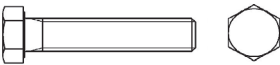
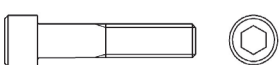
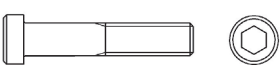
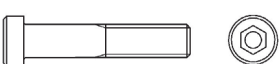
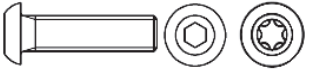
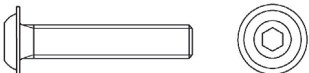
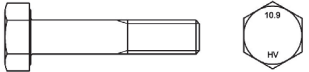
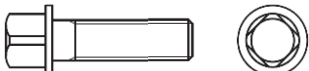
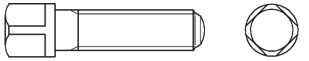
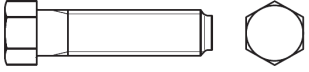
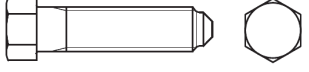


BOLTS

Name	Standard	Drawing	Property class/Mat.
Hexagon head bolts	DIN 931 ISO 4014 DIN 960 ISO 8765 PN 82101		5.6, 5.8, 8.8, 10.9, 12.9 A2-70, A4-80 PA6
Hexagon head bolts	DIN 933 ISO 4017 DIN 961 ISO 8766 PN 82105		5.8, 8.8, 10.9, 12.9 A2-70, A4-80 brass PA6
Hexagon flange bolts	DIN 6921		10.9
Hexagon socket head cap screws	ISO 4762 ISO 21269		8.8, 12.9 A2-70, A4-80 PA6
Hexalobular socket head cap screws	ISO 1479		8.8, 12.9
Hexagon socket head cap screws (low head)	DIN 7984		08.8, 010.9
Hexagon socket head cap screws (low head) with centre hole	DIN 6912		08.8 A2
Hexagon and hexalobular socket countersunk head screws	DIN 7991		010.9, 012.9 A2, A4
Flat countersunk square neck bolts	DIN 608		8.8, 10.9
Bolts with external hexalobular driving feature with small flange	DIN 34800		8.8, 12.9
Plough bolts	AN 263		12.9
Mushroom head square neck bolts	DIN 603		4.8, 8.8 A2, A4

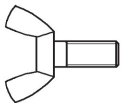
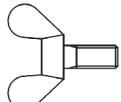
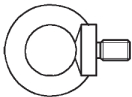
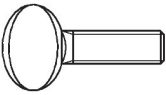
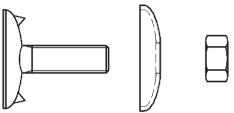
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BOLTS

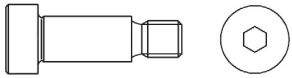
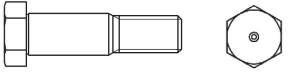
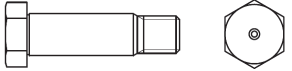
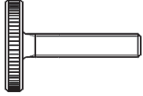
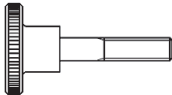
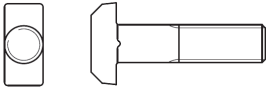
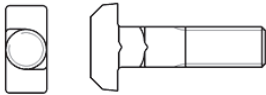
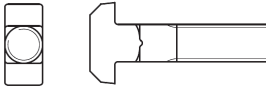
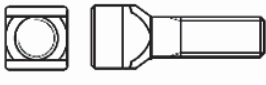
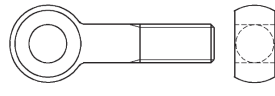
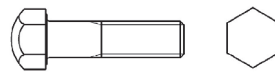
Name	Standard	Drawing	Property class/Mat.
Hexagon and hexalobular socket button head screws	ISO 7380		010.9 A2
Hexagon socket button head screws with flange	~ISO 7380		010.9 A2
Hexagon head bolts for high-strength structural bolting HV	DIN 6914 EN 14399-4		10.9
Studs, metal end ~1 d	DIN 938		8.8
Studs, metal end ~1,25 d	DIN 939		8.8
Studs, metal end ~2 d	DIN 835		8.8
Square head bolts with collar	DIN 478		8.8, 10.9
Triangle head bolts	DIN 22424		5.8
Square head bolts with short dog point	DIN 479		8.8, 10.9
Square head bolts with collar, short dog points and rounded end	DIN 480		8.8, 10.9
Hexagon sets screws with full dog point	DIN 561		8.8
Hexagon head set screws with half dog point and cone end	DIN 564		8.8

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BOLTS

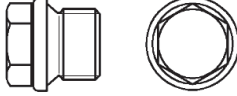
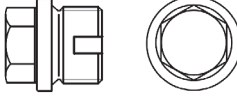
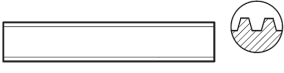
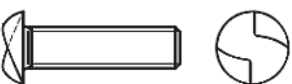
Name	Standard	Drawing	Property class/Mat.
Hexagon socket set screws with flat point	ISO 4026		45H A2 brass PA6
Hexagon socket set screws with cone points	ISO 4027		45H A2 brass PA6
Hexagon socket set screws with full dog points	ISO 4028		45H A2 brass
Hexagon socket screws with cup points	ISO 4029		45H A2 brass PA6
Slotted set screws with flat point	ISO 4766		14H A2 brass PA6
Slotted set screws with cone point	ISO 7434		14H A2 brass
Threaded ball spring plungers	AN 420		steel
Wing screws (American pattern)	AN 265		steel A2 A4
Wing screws	DIN 316		steel A2
Lifting eye bolts	DIN 580		C15 A4
Thumb screws	AN 264		steel
Belting bolts	DIN 15237		4.6, 8.8 A4

BOLTS

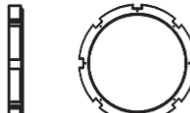
Name	Standard	Drawing	Property class/Mat.
Hexagon socket head shoulder screws	ISO 7379		12.9
Hexagon fit bolts, long thread	DIN 609		8.8, 10.9
Hexagon fit bolts, short thread	DIN 610		8.8
Knurled thumb screws, low type	DIN 653		steel
Knurled thumb screws, high type	DIN 464		steel
T-head bolts	DIN 261		8.8
T-head bolts with double nib	DIN 188		8.8
T-head bolts with square neck	DIN 186		8.8
Bolts and screws for T - slots	DIN 787		8.8, 10.9, 12.9
Eye bolts	DIN 444 B DIN 444 LB		4.6, 8.8 brass
Truck shoe bolts	AN 261		10.9, 12.9

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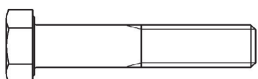
BOLTS

Name	Standard	Drawing	Property class/Mat.
Hexagon socket pipe plugs, conical thread	DIN 906		steel A4 brass
Hexagon socket screws plugs, cylindrical thread	DIN 908		steel A4 brass
Hexagon head screw plugs, conical thread	DIN 909		steel
Hexagon head screw plugs, heavy type, cylindrical thread	DIN 910		steel A4 brass
Hexagon head screw plugs, light type, cylindrical thread	DIN 7604		steel A4 brass
Locking screws with collar and vent – form B	DIN 5586 B		steel A4 brass
Threaded rods	DIN 976		4.8, 8.8, 10.9 42CrMo4 A2, A4 brass
Threaded rods with trapezoidal thread DIN 103	DIN 976		C15
Countersunk head security screws with Tx-pin socket	AN 294		steel A2
Button head security screws with Tx-pin socket	AN 293		steel A2
Countersunk head security screws with spanner holes	AN 290		steel A2
Raised cheese head security screws with spanner holes	AN 291		steel A2
Pan head security screws with one way drive	AN 292		steel A2

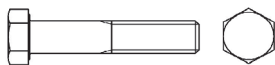
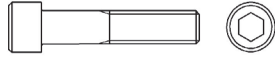
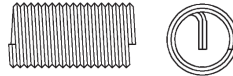
COMPONENTS FOR BEARINGS

Name	Standard	Drawing	Property class/Mat.
Locknuts KM, HM T	DIN 981		steel
Locknuts HM	DIN 981		steel
Slotted round nuts for hook spanner	DIN 1804		steel
Self locking ring-nuts	AN 86		steel
Prevailing torque bearing nuts with metal insert	AN 135		steel
Lock washers MB	DIN 5406		spring steel
Lockclips MS	DIN 5406		steel
Snap rings for bearings with ring groove	DIN 5417		spring steel

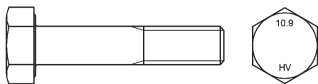
STUDS FOR FLANGED JOINTS

Name	Standard	Drawing	Property class/Mat.
Fully threaded studs	DIN 976		42CrMo4 25CrMo4
Hexagon head bolts	ISO 4014 (DIN 931)		5.6
Nuts for flanged joints	DIN 2510-5 NF		Ck35, 25CrMo4 42CrMo4
Hexagon nuts	ISO 4032 (DIN 934)		8

INCH FASTENERS

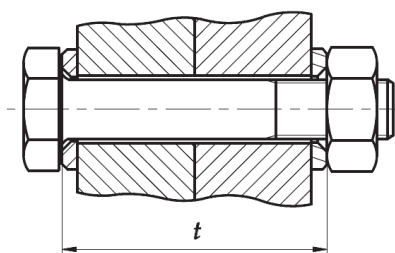
Name	Standard	Drawing	Property class/Mat.
Bolts			
Hex cap screws	ANSI B18.2.1 (~DIN 931)		Gr. 5 (~8.8) Gr. 8 (~10.9)
Hex cap screws	ANSI B18.2.1 (~DIN 933)		Gr. 5 (~8.8) Gr. 8 (~10.9)
Hexagon socket head cap screws	ANSI B18.3 (~ISO 4762)		ASTM A574
Low head hexagon socket cap screws	ANSI B18.3 (~DIN 7984)		Gr. 8 (~10.9)
Hexagon socket flat countersunk head cap screws	ANSI B18.3 (~DIN 7991)		ASTM F835
Hexagon socket button head cap screws	ANSI B18.3 (~ISO 7380)		ASTM F835
Hexagon socket head shoulder screws	ANSI B18.3 (~ISO 7379)		steel
Nuts			
Hexagon nuts	ANSI B18.2.2 (~DIN 934)		Gr. 5 (~8.8)
Washers			
Safety washers S Schnorr	AN 131		steel
Threaded rods			
Threaded rods	ANSI B18.31.2 (~DIN 976)		Gr. 5 (~8.8)
Wire thread inserts	ANSI B18.29.1 (~DIN 8140 A)		18-8 (A2)

HIGH STRENGTH STRUCTURAL BOLTING HV

Name	Standard	Drawing	Property class/Mat.
Hexagon head bolts	DIN 6914 EN 14399-4		10.9
Hexagon nuts	DIN 6915 EN 14399-4		10
Washers	DIN 6916 EN 14399-6		C45

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Clamp length



t - Clamp length acc. to EN 14399-4

Clamp length acc. to EN 14399-4

L \ d	M12	M16	M20	M22	M24	M27	M30	M36
35	16-21							
40	21-26	17-22						
45	26-31	22-27	18-23					
50	31-36	27-32	23-28	22-27				
55	36-41	32-37	28-33	27-32				
60	41-46	37-42	33-38	32-37	29-34			
65	46-51	42-47	38-43	37-42	34-39			
70	51-56	47-52	43-48	42-47	39-44	36-41		
75	56-61	52-57	48-53	47-52	44-49	41-46	39-44	
80	61-66	57-62	53-58	52-57	49-54	46-51	44-49	
85	66-71	62-67	58-63	57-62	54-59	51-56	49-54	43-48
90	71-76	67-72	63-68	62-67	59-64	56-61	54-59	48-53
95	76-81	72-77	68-73	67-72	64-69	61-66	59-64	53-58
100		77-82	73-78	72-77	69-74	66-71	64-69	58-63
105		82-87	78-83	77-82	74-79	71-76	69-74	63-68
110		87-92	83-88	82-87	79-84	76-81	74-79	68-73
115		92-97	88-93	87-92	84-89	81-86	79-84	73-78
120		97-102	93-98	92-97	89-94	86-91	84-89	78-83
125		102-107	98-103	97-102	94-99	91-96	89-94	83-88
130		107-112	103-108	102-107	99-104	96-101	94-99	88-93



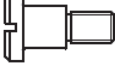
Clamp length acc. to EN 14399-4 cont.

L \ d	M20	M22	M24	M27	M30	M36
135	108-113	107-112	104-109	101-106	99-104	93-98
140	113-118	112-117	109-114	106-111	104-109	98-103
145	118-123	117-122	114-119	111-116	109-114	103-108
150	123-128	122-127	119-124	116-121	114-119	108-113
155	128-133	127-132	124-129	121-126	119-124	113-118
160		132-137	129-134	126-131	124-129	118-123
165		137-142	134-139	131-136	129-134	123-128
170			139-144	136-141	134-139	128-133
175			144-149	141-146	139-144	133-138
180			149-154	146-151	144-149	138-143
185			154-159	151-156	149-154	143-148
190			159-164	156-161	154-159	148-153
195			164-169	161-166	159-164	153-158
200				166-171	164-169	158-163

Specified preloads and torques for 10.9 HV assemblies acc. to DIN 18800-7

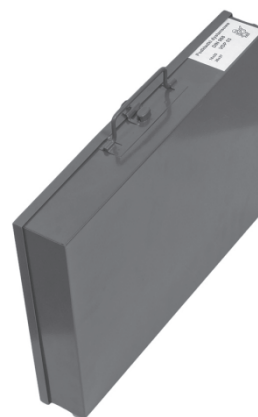
Nominal bolt diameter Ø d	Required preload Fv in the bolt	Torque procedure		Impact procedure	Angle of rotation procedure
		Tightening torque to be applied Mv*			
		hot dip galvanized, MoS2 lubricated nut	lightly oiled nut	Preload to be applied Fv	Pre-tightening torque to be applied Mv
mm	kN	Nm	Nm	kN	Nm
M12	50	100	120	60	10
M16	100	250	350	110	50
M20	160	450	600	175	50
M22	190	650	900	210	100
M24	220	800	1100	240	100
M27	290	1250	1650	320	200
M30	350	1650	2200	390	200
M36	510	2800	3800	560	200
*Attention ! Please note the different torques for MoS2 lubricated hot dip galvanized nuts and plain, oiled nuts.					

CLAMPING ELEMENTS

Name	Standard	Drawing	Property class/Mat.
Bolts and screws for T - slots	DIN 787		8.8, 10.9, 12.9
Studs for use with tee nuts	DIN 6379		10.9
Nuts for T - slot	DIN 508		10 A4
Hexagon nuts with a height of 1,5 d	DIN 6330 B		10
Hexagon collar nuts with a height of 1,5 d	DIN 6331		10
Spherical washers	DIN 6319 C		steel
Conical washers	DIN 6319 D		steel
Conical washers	DIN 6319 G		steel
Washers for clamping devices	DIN 6340		steel
C – washers for jigs and fixtures	DIN 6372		steel
Captive C-washers	DIN 6371		steel
Slotted pan head screws with shoulder	DIN 923		5.8 A2

SETS IN METAL CASES

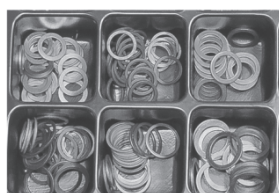
We offer sets of fasteners packed in handy metal cases. It's a perfect solution for convenient storage and use of various fasteners.



It is a great solution for service people, repair shops and retail sales.

Goods are located in slots, segregated by type and size, which enables fast and easy access to the required part.

You can easily fill an empty slot in your metal case by ordering a refill kit on our e-shop.



Exemplary sets:

1. Shim washers DIN 988
2. Sealing rings DIN 7603A
3. Retaining ring for shafts DIN 471
4. Retaining ring for bores DIN 472
5. Pipe plugs DIN 906, screws plugs, DIN 908, DIN 910
6. Lubricating nipples DIN 71412
7. Cotter pins ISO 1234
8. Woodruff keys DIN 6888



The range of products offered in metal cases has gradually been expanded. You can also create fastener sets according to your own specification.



Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

Argip Sp. z o.o.

ul. Ostrowska 400
PL-61-312 Poznań

has established and applies
a Quality Management System for

Wholesale trade of fasteners.

An audit was performed, Report No. **70056790**

Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until **2016-01-11**

Certificate Registration No. **12 100 20858 TMS**

M. Wegner

Munich, 2013-01-18



QMS-TGA-ZM-07-92

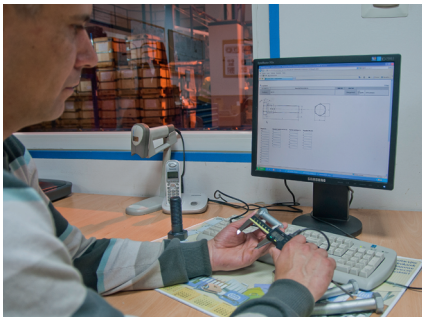


Salt spray test chamber

QUALITY CONTROL



Hydraulic testing machine



Microscope



Measurements of dimensions

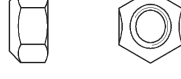
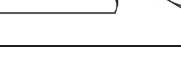


Coating thickness measurements



Hardness measurements

NUTS

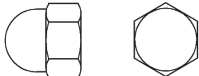
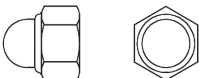
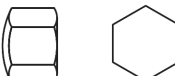
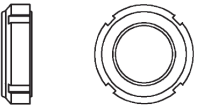
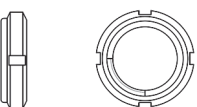
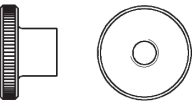
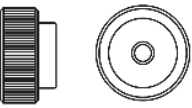
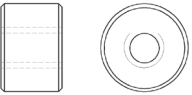
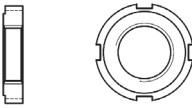
Name	Standard	Drawing	Property class/Mat.
Hexagon nuts	DIN 934, DIN 555 ISO 4032 ISO 8673		5, 8, 10, 12 A2-70, A4-80 brass PA6
Prevailing torque type hexagon nuts with non-metallic inserts: low type	DIN 985		8, 10, 12 A2, A4 brass
Prevailing torque type hexagon nuts with non-metallic insert: high type	DIN 982 DIN6924		8, 10, 12 A2, A4 brass
Prevailing torque type hexagon nuts, all-metal type	DIN 980 V DIN6925		8, 10
Prevailing torque type hexagon nuts, all-metal type	~DIN 934 Biloc		8 A2
Hexagon thin nuts	DIN 439 DIN 936		04, 05, 17H, 22H A2, A4 brass PA6
Hexagon nuts with a height of 1,5d	DIN 6330 B		10
Hexagon collar nuts with a height of 1,5d	DIN 6331		10
Hexagon slotted and castle nuts	DIN 935		8, 10
Hexagon thin slotted and castle nuts	DIN 937		17H, 22H
Hexagon connection nuts ~ 3d	DIN 6334		steel
Hexagon stand-off nuts	AN 85		steel

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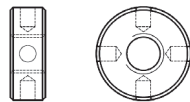
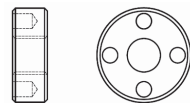
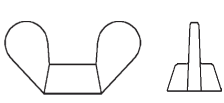
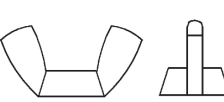
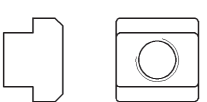
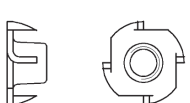
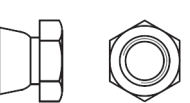
NUTS

Name	Standard	Drawing	Property class/Mat.
Hexagon nuts for high-strength structural bolting HV	DIN 6915 EN 14399-4		10
Hexagon nuts	DIN 2510-5 NF		Ck35, 25CrMo4 42CrMo4
Hexagon nuts for track shoe	AN 84		10
Hexagonal nuts with trapezoidal thread	AN 122		C15
Hexagon flange nuts	DIN 6923		8, 10
Prevailing torque type hexagon flange nuts with non-metallic insert	DIN 6926		8, 10
Prevailing torque type hexagon flange nuts, all metal type	DIN 6927		10
Wheel nuts	DIN 74361 H		10
Hexagon weld nuts	DIN 929		steel A2
Square weld nuts	DIN 928		steel A2
Square nuts	DIN 557		5
Square thin nuts	DIN 562		04

NUTS

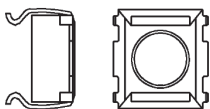
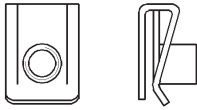
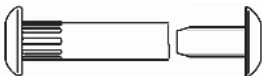
Name	Standard	Drawing	Property class/Mat.
Hexagon domed cap nuts high type	DIN 1587		6, 8 A2, A4 brass
Prevailing torque type, hexagon, domed cap nuts with non-metallic insert	DIN 986		8
Hexagon cap nuts, low type	DIN 917		5, 6
Locknuts KM, HM T	DIN 981		steel
Locknuts HM	DIN 981		steel
Prevailing torque type locknuts with non-metallic inserts	AN 86		steel
Prevailing torque type locknuts all metal type	AN 135		steel
Knurled nuts, high type	DIN 466		5 brass A2
Knurled nuts, low type	DIN 467		5 brass A2
Knurled nuts	DIN 6303 A		steel
Round nuts with trapezoidal thread	AN 117		C15
Slotted round nuts for hook spanner	DIN 1804		steel
Round reducing nuts	AN 89		steel

NUTS

Name	Standard	Drawing	Property class/Mat.
Round nuts with set pin holes in side	DIN 548		5
Round nuts with drilled holes in one face	DIN 547		5
Slotted round nuts	DIN 546		5
Wing nuts	DIN 315		steel brass A2
Wing nuts (American type)	AN 93		steel brass A2
Lifting eye nuts	DIN 582		C15, A4
Nuts for T-slot	DIN 508		10 A4
T- nuts	AN 90		steel
Self locking counter nuts (Pal nuts)	DIN 7967		spring steel
Break off nuts	AN 94		steel A1
Hexagon socket mushroom head cap nuts E-15	AN 88		steel
Eye coupling nuts	AN 91		steel



NUTS

Name	Standard	Drawing	Property class/Mat.
Cage nuts	AN 87		steel A2
Clips for metric screws	AN 326		steel
Clips for metric screws	AN 125		steel
Clips for self tapping screws	AN 126		steel
Furniture connector	AN 68		steel

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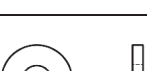
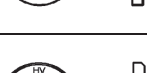


PINS

Name	Standard	Drawing	Property class/Mat.
Split pins	ISO 1234		spring steel A2, A4
Spring pins, single type	AN 75		spring steel A2
Spring pins, double type	AN 76		spring steel A2
Commercial linch pins	AN 77		steel
Linch pins for tubes	AN 72		steel

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WASHERS

Name	Standard	Drawing	Property class/Mat.
Flat washers	DIN 125 A		140HV, 200HV, 300HV A2, A4 brass, copper
Flat washers	DIN 34815		PA6
Flat washers, outside diameter $\sim 3d$	DIN 9021		140HV, 200HV A2, A4 brass
Round washers for wood constructions	DIN 440		steel A2, A4
Shim rings and supporting rings	DIN 988		steel
Washers for cheese head screws	DIN 433		200HV A2, A4 brass
Flat washers for clevis pins	DIN 1440		steel A2, A4
Car body washers	AN 81		steel
Flat washers for bolt with heavy type spring pin	DIN 7349		steel A2, A4
Washers for steel structures	DIN 7989		steel A2, A4
Washers for clamping devices	DIN 6340		(350+80HV)HV30
Washers for high-strength structural bolting HV	DIN 6916 EN 14399-6		C45

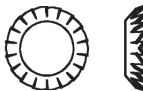
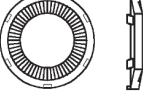
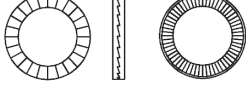
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WASHERS

Name	Standard	Drawing	Property class/Mat.
Single coil spring washers	DIN 127 B		spring steel A2, A4 bronze
Single coil square section spring washers for screws with cylindrical heads	DIN 7980		spring steel A2, A4 bronze
Spring washers (for disc wheels)	DIN 74361 C		spring steel
Single coil spring lock washers, curved	DIN 128 A		spring steel A2, A4
Spring washers, curved	DIN 137 A		spring steel
Spring washers, crinkled	DIN 137 B		spring steel A2, A4
Conical spring washers	DIN 6796		spring steel A2, A4
High load safety washers HS Schnorr	AN 130		spring steel
Externally toothed lock washers	DIN 6797 A		spring steel A2, A4
Internally toothed lock washers	DIN 6797 J		spring steel A2, A4
Serrated lock washers externally toothed	DIN 6798 A		spring steel A2, A4
Serrated lock washers internally toothed	DIN 6798 J		spring steel A2, A4

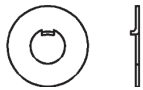
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WASHERS

Name	Standard	Drawing	Property class/Mat.
Serrated lock washers internally and externally toothed	DIN 6798 DD		spring steel
Countersunk serrated lock washers	DIN 6798 V		spring steel A2, A4
Conical knurled locking washers (contact washer), medium type	NFE 25-511 M		spring steel A2
Conical knurled locking washers (contact washer), large type	NFE 25-511 L		spring steel A2
Conical knurled locking washers (contact washer), narrow type	NFE 25-511 N		spring steel A2
Conical knurled locking washers (contact washer), toothed type	NFE 25-511		spring steel A2
Safety washers S Schnorr	AN 131		spring steel A2
Safety washers VS Schnorr	AN 132		spring steel A2
Washers with tab	DIN 93		steel A2, A4
Washers with two tabs	DIN 463		steel A2, A4
Wedge-locking washers	AN 133		steel A4
Wedge-locking washers F type	AN 134		steel A4

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WASHERS

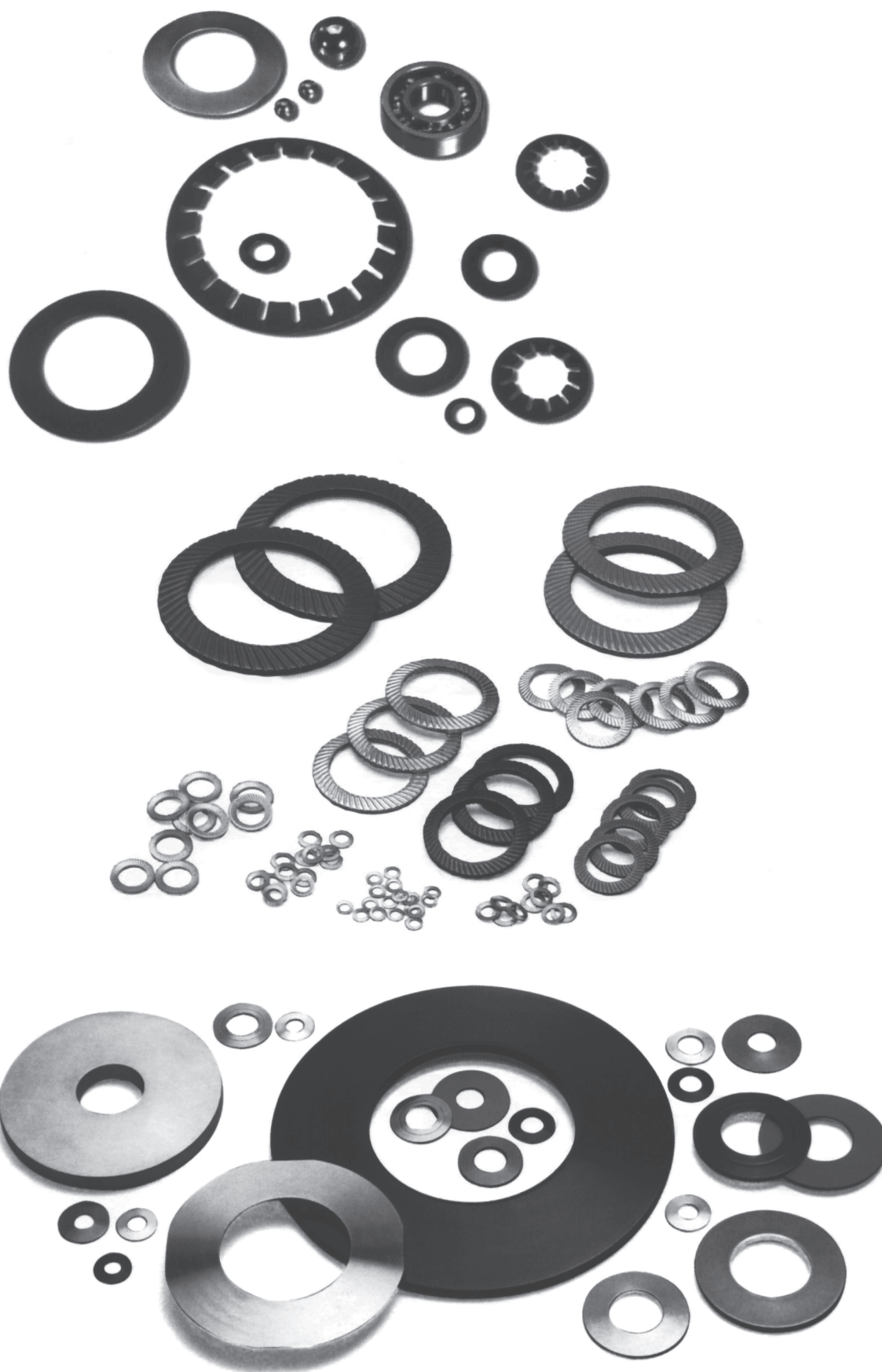
Name	Standard	Drawing	Property class/Mat.
Washers with internal tab	DIN 462		steel A2, A4
Washers with external tab	DIN 432		steel A2, A4
Square taper washers for U-sections	DIN 434		steel A2, A4
Square taper washers for I-sections	DIN 435		steel A2, A4
Spherical washers	DIN 6319 C		steel
Conical washers	DIN 6319 D		steel
Conical washers	DIN 6319 G		steel
Square washers	DIN 436		steel A2, A4
Lockwashers	DIN 5406		steel
Sealing washers	DIN 7603		copper
EPDM washers	AN 248		steel, EPDM aluminium A2

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ARGIP

GENERAL REPRESENTATIVE



DISC SPRINGS



Name	Standard	Drawing	Property class/Mat.
Disc springs	DIN 2093		spring steel stainless steel
Disc springs – Type K	AN 120		spring steel
Slotted disc springs - Type K	AN 121		spring steel

“Highest load in the smallest space” - **Disc springs DIN 2093**



Disc springs are washers of a tapered shape designed to bear axial loads. They may be stressed both in a static condition and by varying dynamic loads. Disc springs can be used individually or in different combinations (can be stacked in series or in parallel or even stacks from spring sets can be formed) all in order to obtain the desired spring characteristic.

Using disc springs gives a lot of advantages:

- Better use of space than for other type of springs

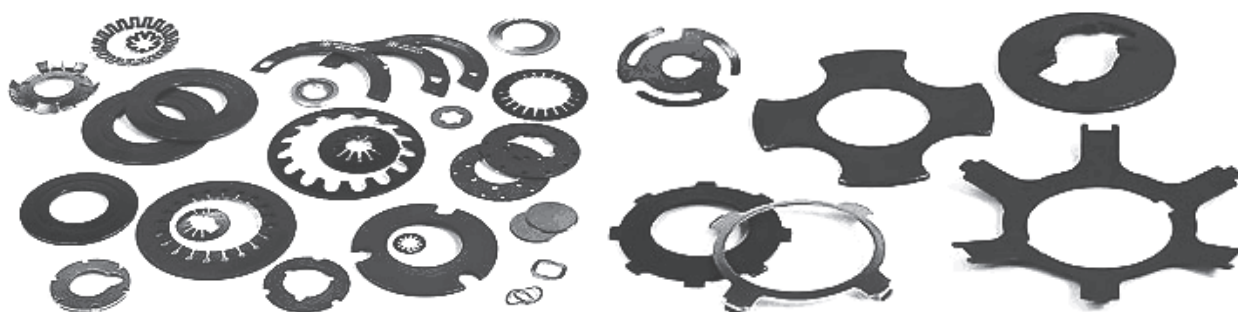
- Spring characteristic can be designed to be linear, or regressive and with suitable arrangement also progressive.

- Greater resistance to fatigue and varying loads

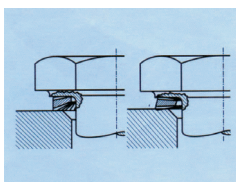
- Stock keeping is minimized, as the individual spring sizes can be combined universally.

The range of standard disc springs is very large, from small sizes – 8/4,2 / 0,2 up to the largest 250/127/14 as per DIN 2093 A,B,C and SCHNORR works standards.

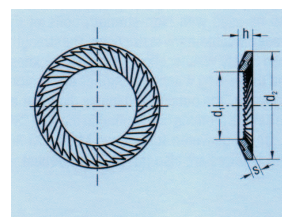
The high quality and the many advantages of disc springs make them extensively used in many fields eg.: in machine engineering , tool production, in railway and automotive industry etc.



SAFETY WASHERS



- high quality
- the locking through the tothing takes place at the outside diameter which effects the greatest possible leverage against loosening
- high resistance to vibration due to positive locking of the serrations
- the closed ring form results in a high degree of pretensioning, i.e. an excellent frictional connection
- concentric application of force eliminates bending in the bolts
- sliding surfaces avoid the formation of cuttings with the tightening
- no splitting during tightening with a proper radius between bolt shaft and bolt head



SCHNORR®-Safety Washers are available in a variety of materials: spring steel as per DIN 17222, corrosion resistant steel 1.4301, and spring bronze CuSn8, and with different surface finishes: blackened (standard), browned, phosphated, zinc-plated, cadmium-plated



“S” washer - can be used for normal duty and it is available for screws from M 1.6 to M 36

“VS” washer can be used with high-strength bolts of the grade 8.8 without any restrictions for screws from M 5 to M 30

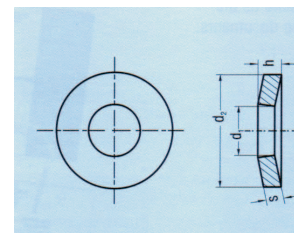
“UV” captive safety washers for screw and washer assemblies, for screws 2,5 to 10 mm; minimum quantity: 50.000 pieces per size



LOAD WASHERS DIN 6796

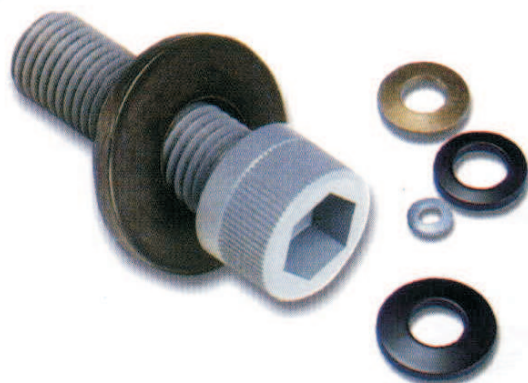
Load Washers

These are washers in the form of a disc springs, securing the connection using the forces of friction only. Load washers are the compensating element when loosening of the bolt connection occurs, through eg. applying high initial load. Load washers do not provide sufficient prevention from loosening when alternating lateral loads are applied.



Special advantages of the Schnorr Load Washers:

- high axial load
- optimum compensation for setting in the joint
- reduction of the dynamic loading of the screw due to higher elasticity of the joint
- uniform concentric loading and high safety through high degree of spring action
- great dimensional range: from M2 to M30



LOAD WASHERS DIN 6796

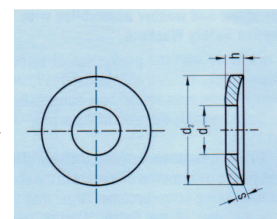
These SCHNORR®-Load Washers have been specifically developed for high-strength bolts up to the strength class 8.8, 10.9 acc. To DIN ISO 898 part I. The loads of the washers have been matched to these bolts and are 70 – 90 % of the bolt load in the flat state. Schnorr load washers have greater diameter than standard Schnorr load washers to be able to carry the higher loads. Therefore, when designing a bolted connection load washers have to be provided with enough assembly space.

LOAD WASHERS “HS” TYPE

Load Washers “HS” type



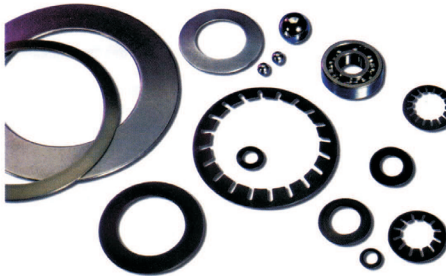
This Safety Washer is in principle a load washer with a smaller outer diameter than those in DIN 6796. A notable feature of these washers is the slightly curved form, which provides a progressively increasing characteristic curve. Despite the smaller outside diameter dimensions, this makes it possible to achieve the same load as the load washers as per DIN 6796.



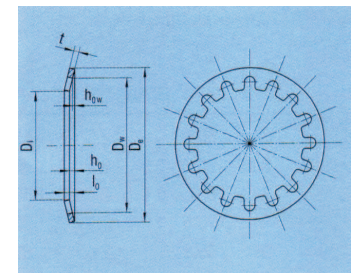
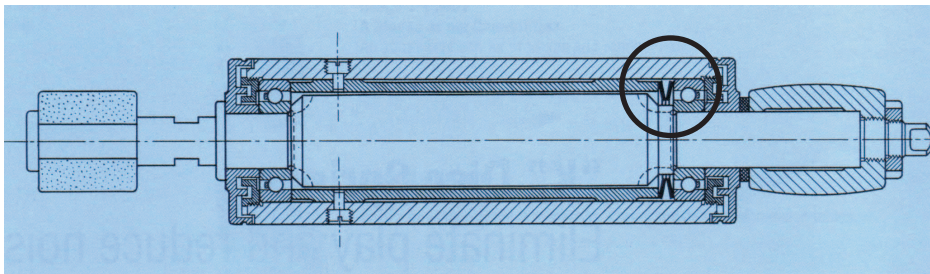
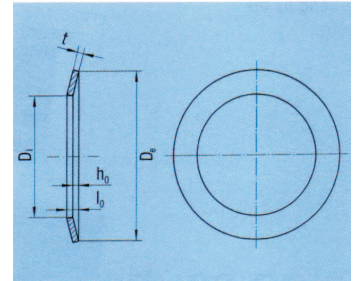
DISC SPRINGS "K"

SCHNORR® - Disc Springs "K" The ideal complement to ball bearings

- An important advantage of "K" disc springs is their shape of a simple ring. This ensures that the load which they apply to the bearing is distributed evenly around the bearing ring.
- Quieter bearing work
- Wide dimensional range: from $D = 9,8 \text{ mm}$ up to $D = 358 \text{ mm}$



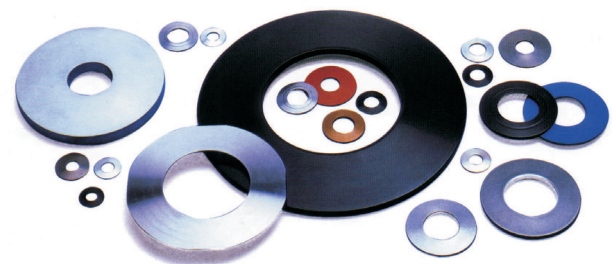
- Optimal preload can be achieved by combining single K spring into stacks
- As all springs are designed to have a highly regressive characteristic large (h_0/t) spring load remains nearly constant for large spring deflection. This gives several advantages:
 - The tolerances built up in the assembly can be accommodated without significant change in preload.
 - Length variations through differential expansion can be accommodated.
 - Any subsequent axial movement of the assembly does not alter the preload significantly.



DISC SPRINGS DIN 2093

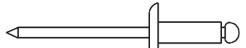
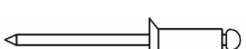
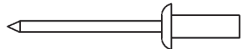
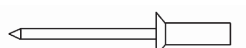
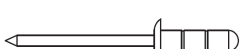
Disc Springs DIN 2093 - "Highest load in the smallest space"

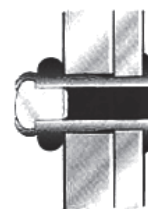
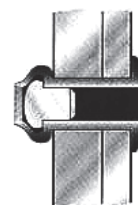
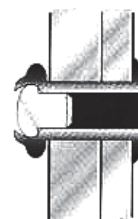
- Depending on the spring dimension resp. the choice of position the character line can be linear, regressive or progressive (variable character line).
- Due to the nearly unlimited number of possible combinations of individual disc springs the characteristic curve and the column length can be further varied within additional limits.
- Optimal use of space and utmost spring load with minimum deflection (very high loads in the smallest of spaces).
- Considerable attenuation especially when stacked.
- No impermissible relaxation occurs provided the permissible stress is not exceeded.
- Highest life cycle with dynamic loads
- reduced need for stock carrying due to the multitude of applications possible for certain spring sizes (can be universally combined).
- Force transfer is absolutely concentric due to the rotationally symmetric form.
- Dimensional range: from $\varnothing 6$ up to $\varnothing 250 \text{ mm}$



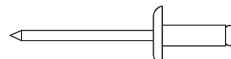
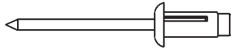
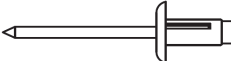
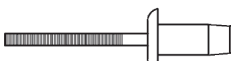
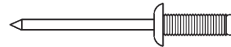


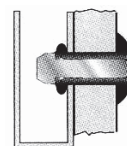
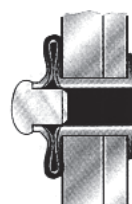
BLIND RIVETS

Name	Standard	Drawing	Property class/Mat.
– standard			
– – dome head	ISO 15977 ISO 15981 ISO 15979 ISO 15983 ISO 16582 AN 380		Al/St, Al/A2, Al/Al, St/St, A2/A2, A4/A4, Cu/St, Cu/bronze, RAL colour painted
– – large dome head	AN 381 AN 382 AN 383 AN 384 AN 385		Al/St, Al/A2, Al/Al St/St A2/A2
– – countersunk head	ISO 15978 ISO 15980 ISO 15984		Al/St St/St A2/A2
– sealed			
– – dome head	ISO 15973 ISO 15975 ISO 15976 ISO 16585 AN 386 AN 387		Al/St, Al/Al, Al/A2 St/St, A2/A2 Cu/St
– – large dome head	AN 388		Al/St
– – countersunk head	ISO 15974		Al/St
– multigrip			
– – dome head	AN 389 AN 406 AN 390		Al/St, Al/A2 St/St
– – large dome head	AN 391		Al/St
– – countersunk head	AN 392		Al/St

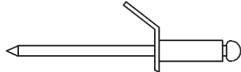
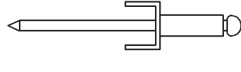

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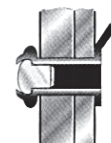
BLIND RIVETS

Name	Standard	Drawing	Property class/Mat.
– structural			
– – dome head	AN 393 AN 407 AN 408		St/St Al/Al A2/A2
– – countersunk head	AN 409 AN 414		Al/Al St/St
– peeled			
– – dome head	AN 394		Al/St
– – large dome head	AN 395		Al/St
– Trebol			
– – dome head	AN 396		Al/Al
– – large dome head	AN 415		Al/Al
– Hard Lock			
– – dome head	AN 399		St/St
– grooved			
– – dome head	AN 400		Al/St

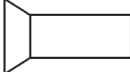
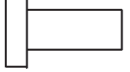
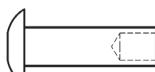
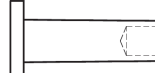

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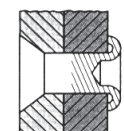
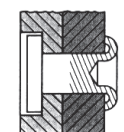
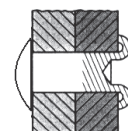
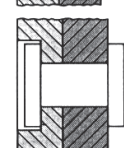
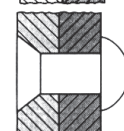
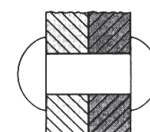
BLIND RIVETS

Name	Standard	Drawing	Property class/Mat.
– with tabs for electric applications			
– – single	AN 401		Ms/St
– – double	AN 402		Ms/St



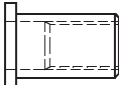
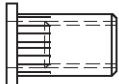
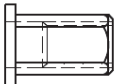
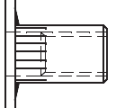
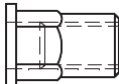
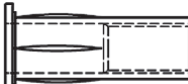
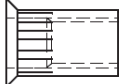
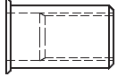
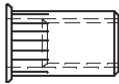
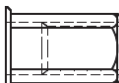
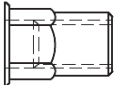
RIVETS

Name	Standard	Drawing	Property class/Mat.
solid			
Round head rivet	DIN 660 PN 82952		steel aluminium brass copper
Countersunk head rivet	DIN 661 PN 82954		steel aluminium brass copper
Flat head rivet	AN 78		aluminium
semi-tubular			
Flat round head semi-tubular rivet	DIN 6791		steel
Flat head semi-tubular rivet	DIN 7338 B		steel
Countersunk head semi-tubular rivet	PN 82974		steel



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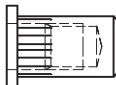
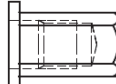
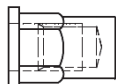
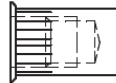
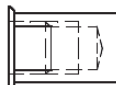
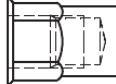
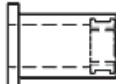
BLIND RIVET NUTS

Name	Standard	Drawing	Property class/ Mat.
– open end with flat head			
– – with cylindrical shank	AN 310		steel stainless steel aluminium
– – with cylindrical grooved shank	AN 315		steel stainless steel
– – with hexagon shank	AN 322		steel
– – extra large, with cylindrical grooved shank (for plastic)	AN 317		steel
– – with hexagon on the part of the shank length	AN 313		steel
– – Trebol	AN 328		steel
– open end with countersunk head			
– – with cylindrical grooved shank	AN 318		steel stainless steel
– – reduced, with cylindrical shank	AN 314		steel stainless steel aluminium
– – reduced, with cylindrical grooved shank	AN 320		steel stainless steel
– – reduced, with hexagon shank	AN 323		steel
– – reduced, with hexagon on the part of the shank length	AN 329		steel

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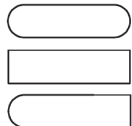
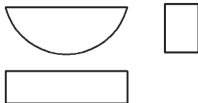
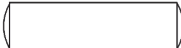


BLIND RIVET NUTS

Name	Standard	Drawing	Property class/ Mat.
– closed end with flat head			
– – with cylindrical grooved shank	AN 324		steel
– – with hexagon shank	AN 243		steel
– – with hexagon on the part of the shank length	AN 271		steel
– closed end with reduced countersunk head			
– – with cylindrical grooved shank	AN 325		steel
– – with cylindrical shank	AN 272		steel
– – with hexagon on the part of the shank length	AN 273		steel
– antivibration			
– – made of neoprene	AN 417		neoprene

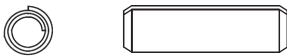
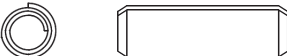
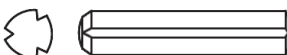
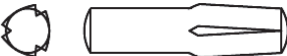
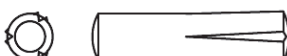
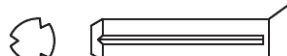
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KEYS, PINS

Name	Standard	Drawing	Property class/Mat.
keys			
Parallel keys	DIN 6885 A DIN 6885 B DIN 6885 AB		steel A4
Parallel keys 1m length	DIN 6880		steel A4
Woodruff key	DIN 6888		steel A4
pins			
Parallel pins, hardened	DIN 7		steel A1, A4
Parallel pins, hardened	DIN 6325		steel
Parallel pins with internal thread	DIN 7979 D		steel
Taper pins	DIN 1 B		steel A1, A4
Taper pins with internal thread	DIN 7978		steel
Taper pins with threaded end	DIN 7977		steel
Spring-type straight pins-slotted, heavy type	ISO 8752		spring steel A2
Spring-type straight pins-slotted, light type	ISO 13337		spring steel A2

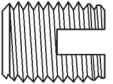
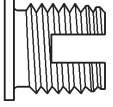
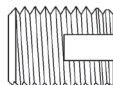
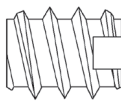
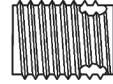
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KEYS, PINS

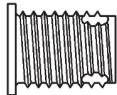
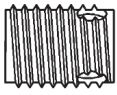
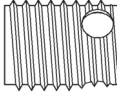
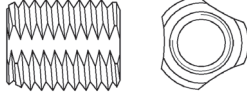
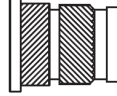
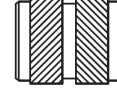
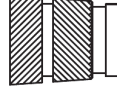
Name	Standard	Drawing	Property class/Mat.
pins			
Spring-type straight pins - coiled, standard duty	ISO 8750		spring steel stainless steel
Spring-type straight pins - coiled, light duty	ISO 8751		spring steel stainless steel
Grooved pins – full-length parallel grooved, with chamfer	ISO 8740		steel
Grooved pins - half length reverse-taper grooved	ISO 8741		steel
Grooved pins – one-third-length centre grooved	ISO 8742		steel
Grooved pins – half-length centre grooved	ISO 8743		steel
Grooved pins - full-length taper grooved	ISO 8744		steel
Grooved pins - half-length taper grooved	ISO 8745		steel
Grooved pins with round head	ISO 8746		steel
Grooved pins with countersunk head	ISO 8747		steel

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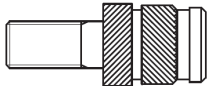
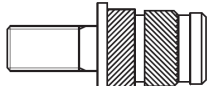
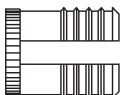
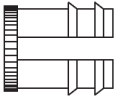
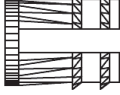
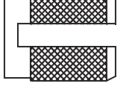
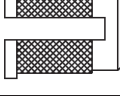
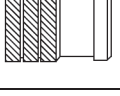
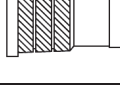
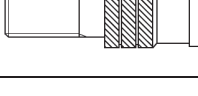
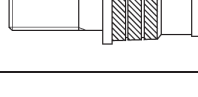
THREAD INSERTS

Name	Standard	Drawing	Property class/Mat.
wire			
Wire thread inserts	DIN 8140 A		A2
Self-locking wire thread inserts	DIN 8140 B		A2
Sets of wire thread inserts			
Sets of threaded inserts with slot			
threaded			
Self-tapping threaded inserts with slot	AN 335		steel A1 brass
Self-tapping threaded inserts with slot and collar	AN 336		steel A1 brass
Self-tapping threaded inserts with slot and internal hex	AN 343		steel brass
Self-tapping threaded inserts with slot, thin-walled	AN 341		steel A1 brass
Self-tapping threaded inserts with slot and long pitch thread	AN 345		steel brass
Self-tapping threaded inserts with slot and long pitch thread and internal hex	AN 346		steel brass
Self-tapping threaded inserts with holes	AN 337		steel A1 brass

THREAD INSERTS

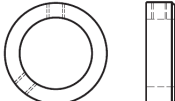
Name	Standard	Drawing	Property class/Mat.
Self-tapping threaded inserts with holes and collar	AN 338		steel brass
Self-tapping threaded inserts with holes and internal hex	AN 344		steel brass
Self-tapping threaded inserts with holes, thin-walled	AN 342		steel brass
Self-tapping threaded inserts with blind holes	AN 340		steel A1 brass
Self-tapping threaded inserts with holes and safety grooves	AN 339		steel
Self-tapping threaded inserts with 3 notches	AN 347		brass
Threaded inserts for heat or ultrasound embedding	AN 369		brass
Threaded inserts for heat or ultrasound embedding, with collar	AN 370		brass
Threaded inserts for heat or ultrasound embedding, mutual	AN 371		brass
Threaded inserts for heat or ultrasound embedding, mutual	AN 372		brass
Threaded inserts for heat or ultrasound embedding, countersunk	AN 373		brass
Threaded inserts for heat or ultrasound embedding, countersunk with collar	AN 374		brass

THREAD INSERTS

Name	Standard	Drawing	Property class/Mat.
Threaded studs for heat or ultrasound embedding	AN 375		brass
Threaded studs for heat or ultrasound embedding with collar	AN 376		brass
Expansion self-locking inserts with taps	AN 330		brass
Expansion self-locking inserts with taps	AN 331		brass
Expansion self-locking inserts with taps	AN 332		brass
Expansion self-locking inserts, knurled	AN 333		brass
Expansion self-locking inserts with collar, knurled	AN 334		brass
Press-in threaded inserts, standard	AN 365		brass
Press-in threaded inserts, with collar	AN 366		brass
Press-in threaded inserts with stud	AN 367		brass
Press-in threaded inserts with stud and collar	AN 368		brass

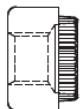
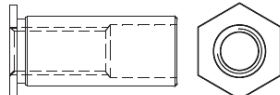
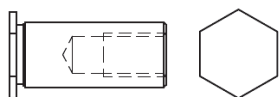
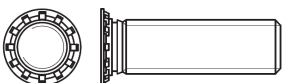
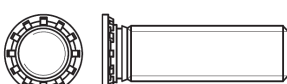
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RETAINING RINGS

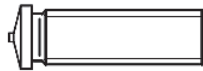
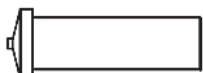
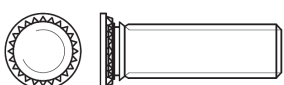
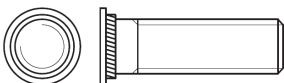
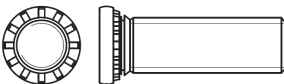
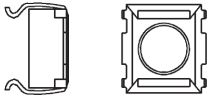
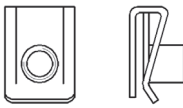
Name	Standard	Drawing	Property class/Mat.
Retaining ring for shafts A type	DIN 471		spring steel stainless steel
Retaining ring for bores J type	DIN 472		spring steel stainless steel
Retaining washers for shafts	DIN 6799		spring steel stainless steel
Snap rings for shafts and bores	DIN 7993		spring steel
Snap rings for bearings with ring groove	DIN 5417		spring steel
Adjusting rings	DIN 705 A		steel stainless steel
Push on fixes for plain shafts	AN 82		spring steel
Push on fixes for plain shafts with cover	AN 83		spring steel
Sealing washers	DIN 470		steel

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FASTENERS FOR SHEET METAL AND FOR WELDING

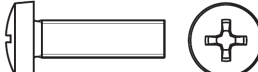
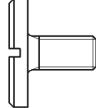
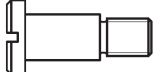
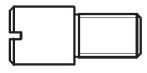
Name	Standard	Drawing	Property class/Mat.
Serrated rivet bushes	AN 348		steel
Serrated rivet bushes, reduced	AN 349		steel
Serrated rivet bushes, blind	AN 350		steel
Self-clinching nuts	AN 351		steel
Self-clinching nuts, reduced	AN 363		steel
Self-clinching hexagon nuts	AN 379		steel
Self-clinching nuts, spacer for metal	AN 352		steel
Self-clinching nuts, spacer for plastic	AN 353		steel
Self-clinching through stand offs, for metal	AN 354		steel
Self-clinching blind stand offs, for metal	AN 355		steel
Self-clinching studs with coarse serration, for sheet metal under 1 mm	AN 364		steel
Self-clinching studs with coarse serration, for sheet metal above 1 mm	AN 356		steel

FASTENERS FOR SHEET METAL AND FOR WELDING

Name	Standard	Drawing	Property class/Mat.
Studs for welding, threaded PT	ISO 13918		copper coated steel A2 Al
Studs for welding, unthreaded UT	ISO 13918		copper coated steel A2
Studs for welding with internal thread IT	ISO 13918		copper coated steel
Self-clinching studs with fine serration, for metal	AN 357		steel
Self-clinching studs with diagonal serration, for plastic	AN 358		steel
Self-clinching studs with reinforced head, for metal	AN 359		steel
Cage nuts	AN 87		steel A2
Clips for metric screws	AN 326		steel
Clips for metric screws	AN 125		steel
Clips for self tapping screws	AN 126		steel

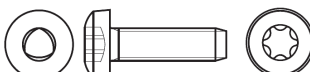
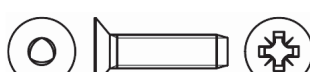
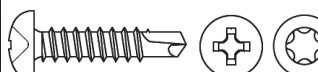
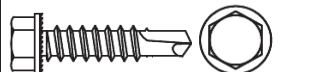
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SCREWS

Name	Standard	Drawing	Property class/Mat.
machine			
Cross recessed (Phillips) countersunk head screws	DIN 965		steel A2, A4 brass
Cross recessed (Phillips) raised cheese head screws	DIN 7985		steel A2, A4 brass PA6
Cross recessed pan head screws with collar	DIN 967		steel
Slotted pan head screws with large head	DIN 921		5.8 A2 brass
Slotted pan head screws, with shoulder	DIN 923		5.8 A2
Slotted pan head screws with small head	DIN 920		5.8
Slotted shoulder screws	DIN 927		5.8
Slotted capstan screws	DIN 404		5.8

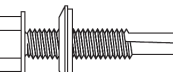
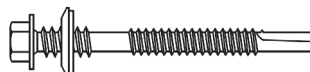
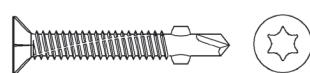
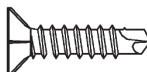
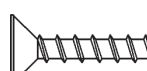
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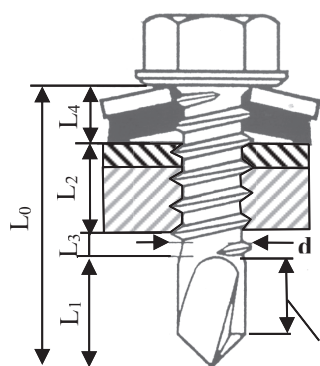
SCREWS

Name	Standard	Drawing	Property class/Mat.
thread forming			
Thread forming screws with pan head	DIN 7500 C		steel A2
Thread forming screws with hexagon head	~DIN 7500 D		steel A2
Thread forming screws with countersunk head	DIN 7500 M		steel A2
tapping			
Cross recessed countersunk (flat) head tapping screws	ISO 7050 C		steel A2
Cross recessed pan head tapping screws	ISO 7049 C		steel A2
Hexagon head tapping screws with collar	~ISO 7053		steel
self-drilling			
Drilling screws with tapping screw thread	ISO 15482		steel
Drilling screws with tapping screw thread	ISO 15481		steel
Serrated hexagon washer head drilling screws with tapping screw thread	ISO 15480		steel stainless steel
Drilling screws	DIN 7504 T		steel

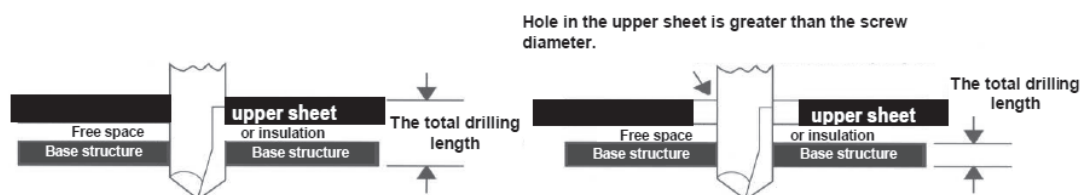
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SCREWS

Name	Standard	Drawing	Property class/Mat.
self-drilling			
Farmer self-drilling screws #1 with EPDM bonded washer	AN 211		steel RAL colour painted stainless steel
Self-drilling screws #3 hex washer head with EPDM bonded washer	~ISO 15480		steel
Self-drilling screws #5 hex washer head with EPDM bonded washer	AN 212		steel
Self-drilling screws #5 hex washer head with EPDM bonded washer, double thread	AN 213		steel
Self-drilling screws countersunk flat head with ribs under head, with 3 cutting lines, with wings	DIN 7504 P		steel
EPDM bonded washers	AN 248		steel/EPDM Al/EPDM A2/EPDM
window			
Countersunk flat head self-drilling screws - TEKS	AN 209		steel
Countersunk flat head screws - DEEP	AN 210		steel

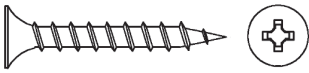
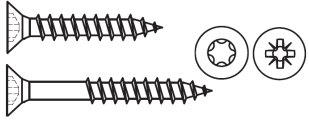
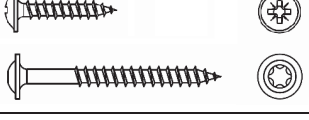
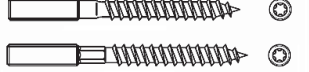
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Max. drilling capacity =
sheet thickness +
base structure thickness



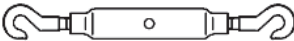
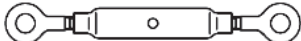
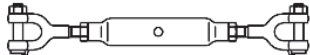
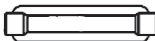
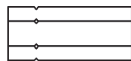
The total of length L_1 , L_2 , L_3 , L_4 determines the minimum screw length L_0 .

SCREWS

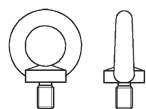
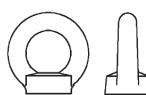
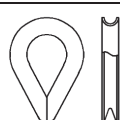
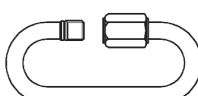
Name	Standard	Drawing	Property class/Mat.
drywall			
Drywall screws, buggle head (Phillips), twinfast thread, dark grey phosphated, for wood profiles	AN 207		steel
Drywall screws, buggle head (Phillips), twinfast thread, dark grey phosphated, for steel profiles	AN 206		steel
Self-drilling drywall screws, buggle head (Phillips), twinfast thread, dark grey phosphated, for steel profiles > 0,8 mm	AN 208		steel
Self-drilling frame head (Phillips) screws, black phosphated	AN 510		steel
chipboard			
Chipboard screws, countersunk flat head (Pozidriv, Torx), hardened	AN 201		steel A2
Chipboard screws, pan head (Pozidriv), hardened	AN 203		steel A2
Chipboard screws, truss wafer head (Pozidriv), hardened	AN 204		steel
Hexagon head wood screws	DIN 571		steel A2, A4
Torx socket hanger bolts	AN 119		steel A2

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RIGGING HARDWARE

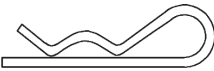
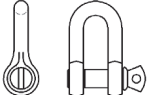
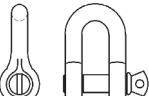
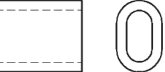
Name	Standard	Drawing	Property class/Mat.
Turnbuckles pipe body	DIN 1478		steel A4
Turnbuckles pipe body with 2 weld studs	DIN 1478		steel
Turnbuckles pipe body with hook and eye	DIN 1478		steel A4
Turnbuckles pipe body with hook and hook	DIN 1478		steel A4
Turnbuckles pipe body with eye and eye	DIN 1478		steel A4
Turnbuckles pipe body with 2 jaws	DIN 1478		steel
Turnbuckles open type	DIN 1480		steel A4
Turnbuckles open type with 2 weld studs	DIN 1480		steel
Turnbuckles open type with hook and eye	DIN 1480		steel A4
Turnbuckles open type with hook and hook	DIN 1480		steel A4
Turnbuckles open type with eye and eye	DIN 1480		steel A4
Hexagon turnbuckles	DIN 1479		steel

RIGGING HARDWARE

Name	Standard	Drawing	Property class/Mat.
Turnbuckles wire stretcher with hook and eye	AN 99		steel
Turnbuckles wire stretcher with hook and hook	AN 99		steel
Turnbuckles wire stretcher with eye and eye	AN 99		steel
Lifting eye bolts	DIN 580		C15E A4
Lifting eye nuts	DIN 582		C15E A4
Eye hooks with safety latch	DIN 689		steel
Snap hooks	AN 105		steel A4
Snap hooks with screw nut	AN 106		steel A4
S - Hooks	AN 103		steel
Thimbles	DIN 6899 B		steel A4
Repair links for chains	AN 92		steel
Quick links for chains	AN 80		steel A4

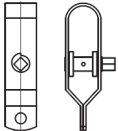
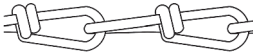
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Name	Standard	Drawing	Property class/Mat.
Spring pins, single type	AN 75		spring steel A2
Spring pins, double type	AN 76		spring steel A2
Commercial linch pins	AN 77		steel
Linch pins for tubes	AN 72		steel
Shackles	DIN 82101 A AN 102		steel A4
Shackles, high tensile	AN 98		steel
Wire rope clips	DIN 741		steel A4
Safety wire rope clips	DIN 1142		steel
Wire rope clips simplex	AN 96		steel A4
Wire rope clips duplex	AN 97		steel A4
Press clips	DIN 3093		Al, Cu
Single pulleys with fix eye	AN 109		

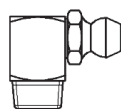
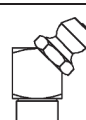
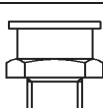


RIGGING HARDWARE

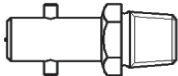
Name	Standard	Drawing	Property class/Mat.
Double pulleys with fix eye	AN 111		
Single pulleys with movable, round swivel	AN 110		
Wire tensioners			steel
Knotted chains	DIN 5686		steel A2

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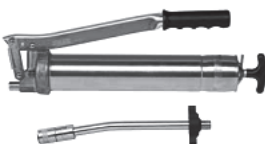
Name	Standard	Drawing	Property class/Mat.
lubricating nipples			
– hydraulic type, straight version 180°	DIN 71412 A		steel A1, A4 brass
– hydraulic type, angled version 45°	DIN 71412 B		steel A1, A4 brass
– hydraulic type, angled version 90°	DIN 71412 C		steel A1, A4 brass
– hydraulic type, thread-forming thread, straight version 180°	DIN 71412 AS		steel
– hydraulic type, thread-forming thread, angled version 45°	DIN 71412 BS		steel
– hydraulic type, thread-forming thread, angled version 90°	DIN 71412 CS		steel
– hydraulic type, with plain shank, straight version 180°	~DIN 71412		steel A1 brass
– hydraulic type, with plain shank, angled version 45°	~DIN 71412		steel
– ball type, straight version 180°	DIN 3402 A		steel A1 brass
– button head, straight version 180°	DIN 3404		steel A1 brass
– flush type, straight version 180°	DIN 3405 A		steel A1 brass
– flush type, angled version 90°	DIN 3405 C		steel

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Name	Standard	Drawing	Property class/Mat.
– flush type with plain shank, straight type 180°	DIN 3405 D		steel A1 brass
– flush type without collar, with slot for screwdriver	~DIN 3405 DV1		steel
– bayonet type	AN 282		steel brass
grease guns			
Side lever grease guns 500cm ³	75/PK		zinc plated steel body
Side lever grease guns 600cm ³	75/PL		zinc plated steel body
Side lever grease guns 1000cm ³	75/LL		zinc plated steel body
One-hand grease guns 500cm ³	85/PK		zinc plated steel body
Side lever grease guns LUX 500cm ³	85/PKU		zinc plated steel body
Side lever grease guns 500cm ³	EcoLube		painted steel body
Side lever grease guns 500cm ³	70/PK		polyamide body
Side lever grease guns with manometer 400 bar	75/PKM		zinc plated steel body

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Name	Standard	Drawing	Property class/Mat.
Lubrication sets: • air operated grease gun 500 cm ³ • pressure hose Ø13, 300mm with hydraulic coupler 515/G • nozzle tube	DRP30		zinc plated steel body
Lubrication sets : • grease gun 500 cm ³ • pressure hose Ø11, 300mm with hydraulic coupler 515/G	75/PK 340/GLN		zinc plated steel body
Lubrication sets : • grease gun 500 cm ³ • nozzle tube with hydraulic coupler 515/G	75/PK 110/G		zinc plated steel body
Lubrication sets : • grease gun LUX 500 cm ³ • pressure hose Ø11, 300mm with hydraulic coupler 515/G • nozzle tube • nozzles • quick-adapters • lubricating nipples			
Push-type grease guns 30, 34	DIN 1283 B		polyamide body
Push-type grease guns 36	DIN 1282 B		zinc plated steel body
Telescopic push-type grease guns 40, 42, 44	DIN 1282 A		polyamide body
Telescopic push-type grease guns 46/H	DIN 1282 A		zinc plated steel body

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Name	Standard	Drawing	Property class/Mat.
Screw type grease guns	21		zinc plated steel body
oil guns			
Oil guns	73/PKO		zinc plated steel body
Push oil guns	43/S		polyamide body
Push oil guns	43/H		polyamide body
Suction guns with hose	Typ 2 SDF10		zinc plated steel body
Suction guns with hose	Typ 3 SDF10		zinc plated steel body
Suction guns with hose	Typ 4 SDF13		zinc plated steel body
Oil guns for pumping with hoses	2/V		zinc plated steel body
accessories			
Hollow type nozzles	500 501		steel
Hydraulic nozzles	500/H 501/H		steel
Pointed nozzles	500/S 501/S		steel

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Name	Standard	Drawing	Property class/Mat.
Pinpointed nozzles	500/NS 501/NS		steel
Hydraulic couplers	515/G		steel
Hydraulic couplers – heavy duty hex type	512/G		steel
Button head couplers	520 521 522		steel aluminium
Pressure hoses Ø 11mm	360/LN 362/LN		
Pressure hoses Ø 13mm	360/L 362/L		
Bent nozzle tubes with hydraulic coupler	110/G 515/G		
Bend nozzle tubes with thread M10x1	AN 546		
Straight nozzle tubes with thread M10x1	AN 547		
Elastic hoses for oil guns Ø 10/M10x1	SDF10		
Elastic hoses for oil guns Ø 13/M13x1	SDF13		
Bend nozzle tubes for oil guns Ø 10/M10x1	SDK10		

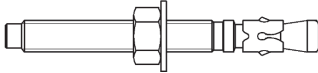
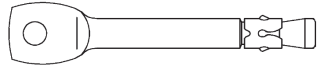
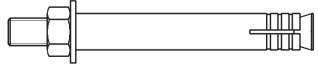
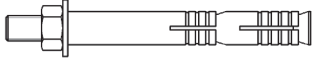
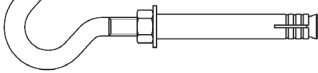
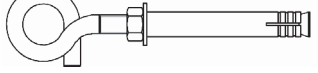
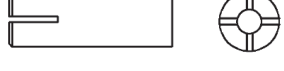
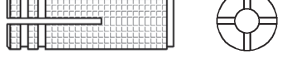
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LUBRICATION EQUIPMENT

Name	Standard	Drawing	Property class/Mat.
Straight nozzle tubes for oil guns Ø 10/M10x1	SDG10		
Bend nozzle tubes for oil guns Ø 13/M13x1	SDK13		
Straight nozzle tubes for oil guns Ø 10/M10x1	SDG13		
Quick-adapters for button head nipples	200/M4 200/M1 200/M22		
Quick-adapters for cardan shaft with hollow type nozzle	200/K		
Quick-adapters for flush type nipples	200/S		
Quick-adapters for cardan shaft and the smallest nipples of all kinds	200/XS		
Protection caps	SK-RL		
Grease			lithium

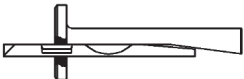
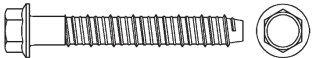
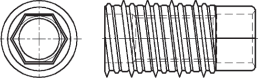
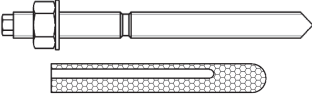
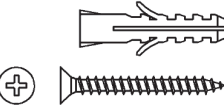
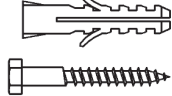
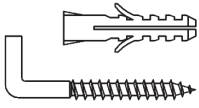
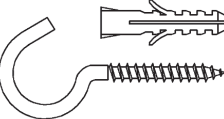
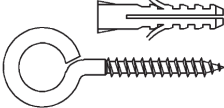
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ANCHORS AND FIXING

Name	Standard	Drawing	Property class/Mat.
anchors			
Wedge anchors	AN 217		steel A4
Tie wire anchors	AN 79		steel
Sleeve anchors with nut and washer	AN 218		steel
Sleeve anchors with hexagon bolt	AN 220		steel
Sleeve anchors with threaded rod	AN 222		steel
Double sleeve anchors with threaded rod	AN 223		steel
Sleeve anchors with ceiling hook	AN 224		steel
Sleeve anchors with safety swing hook	AN 224		steel
Sleeve anchors with countersunk head	AN 228		steel
Drop-in anchors	AN 215		steel A4
Brass anchors	AN 216		brass

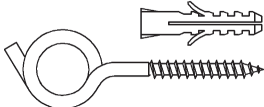
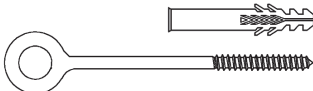
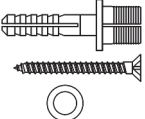
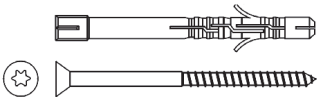
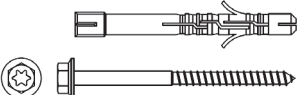
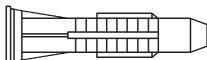
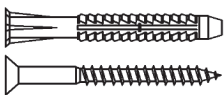
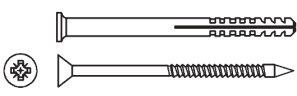
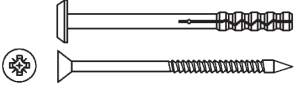
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ANCHORS AND FIXING

Name	Standard	Drawing	Property class/Mat.
Safety nails	AN 305		steel
Hexagon washer head threaded anchors	AN 233		steel
Concrete screws with internal thread	AN 214		steel
Chemical anchors	AN 236		steel
plugs			
Plugs for concrete	AN 304		plastic
Plugs for concrete	AN 301		plastic
Plugs for concrete with countersunk head screw	AN 237		steel plastic A2 brass
Plugs for concrete with hexagon head screws	AN 238		steel plastic
Wall plugs with L-hook	AN 239		steel plastic
Wall plugs with open hook	AN 239		steel plastic
Wall plugs with closed hook	AN 239		steel plastic

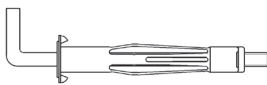
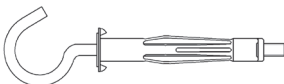
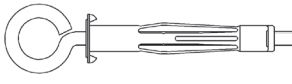
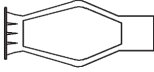
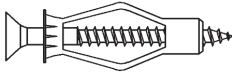
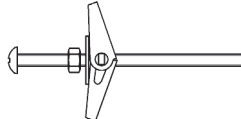
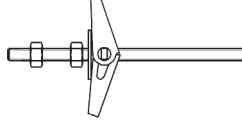
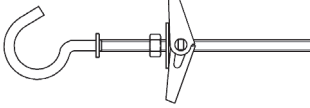
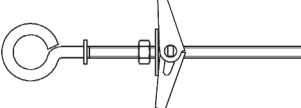
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ANCHORS AND FIXING

Name	Standard	Drawing	Property class/Mat.
Wall plugs with safety swing hook	AN 239		steel plastic
Scaffold plugs and eyebolt	AN 303		steel plastic
Stair-thread fixings	AN 266		steel plastic
Frame fixing plugs with countersunk head screws for concrete	AN 410		steel plastic
Frame fixing plugs with hexagon washer screw	AN 410		steel plastic
Standard wall plugs for hollow materials and drywall carton	AN 245		plastic
Frame fixing plugs for hollow materials with countersunk head screws	AN 246		steel plastic
Nail plugs with countersunk collar	AN 250		steel plastic
Nail plugs with large collar	AN 250		steel plastic
Universal wall plugs	AN 244		steel
Nail-in anchors	AN 306		steel znal

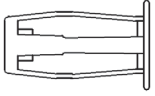
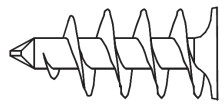
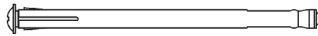
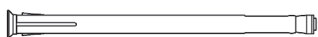
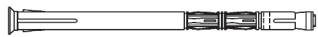
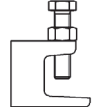
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ANCHORS AND FIXING

Name	Standard	Drawing	Property class/Mat.
cavity plugs			
Hollow wall anchors	AN 253		steel
Hollow wall anchors with L hook	AN 253		steel
Hollow wall anchors with open hook	AN 253		steel
Hollow wall anchors with closed hook	AN 253		steel
Hollow wall plugs	AN 302		nylon
Hollow wall plugs with screw	AN 302		steel nylon
Speed plugs	AN 309		plastic
Spring toggle screws type	AN 257		steel
Spring toggle screws with threaded rod	AN 257		steel
Spring toggles with open hook	AN 257		steel
Spring toggles with closed hook	AN 257		steel

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ANCHORS AND FIXING

Name	Standard	Drawing	Property class/Mat.
Split blind rivets nuts	AN 247		steel
Plastic plugs for insulation	AN 289		plastic
window frame anchors			
Metal frame anchors (L-9)	AN 229		steel
Metal frame anchors (K-11)	AN 231		steel
Double extension metal frame anchors	AN 231		steel
Frame screws, cylindrical head (for wood frames)	AN 234		steel
Frame screws, countersunk head (for aluminium and plastic frames)	AN 234		steel
beam clamps			
Beam clamps	AN 260		steel

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CLAMPS

Name	Standard	Drawing	Property class/Mat.
Worm drive hose clamp	DIN 3017 AL		W1, W2, W3, W4, W5
Clamping bands	AN 70		steel
Clamping screws	AN 64		steel
Heavy duty hose clamp GBS	DIN 3017 C1		W2
Plastic cable tie	AN 114		plastic
Fastening clamps with tongue	DIN 3016 D1		W1
U - bolts	DIN 3570 A		steel
Universal Exhaust clamps	AN 116		steel
Leaden seal			lead steel

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