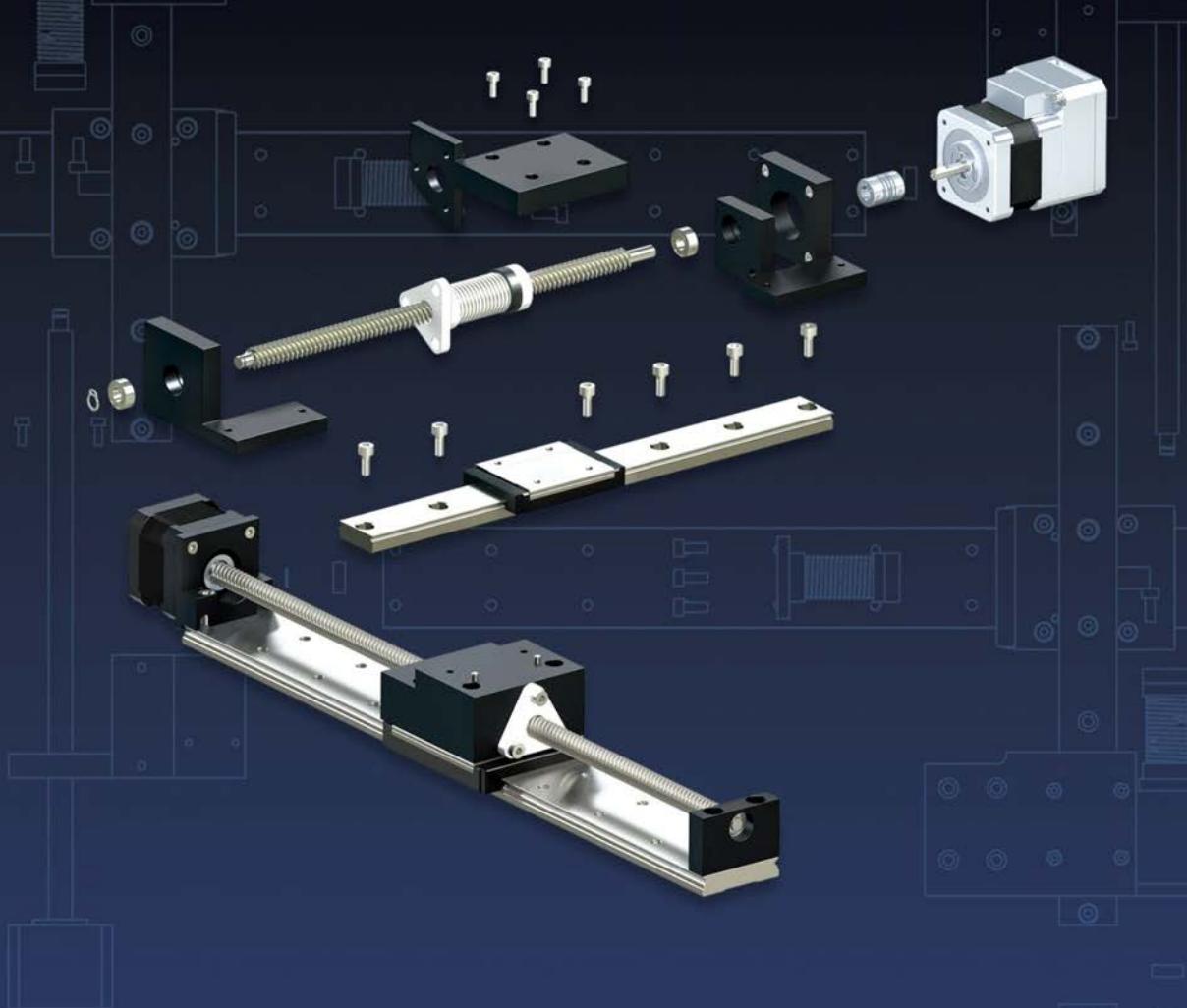




RELIANCE™
P R E C I S I O N



Precise Motion Control Solutions
Machine Screws, Dowel Pins and Hardware



Machine Screws, Dowel Pins and Hardware

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All dimensions in mm

Thread specification: BS3643 Pt2

Tolerance class: 6g

Material: A2-70 Austenitic⁽¹⁾A4-70 Austenitic⁽²⁾

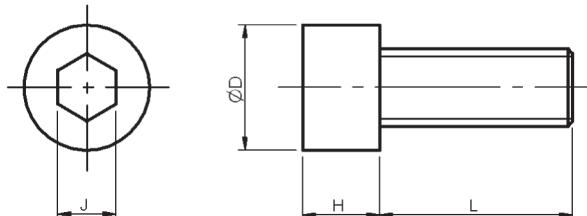
Stainless steel to ISO 3506-1

Associated Products

Disc springs: page 13-15

Nuts: page 13-16

Washers: page 13-17



Part number selection table

Example Part No:-					S - M3 - 12 - A47					
Basic Part No	Thread Size	ØD max	H max	J nom	Standard Length				Matl	
					3	4	5	6		
S	M1.6	3.0	1.6	1.5	3	4	5	6	8	A27 ⁽¹⁾ A47 ⁽²⁾
	M2	3.8	2.0	1.5	4	5	6	8		
	M2.5	4.5	2.5	2.0		5	6	8	10	
	M3	5.5	3.0	2.5		6	8	10	12	
	M4	7.0	4.0	3.0		8	10	12	16	
	M5	8.5	5.0	4.0			10	12	20	
	M6	10.0	6.0	5.0			12	16	20	

i Features and options

- Plain socket head cap screw to ISO 4762
- 700 MPa minimum tensile strength
- Rolled thread for excellent surface finish, superior thread strength and increased hardness properties
- Slotted head available
- Imperial sizes available
- Alternative materials available

? Technical support

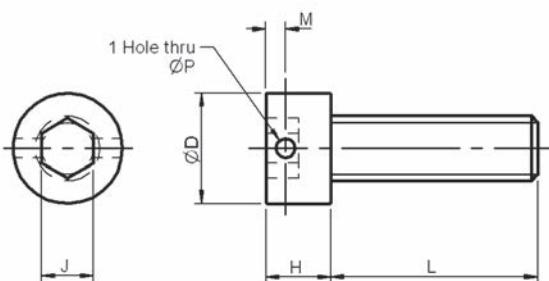
- ISO metric screw threads, limits and tolerances - see page T13-1
- Torque and tension guidelines - see page T13-1
- Material properties - see page T13-2



Associated Products

Disc springs: page 13-15
 Nuts: page 13-16
 Washers: page 13-17

All dimensions in mm
 Thread specification: BS3643 Pt2
 Tolerance class: 6g
 Material: A2-70 Austenitic⁽¹⁾
 A4-70 Austenitic⁽²⁾
 Stainless steel to ISO 3506-1



Part number selection table

Example Part No:-								S - M3 - 12 - A47 - XD	
Basic Part No	Thread Size	ØD max	H max	J nom	M ±0.1	ØP ±0.1	Standard Length		Matl
							3	4	
S	M1.6	3.0	1.6	1.5	0.5	0.4	3	4	5 6
	M2	3.8	2.0	1.5	0.7	0.6	4	5	6 8
	M2.5	4.5	2.5	2.0	0.75	0.7	5	6	8 10
	M3	5.5	3.0	2.5	0.9	0.8	6	8	10 12 16 20
	M4	7.0	4.0	3.0	1.3	1.0	8	10	12 16 20 25
	M5	8.5	5.0	4.0	1.5	1.5	10	12	16 20 25 30
	M6	10.0	6.0	5.0	1.8	1.5	12	16	20 25 30 40
									A27 ⁽¹⁾
A47 ⁽²⁾									

i Features and options

- Plain socket head cap screw to ISO 4762 with cross-drilled head to allow fastener retention by wire locking
- 700 MPa minimum tensile strength
- Rolled thread for excellent surface finish, superior thread strength and increased hardness properties
- Imperial sizes available
- Alternative materials available

?

Technical support

- ISO metric screw threads, limits and tolerances - see page T13-1
- Torque and tension guidelines - see page T13-1
- Material properties - see page T13-2



All dimensions in mm

Thread specification: BS3643 Pt2

Tolerance class: 6g

Material: A2-70 Austenitic⁽¹⁾A4-70 Austenitic⁽²⁾

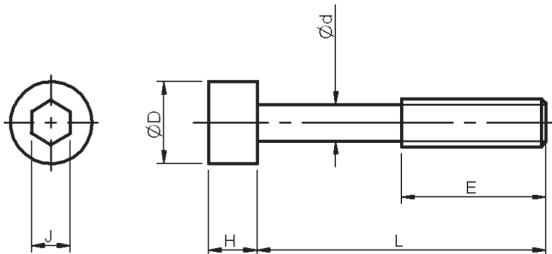
Stainless steel to ISO 3506-1

Associated Products

Disc springs: page 13-15

Nuts: page 13-16

Washers: page 13-17



Part number selection table

Example Part No:- S - M3 - 16 - A47 - CA									
Basic Part No	Thread Size	ØD max	H max	J nom	Ød ±0.1	E ±0.1	Standard Length	Matl	
							10		
S	M2	3.8	2.0	1.5	1.4	4.0	10	A27 ⁽¹⁾	
	M2.5	4.5	2.5	2.0	1.8	5.0	12		
	M3	5.5	3.0	2.5	2.2	6.0	16		
	M4	7.0	4.0	3.0	3.0	8.0	20		
	M5	8.5	5.0	4.0	3.8	10.0	20		
	M6	10.0	6.0	5.0	4.5	12.0	25		
							30	A47 ⁽²⁾	
							40		

i Features and options

- Socket head cap screw to ISO 4762 with plain shank length for captive assembly of the screw to prevent fastener loss
- Ideal for service covers
- Rolled thread for excellent surface finish, superior thread strength and increased hardness properties
- Slotted head available on sized M2 to M5
- Imperial sizes available
- Alternative materials available

? Technical support

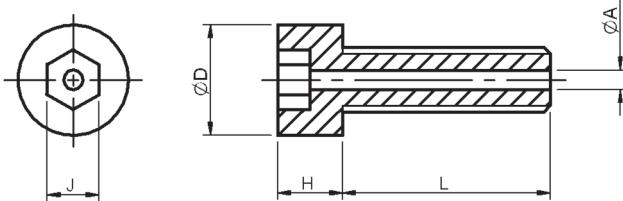
- ISO metric screw threads, limits and tolerances - see page T13-1
- Torque and tension guidelines - see page T13-1
- Material properties - see page T13-2



Associated Products

Disc springs: page 13-15
 Nuts: page 13-16
 Washers: page 13-17

All dimensions in mm
 Thread specification: BS3643 Pt2
 Tolerance class: 6g
 Material: A2-70 Austenitic⁽¹⁾
 A4-70 Austenitic⁽²⁾
 Stainless steel to ISO 3506-1



Part number selection table

Example Part No:- S - M3 - 12 - A47 - AD							
Basic Part No	Thread Size	ØD max	H max	J nom	ØA ±0.05	Standard Length	Matl
						3 4 5 6 4 5 6 8 5 6 8 10 6 8 10 12 16 20 8 10 12 16 20 25 10 12 16 20 25 30 12 16 20 25 30 40	
S	M1.6	3.0	1.6	1.5	0.6	3 4 5 6 4 5 6 8 5 6 8 10 6 8 10 12 16 20 8 10 12 16 20 25 10 12 16 20 25 30 12 16 20 25 30 40	A27 ⁽¹⁾
	M2	3.8	2.0	1.5	0.7		A47 ⁽²⁾
	M2.5	4.5	2.5	2.0	0.8		
	M3	5.5	3.0	2.5	1.0		
	M4	7.0	4.0	3.0	1.0		
	M5	8.5	5.0	4.0	1.5		
	M6	10.0	6.0	5.0	1.5		

i Features and options

- Socket head cap screw to ISO 4762 drilled through on axis to assist cavity ventilation in vacuum assemblies
- Rolled thread for excellent surface finish, superior thread strength and increased hardness properties
- Slotted head available
- Imperial sizes available
- Alternative materials available

?

Technical support

- ISO metric screw threads, limits and tolerances - see page T13-1
- Torque and tension guidelines - see page T13-1
- Material properties - see page T13-2



All dimensions in mm

Material: 303 Stainless steel

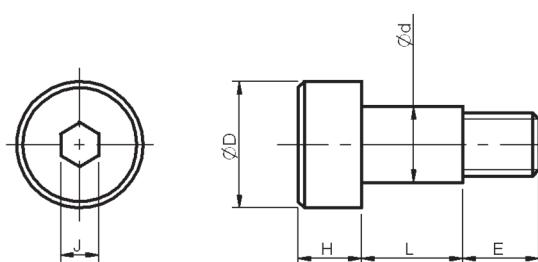
Tolerance class: 6g

Associated Products

Disc springs: page 13-15

Nuts: page 13-16

Washers: page 13-17



Part number selection table

Example Part No:-		MSS2 - M6 - 35						
Basic Part Number	Thread Size	$\varnothing d$ +0.000 -0.025	$\varnothing D$	J nom	H	E ± 0.1	Length L +0.05 -0.00	Length Code
MSS2	M3	3.987	6	2	3	4	4.013	1
							5.013	2
							6.013	3
							8.013	4
							10.013	5
	M4	4.987	8	2.5	4	5	4.013	6
							5.013	7
							6.013	8
							8.013	9
	M5	5.987	10	3	5	6	10.013	10
							12.013	11
							14.013	12
							16.013	13
							20.013	14
							25.013	15
							30.013	16
	M6	6.987	12	4	6	8	4.013	17
							5.013	18
							6.013	19
							8.013	20
							10.013	21
							12.013	22
							14.013	23



Basic Part Number	Thread Size	$\varnothing d$ +0.000 -0.025	$\varnothing D$	J nom	H	E ± 0.1	Length L +0.05 -0.00	Length Code				
MSS2	M6	7.987	12	4	6	11	6.013	28				
							8.013	29				
							10.013	30				
							12.013	31				
							16.013	32				
		9.987					20.013	33				
							8.013	34				
							10.013	35				
							12.013	36				
	M8	9.987	14	5	7	12	16.013	37				
							8.013	38				
							10.013	39				
							12.013	40				
	M10	11.987	20	6	8	16	16.013	41				
							12.013	42				
							16.013	43				
							20.013	44				
							25.013	45				

i Features and options

- Socket head screw with accurate diameter shoulder for precision assemblies
- May be used to replace components such as shafts, pivots, pins and guides
- Used for linkages and stationary guides
- Slotted head and Phillips head available
- Imperial sizes available
- Alternative materials available (416)
add **-4** to the end of the part number
- Alternative lengths available

?

Technical support

- ISO metric screw threads, limits and tolerances
- see page T13-1
- Torque and tension guidelines - see page T13-1
- Material properties - see page T13-2



All dimensions in mm

Thread specification: BS3643 Pt2

Head specification: BS4183

Tolerance class: 6g

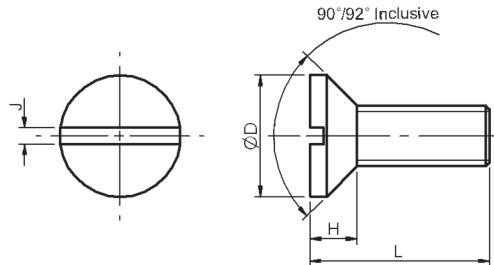
Material: Stainless steel 300 series

Associated Products

Disc springs: page 13-15

Nuts: page 13-16

Washers: page 13-17



Part number selection table

Example Part No:-					K - M3 - 12									
Basic Part No	Thread Size	ØD max	H max	J nom	Standard Length									
K	M2	4.4	1.20	0.63	3	4	5	6	8	10	12	16	20	
	M2.5	5.5	1.50	0.73			5	6	8	10	12	16	20	25
	M3	6.3	1.65	0.93			5	6	8	10	12	16	20	25
	M4	8.4	2.20	1.13				6	8	10	12	16	20	25
	M5	10.0	2.50	1.38					8	10	12	16	20	25
	M6	12.0	3.00	1.78						10	12	16	20	25

i Features and options

- Imperial sizes available
- Alternative materials available

? Technical support

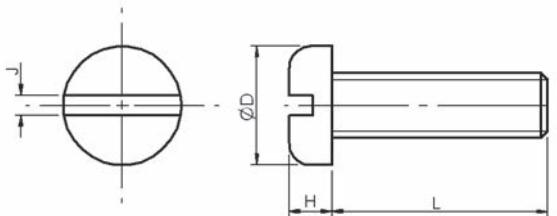
- ISO metric screw threads, limits and tolerances
- see [page T13-1](#)
- Torque and tension guidelines - see [page T13-1](#)



Associated Products

Disc springs: [page 13-15](#)
 Nuts: [page 13-16](#)
 Washers: [page 13-17](#)

All dimensions in mm
 Thread specification: BS3643 Pt2
 Head specification: BS4183
 Tolerance class: 6g
 Material: Stainless steel 300 series



Part number selection table

Example Part No:-					P - M3 - 12									
Basic Part No	Thread Size	ØD max	H max	J nom	Standard Length									
P	M2	4.0	1.2	0.63	3	4	5	6	8	10	12	16	20	
	M2.5	5.0	1.5	0.73			5	6	8	10	12	16	20	25
	M3	6.0	1.8	0.93			5	6	8	10	12	16	20	25
	M4	8.0	2.4	1.13				6	8	10	12	16	20	25
	M5	10.0	3.0	1.38					8	10	12	16	20	25
	M6	12.0	3.6	1.78						10	12	16	20	25

i Features and options

- Imperial sizes available
- Alternative materials available

?

Technical support

- ISO metric screw threads, limits and tolerances
- see [page T13-1](#)
- Torque and tension guidelines - see [page T13-1](#)



All dimensions in mm

Thread specification: BS3643 Pt2

Head specification: BS4183

Tolerance class: 6g

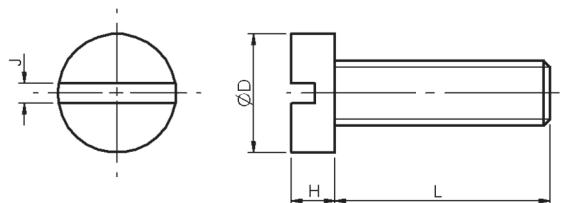
Material: Stainless steel 300 series

Associated Products

Disc springs: page 13-15

Nuts: page 13-16

Washers: page 13-17



Part number selection table

Example Part No:-					C - M3 - 12									
Basic Part No	Thread Size	ØD max	H max	J nom	Standard Length									
C	M2	3.8	1.3	0.63	3	4	5	6	8	10	12	16	20	
	M2.5	4.5	1.6	0.73			5	6	8	10	12	16	20	25
	M3	5.5	2.0	0.93			5	6	8	10	12	16	20	25
	M4	7.0	2.6	1.13				6	8	10	12	16	20	25
	M5	8.5	3.3	1.38					8	10	12	16	20	25
	M6	10.0	3.9	1.78						10	12	16	20	25

i Features and options

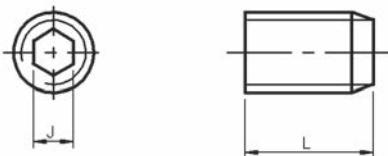
- Imperial sizes available
- Alternative materials available

? Technical support

- ISO metric screw threads, limits and tolerances
- see [page T13-1](#)
- Torque and tension guidelines - see [page T13-1](#)

**Associated Products**Gears: [page 4-1](#)Reli-a-Flex® couplings: [page 8-6](#)

All dimensions in mm
Thread specification: BS3643 Pt2
Tolerance class: 6g
Material: Stainless steel
Manufactured to: BS EN ISO 4029

**Part number selection table**

Example Part No:-			SS - M4 - 12
Basic Part Number	Thread Size	J nom	Standard Lengths
SS	M2	0.9	2 3 4 5 6 8 10
	M2.5	1.3	3 4 5 6 8 10
	M3	1.5	3 4 5 6 8 10 12
	M4	2	4 5 6 8 10 12 16
	M5	2.5	5 6 8 10 12 16 20
	M6	3	6 8 10 12 16 20 25

i Features and options

- Used for quick, permanent location of gears, collars and pulleys on shafts
- Suitable for high torque transmission
- Imperial sizes available
- Alternative materials available

? Technical support

- ISO metric screw threads, limits and tolerances - see [page T13-1](#)
- Torque and tension guidelines - see [page T13-1](#)



All dimensions in mm

Thread specification: BS3643 Pt2

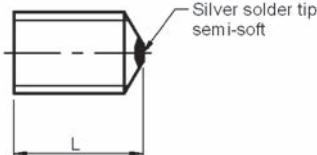
Tolerance class: 6g

Material: Stainless steel 300 series with
silver solder tip

Associated Products

Gears: page 4-1

Couplings: page 8-1



Part number selection table

Example Part No:- <u>SGSS - M6 - 17</u>				
Basic Part Number	Thread Size	J nom	Standard Lengths	Length Code
SGSS	M2	0.9	3 4 5 6	1 2 3 4
	M3	1.5	3 4 5 6	5 6 7 8
	M4	2	4 6 10 14	9 10 11 12
	M5	2.5	6 10 14 20	13 14 15 16
	M6	3	6 10 16 25	17 18 19 20

i Features and options

- Stainless steel set screw with semi-soft silver solder tip
- Prevents shaft marking
- Imperial sizes available

? Technical support

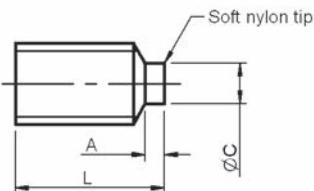
- ISO metric screw threads, limits and tolerances - see [page T13-1](#)
- Torque and tension guidelines - see [page T13-1](#)



Associated Products

Gears: [page 4-1](#)

Couplings: [page 8-1](#)



All dimensions in mm
Thread specification: BS3643 Pt2
Tolerance class: 6g
Material: Stainless steel screw
Nylon insert

Part number selection table

Example Part No:-		<u>NMSS - M5 - 16</u>				
Basic Part Number	Thread Size	ØC	A	J nom	Standard Lengths	Length Code
NMSS	M2	0.8	0.8	0.9	3.8 4.8 5.8 6.8	1 2 3 4
	M3	1.6	0.8	1.5	3.8 4.8 5.8 6.8	5 6 7 8
	M4	2.4	1.2	2	5.2 7.2 11.2 15.2	9 10 11 12
	M5	2.4	1.2	2.5	7.2 11.2 15.2 21.2	13 14 15 16
	M6	3.2	1.6	3	7.6 11.6 17.6 26.6	17 18 19 20

i Features and options

- Stainless steel set screw with nylon tip insert
- Used to prevent shaft marking
- Self locking
- Full face contact
- Imperial sizes available

?

Technical support

- ISO metric screw threads, limits and tolerances
- see [page T13-1](#)
- Torque and tension guidelines - see [page T13-1](#)

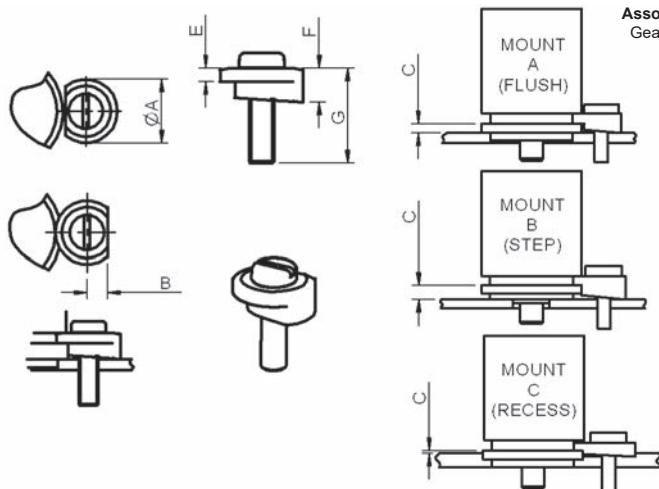


All dimensions in mm

General tolerances ± 0.13 mm

Material: Stainless steel clamp

Nylon locking insert


Associated Products
 Gearboxes: page 3-1

Part number selection table

Part Number	Mount Type	Height C ± 0.08	Flat B	Lip E ± 0.08	Height F	Length G $+0.0/-0.8$	Thread Size	O/D ØA $+0.00/-0.13$		
SQM-6	A & C	0.79	3.18	1.02	1.80	7.0	M3 x 0.5	9.90		
SQM-7		1.57		1.02	2.59					
SQM-8		1.57		1.27	2.84					
SQM-9		1.57		1.60	3.18					
SQM-10		1.98		1.60	3.58					
SQM-11		2.36		1.02	3.38	9.5				
SQM-12		2.36		1.27	3.63					
SQM-13		2.36		1.60	3.96					
SQM-14		3.18		1.27	4.45					
SQM-15		3.96		1.02	4.98					
SQM-16	B	5.72		1.60	7.32	11.0				
SQM-17		6.35		1.60	7.92	15.0				

i Features and options

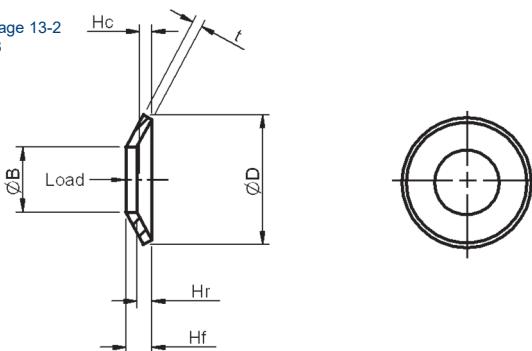
- Ideal for use with resolvers, encoders and potentiometers
- Imperial sizes available
- Self locking
- Quick releasing



Associated Products

Shafts: [page 11-2](#)
 Bearings: [page 12-2](#)
 Socket head cap screws: [page 13-2](#)
 Machine screws: [page 13-8](#)
 Nuts: [page 13-16](#)

All dimensions in mm
 General tolerances ± 0.13 mm
 Material: Stainless steel X12CrNi 17 7
 Manufactured to: DIN2093



Part number selection table

Example Part No:- BW - M6								
Basic Part Number	Screw Size	ØD	ØB	t	Free Height Hf	Ref. Height Hr	Compressed Height Hc (75% Defl.)	Force to Compress to Hc (N)
BW	M4	8.0	4.2	0.40	0.60	0.20	0.45	193
	M5	10.0	5.2	0.50	0.75	0.25	0.56	300
	M6	12.5	6.2	0.70	0.95	0.25	0.76	503
	M7	14.0	7.2	0.80	1.10	0.30	0.87	735
	M8	16.0	8.2	0.90	1.25	0.35	0.99	934
	M10	20.0	10.2	1.10	1.55	0.45	1.21	1403
	M11	22.5	11.2	1.25 ¹	1.65	0.40	1.35	1411
	M12	25.0	12.2	1.50 ¹	1.90	0.40	1.60	1944

¹ Material: stainless steel X7CrNiAl 17 7

i Features and options

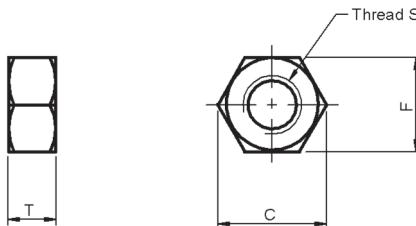
- For use where controlled axial force is required
- Good for bearing pre-load configurations
- Imperial sizes available



All dimensions in mm
 General tolerances ± 0.13 mm
 Material: Stainless steel
 Thread: BS3692, DIN 934

Associated Products

Disc springs: page 13-15
 Plain socket head cap screws: page 13-2
 Pan head machine screws: page 13-9
 Cheese head machine screws: page 13-10
 Washers: page 13-17

**Part number selection table**

Example Part No:-		HN - M3		
Basic Part Number	Thread Size S	T max	F max	C nom
HN	M1.6	1.3	3.2	3.4
	M2	1.6	4.0	4.6
	M2.5	2.0	5.0	5.8
	M3	2.4	5.5	6.4
	M4	3.2	7.0	8.1
	M5	4.0	8.0	9.2
	M6	5.0	10.0	11.5

**Product options**

- Imperial sizes available

Washers

To Suit
M1.6 - M6 Screws



Associated Products

Screws from: page 13-2

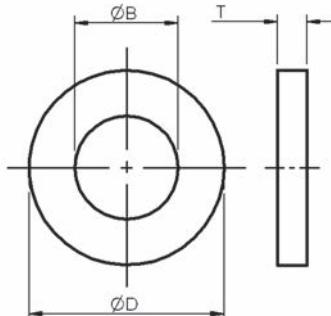
Nuts: page 13-16

Disc springs: page 13-15

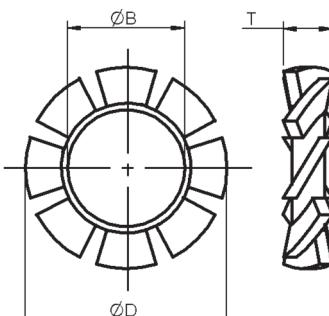
All dimensions in mm

General tolerances ± 0.13 mm

Material: Stainless steel



Plain Washers



Tooth Lock Washers

Part number selection tables

Example Part No:- PW - M3				
Basic Part Number	Thread Size	ØD max	ØB min	T nom
PW	M1.6	4.0	1.7	0.3
	M2	5.0	2.2	0.4
	M2.5	6.5	2.7	0.6
	M3	7.0	3.2	0.6
	M4	9.0	4.3	0.9
	M5	10.0	5.3	1.1
	M6	12.5	6.4	1.8

Example Part No:- ETW - M3				
Basic Part Number	Thread Size	ØD max	ØB max	T nom
ETW	M2	4.5	2.2	0.9
	M3	6.0	3.2	1.2
	M4	8.0	4.3	1.5
	M5	10.0	5.3	1.8
	M6	11.0	6.4	2.1



Product options

- Imperial sizes available



All dimensions in mm

General tolerances ± 0.13 mm

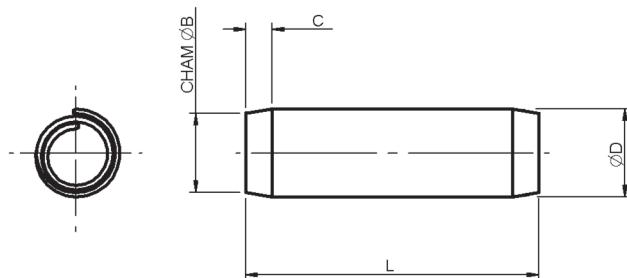
Material: Chrome stainless steel AISI 420

Finish: Pickled and oiled

Associated Products

Pin hub gears: page 4-13

Shaft collars: page 11-3



Part number selection table

Example Part No:-						
MSP - 1.5 - 6 - MCP						
Basic Part Number	Actual Dia ØD	Nom Dia	Cham Dia ØB	Cham Length C	Ideal Hole Dia	Standard Lengths
MSP	0.85/0.91	0.8	0.75	0.30	0.80/0.84	4 5 6 8
	1.05/1.15	1.0	0.95	0.30	1.00/1.04	4 5 6 8 10 12
	1.62/1.73	1.5	1.40	0.50	1.50/1.60	5 6 8 10 12 14 16
	2.13/2.25	2.0	1.90	0.70	1.99/2.10	6 8 10 12 14 16 18
	2.65/2.78	2.5	2.40	0.70	2.49/2.60	10 12 14 16 18
	3.15/3.30	3.0	2.90	0.90	2.99/3.10	14 16 18 20



Features and options

- Coiled steel pin for location and alignment
- Suitable for locating Reliance's gears on ground shaft
- Imperial sizes available
- Alternative materials available

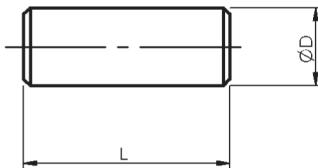


Associated Products

Pin hub gears: page 4-13

Shaft collars: page 11-3

All dimensions in mm
General tolerances ± 0.13 mm
Material: Stainless steel 300 series



Part number selection table

Example Part No:-			D 020 - 10											
Basic Part Number	$\varnothing D$ ± 0.0025	Diameter Code	Standard Lengths											
			± 0.25											
D	1.00	010	3	4	5	6	8	10	12	14				
	1.50	015	3	4	5	6	8	10	12	14	16	18		
	2.00	020	3	4	5	6	8	10	12	14	16	18	20	22
	2.50	025	3	4	5	6	8	10	12	14	16	18	20	22
	3.00	030		5	6	8		10	12	14	16	18	20	22
	4.00	040						10	12	14	16	18	20	22
	5.00	050							12	14	16	18	20	22
	6.00	060								14	16	18	20	22

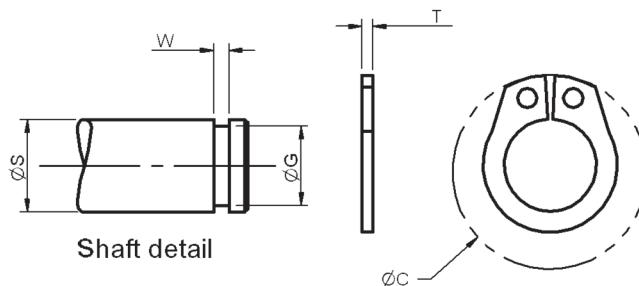
i Features and options

- Precision stainless steel dowel pin, suitable for accurate location and alignment
- Imperial sizes available
- Alternative materials available



All dimensions in mm
General tolerances ± 0.13 mm
Material: Stainless steel

Associated Products
Shafts: page 11-2
Bearings: page 12-2



Part number selection table

Example Part No:-			D1400 - 0060 - SS				Matl	
Basic Part Number	Nominal Shaft Dia ($\varnothing S$)	Dia Code	Circlip		Groove			
			Thickness T	Clearance Dia ($\varnothing C$)	Width W	Dia $\varnothing G$		
D1400	3	0030	0.40 0.35	7.00	0.64 0.50	2.80 2.76	SS	
	4	0040	0.40 0.35	8.60	0.64 0.50	3.80 3.75		
	5	0050	0.60 0.55	10.30	0.84 0.70	4.80 4.75		
	6	0060	0.70 0.65	11.70	0.94 0.80	5.70 5.65		
	8	0080	0.80 0.75	14.70	1.04 0.90	7.60 7.54		
	10	0100	1.00 0.94	17.00	1.24 1.10	9.60 9.54		
	12	0120	1.00 0.94	19.00	1.24 1.10	11.50 11.39		

i Features and options

- Used to axially secure components, such as bearings on shafts
- Imperial sizes available
- Alternative materials available

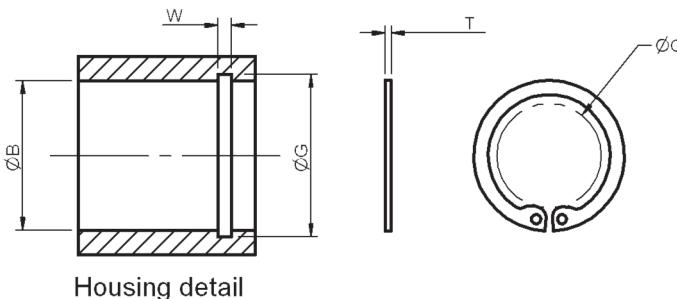
Internal Circlips

To suit
12 - 30 mm Bores



Associated Products
Shafts: page 11-2
Bearings: page 12-2

All dimensions in mm
General tolerances ± 0.13 mm
Material: Stainless steel



Part number selection table

Example Part No:-			D1300 - 0200 - SS				Matl	
Basic Part Number	Nominal Bore Dia ($\varnothing B$)	Dia Code	Circlip		Groove			
			Thickness T	Clearance Dia ($\varnothing C$)	Width W	Dia $\varnothing G$		
D1300	12	0120	1.00 0.94	5.70	1.24 1.10	12.61 12.50	SS	
	15	0150	1.00 0.94	8.30	1.24 1.10	15.81 15.70		
	16	0160	1.00 0.94	9.20	1.24 1.10	16.91 16.80		
	19	0190	1.00 0.94	11.80	1.24 1.10	20.13 20.00		
	20	0200	1.00 0.94	12.60	1.24 1.10	21.13 21.00		
	22	0220	1.00 0.94	14.60	1.24 1.10	23.13 23.00		
	24	0240	1.20 1.14	16.40	1.44 1.30	25.41 25.20		
	28	0280	1.20 1.14	19.80	1.44 1.30	29.61 29.40		
	30	0300	1.20 1.14	21.80	1.44 1.30	31.65 31.40		

i Features and options

- Used to axially secure components, such as bearings in housings
- Imperial sizes available
- Alternative materials available



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