <tbody> <tr> <td>1,4</td> <td>2,0</td> </tr> <tr> <td>2,9</td> <td>3,5</td> </tr> </tbody> </table> <p>Panel thickness P over 2,9</p>  <p>Grommet</p>	P max	G min	1,4	2,0	2,9	3,5	<p>Grommet</p> 	<p>Plastic (PA6) black</p>	<p>to 1,4</p> <p>1,8 - 2,9</p>	<p>5S72-5-1AA</p> <p>5S72-9-1AA</p>
P max	G min									
1,4	2,0									
2,9	3,5									

Style	Dimensions	Materials / Finish	°C	Part-No.
Type 1 Rivet / Screw Mounting 		Steel / zinc flake coated	230	V5R2-1AK7
		Stainless steel	230	5R2-3

Receptacle Installation Instructions

Dimensions
<p style="text-align: center;">Rivet / Screw Mounting</p> 

Particular Features

Max. tensile strength 700 N.

Increased grip range.

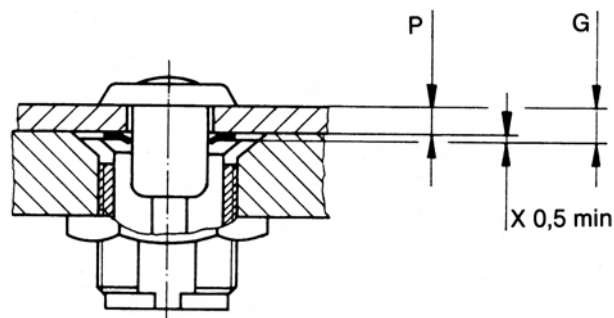
Receptacles with external thread for screwing or retaining nut (see page C-3).

Encapsulated design, splash-proof.

Selection Instructions

1. Select stud assembly and receptacle, page C-2 and C-3.
2. Select hex nut for receptacle, if necessary, page C-3.
3. Select stud retaining washer, page C-2.
4. Select stud length number from total thickness G using the formula and table below, insert into stud part number * (e.g. 99S10-*A1).


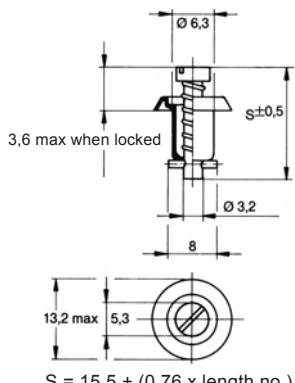
Determining the stud length number:



Total Thickness G	Stud Length No.
0,5 - 1,5	1
1,5 - 3,0	3
3,0 - 4,5	5
4,5 - 6,0	7
6,0 - 7,5	9
7,5 - 9,0	11
9,0 - 10,5	13
10,5 - 12,0	15
12,0 - 13,5	17
13,5 - 15,0	19

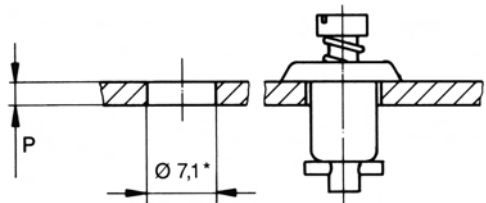
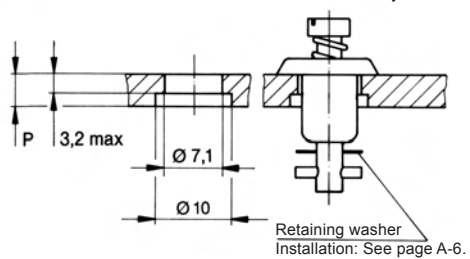
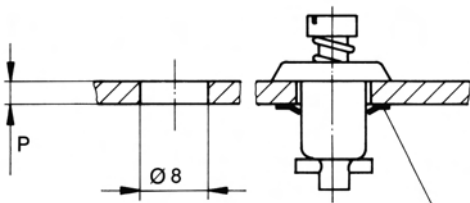
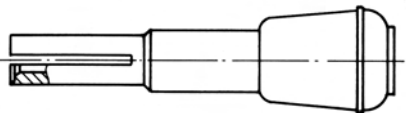
Other lengths on request.

■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p> 	 <p>S = 15,5 + (0,76 x length no.)</p>	Steel / zinc-plated, CrVI-free, transparent passivated	230	99S10-*A1

* Length no. from Table, see page C-1.

Stud Installation Instructions

Installation Dimensions	Accessories	Materials / Finish	Part No.
<p>Panel Thickness P 0,5 - 3,2</p>  <p>* For P up to 1,65 m Ø 6,5 for installation without retaining washer</p>	Retainig washer	Stainless steel	2600-SW
<p>Panel Thickness P over 3,2</p>  <p>Retaining washer Installation: See page A-6.</p>			
<p>Panel Thickness P 0,50 - 4,75</p>  <p>Retaining washer Installation: See page A-6.</p>	Retaining washer	Steel / zinc-plated, CrVI-free, transparent passivated	99W10-01A1
		Stainless steel	V2600-LW-7
	Mounting tool for Retainig washer V2600-LW-7		T98-1

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Open</p>		Zinc die casting / zinc-plated, CrVI-free, transparent passivated	150	99R10-01A1
<p>Encapsulated</p>		Zinc die casting / zinc-plated, CrVI-free, transparent passivated Capsule: Stainless steel	150	99E10-01

Receptacle Installation Instructions

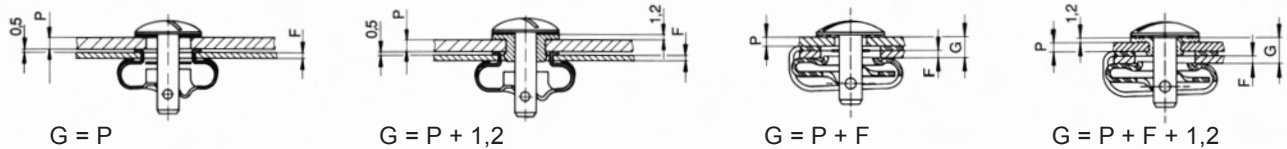
Installation Dimensions	Accessories	Materials / Finish	Part No.
	<p>Retaining nut</p> <p>Tap</p>	Steel / zinc-plated, CrVI-free, transparent passivated	<p>99N10-01A1</p> <p>15/32-32UNS-2B</p>

Particular Features

- Max. tensile strength 900 N.
- Plastic washer stud assembly to protect decorative surfaces.
- Spring loaded receptacle as snap-in and clip-on design.
- Snap-in grommet for quick stud installation without retaining washer.

Selection Instructions

1. Select stud assembly and receptacle, page D-2 to D-4 and D-6.
2. Select retaining washer or grommet, page D-5.
3. Select stud length number from total thickness G using the formula and table below, insert into stud part number * (e.g. 50E21-*AGV).


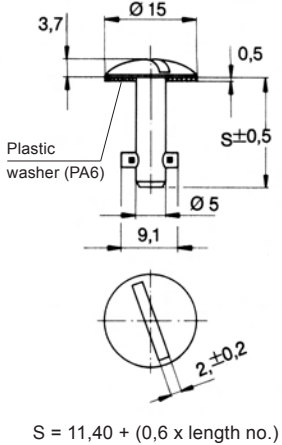

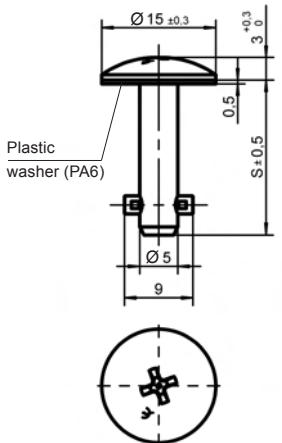

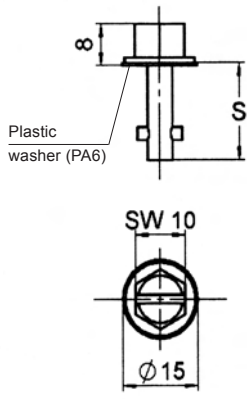


Stud Length Table


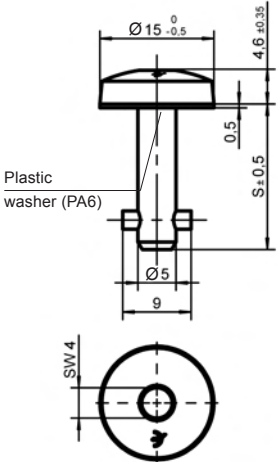

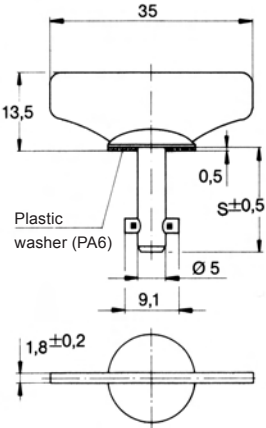

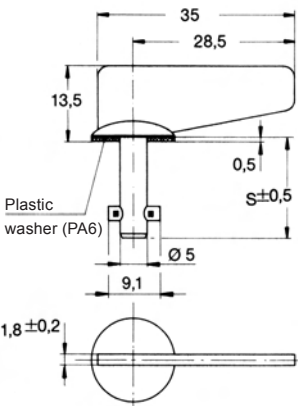
Total Thickness G	Stud Length No. when using Receptacles Type 1 F= 1,0 - 2,1	Total Thickness G	Stud Length No. when using Receptacles Type 1 F= 2,1 - 3,0	Total Thickness G	Stud Length No. when using Receptacles Type 2
0,50 - 1,10	5	0,50 - 1,10	7	2,30 - 2,90	5
1,10 - 1,70	6	1,10 - 1,70	8	2,90 - 3,50	6
1,70 - 2,30	7	1,70 - 2,30	9	3,50 - 4,10	7
2,30 - 2,90	8	2,30 - 2,90	10	4,10 - 4,70	8
2,90 - 3,50	9	2,90 - 3,50	11	4,70 - 5,30	9
3,50 - 4,10	10	3,50 - 4,10	12	5,30 - 5,90	10
4,10 - 4,70	11	4,10 - 4,70	13	5,90 - 6,50	11
4,70 - 5,30	12	4,70 - 5,30	14	6,50 - 7,10	12
5,30 - 5,90	13	5,30 - 5,90	15	7,10 - 7,70	13
5,90 - 6,50	14	5,90 - 6,50	16	7,70 - 8,30	14
6,50 - 7,10	15	6,50 - 7,10	17	8,30 - 8,90	15
7,10 - 7,70	16	7,10 - 7,70	18	8,90 - 9,50	16
7,70 - 8,30	17	7,70 - 8,30	19	9,50 - 10,10	17
8,30 - 8,90	18	8,30 - 8,90	20	10,10 - 10,70	18
8,90 - 9,50	19	8,90 - 9,50	21	10,70 - 11,30	19
9,50 - 10,10	20	9,50 - 10,10	22	11,30 - 11,90	20
10,10 - 10,70	21	10,10 - 10,70	23	11,90 - 12,50	21
10,70 - 11,30	22	10,70 - 11,30	24	12,50 - 13,10	22
11,30 - 11,90	23	11,30 - 11,90	25	13,10 - 13,70	23
11,90 - 12,50	24	11,90 - 12,50	26	13,70 - 14,30	24
12,50 - 13,10	25	12,50 - 13,10	27	14,30 - 14,90	25
13,10 - 13,70	26	13,10 - 13,70	28	14,90 - 15,50	26
13,70 - 14,30	27	13,70 - 14,30	29	15,50 - 16,10	27
14,30 - 14,90	28	14,30 - 14,90	30	16,10 - 16,70	28
14,90 - 15,50	29	14,90 - 15,50	31	16,70 - 17,30	29
15,50 - 16,10	30	15,50 - 16,10	32	17,30 - 17,90	30

Other lengths on request.


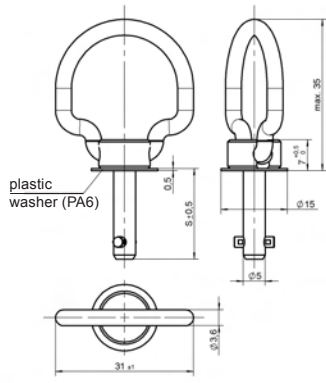

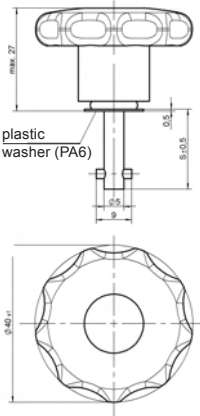

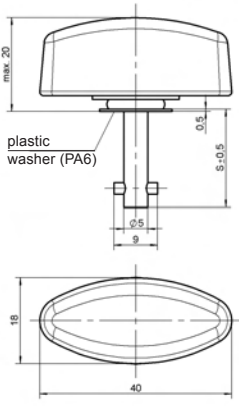
■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p> 	 <p>$S = 11,40 + (0,6 \times \text{length no.})$</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p> <p>Stainless steel with plastic washer (PA6)</p>	<p>80</p> <p>80</p>	<p>50E21-*AGV</p> <p>50E21-*S</p>
<p>Cross Recess Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p>	<p>80</p>	<p>50E70-*AGV</p>
<p>Hex Head Slotted Recess</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p>	<p>80</p>	<p>50E90-*AGV</p>

* Length no. from Table, see page D-1.

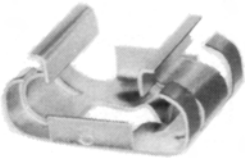
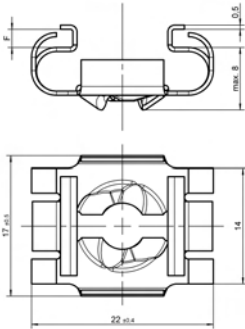

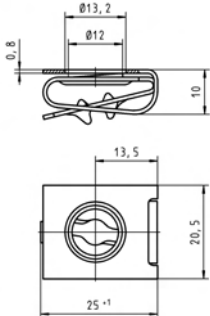
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Hex Recess Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p>	<p>80</p>	<p>50E60-*AGV</p>
<p>Fixed Wing Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p>	<p>80</p>	<p>50E21-*WAGV</p>
<p>Offset Fixed Wing Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)</p>	<p>80</p>	<p>50E21-*W0AGV</p>

* Length no. from Table, see page D-1.

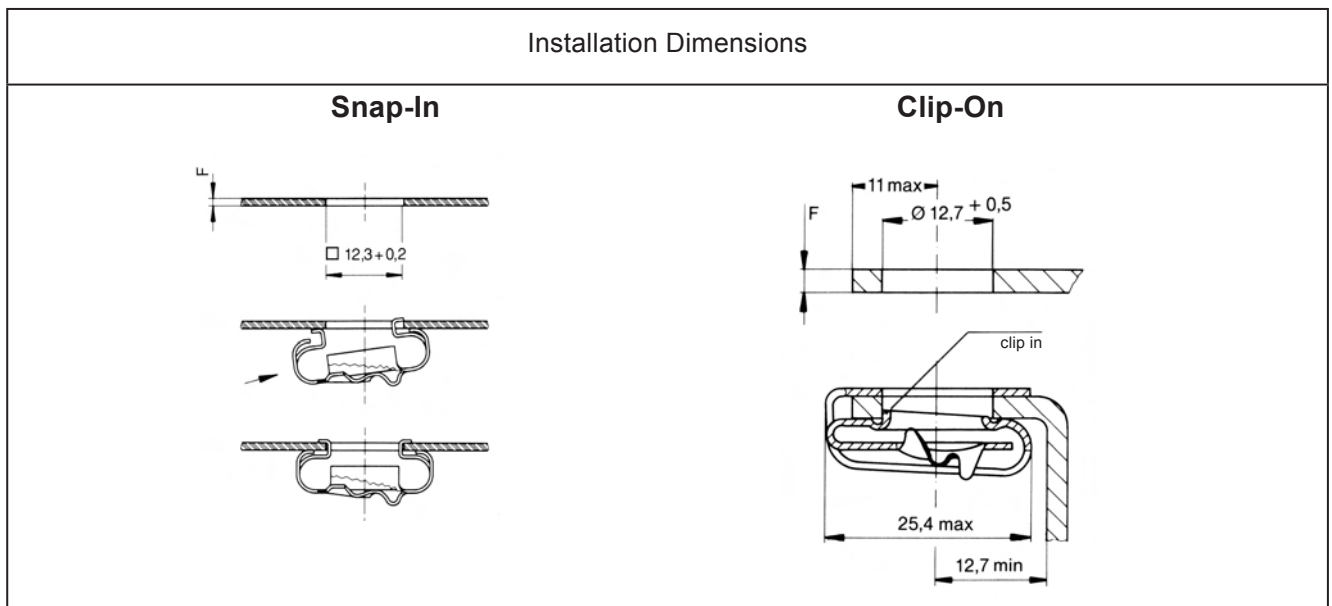
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Folding Bail Handle</p> 		Steel / zinc-plated, CrVI-free, transparent passivated with plastic washer (PA6)	80	50E18-*AGV
<p>Star Formed Head</p> 		Steel / zinc-plated, CrVI-free, transparent passivated with plastic head and plastic washer (PA6)	- 40 up to + 60	50E80-*AGV
<p>Wing Head</p> 		Steel / zinc-plated, CrVI-free, transparent passivated with plastic head and plastic washer (PA6)	- 40 up to + 60	50E82-*AGV
		Stainless steel with plastic head and plastic washer (PA6)	- 40 up to + 60	50E80-*CP
		Stainless steel with plastic head and plastic washer (PA6)	- 40 up to + 60	50E82-*CP

* Length no. from Table, see page D-1.

Style	Dimensions	Materials / Finish	P	Part No.
<p>Snap-In Grommet</p> <p>Grommet</p>	<p>Grommet</p>	<p>Plastic (PA6) / natural colour</p> <p>Working temperature: -40°C + 120°C</p>	Up to 1,60	50S12-0-1AA
			1,70 - 2,80	50S12-1-1AA
			2,90 - 4,00	50S12-2-1AA
			4,10 - 5,30	50S12-3-1AA
			5,40 - 6,65	50S12-4-1AA
<p>Retaining Washer</p> <p>Retaining washer Installation: see page A-6.</p>	<p>Retaining washer</p> <p>Retaining washer</p> <p>Retaining washer</p>	<p>Stainless steel</p> <p>Stainless steel</p> <p>Plastic (PA6) / natural colour</p> <p>Working temperature: -40°C + 120°C</p> <p>ADVANTAGE: Plastic retaining washer to be assembled without tooling</p>		4002-SW-SS
				50E2-3BP
				50W204-01K
<p>For P up to 2mm Ø 8^{+0,2} for installation without retaining washer (see E-5)</p>				

Style	Dimensions	Materials / Finish	Panel Thickness P	Part No.	Part No.
Type 1 Snap-In 		Spring steel / zinc-flake coated Spring steel / zinc-flake coated Max. tensile strength 250 N	F = 1,0 - 2,0	170	50E20-1AK7
			F = 2,1 - 3,0	170	50E20-2AK7
Type 2 Clip-On 		Spring steel / zinc-flake coated	F = 0,8 - 5,6	170	V50R4-2-1AK7

Receptacle Installation Instructions

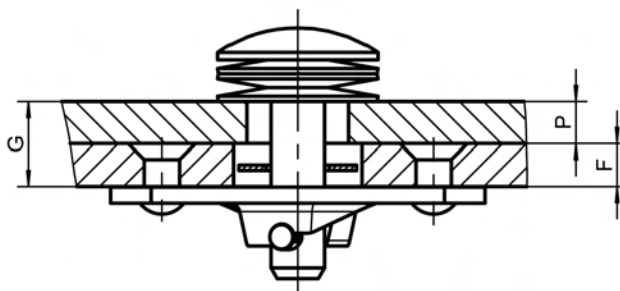


Particular Features

Max. tensile strength 3.700 N.
 Small-size fastener for high tensile load.
 Flat receptacle.
 High preload.

Selection Instructions

1. Select stud assembly and receptacle, page E-2 to E-4 and E-6.
2. Select retaining washer, page E-5.
3. Select stud length number from total thickness G using the formula and table below, insert into stud part number * (e.g. 50E8-*AGV).




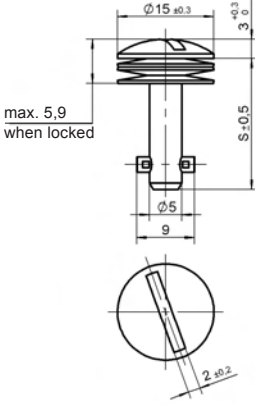

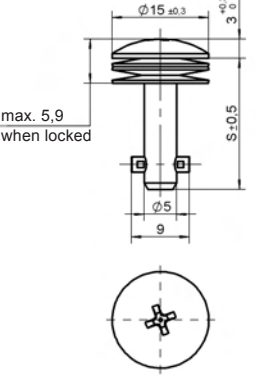

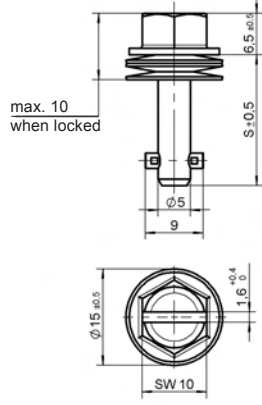
Stud Length Table

Total Thickness G	Stud Length No.
0,50 - 1,10	2
1,10 - 1,70	3
1,70 - 2,30	4
2,30 - 2,90	5
2,90 - 3,50	6
3,50 - 4,10	7
4,10 - 4,70	8
4,70 - 5,30	9
5,30 - 5,90	10
5,90 - 6,50	11
6,50 - 7,10	12
7,10 - 7,70	13
7,70 - 8,30	14
8,30 - 8,90	15
8,90 - 9,50	16
9,50 - 10,10	17
10,10 - 10,70	18

Total Thickness G	Stud Length No.
10,70 - 11,30	19
11,30 - 11,90	20
11,90 - 12,50	21
12,50 - 13,10	22
13,10 - 13,70	23
13,70 - 14,30	24
14,30 - 14,90	25
14,90 - 15,50	26
15,50 - 16,10	27
16,10 - 16,70	28
16,70 - 17,30	29
17,30 - 17,90	30
17,90 - 18,50	31
18,50 - 19,10	32
19,10 - 19,70	33
19,70 - 20,30	34
20,30 - 20,90	35


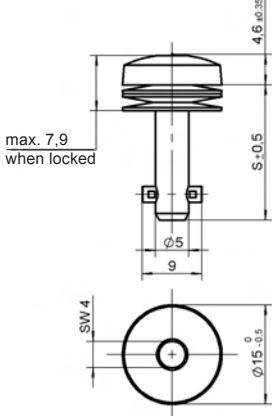

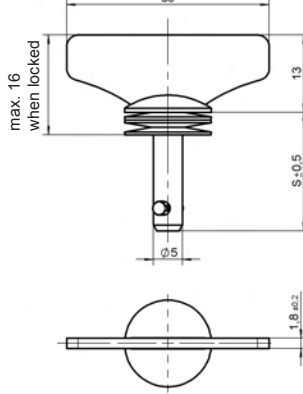

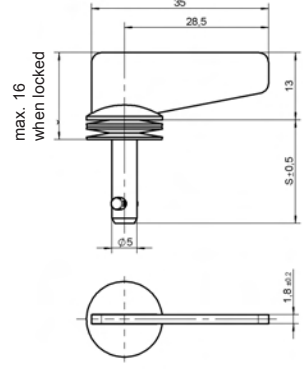
Other lengths on request.

■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p> <p>Stainless steel ¹⁾</p>	<p>230</p> <p>230</p>	<p>50E8-*AGV</p> <p>50E8-*S</p>
<p>Cross Recess Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>50E71-*AGV</p>
<p>Hex Head Slotted Recess</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>50E91-*AGV</p>

* Length no. from Table, page E-1.

¹⁾Max. tensile strength 2.600 N.

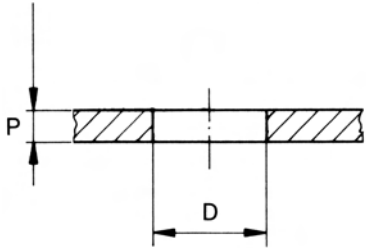
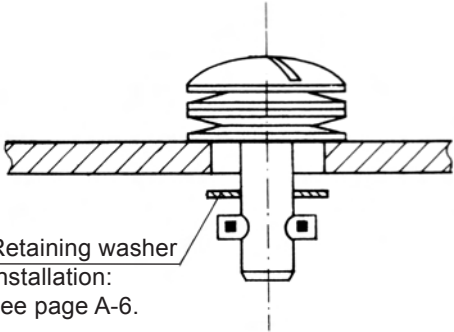
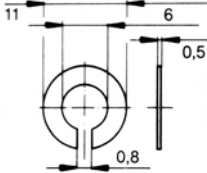
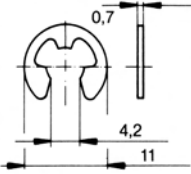
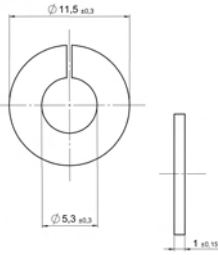
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Hex Recess Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>50E61-*AGV</p>
<p>Fixed Wing Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>50E8-*WAGV</p>
<p>Offset Fixed Wing Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>		<p>50E8-*W0AGV</p>


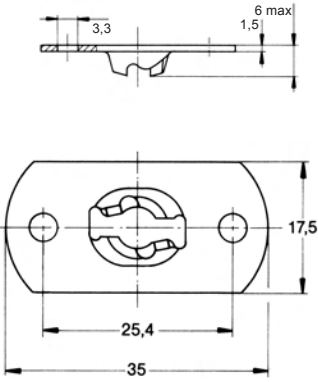
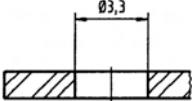
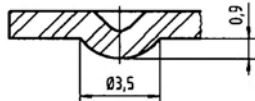
* Length no. from Table, page E-1.

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Folding Bail Handle</p>		Steel / zinc-plated, CrVI-free, transparent passivated	230	50E19-*AGV
<p>Star Formed Head</p>		Steel / zinc-plated, CrVI-free, transparent passivated with plastic knob Stainless steel ¹⁾ with plastic knob	-40 up to +60 -40 up to +60	50E81-*AGV 50E81-*CP
<p>Wing Head</p>		Steel / zinc-plated, CrVI-free, transparent passivated with plastic knob Stainless steel ¹⁾ with plastic knob	-40 up to +60 -40 up to +60	50E83-*AGV 50E83-*CP
<p>Square Head</p>		Steel / zinc-plated, CrVI-free, transparent passivated	230	50E7-*AGV

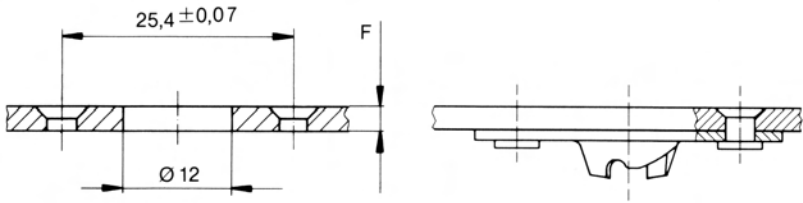
* Length no. from Table, page E-1.

¹⁾ Max. tensile strength 2.600 N.

Installation Dimensions	Accessories	Material / Finish	Part No.
  <p>Retaining washer Installation: see page A-6.</p> <p>For P up to 2 mm $\text{Ø}8^{+0.2}$ for installation without retaining washer</p>	<p>Retaining washer (loose)</p>  <p>Retaining washer (fixed)</p>  <p>Retaining washer (loose)</p> 	<p>Stainless steel</p> <p>Stainless steel</p> <p>Plastic (PA6) / natural colour</p> <p>Working temperature: -40°C + 120°C</p> <p>ADVANTAGE: Plastic retaining washer to be assembled without tooling.</p>	<p>4002-SW-SS</p> <p>50E2-3BP</p> <p>50W204-01K</p>

Style	Dimensions	Materials / Finish	°C	Part No.
Rivet- / Screw or Weld Mounting 	 <p>Version A Rivet/Screw Mounting</p>  <p>Version B Welding</p> 	Rivet / Screw Mounting Steel / zinc-plated, CrVI-free, transparent passivated	230	V50R3-1-1AGV
		Stainless steel	230	V50R3-1-1BP
		Welding Steel / zinc-plated	230	V50R3-1-2AZ

Receptacle Installation Instructions

Installation Dimensions
<p>Rivet- / Screw or Weld Mounting</p> 

Particular Features

Max. tensile strength 1.330 N.

Small-size fastener for high tensile load.

Wide variety of conventional stud assembly and receptacle designs.

2600 Series: Fillister head; 2700 Series: Flush head.

Selection Instructions

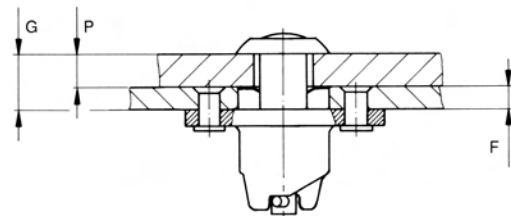
1. Select stud assembly and receptacle, page F-3 up to F-5, F-7 up to F-10.
2. Select stud accessories (retaining washer, gasket), page F-6 and F-7.
3. Select hex nut for receptacle, if necessary, page F-10.
4. Select stud length number from total thickness G using the formula and table on page F-2 insert into stud part number * (e.g. V26S01-*AGV).

Determining the stud length number when using receptacle:

Type 1 + 3*

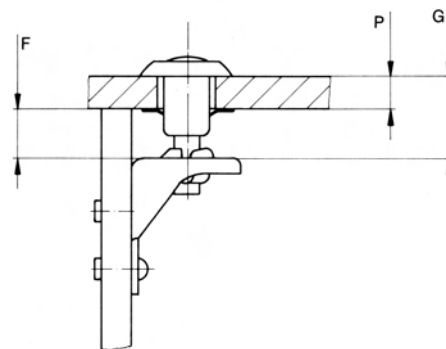
$$G = P + F$$

* For Type 3: G = 9,9 mm min.



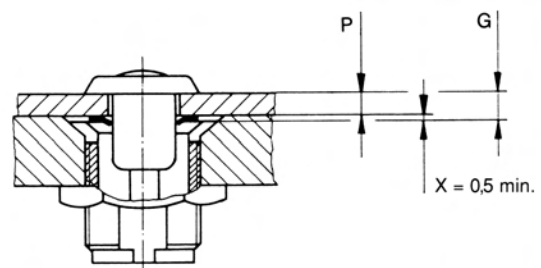
Type 2

$$G = P + F \text{ (0,75 min.)}$$



Type 4


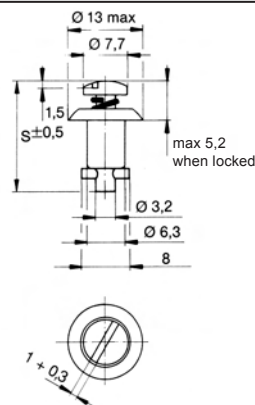

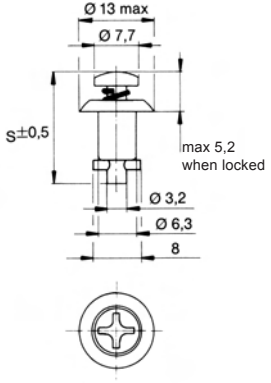

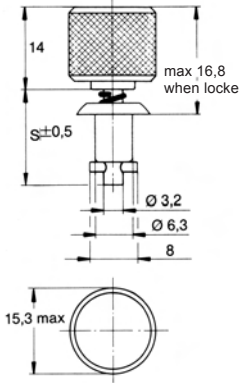

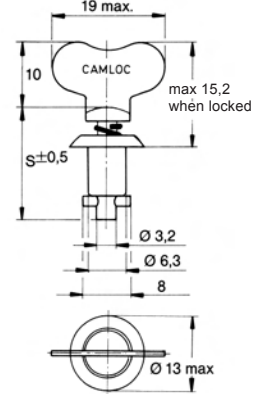
$$G = P + X \text{ (0,5 min.)}$$



Total Thickness G	Stud Length No. When Using Type 1 Receptacles	Total Thickness G	Stud Length No. When Using Type 2 + 4 Receptacles	Total Thickness G	Stud Length No. When Using Type 3 Receptacles
0,75 - 1,50	1	0,75 - 1,50	2	9,90 - 10,65	1
1,50 - 2,30	2	1,50 - 2,30	3	10,65 - 11,40	2
2,30 - 3,05	3	2,30 - 3,05	4	11,40 - 12,20	3
3,05 - 3,80	4	3,05 - 3,80	5	12,20 - 12,95	4
3,80 - 4,60	5	3,80 - 4,60	6	12,95 - 13,70	5
4,60 - 5,35	6	4,60 - 5,35	7	13,70 - 14,50	6
5,35 - 6,10	7	5,35 - 6,10	8	14,50 - 15,25	7
6,10 - 6,85	8	6,10 - 6,85	9	15,25 - 16,00	8
6,85 - 7,60	9	6,85 - 7,60	10	16,00 - 16,75	9
7,60 - 8,40	10	7,60 - 8,40	11	16,75 - 17,50	10
8,40 - 9,15	11	8,40 - 9,15	12	17,50 - 18,30	11
9,15 - 9,90	12	9,15 - 9,90	13	18,30 - 19,05	12
9,90 - 10,65	13	9,90 - 10,65	14	19,05 - 19,80	13
10,65 - 11,40	14	10,65 - 11,40	15	19,80 - 20,60	14
11,40 - 12,20	15	11,40 - 12,20	16	20,60 - 21,35	15
12,20 - 12,95	16	12,20 - 12,95	17	21,35 - 22,10	16
12,95 - 13,70	17	12,95 - 13,70	18	22,10 - 22,85	17
13,70 - 14,50	18	13,70 - 14,50	19	22,85 - 23,60	18
14,50 - 15,25	19	14,50 - 15,25	20	23,60 - 24,40	19
15,25 - 16,00	20	15,25 - 16,00	21	24,40 - 25,15	20
16,00 - 16,75	21	16,00 - 16,75	22	25,15 - 25,90	21
16,75 - 17,50	22	16,75 - 17,50	23	25,90 - 26,65	22
17,50 - 18,30	23	17,50 - 18,30	24	26,65 - 27,40	23
18,30 - 19,05	24	18,30 - 19,05	25	27,40 - 28,20	24
19,05 - 19,80	25	19,05 - 19,80	26	28,20 - 28,95	25
19,80 - 20,60	26	19,80 - 20,60	27	28,95 - 29,70	26
20,60 - 21,35	27	20,60 - 21,35	28	29,70 - 30,50	27
21,35 - 22,10	28	21,35 - 22,10	29	30,50 - 31,25	28
22,10 - 22,85	29	22,10 - 22,85	30	31,25 - 32,00	29
22,85 - 23,60	30	22,85 - 23,60	31	32,00 - 32,75	30
23,60 - 24,40	31	23,60 - 24,40	32	32,75 - 33,50	31
24,40 - 25,15	32	24,40 - 25,15	33	33,50 - 34,30	32
25,15 - 25,90	33	25,15 - 25,90	34	34,30 - 35,05	33
25,90 - 26,65	34	25,90 - 26,65	35	35,05 - 35,80	34
26,65 - 27,40	35	26,65 - 27,40	36	35,80 - 36,60	35
27,40 - 28,20	36	27,40 - 28,20	37	36,60 - 37,35	36
28,20 - 28,95	37	28,20 - 28,95	38	37,35 - 38,10	37
28,95 - 29,70	38	28,95 - 29,70	39	38,10 - 38,85	38
29,70 - 30,50	39	29,70 - 30,50	40	38,85 - 39,60	39
30,50 - 31,25	40	29,70 - 30,50	40	39,60 - 40,40	40


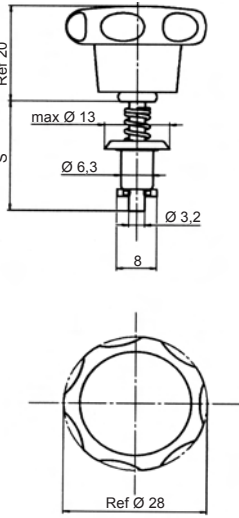

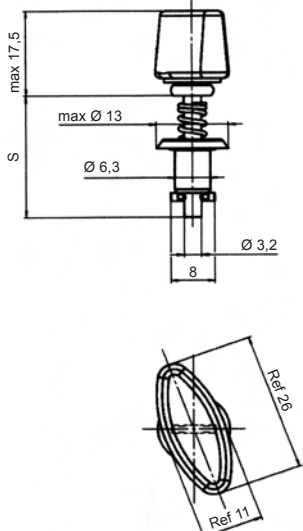

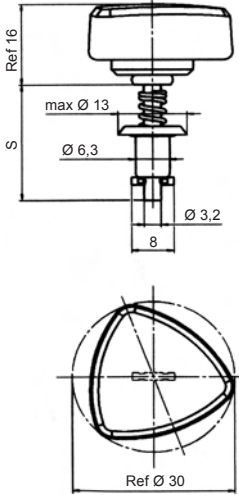
Other lengths on request.

■ Preferred dash-lengths


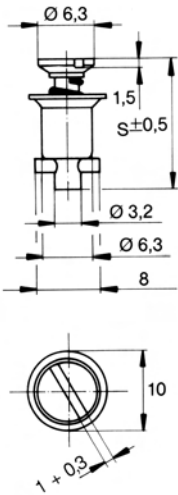

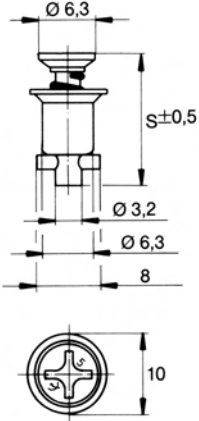
Style	Dimensions	Materials / Finish	°C	Part No.
Slotted Recess Fillister Head 		Steel / zinc-plated, CrVI-free, transparent passivated	230	V26S01-*AGV
		Steel / chrome-plated	230	26S38-*
		Stainless steel ¹⁾	230	2600-*S
		Steel / nickel-plated	230	26S42-*
Cross Recess Fillister Head (Phillips Gr.2) 		Steel / zinc-plated, CrVI-free, transparent passivated	230	V26S02-*AGV
		Steel / nickel-plated	230	26S39-*
		Stainless steel ¹⁾	230	26S51-*
Knurled Head 		Steel / chrome-plated	230	26S34-*
Fixed Wing Head 		Steel / zinc-plated, CrVI-free, transparent passivated	230	V26S04-*AGV
		Stainless steel ¹⁾	230	2600-*SW

* Length no. from Table, page F-2.

¹⁾ Max. Tensile strength 1.000 N.

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Star Formed Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic knob (PA6)</p> <p>Note: Not to be used with encapsulated receptacles</p>	<p>-40 up to +60</p>	<p>V26S06- *AGV</p>
<p>Wing Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic knob (PA6)</p> <p>Note: Not to be used with encapsulated receptacles</p>	<p>-40 up to +60</p>	<p>V26S07- *AGV</p>
<p>Triangular Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated with plastic knob (PA6)</p> <p>Note: Not to be used with encapsulated receptacles</p>	<p>-40 up to +60</p>	<p>V26S08- *AGV</p>

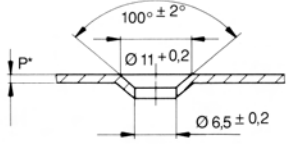
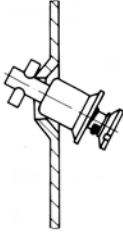
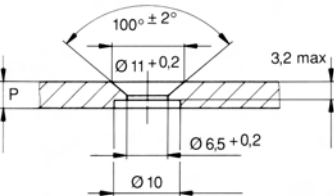
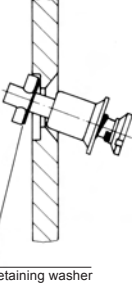
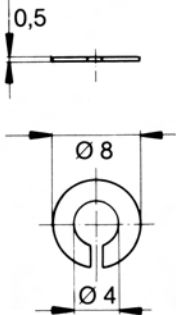
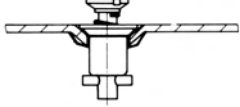
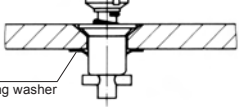
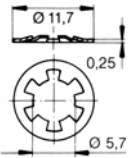
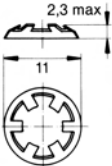
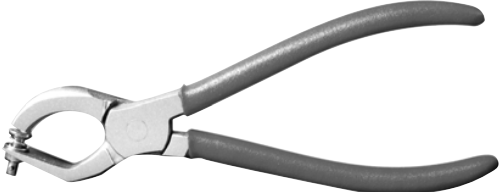
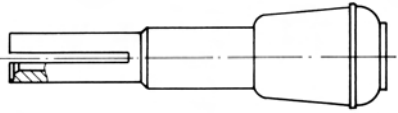
* Length no. from Table, page F-2.


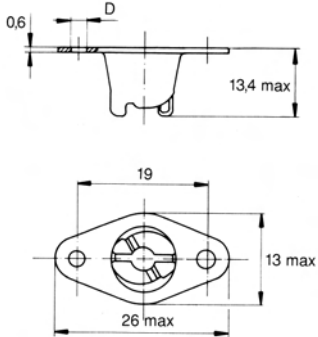

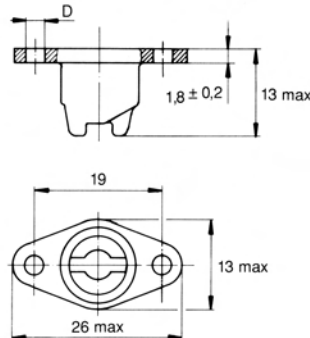
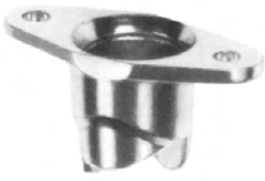
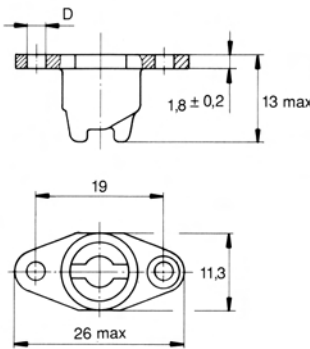

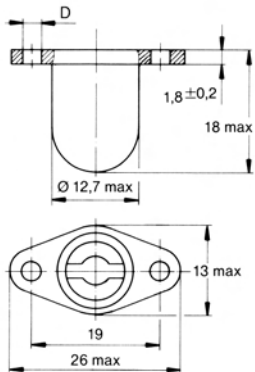
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Flush Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p> <p>Stainless steel ¹⁾</p>	<p>230</p> <p>230</p>	<p>V27S01-*AGV</p> <p>2700-*S</p>
<p>Cross Recess Flush Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>V27S02-*AGV</p>


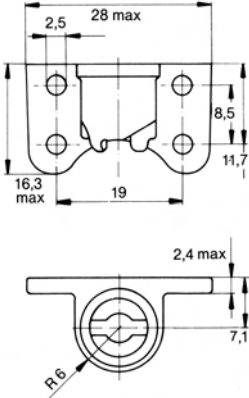

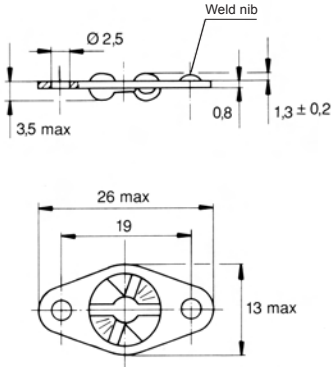
* Length no. from Table, page F-2.


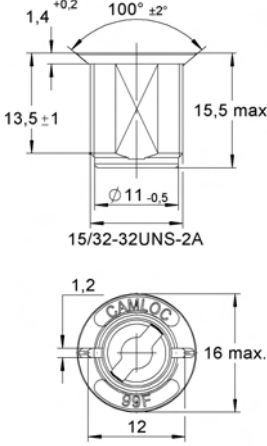

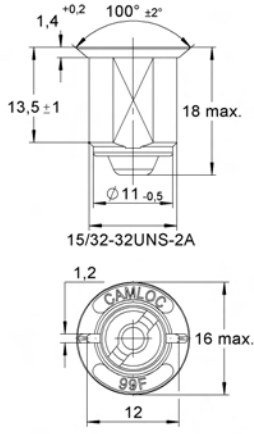
¹⁾Max. Tensile strength 1.000 N.

Installation Dimensions	Accessories	Material / Finish	Part No.
<p>Stud Without Retaining Washer, Retention Type</p> <p>4P3-1 installation pliers, see page F-7.</p>	-	<p>Note: Dash "4" stud and smaller are self-captivating</p>	-
<p>Stud Without Retaining Washer, Floating Type</p> <p>4P3-1 installation pliers, see page F-7.</p>	Retaining washer	<p>Stainless steel</p> <p>Note: Retaining rings are required for stud length dash numbers "5" and up</p>	2600-SW
<p>Stud With Retaining Washer, Fixed Spring Cup</p> <p>4P3-1 installation pliers, see page F-7.</p>	Retaining washer	<p>Stainless steel</p> <p>Not for chrome-plated parts</p>	V2600-LW-7
<p>Sealed</p> <p>4P3-1 installation pliers, see page F-7.</p>	Gaskets	<p>Rubber (100°C)</p> <p>Rubber (100°C)</p>	<p>AN6227-B6</p> <p>AN6227-B3</p>

Installation Dimensions	Accessories	Material / Finish	Part No.
<p>Stud Without Retaining Washer, Retention Type</p>  <p>* P = 0,5 - 3,2</p>  <p>Installation tool see below</p>	-	<p>-</p> <p>Note: Dash "4" stud and smaller are self-captivating</p>	-
<p>Stud Without Retaining Washer, Floating Type</p>  <p>Installation: see page A-6</p>  <p>Retaining washer</p> <p>Installation tool see below</p>	<p>Retaining washer</p> 	<p>Stainless steel</p> <p>Note: Retaining rings are required for stud length dash numbers "5" and up</p>	2600-SW
<p>Stud Without Retaining Washer, Fixed Spring Cup</p>   <p>Retaining washer</p> <p>Installation: see page A-6</p> <p>Installation tool see below</p>	<p>Retaining washer</p>  	<p>Stainless steel</p> <p>Steel / nickel-plated</p>	<p>V2600-LW-7</p> <p>V27W01-1AN</p>
	<p>Stud Installation pliers</p>	<p>4P3-1</p>	
	<p>V2600-LW-7 retaining washer installation tool</p>	<p>T98-1</p>	

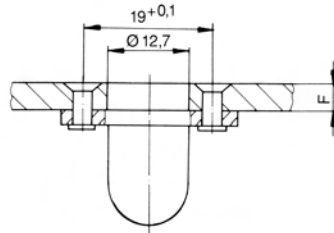
Style	Dimensions	Materials / Finish	D	°C	Part No.
<p>Type 1 Swage</p> 		Steel / zinc-plated, CrVI-free, transparent passivated	2,6	230	V26R6-1AGV
<p>Type 1 Cast</p> 		Hard bronze / zinc-plated, CrVI-free, transparent passivated	2,5	230	V212-12-1FGV
		Hard bronze / zinc-plated, CrVI-free, transparent passivated	3,3	230	V212-12-2FGV
		Stainless steel	2,5	230	212-12S
<p>Type 1 Narrow Width</p> 		Hard bronze / zinc-plated, CrVI-free, transparent passivated	2,5	230	V212-12N-1FGV
<p>Type 1 Encapsulated</p> 		Hard bronze / zinc-plated, CrVI-free, transparent passivated	2,5	150	26R16-1FGV
		Capsule: Steel / zinc-plated, CrVI-free, transparent passivated	2,5	150	26R18-1-1AA

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Type 2 Side Mounting</p> 		<p>Aluminium / anodized</p>	<p>175</p>	<p>26R1-1</p>
<p>Type 3 Rivet / Screw or Weld Mounting</p> 		<p>Rivet / Screw Mounting Steel / zinc-plated, CrVI-free, transparent passivated</p> <p>Stainless steel</p> <p>Welding Stainless steel</p>	<p>230</p> <p>230</p> <p>230</p>	<p>V312-12AGV</p> <p>312-12S</p> <p>312-12WS</p>

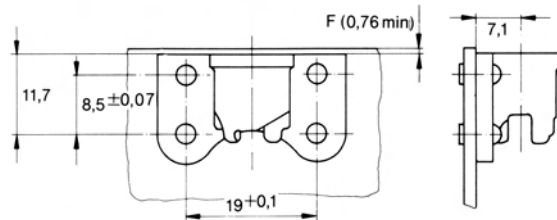
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Type 4 Single Hole Mounting</p> 		<p>Zinc die cast / zinc-plated, CrVI-free, clear chromate</p>	<p>150</p>	<p>99R10-01A1</p>
<p>Type 4 Single Hole Mounting Encapsulated</p> 		<p>Zinc die cast / zinc-plated, CrVI-free, clear chromate</p> <p>Capsule: Stainless steel</p>	<p>150</p>	<p>99E10-01</p>

Installation Dimensions

Type 1 + 3 Receptacles Hole Pattern



Type 2 Receptacles Hole Pattern (Side Mounting)



Installation Dimensions	Accessories	Materials / Finish	Part No.
<p>Installation Options Type 4 Receptacle</p> <p>Retaining nut Fastening torque 3*1Nm</p> <p>15 — 32 NS — 2B</p>	<p>Retaining nut</p> <p>Tap</p> <p>15/32-32UNS-2B</p>	<p>Steel / zinc-plated, CrVI-free, clear chromate</p>	<p>99N10-01A1</p> <p>15/32-32UNS-2B</p>

Particular Features

Max. tensile strength 4.700 N.

Small-size fastener for high tensile load.

Wide variety of conventional stud assembly and receptacle design.

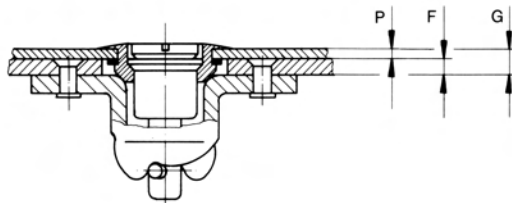
Floating receptacles available.

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. 16.
3. Select stud length number from total thickness G using the formula and the table on page G-2 and G-3 insert into stud part number * (e.g. 4002-*D).

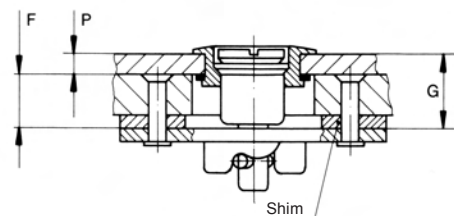
Determining the stud length number when using receptacle:

Type 1 + 2



$$G = P + F$$

Type 3



$$G = P + F (8,9 \text{ min.})$$

For Using the Following Grommet and Receptacles:

Flush Mounting Grommets

**4002-G-1 4002-H-2
4002-GS 4002-HS**

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

Other lengths on request.

■ Preferred dash-lengths

For Using the Following Grommet and Receptacles:


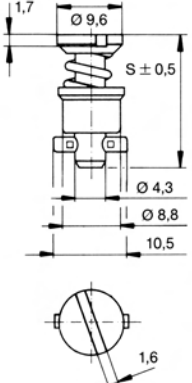

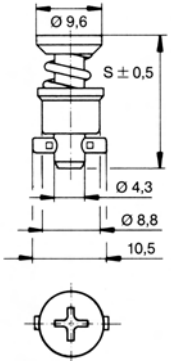

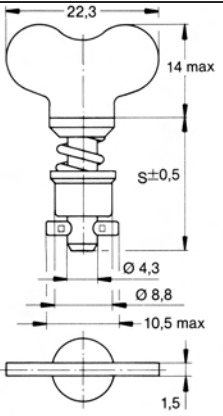

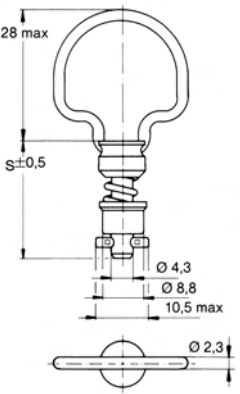
Plus Flush Mounting Grommets

**4002-N-3 4002-O-1
4002-NS 4002-OS**

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

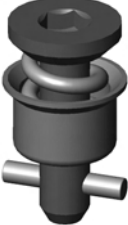
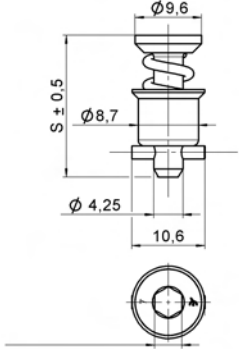

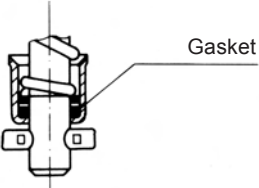

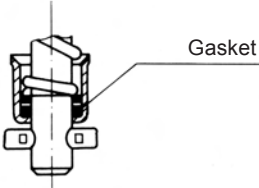
Other lengths on request.

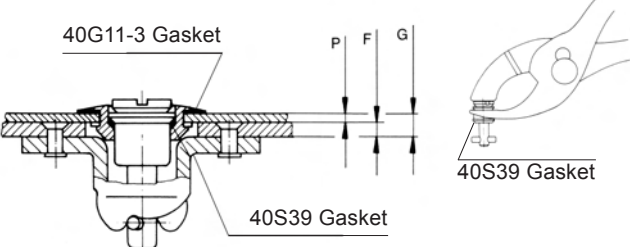
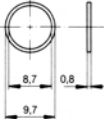
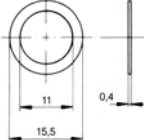
■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p> 	 <p>$S = 16,00 + (0,76 \times \text{length no.})$</p>	<p>Steel / zinc-plated, yellow chromate</p> <p>Stainless steel ¹⁾</p>	<p>230</p> <p>290</p>	<p>4002-*D</p> <p>4002-*S</p>
<p>Cross Recess Head</p> 	 <p>$S = 16,00 + (0,76 \times \text{length no.})$</p>	<p>Steel / zinc-plated, yellow chromate</p>	<p>230</p>	<p>40S5-*D</p>
<p>Fixed Wing Head</p> 	 <p>$S = 16,00 + (0,76 \times \text{length no.})$</p>	<p>Steel / zinc-plated, yellow chromate</p> <p>Stainless steel ¹⁾</p>	<p>230</p> <p>290</p>	<p>4002-*WB</p> <p>4002-*SW</p>
<p>180° Folding Bail Handle</p> 	 <p>$S = 20,57 + (0,76 \times \text{length no.})$</p>	<p>Steel / zinc-plated, yellow chromate</p>	<p>230</p>	<p>40S47-*C</p>

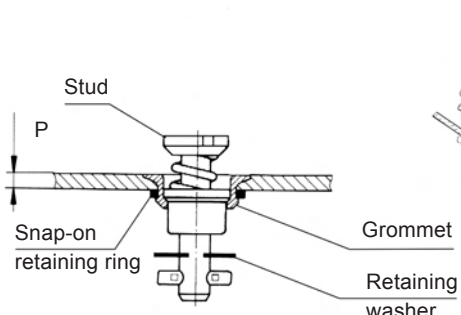
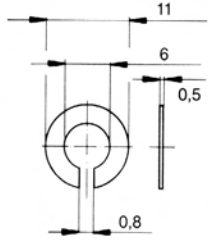
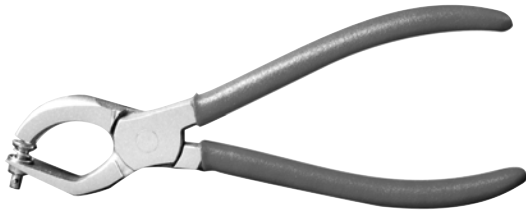
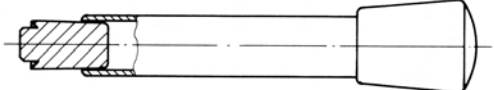
* Length no. from Table, page G-2 and G-3


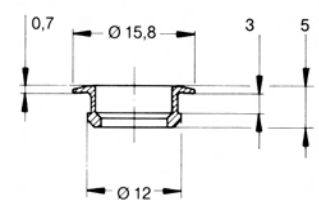

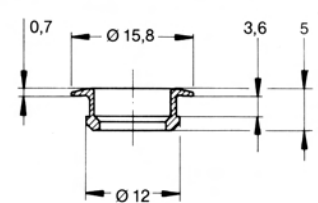

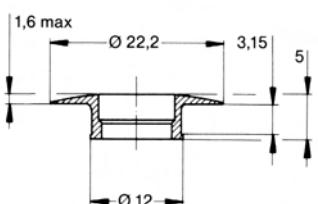

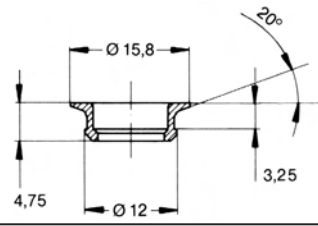

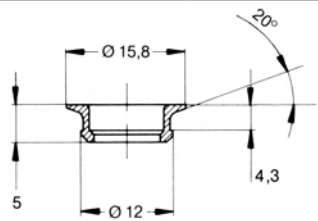
¹⁾ Max. tensile strength 3.300 N.

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Hex Recess Head</p> 		Steel / zinc-plated, yellow chromate	230	40E28- *-1AF
<p>Sealed Slotted Recess Head</p> 	 <p>Additional required gasket see page G-4.</p>	Steel / zinc-plated, yellow chromate Gasket: Velumoid	100	40S37-*E
<p>Sealed Cross Recess Head</p> 	 <p>Additional required gasket see page G-4.</p>	Steel / zinc-plated, yellow chromate Gasket: Velumoid	100	40S37-*AE

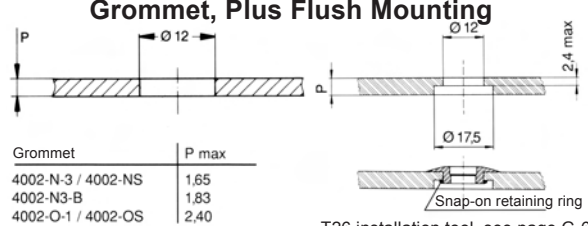
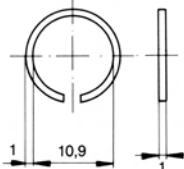
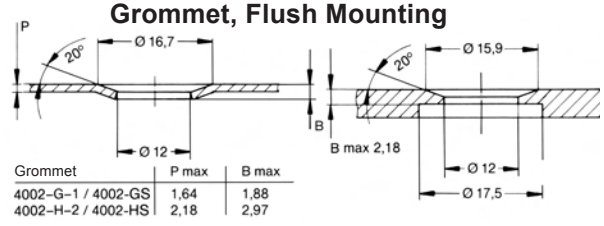
Installation Dimensions	Accessories	Materials / Finish	Part No.
<p>Gasket to be ordered in addition to the sealed stud assembly</p>  <p>40G11-3 Gasket</p> <p>40S39 Gasket</p>	<p>Gasket</p>  <p>Gasket</p> 	<p>Plastic / (PA6)</p> <p>Gasket: Velumoid</p>	<p>40S39</p> <p>40G11-3</p>


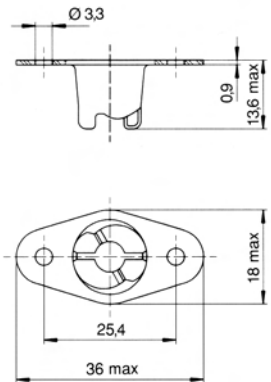

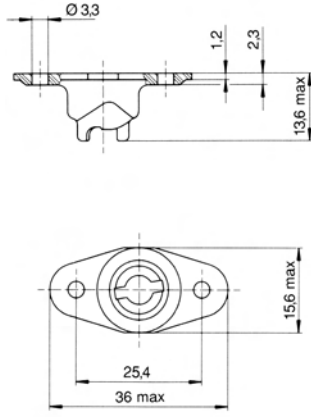

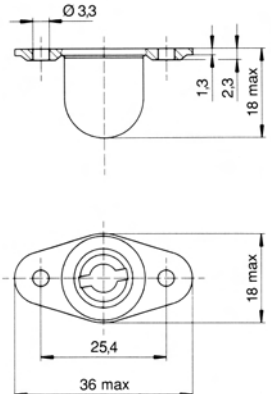

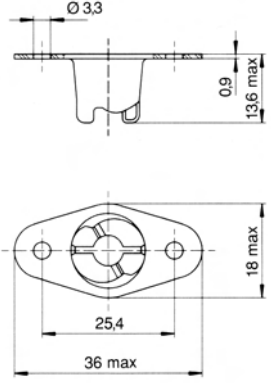
* Length no. from Table, page G-2 and G-3.


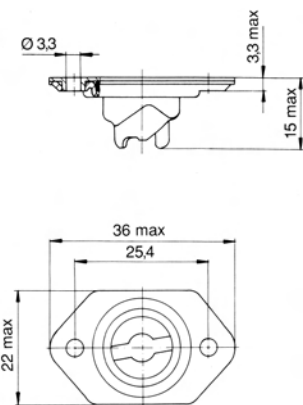

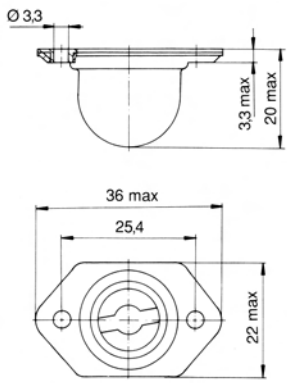

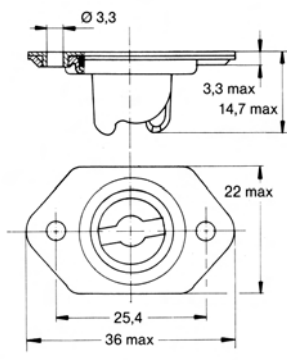

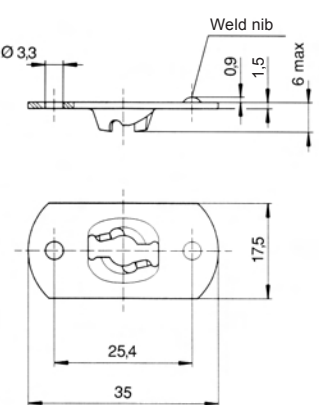
Installation Dimensions	Accessories	Materials / Finish	Part No.
 <p>4P3-1 installation pliers, see below</p>	<p>Retaining washer</p>  <p>From stud length no. 16</p>	<p>Stainless steel</p>	<p>4002-SW-SS</p>
	<p>Stud installation pliers</p>	<p>4P3-1</p>	
	<p>40G26-1 snap-on retaining ring installation tool</p>	<p>T26</p>	

Style	Dimensions	Materials / Finish	°C	Part No.
Plus Flush Mounting For Panel Thickness up to 1,65 		Steel / zinc-plated, yellow chromate	230	4002-N-3
		Stainless steel	230	4002-NS
Plus Flush Mounting For Panel Thickness from 1,65 to 2,40 		Steel / zinc-plated, yellow chromate	230	4002-O-1
		Stainless steel	230	4002-OS
Plus Flush Mounting For Panel Thickness from 1,27 to 1,83 		Steel / zinc-plated, yellow chromate	230	4002-N3-B
Flush Mounting For Panel Thickness up to 1,65 		Steel / zinc-plated, yellow chromate	230	4002-G-1
		Stainless steel	230	4002-GS
Flush Mounting For Panel Thickness from 1,65 to 2,18 		Steel / zinc-plated, yellow chromate	230	4002-H-2
		Stainless steel	230	4002-HS

Grommets for thicker panels upon request.

Installation Dimensions	Accessories	Materials / Finish	Part No.									
<p>Grommet, Plus Flush Mounting</p>  <table border="1"> <thead> <tr> <th>Grommet</th> <th>P max</th> </tr> </thead> <tbody> <tr> <td>4002-N-3 / 4002-NS</td> <td>1,65</td> </tr> <tr> <td>4002-N3-B</td> <td>1,83</td> </tr> <tr> <td>4002-O-1 / 4002-OS</td> <td>2,40</td> </tr> </tbody> </table> <p>T26 installation tool, see page G-6.</p>	Grommet	P max	4002-N-3 / 4002-NS	1,65	4002-N3-B	1,83	4002-O-1 / 4002-OS	2,40	<p>Snap-on retaining ring</p> 	Steel / zinc-plated, yellow chromate	R4G-2	
Grommet	P max											
4002-N-3 / 4002-NS	1,65											
4002-N3-B	1,83											
4002-O-1 / 4002-OS	2,40											
<p>Grommet, Flush Mounting</p>  <table border="1"> <thead> <tr> <th>Grommet</th> <th>P max</th> <th>B max</th> </tr> </thead> <tbody> <tr> <td>4002-G-1 / 4002-GS</td> <td>1,64</td> <td>1,88</td> </tr> <tr> <td>4002-H-2 / 4002-HS</td> <td>2,18</td> <td>2,97</td> </tr> </tbody> </table> <p>T26 installation tool, see page G-6.</p>	Grommet	P max	B max	4002-G-1 / 4002-GS	1,64	1,88	4002-H-2 / 4002-HS	2,18	2,97			
Grommet	P max	B max										
4002-G-1 / 4002-GS	1,64	1,88										
4002-H-2 / 4002-HS	2,18	2,97										

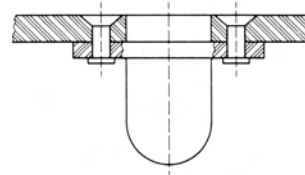
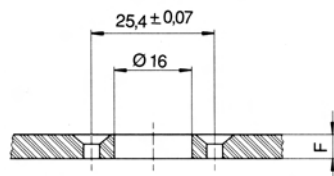
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Type 1 Cast</p> 		<p>Hard bronze / zinc-plated, yellow chromate</p> <p>Stainless steel</p>	<p>230</p> <p>230</p>	<p>214-16G</p> <p>214-16S</p>
<p>Type 1 Cast Narrow Width</p> 		<p>Hard bronze / zinc-plated, yellow chromate</p>	<p>230</p>	<p>214-16GN</p>
<p>Type 1 Cast Encapsulated</p> 		<p>Hard bronze / zinc-plated, yellow chromate</p> <p>Capsule: Brass / zinc-plated, yellow chromate</p>	<p>150</p>	<p>40R12-1A</p>
<p>Type 1 Swage</p> 		<p>Stainless steel</p>	<p>230</p>	<p>40R17-1</p>

Style	Dimensions	Materials / Finish	°C	Part No.
Type 2 Float up to 0,75 mm* (Cast Receptacle) 		Hard bronze / zinc-plated, yellow chromate	230	244-16G
		Cage: Steel / zinc-plated, yellow chromate Stainless steel	230	244-16S
Type 2 Float up to 0,75 mm* Encapsulated 		Hard bronze / zinc-plated, yellow chromate Capsule: Steel / zinc-plated, yellow chromate	230	244-16GC
Type 2 Float up to 0,75 mm (Swage Receptacle) 		Stainless steel	230	40R18-1
Type 3 Flat Rivet / Screw or Weld Mounting 		Rivet / Screw Mounting Hard bronze / zinc-plated, CrVI-free chromate	230	V50R3-1-1AGV
		Stainless steel	230	V50R3-1-1BP
		Welding Steel / zinc-plated, CrVI-free	230	V50R3-1-2AZ

* 1,6 mm float upon request.

Installation Dimensions

**Type 1, 2 and 3
Receptacles Hole Pattern**



Particular Features

Max. tensile strength 10.000 N.

Fastener for maximum tensile strength and preload.

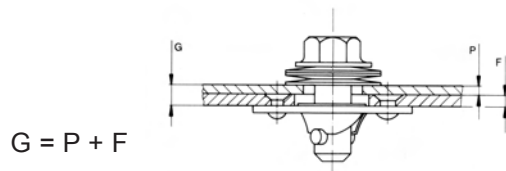
Preferred applications:

Commercial vehicles, coaches, agricultural machinery, chemical engineering, heating systems etc.

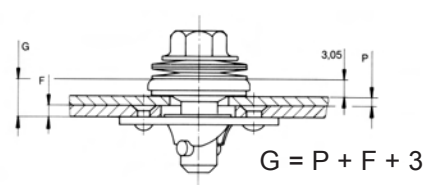
1. Select stud assembly and receptacle, pages H-2, H-3 and H-5.
2. Sealed: Also select rubber gasket and buffer plate, page H-4.
3. Select retaining washer, page H-4.
4. Select stud length number from total thickness G using the formula and table below, insert into stud part number * (e.g. 991S01-*AGV).

Determining the stud length number when using:

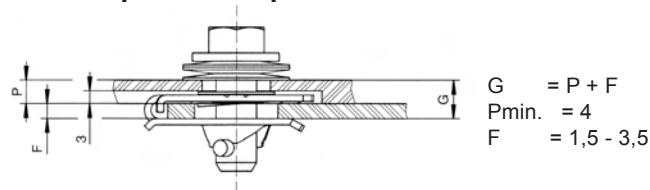
Rivet, Screw and Weld Mounting Receptacle



Sealed Stud Assemblies




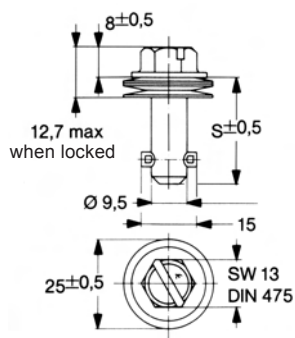

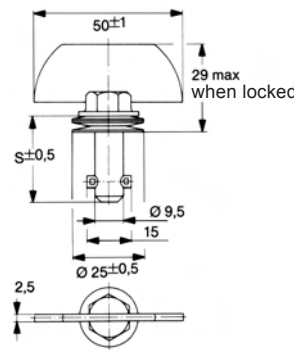

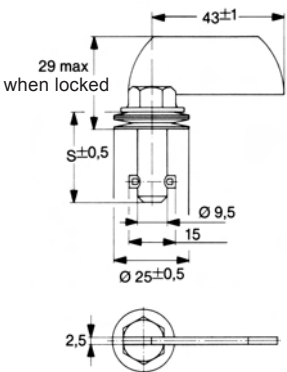

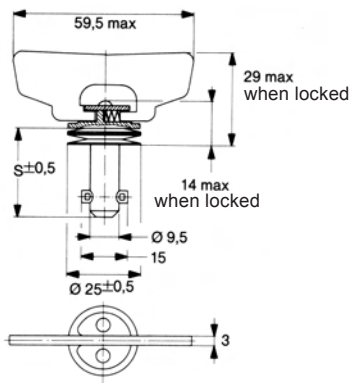
Clip-On Receptacle



Total Thickness G	Stud Length No.	Total Thickness G	Stud Length No.	Total Thickness G	Stud Length No.
0,90 - 1,65	1	13,85 - 14,60	18	26,80 - 27,55	35
1,65 - 2,40	2	14,60 - 15,35	19	27,55 - 28,30	36
2,40 - 3,15	3	15,35 - 16,15	20	28,30 - 29,10	37
3,15 - 3,95	4	16,15 - 16,90	21	29,10 - 29,85	38
3,95 - 4,70	5	16,90 - 17,65	22	29,85 - 30,60	39
4,70 - 5,45	6	17,65 - 18,40	23	30,60 - 31,35	40
5,45 - 6,20	7	18,40 - 19,20	24	31,35 - 32,15	41
6,20 - 7,00	8	19,20 - 19,95	25	32,15 - 32,90	42
7,00 - 7,75	9	19,95 - 20,70	26	32,90 - 33,65	43
7,75 - 8,50	10	20,70 - 21,45	27	33,65 - 34,40	44
8,50 - 9,25	11	21,45 - 22,25	28	34,40 - 35,20	45
9,25 - 10,05	12	22,25 - 23,00	29	35,20 - 35,95	46
10,05 - 10,80	13	23,00 - 23,75	30	35,95 - 36,70	47
10,80 - 11,55	14	23,75 - 24,50	31	36,70 - 37,45	48
11,55 - 12,30	15	24,50 - 25,25	32	37,45 - 38,25	49
12,30 - 13,10	16	25,25 - 26,05	33	38,25 - 39,00	50
13,10 - 13,85	17	26,05 - 26,80	34		


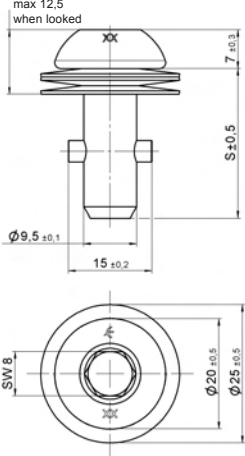

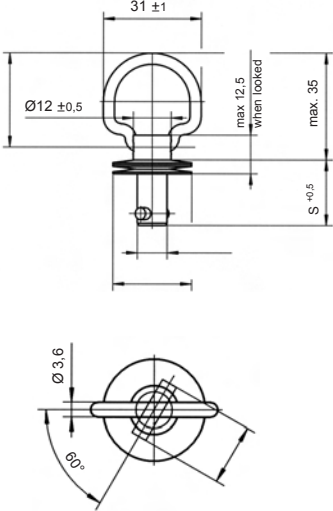
Other lengths on request.

■ Preferred dash-lengths

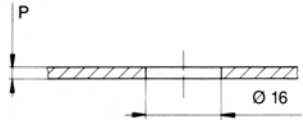
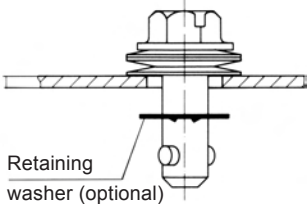
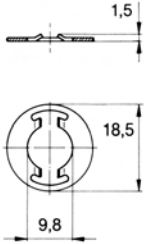
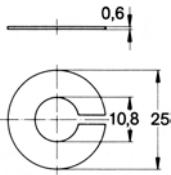
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Hex Head Slotted Recess</p> 	 <p>8±0,5 12,7 max when locked s±0,5 Ø 9,5 15 25±0,5 SW 13 DIN 475</p> <p>S = 16,26 + (0,76 x length no.)</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated</p> <p>Stainless steel ¹⁾</p>	<p>230</p> <p>230</p>	<p>991S01- *-1AGV</p> <p>991S01- *-1BP</p>
<p>Fixed Wing Head</p> 	 <p>50±1 29 max when locked s±0,5 Ø 9,5 15 Ø 25±0,5 2,5</p> <p>S = 16,26 + (0,76 x length no.)</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>991S02- *-1AGV</p>
<p>Offset Fixed Wing Head</p> 	 <p>43±1 29 max when locked s±0,5 Ø 9,5 15 Ø 25±0,5 2,5</p> <p>S = 16,26 + (0,76 x length no.)</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>991S03- *-1AGV</p>
<p>180° Folding Wing Head</p> 	 <p>59,5 max 29 max when locked 14 max when locked s±0,5 Ø 9,5 15 Ø 25±0,5 3</p> <p>S = 16,26 + (0,76 x length no.)</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>991S05- *-1AGV</p>

* Length no. from Table, see page H-1.

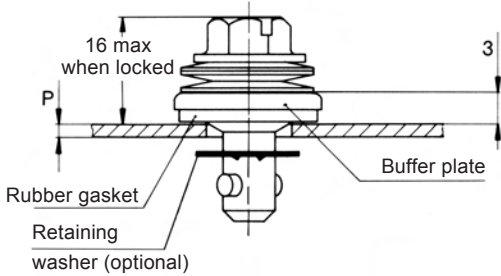
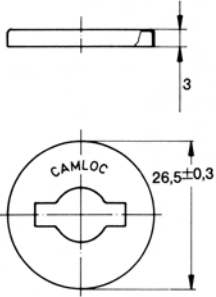
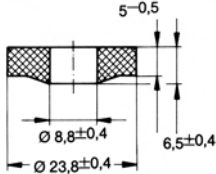
¹⁾ Max. tensile strength 7.000 N.


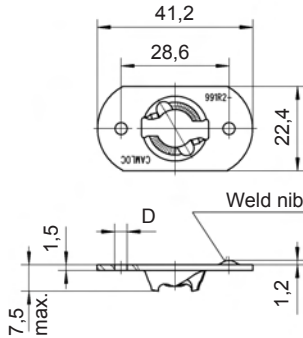

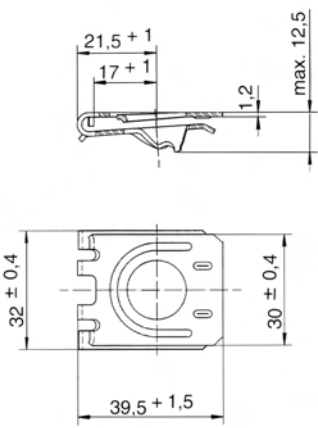
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Hex Recess Head</p> 		<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>991S30-*AGV</p>
<p>Folding Bail Handle</p> 	 <p>S = 15,03 + (0,76 X length no.)</p>	<p>Steel / zinc-plated, CrVI-free, transparent passivated</p>	<p>230</p>	<p>991S2991-*AGV</p>

* Length no. from Table, see page H-1.

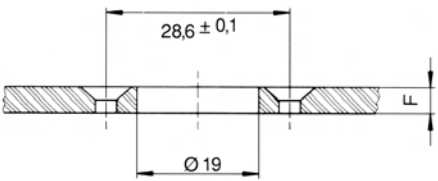
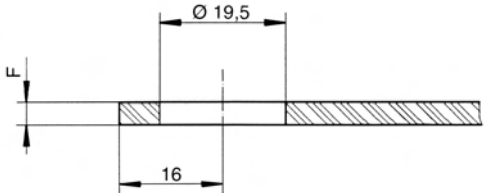
Installation Dimensions	Accessories	Material / Finish	Part No.
 	<p>Retaining washer</p>  <p>Slotted retaining washer</p> 	<p>Stainless steel</p> <p>Stainless steel</p>	<p>991W04-1BP</p> <p>991W02-1BP</p>

Sealed Stud Assemblies

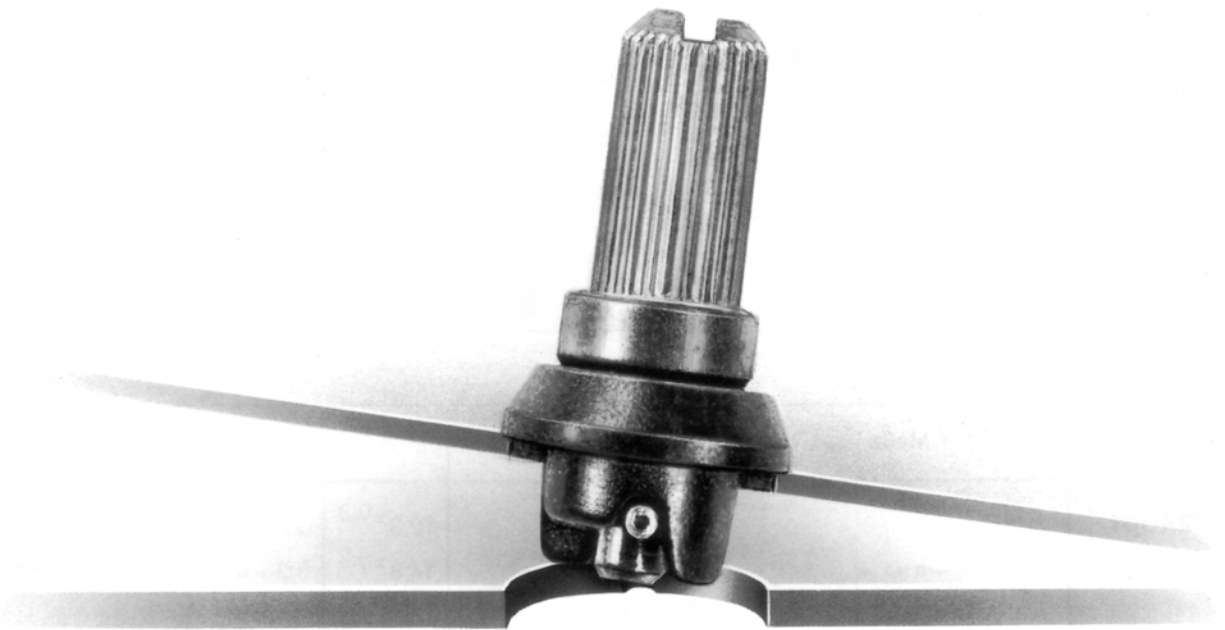
Installation Dimensions	Accessories	Material / Finish	Part No.
	<p>Buffer plate</p>  <p>Rubber gasket</p> 	<p>Stainless steel</p> <p>NBR black (100°C max.)</p>	<p>991W03-1BP</p> <p>991S17-1K</p>

Style	Dimensions	Materials / Finish	Mounting Ø	°C	Part No.
Rivet / Screw Mounting 		Rivet / Screw Mounting Steel / zinc-plated, CrVI-free, transparent passivated	3,3	230	991R2-1AGV
		Steel / zinc-plated, CrVI-free, transparent passivated	4,1	230	991R2-3AGV
		Stainless steel	3,3	230	991R2-1BP
		Stainless steel	4,1	230	991R2-3BP
		Welding Steel / zinc-plated	-	230	991R2-2AZ
Clip-On 		Steel / zinc-plated, zinc flake coated Frame thickness F= 1,5mm - 3,5mm		230	991R6-1AK7

Receptacle Installation Instructions

Installation Dimensions	
Rivet / Screw or Welding Mounting 	Clip-On 

One-Piece Fasteners



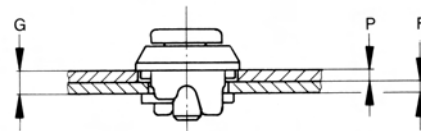
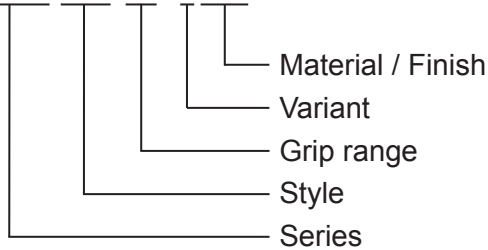
Particular Features


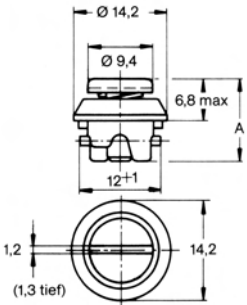

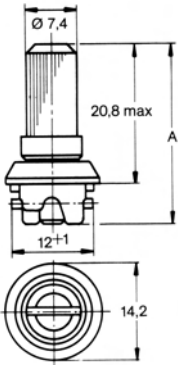
- Max. tensile strength 300 N.
- Same hole shape for panel and frame.
- Fastener as slotted recess or knurled head version.
- Fastener position indication by stud slot.
- Retention type.
- Vibration resistant.
- Grip ranges from 2,0 mm to 4,6 mm.
- Unlock and lock by a quarter turn.
- Particularly for applications in electro-technical and electronic equipment.
- For quick installation without tools.

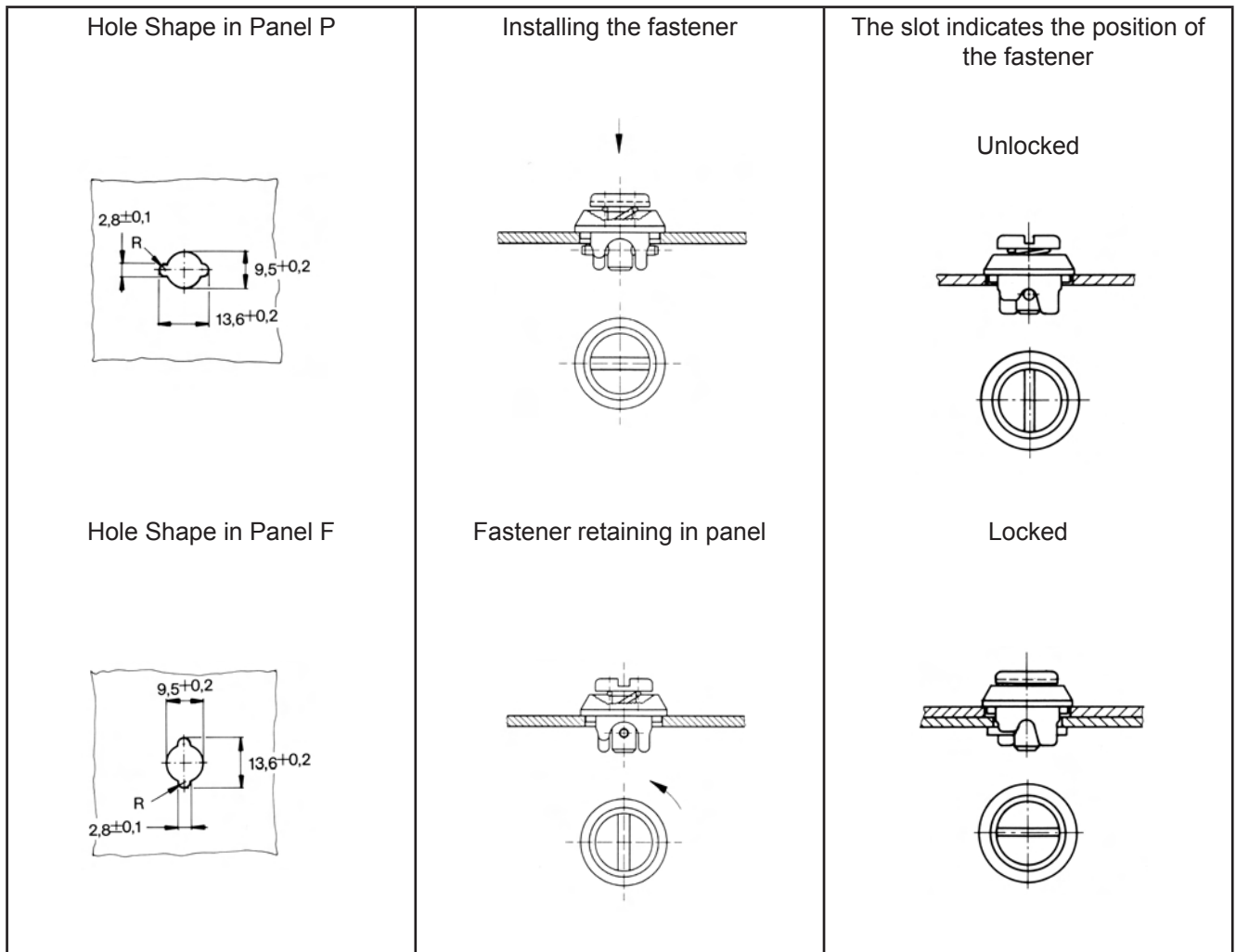
Part no. example

Knurled head for 3,3 mm to 4,6 mm grip range.

V936 S11 -4 -1 AA



Style	Dimensions	Materials / Finish	A	Grip Range G	Part No.
Slotted Recess Head 		Stud, spiral pin: Steel / zinc-plated, CrVI-free, clear chromate Compression spring: Stainless steel Casing: Zinc die casting / zinc-plated, CrVI-free, clear chromate	12,3 ^{±0,3}	2,0 - 3,2	V936S05-3-1AA
			14,8 ^{±0,3}	3,3 - 4,6	V936S05-4-1AA
Knurled Head 		Stud, Casing: Zinc die casting / zinc-plated, CrVI-free, clear chromate Compression spring: Stainless steel Spiral pin: Steel / zinc-plated, CrVI-free, clear chromate	26,4 ^{±0,3}	2,0 - 3,2	V936S11-3-1AA
			28,9 ^{±0,3}	3,3 - 4,6	V936S11-4-1AA



Particular Features

This fastener mounts panels in electrical switch cabinets (e.g. 19"-equipment) to modular bars.

Selection Instructions

The dimensions of the front panel and the modular bar as well as the colour determine the final design of the fastener.

To enable us to offer you the custom-tailored fastener, we need your drawings with the dimensions and tolerances of:

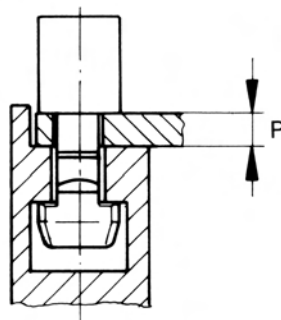
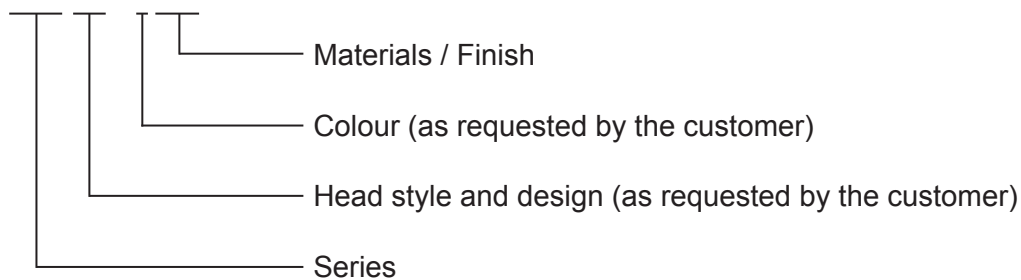
1. the front panel
2. the shape of the modular bar
3. the colour, if necessary


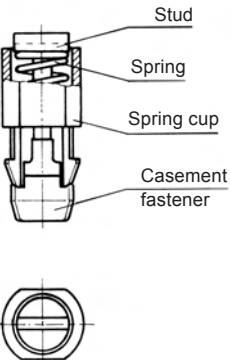

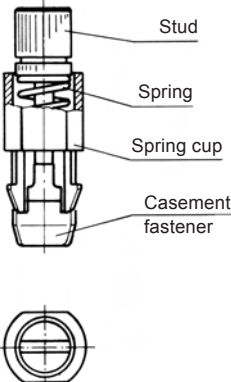
In addition, please send us samples of your modular bar and front panel.

Part no. example

One-piece fastener

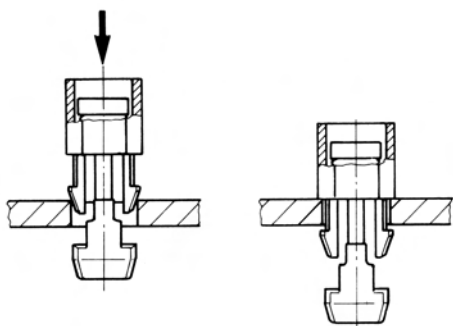
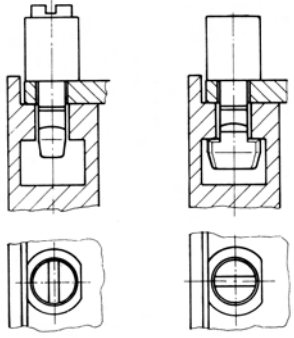
713 S* - * AE



Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p> 		<p>Spring cup: Plastic (POM) Stud: Steel / nickel-plated Spring: Steel / zinc-plated, CrVI-free, clear chromate Casement fastener: Zinc die casting / zinc-plated, CrVI-free, clear chromate</p>	-25 up to +90	713S* - *AE
<p>Knurled Head</p> 		<p>Spring cup: Plastic (POM) Stud: Steel / nickel-plated Spring: Steel / zinc-plated, CrVI-free, clear chromate Casement fastener: Zinc die casting / zinc-plated, CrVI-free, clear chromate</p>	-25 up to +90	713S* - *AE

* Design and colour as requested by the customer.

Due to the various front panel thickness, hole shapes and modular bar shapes, it is not possible to offer one standard design. We will individually issue the final part number only after determining the front panel and modular bar dimensions and the colour.

Dimensions	Fastener Position
<p>Installing the Fastener</p>  <p>1. Insert fastener with spring cup into hole. 2. Push stud until snap-in hooks lock in.</p>	<p>Unlocked Locked</p>  <p>To lock push stud and turn 90°C.</p> <p>The slot indicates the position of the fastener.</p>

Push Button Fasteners

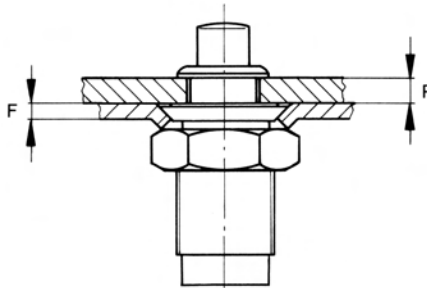


Particular Features

Max. tensile strength 1.330 N.
Quick opening and closing by a finger push.
Easy installation by single hole mounting.

Selection Instructions

1. Select stud assembly, page K-2 and receptacle, page K-3.
2. Select retaining washer, page K-2 and retaining hexnut, page K-3, if necessary.
3. Select stud length number from Panel thickness P using the table below, insert into stud part number * (e.g. 15S1-*-1AD).



Stud Length Table

Panel Thickness P	Stud Length No.
0,7 - 2,3	1
2,3 - 3,8	3
3,8 - 5,3	5
5,3 - 6,9	7
6,9 - 8,4	9
8,4 - 9,9	11
9,9 - 11,4	13
11,4 - 13,0	15

Other lengths on request.

■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	°C	Part No.
	<p>S=22,4 + (0,76 x length no.)</p>	Steel / nickel-plated	230	15S1- *-1AD
		Steel / zinc-plated CrVI-free, transparent passivated		15S1- *-1AJ

* Length no. from Table, see page K-1.

Other lengths and surfaces can be ordered upon request.

Stud Installation Instructions

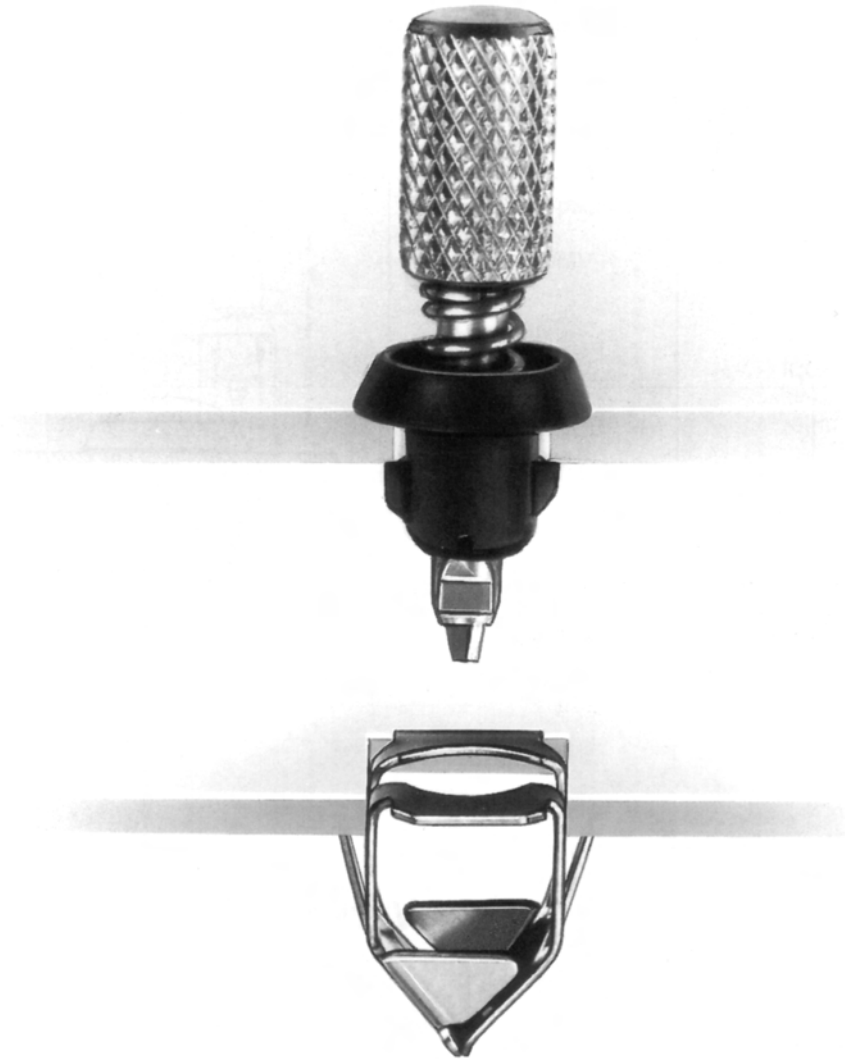
Installation Dimensions	Accessories	Materials / Finish	Part No.
<p>Panel thickness up to 4,8</p> <p>Panel thickness up to 4,8</p> <p>Retaining washer</p>	Retaining washer	Stainless steel	15S11-1CJ
	Installation Tool for 15S11-1CJ retaining washer		T107-1

Style	Dimensions	Materials / Finish	°C	Part No.
		Zinc die casting / zinc-plated CrVI-free, transparent passivated	150	V15R13-1-1AB

Receptacle Installation Instructions

Installation Dimensions	Accessories	Materials / Finish	Part No.
	<p>Hex Nut</p>	Steel / zinc-plated, CrVI-free, transparent passivated	V15R14-1-1AB

Push-Turn Fasteners



Particular Features

- Max. tensile strength 700 N.
- Easy and economic clip-in installation for stud and receptacle.
- Also suitable for automatic installation.
- Opening by 1/4 turn - closing by a finger push.
- Due to their small size, particularly suited for use in electrical engineering / electronics.

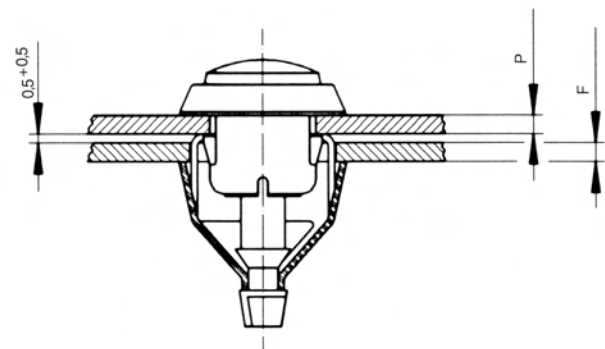
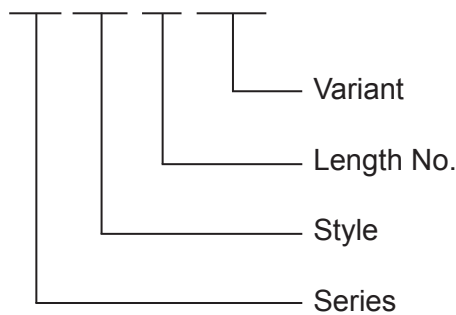
Selection Instructions

- Select stud assembly according to panel thickness P, page L-2 and spring clip according to frame thickness F, page L-3.
- Select stud length number from panel thickness G using the table below, insert into stud part number * (e.g. 715S12-* -1BP).

Part no. example

Stud, slotted recess head

715 S12 -07 -3BP


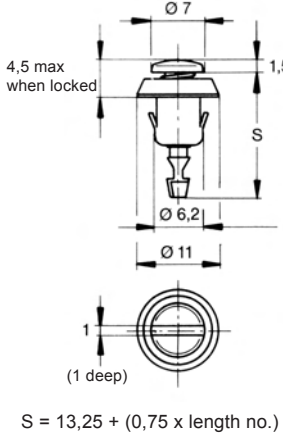

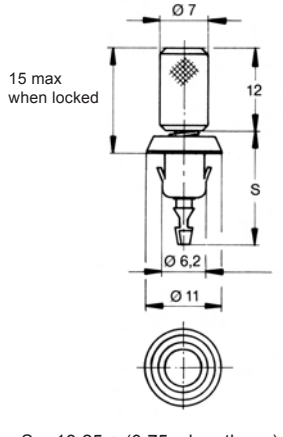


Stud Length Table

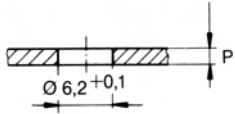
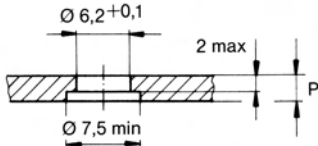
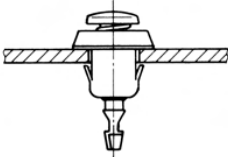
Panel Thickness P	Slotted Recess Head Stud Length No.	Knurled Head Stud Length No.	Panel Thickness P	Slotted Recess Head Stud Length No.	Knurled Head Stud Length No.
0,50 - 1,25	5	5	6,50 - 7,25	13	-
1,25 - 2,00	6	6	7,25 - 8,00	14	-
2,00 - 2,75	7	7	8,00 - 8,75	15	-
2,75 - 3,50	8	8	8,75 - 9,50	16	-
3,50 - 4,25	9	9	9,50 - 10,25	17	-
4,25 - 5,00	10	10	10,25 - 11,00	18	-
5,00 - 5,75	11	-	11,00 - 11,75	19	-
5,75 - 6,50	12	-	11,75 - 12,50	20	-


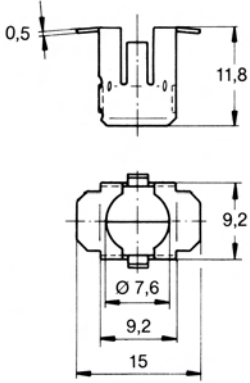
Other lengths on request.

■ Preferred dash-lengths

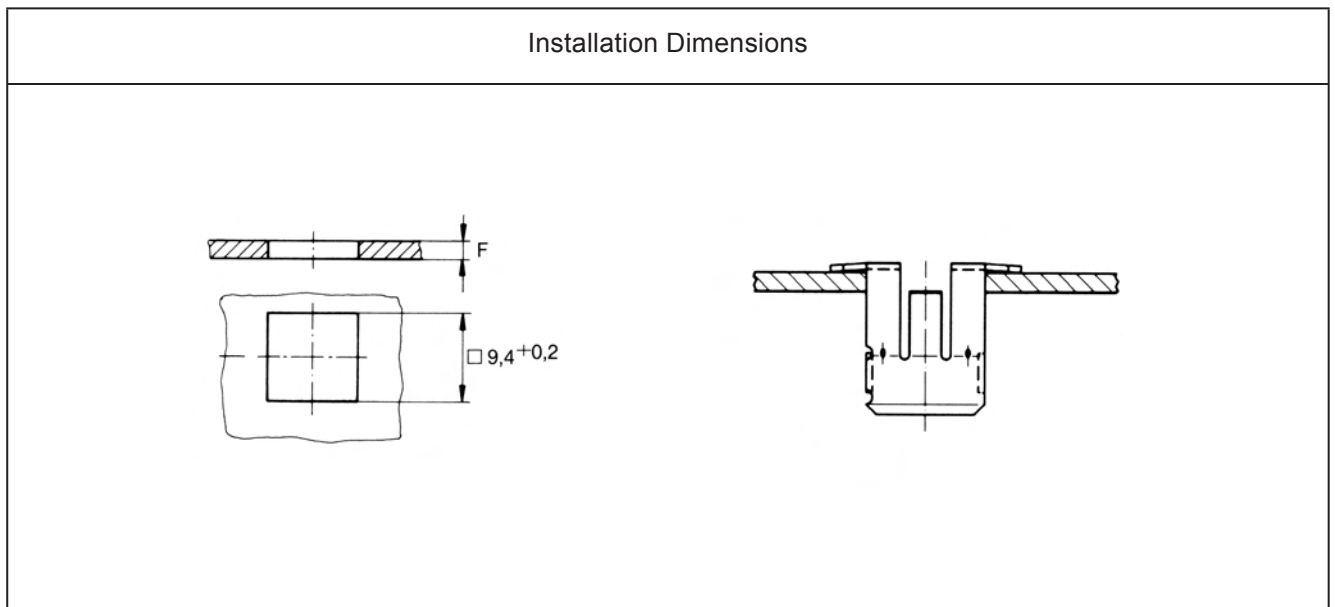
Style	Dimensions	Materials / Finish	Panel Thickness P	°C	Part No.
Slotted Recess Head 	 <p>S = 13,25 + (0,75 x length no.)</p>	Stainless steel Spring cup: Plastic (POM) / black	0,5 - 1,0	-40 up to +100	715S12- *-1BP
			1,0 - 1,5		715S12- *-2BP
			1,5 - 2,0		715S12- *-3BP
Knurled Head 	 <p>S = 13,25 + (0,75 x length no.)</p>	Stainless steel Spring cup: Plastic (POM) / black	0,5 - 1,0	-40 up to +100	715S13- *-1BP
			1,0 - 1,5		715S13- *-2BP
			1,5 - 2,0		715S13- *-3BP

Stud Installation Instructions

Installation Dimensions	
Panel up to 2 mm	
Panel over 2 mm	
	

Style	Dimensions	Materials / Finish	Frame Thickness F	°C	Part No.
Receptacle 		Stainless steel	0,5 - 1,0	-40 up to +100 (See stud assembly)	715R02-1BP
			1,0 - 1,5		715R02-2BP
			1,5 - 2,0		715R02-3BP
			2,0 - 2,5		715R02-4BP

Installation Instructions



Particular Features

Max. tensile strength 1.400 N.
 Easy and economic clip-in installation for stud and receptacle.
 Also suitable for automatic installation.
 Opening by 1/4 turn - closing by a finger push.

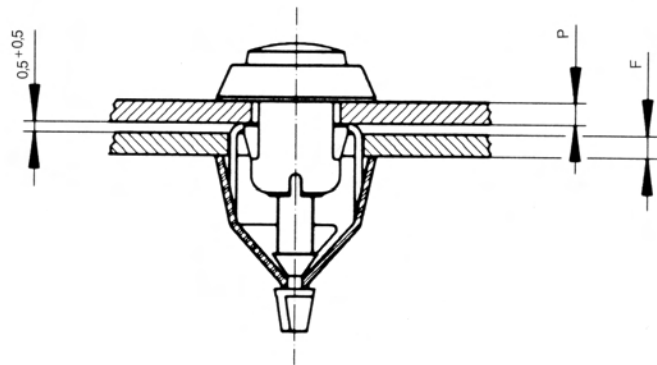
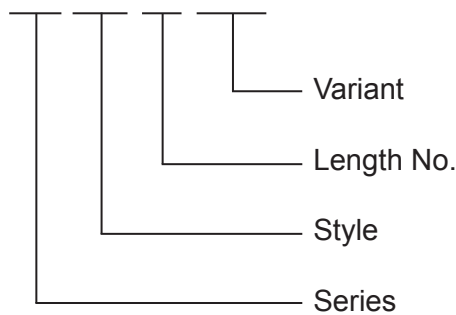
Selection Instructions

1. Select stud assembly according to panel thickness P, page M-2 and spring clip according to frame thickness F, page M-3.
2. Select stud length number from panel thickness P using table below, insert into stud part number * (e.g. 716S12-* -1BP).

Part no. example

Stud, slotted recess head

716 S12 -03 -2BP


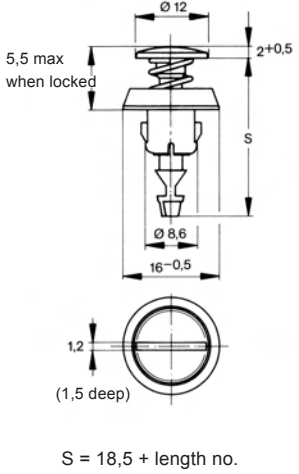

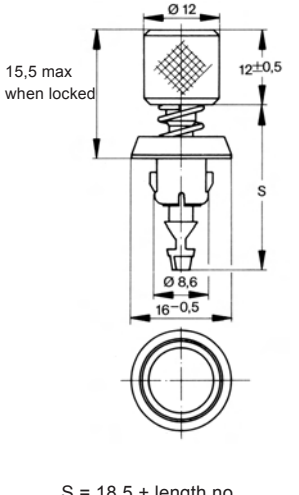


Stud Length Table

Panel Thickness P	Stud Length No.
1,0 - 2,0	2
2,0 - 3,0	3
3,0 - 4,0	4
4,0 - 5,0	5
5,0 - 6,0	6
6,0 - 7,0	7
7,0 - 8,0	8
8,0 - 9,0	9
9,0 - 10,0	10

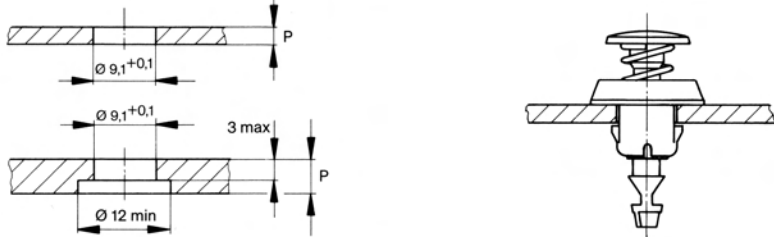
Other lengths on request.


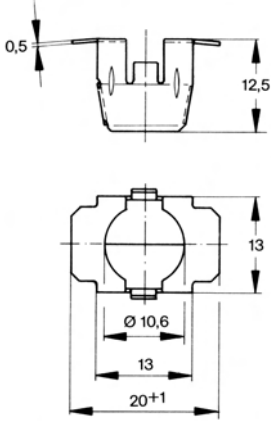
■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	Frame Thickness F	°C	Part No.
Slotted Recess Head 		Stainless steel Spring cup: Plastic (POM)/black	0,5 - 1,0	-40 up to +100	716S12- *-1BP
			1,0 - 1,5		716S12- *-2BP
			1,5 - 2,0		716S12- *-3BP
			2,0 - 2,5		716S12- *-4BP
			2,5 - 3,0		716S12- *-5BP
Knurled Head 		Stainless steel Spring cup: Plastic (POM)/black	0,5 - 1,0	-40 up to +100	716S13- *-1BP
			1,0 - 1,5		716S13- *-2BP
			1,5 - 2,0		716S13- *-3BP
			2,0 - 2,5		716S13- *-4BP
			2,5 - 3,0		716S13- *-5BP

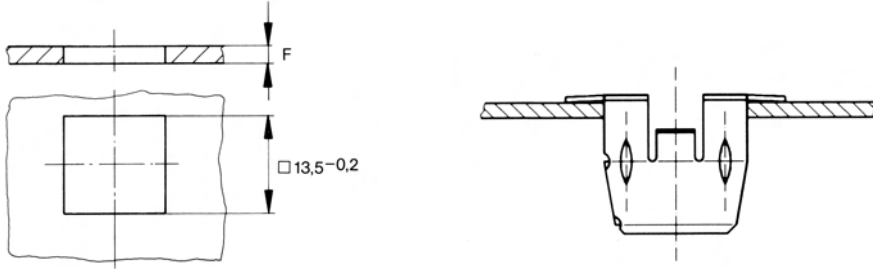
* Length no. from Table, page M-1.

Stud Installation Instructions

Installation Dimensions	
Panel up to 3 mm	
Panel over 3 mm	

Style	Dimensions	Materials / Finish	Frame Thickness F	°C	Part No.
Spring Clip 		Stainless steel	1,0 - 1,5	-40 up to +100 (See stud assembly)	720R01-1B
			1,5 - 2,0		720R01-2B
			2,0 - 2,5		720R01-3B
			2,5 - 3,0		720R01-4B

Installation Instructions

Installation Dimensions


Particular Features

- Max. tensile strength 3.000 N.
- Robust design - high strength.
- Stud assembly with protective, compensating and retaining washers.
- Rivet and screw mounting spring clip.
- Opening by 1/4 turn - closing by a finger push.

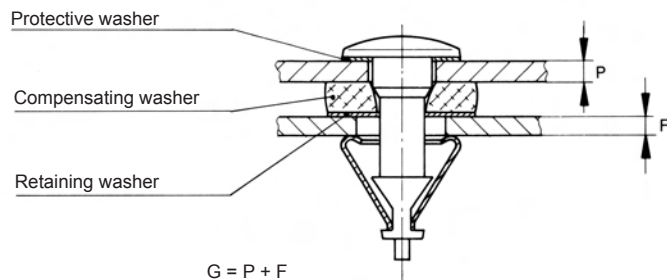
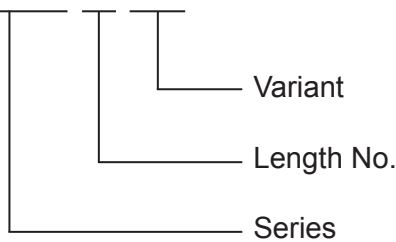
Selection Instructions

1. Select stud assembly and spring clip, page N-2 and N-3.
2. Select compensating and retaining washers, page N-2.
3. Select stud length number from grip range G using the table below, insert into stud part number * (e.g. 717S01-* -1AGV).

Part no. example

Spring clip, rivet / screw mounting

717 S01 -2 -1AF



Stud Length Table

Griprange G	Stud Length No.
1,0 - 3,0	1
3,0 - 5,0	2
5,0 - 7,0	3
7,0 - 9,0	4
9,0 - 11,0	5
11,0 - 13,0	6

Other lengths on request.


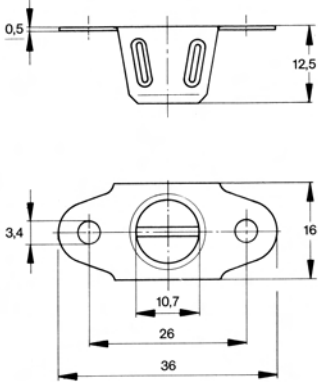
■ Preferred dash-lengths

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slotted Recess Head</p>	<p>S = 20,5 + (2 x length no.)</p>	Steel/ zinc-plated CrVI-free, transparent passivated	-40 up to +100	717S01- *-1AGV
<p>Knurled Head</p>	<p>S = 20,5 + (2 x length no.)</p>	Steel/ zinc-plated CrVI-free, transparent passivated	-40 up to +100	717S01- *-2AGV

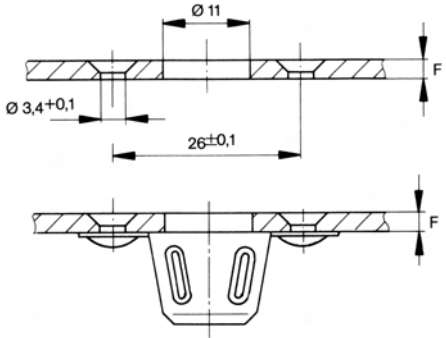
* Length no. from Table, see page N-1.

Stud Installation Instructions

Style	Dimensions	Materials / Finish	°C	Part No.
	<p>Protective washer</p>	Plastic (PA6) / natural colour	-40 up to +100	717W02-1K
	<p>Compensating washer</p>	Plastic (PU-foam) / anthracite	-40 up to +100	717W03-1K
	<p>Retaining washer</p>	Plastic (PA6) / natural colour	-40 up to +100	717W01-1K

Style	Dimensions	Materials / Finish	°C	Part No.
<p>Rivet / Screw Mounting</p> 		Steel / zinc flake coated	-40 up to 100	717R01-1AK7

Installation Instructions

Installation Dimensions


Particular Features

- Max. tensile strength 1.200 N.
- Easy and economic installation by snap-in spring clip.
- Easy installation of stud and washer without tool.
- Tool or hand operated.
- Tool operated with combination recess.
- Opening by 1/4 turn - closing by a finger push.
- Wide grip range.

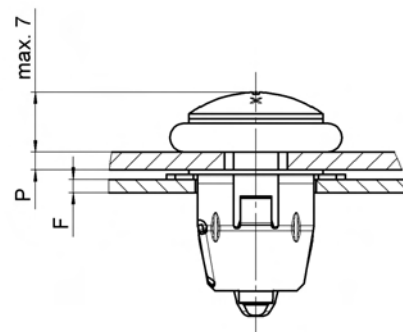
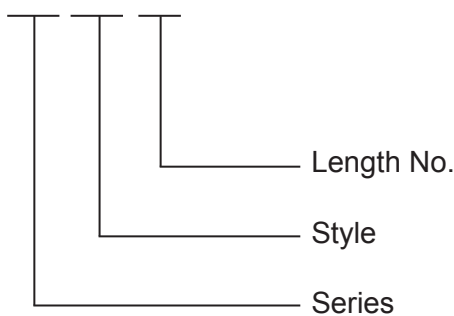
Selection Instructions

1. Select stud assembly according to panel thickness P, page O-2 and spring clip according to frame thickness F, page O-4.
2. Select Compensating washer and Retaining washer, page O-3.
3. Select stud length number from panel thickness P using the formula and table below, insert into stud part number * (e.g. 720S01-*B).

Part no. example


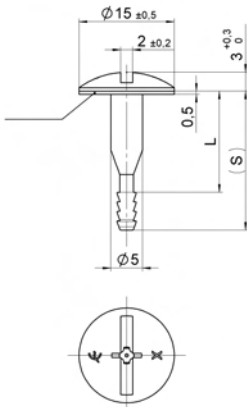

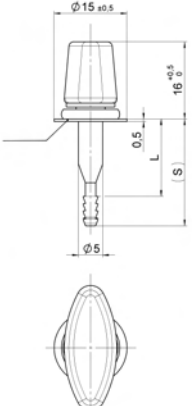
Stud, slot-cross recess

720 S01 -*B



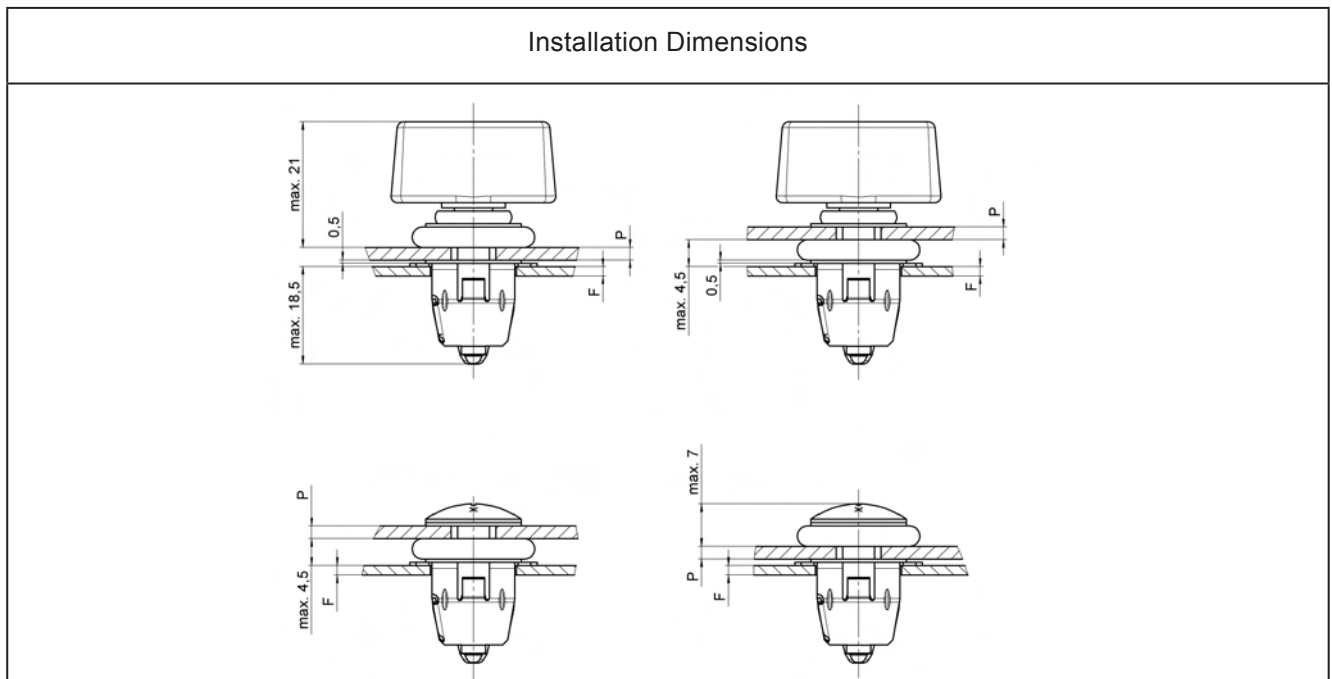
Panel Thickness P	Slot-Cross Recess Length No.	Wing Head Stud Length No.	Dimension L +0,1/-0,2	Dimension (S)
1,00 - 4,00	1	1	16	21
4,00 - 7,00	2	2	19	24
7,00 - 10,00	3	3	22	27

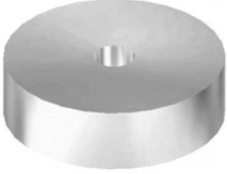
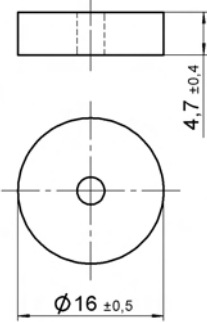

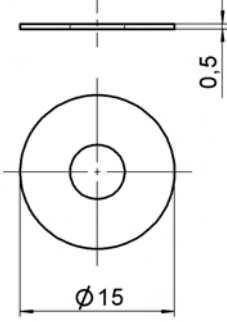
■ Preferred dash-lengths

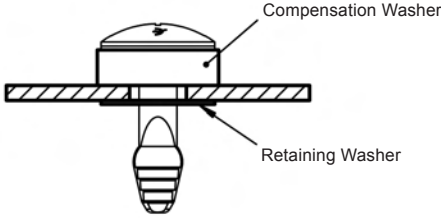
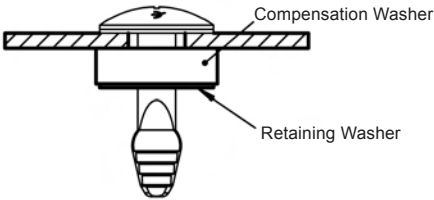
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Slot-Cross Recess Head</p> 	 <p>L + (S) see table page O-1</p>	<p>Stainless steel Washer: PA6 natural</p>	<p>-20 up to +70</p>	<p>720S01-*B</p>
<p>Wing Head</p> 	 <p>L + (S) see table page O-1</p>	<p>Stainless steel Knob: PA6 black Washer: PA6 natural</p>	<p>-20 up to +70</p>	<p>720S02-*B</p>


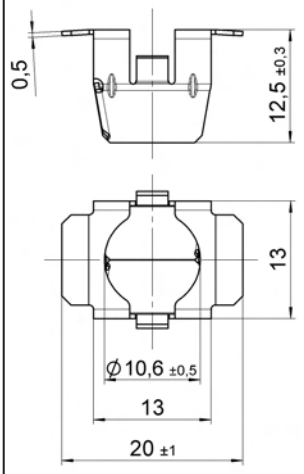
* Length no. from Table, see page O-1.

Stud Installation Instructions

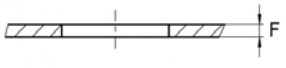
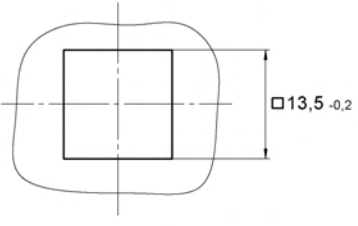
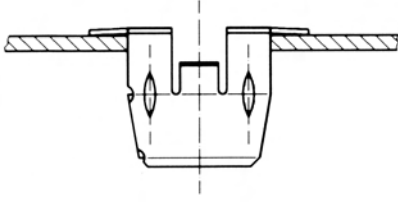


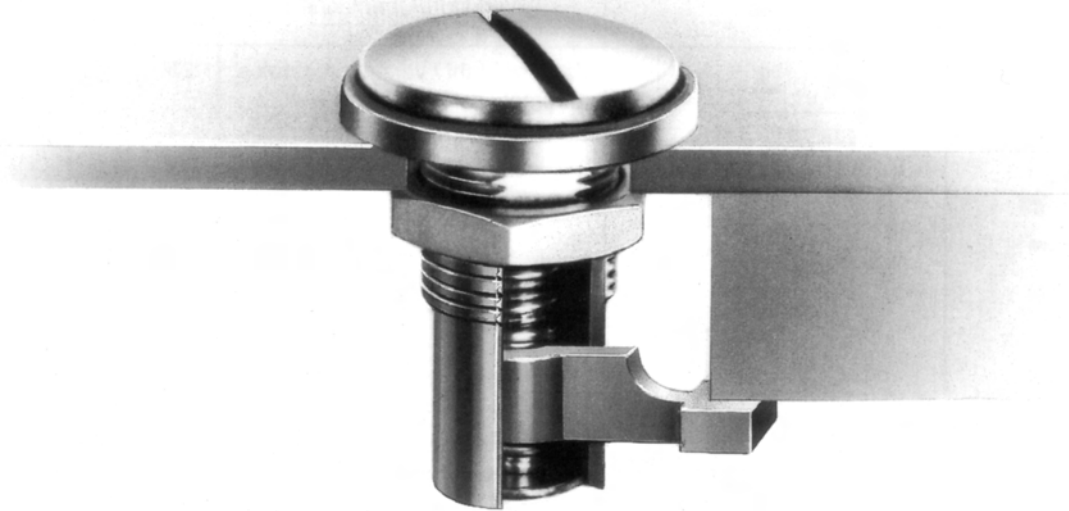
Style	Dimensions	Materials / Finish	°C	Part No.
<p>Compensation Washer</p> 		PU - Elastomer yellow	-20 up to +70	720W01-2K
<p>Retaining Washer</p> 		Polyamid natural	-20 up to +70	50E15-1K

Mounting Instructions	
<p>Polyamid natural</p> 	<p>Polyamid natural</p> 

Style	Dimensions	Materials / Finish	Frame Thickness F	°C	Part No.
Spring Clip 		Stainless steel	1,0 - 1,5	-40 up to +150	720R01-1B
			1,5 - 2,0		720R01-2B
			2,0 - 2,5	Please note the restrictions caused to stud assemblies	720R01-3B
			2,5 - 3,0		720R01-4B

Installation Instructions

Installation Dimensions	
	
	



Particular Features

Wide grip range (total thickness G up to 15 mm).

Universally applicable.

Easy installation by single-hole mounting.

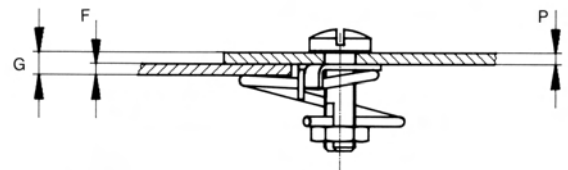
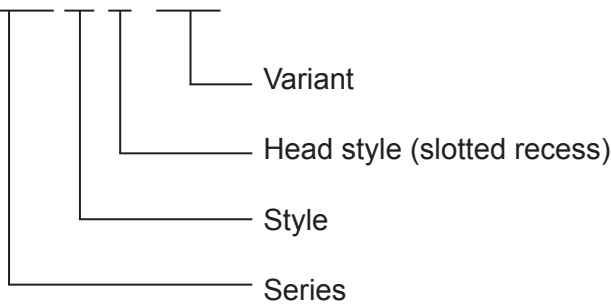
Either tool-operated (slotted recess head) or hand-operated (fixed wing head).

Clockwise locking.

Part no. example

Pawl Latches, slotted recess head, with limit washer.

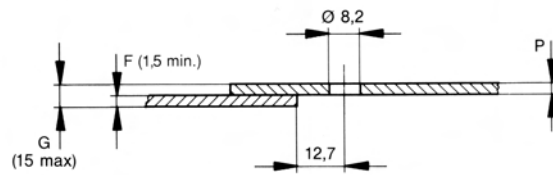
V964L 01 -1 -2AG



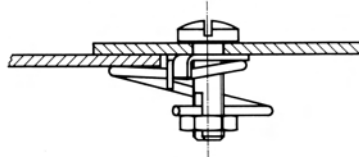
$$G = P + F$$

Style	Dimensions	Materials / Finish	°C	Part No.
Slotted Recess Head 		Stud: Steel / zinc-plated CrVI-free, transparent passivated Spring: Stainless steel	230	V964L01-1-1AG
Slotted Recess Head with Decorative Washer 		Stud: Steel / zinc-plated CrVI-free, transparent passivated Spring: Stainless steel	230	V964L01-1-2AG
Fixed Wing Head 		Stud: Steel / zinc-plated CrVI-free, transparent passivated Spring: Stainless steel Wing: Plastic (POM) black	-40 up to +100	V964L01-2-1AG

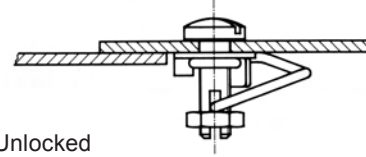
Installation Dimensions



Locked



Unlocked



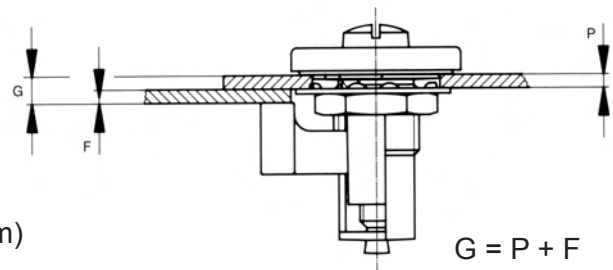
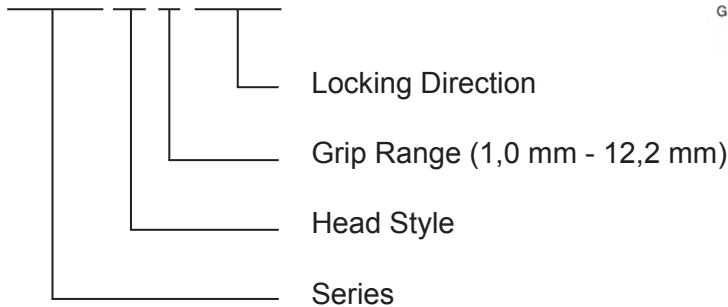
Particular Features

- Two wide grip ranges from 1,0 mm to 18,8 mm to choose from - continuously adjustable.
- Two different head styles available.
- Easy single hole mounting - low installation cost.
- Clockwise locking.
- Counterclockwise locking fasteners upon request.


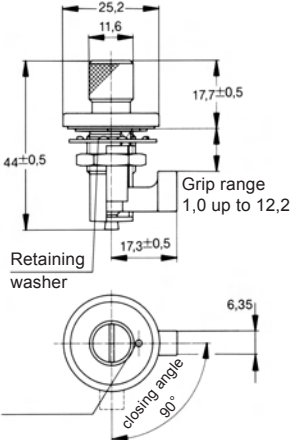

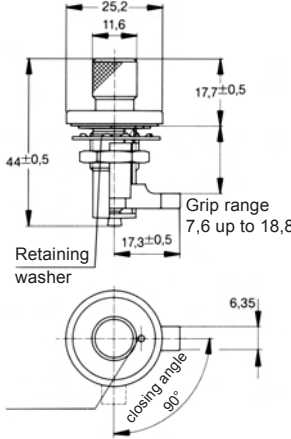
Part no. example

Pawl Latches, fillister head.
Grip range 1,0 mm - 12,2 mm.

V965L 23 -1 R1AG



Style	Dimensions	Materials / Finish	°C	Part No.
<p>Flat Head Grip Range 1,0 up to 12,2</p>	<p>Grip range 1,0 up to 12,2</p> <p>Retaining washer</p> <p>closing angle 90°</p>	Steel / zinc-plated CrVI-free, transparent passivated	-40 up to +100	V965L23-1R1AG
<p>Flat Head Grip Range 7,6 up to 18,8</p>	<p>Grip range 7,6 up to 18,8</p> <p>Retaining washer</p> <p>closing angle 90°</p>	Steel / zinc-plated CrVI-free, transparent passivated	-40 up to +100	V965L23-2R1AG

Style	Dimensions	Materials / Finish	°C	Part No.
Knurled Head Grip Range 1,0 up to 12,2 		Steel / zinc-plated CrVI-free, transparent passivated	-40 up to +100	V965L1-1R1AG
Knurled Head Grip Range 7,6 up to 18,8 		Steel / zinc-plated CrVI-free, transparent passivated	-40 up to +100	V965L1-2R1AG

Pawl Latches Installation Instructions

