

Features

Max. tensile strength 10.000 N, Working Load 7.000 N

High tensile strength and preload.

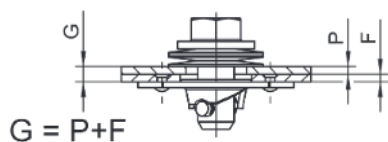
Typical applications:

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

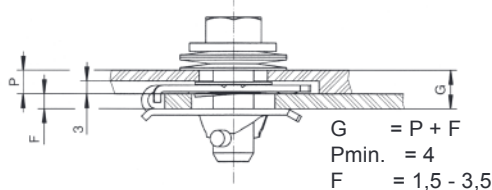
1. Select stud assembly and receptacle, pages H-2, H-3 and H-5.
2. Sealed: Also select rubber gasket and buffer plate, page H-4.
3. Select retaining washer, page H-4.
4. Select stud length number from total thickness G using the formula and table below (e.g. 991S01-*AGV).

Determining the stud length number when using:

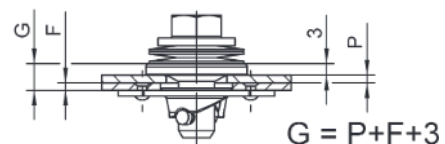
Rivet, Screw and Weld mounting Receptacle



Clip-On Receptacle



Sealed Stud Assemblies



Click here:

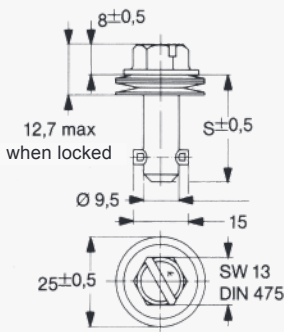
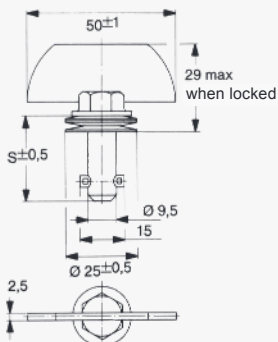
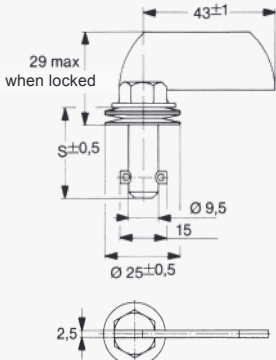
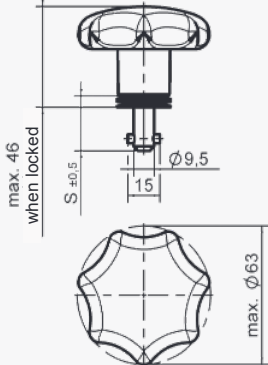
[Quarter Turn Installation \(991F Series\)](#)



Stud Length Table

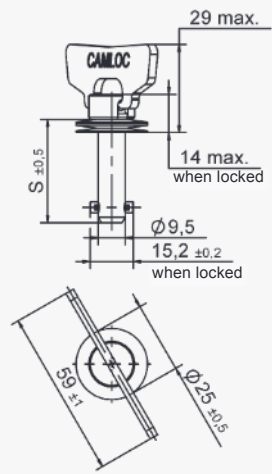
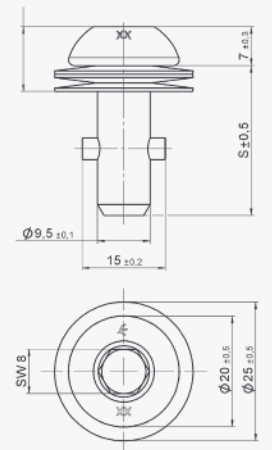
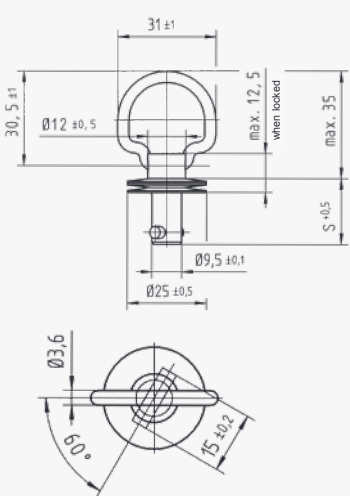
Total Thickness G	Stud Length no.	Total Thickness G	Stud Length no.	Total Thickness G	Stud Length no.
0,90 - 1,65	1	13,85 - 14,60	18	26,80 - 27,55	35
1,65 - 2,40	2	14,60 - 15,35	19	27,55 - 28,30	36
2,40 - 3,15	3	15,35 - 16,15	20	28,30 - 29,10	37
3,15 - 3,95	4	16,15 - 16,90	21	29,10 - 29,85	38
3,95 - 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.

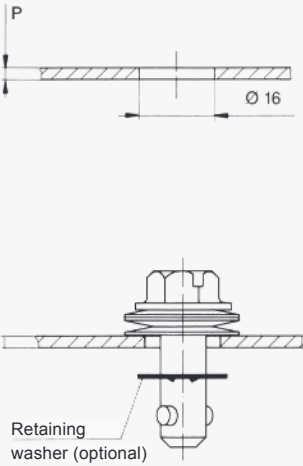
Style	Dimensions	Materials / Finish	°C	Part No.
Hex Head Slotted Recess 	 $S = 16,26 + (0,76 \times \text{length no.})$	Steel / zinc-plated, CrVI-free, clear passivation Stainless steel ¹⁾	120 200	991S01- *-1AGV 991S01- *-1BP
Fixed Wing Handle 	 $S = 16,26 + (0,76 \times \text{length no.})$	Steel / zinc-plated, CrVI-free, clear passivation Stainless steel ¹⁾	120 200	991S02- *-1AGV 991S02- *-1BP
Offset Fixed Wing Handle 	 $S = 16,26 + (0,76 \times \text{length no.})$	Steel / zinc-plated, CrVI-free, clear passivation Stainless steel ¹⁾	120 200	991S03- *-1AGV 991S03- *-1BP
Plastic Star Form Handle 	 $S = 16,26 + (0,76 \times \text{length no.})$	Steel / zinc-plated, CrVI-free, clear passivation	-40 up to +60	991S04- *-1AGV

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

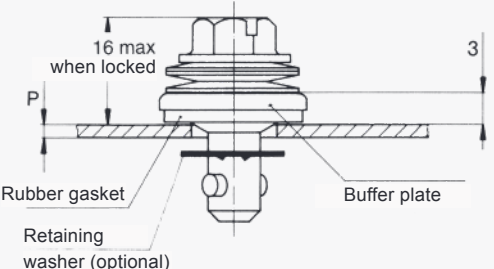
¹⁾ Max. tensile strength 7.000 N, Working load 4.500 N

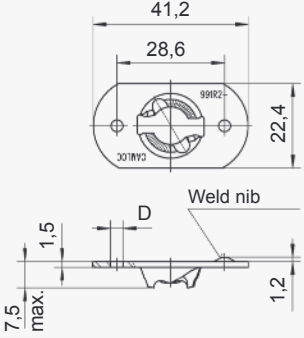
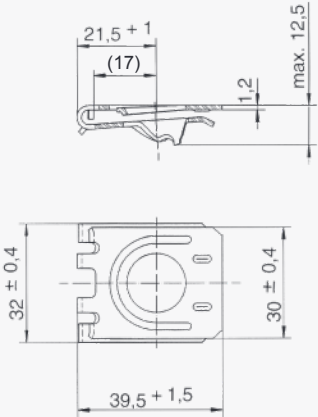
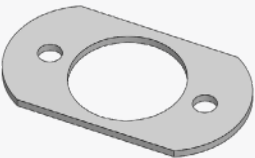
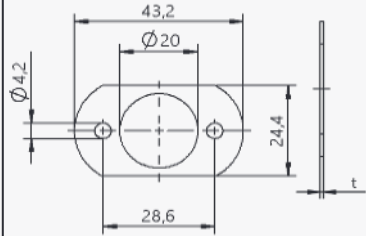
Style	Dimensions	Materials / Finish	°C	Part No.
Folding Wing Handle 180° 	 $S = 16,26 + (0,76 \times \text{length no.})$	Steel / zinc-plated, CrVI-free, clear passivation	80	991S500*-1AGV
Hex Reces Head 		Steel / zinc-plated, CrVI-free, clear passivation	120	991S30*-AGV
Folding Bail Handle 180° 	 $S = 15,03 + (0,76 \times \text{length no.})$	Steel / zinc-plated, CrVI-free, clear passivation	120	991S2991*-AGV

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

Installation Dimensions	Accessories	Materials / Finish	Part No.
	Retaining Washer	Stainless steel	991W04-1BP
	Slotted retaining Washer	Stainless steel	991W02-1BP

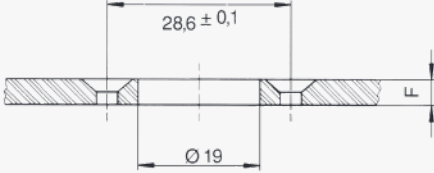
Sealed Stud Assemblies

Installation Dimensions	Accessories	Materials / Finish	Part No.
	Buffer plate	Stainless steel	991W03-1BP
	Rubbering	SBR/NBR or alternative SBR/NR black (max. 100°C)	991S17-1K

Style	Dimensions	Materials / Finish	Mounting- Ø	°C	Part No.
Rivet- / Screw or Weld Mounting 		Rivet / Screw Steel / zinc-plated, CrVI-free, clear passivation	3,3	120	991R2-1AGV
		Steel / zinc-plated, CrVI-free, clear passivation	4,1	120	991R2-3AGV
		Stainless steel	3,3	200	991R2-1BP
		Stainless steel	4,1	200	991R2-3BP
		Welding Steel / zinc-plated	-	-	991R2-2AZ
		Steel / oil-coated	-	-	991R2-2AR
Clip-On 		Steel / zinc-plated, zinc flake coated Frame thickness F= 1,5mm - 3,5mm		150	991R6-1AK7
Distanzbase plate* 		POM black/ t=0,8	4,2	100	991W120-08K
		POM black/ t=1,0	4,2	100	991W120-10K
		POM black/ t=1,5	4,2	100	991W120-15K
		POM black/ t=2,0	4,2	100	991W120-20K

* If you have slightly different clamping thicknesses in an application, it is possible to compensate them with our distance plates, which are fixed under the retaining cam. This makes it possible to use only one stud length.

Receptacle Installation Instructions

Installation Dimensions	
Rivet / Screw or Welded Mounting 	Clip-On 