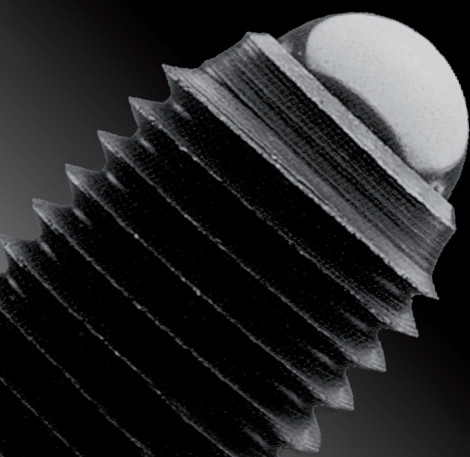


Viti di spallamento a gambo rettificato
Hexagon socket head shoulder screws
Paßschrauben mit Innensechskant
Vis de retenue épaulées
Tornillo tope
Parafusio de corpo retificado

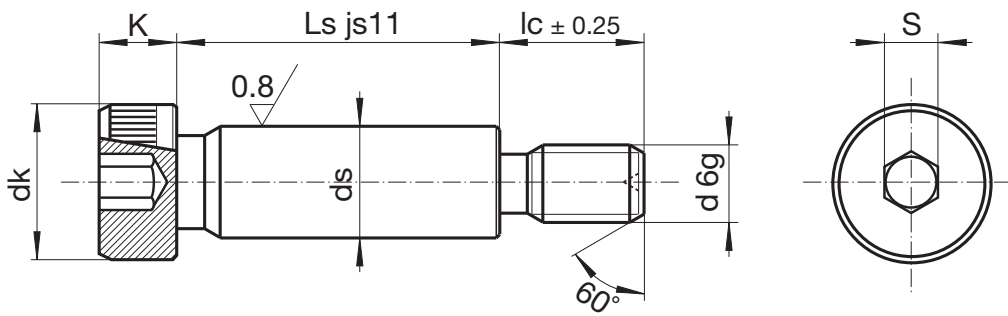


Viti con distanziale rettificato
Ground spacer sleeve shoulder screws
Schrauben mit Distanzrohr (geschliffen)
Vis avec entretoise rectifiée
Tornillo con espaciador retificado
Parafuso de corpo retificado com limitador de curso



Pressori a molla
Spring plungers
Drücker mit Feder
Poussoirs à ressort
Posicionador de bola
Posicionador de esfera





| Ls (mm) | js11 (µm) |
|-----------|-----------|
| 10 ÷ 18 | ± 55 |
| 18 ÷ 30 | ± 65 |
| 30 ÷ 50 | ± 80 |
| 50 ÷ 80 | ± 95 |
| 80 ÷ 120 | ± 110 |
| 120 ÷ 200 | ± 125 |

IT

Materiale: Acciaio legato alto resistenziale per bulloneria ISO 12.9.
Durezza: 37÷43 HRC.
Carico unitario di rottura a trazione: Rm = 1200 N/mm² min.
Carico unit. di scostam. dalla proporz.: Rp 0,2 = 1080 N/mm² min.
Carico unitario di resistenza al taglio: Tm = 720 N/mm² min.
Allungamento: A = 8% min. - **Resilienza:** KCU 15J min.

EN

Material: High grade alloy steel ISO 12.9.
Hardness: 37÷43 HRC.
Tensile strength: Rm = 1200 N/mm² min.
Yield strength: Rp 0,2 = 1080 N/mm² min.
Shear strength: Tm = 720 N/mm² min.
Elongation: A = 8% min. - **Impact test:** KCU 15J min.

DE

Werkstoff: Vergütungsstahl, vergütet auf 12.9 DIN/ISO 898.
Härte: 37÷43 HRC.
Zugfestigkeit: Rm = 1200 N/mm² min.
Dehngrenze: Rp 0,2 = 1080 N/mm² min.
Scherfestigkeit: Tm = 720 N/mm² min.
Verlängerung: A = 8% min. - **Kerbschlagzähigkeit:** KCU 15J min.

FR

Matériel: Acier à haute résistance pour vis ISO 12.9.
Dureté: 37÷43 HRC.
Résistance à la traction: Rm = 1200 N/mm² min.
Limite apparente d'élasticité: Rp 0,2 = 1080 N/mm² min.
Résistance au cisaillement: Tm = 720 N/mm² min.
Allongement: A = 8% min. - **Résilience:** KCU 15J min.

ES

Material: Acero alta resistencia ISO 12.9.
Dureza: 37÷43 HRC.
Resistencia a la tracción: Rm = 1200 N/mm².
Límite aparente de elasticidad: Rp 0,2 = 1080 N/mm² min.
Resistencia al corte: Tm = 720 N/mm² min.
Elongación: A = 8% min. - **Resiliencia:** KCU = 15J min.

PT

Material: Liga de aço ISO 12.9.
Dureza: 37÷43 HRC.
Carga de tensão: Rm = 1200 N/mm² min.
Carga de rotura: Rp 0,2 = 1080 N/mm² min.
Carga de desgaste: Tm = 720 N/mm² min.
Elasticidade: A = 8% min - **Teste ao impacto:** KCU = 15J min.

Dimensions [mm]

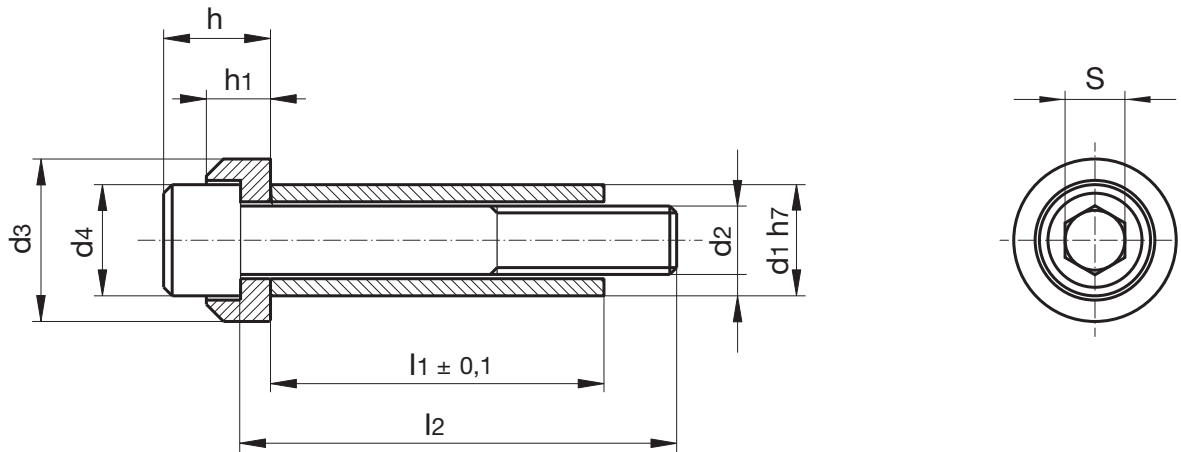
| nom. | ds h8 | | d | dk | K | lc | S |
|------|--------|--------|-----|-------|------|-------|----|
| | min. | max. | | | | | |
| 5 | 4,982 | 5,000 | M4 | 9,00 | 4,0 | 8,00 | 2 |
| 6 | 5,982 | 6,000 | M5 | 10,22 | 4,5 | 9,50 | 3 |
| 8 | 7,978 | 8,000 | M6 | 13,27 | 5,5 | 11,25 | 4 |
| 10 | 9,978 | 10,000 | M8 | 16,27 | 7,0 | 13,25 | 5 |
| 12 | 11,973 | 12,000 | M10 | 18,27 | 9,0 | 16,00 | 6 |
| 16 | 15,973 | 16,000 | M12 | 24,33 | 11,0 | 18,40 | 8 |
| 20 | 19,967 | 20,000 | M16 | 30,33 | 14,0 | 22,40 | 10 |
| 24 | 23,967 | 24,000 | M20 | 36,39 | 16,0 | 27,40 | 12 |

Supplying range ✓

| ds | d | Ls | | | | | | | | | | | | | | | | | | | | Pcs | | | | | | |
|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 10 | 12 | 15 | 16 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 90 | 100 | 110 | | 120 | 140 | 160 | 180 | 200 | |
| 5 | M4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 |
| 6 | M5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - | - | - | - | - | - | 50 |
| 8 | M6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | 50 |
| 10 | M8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | 50 |
| 12 | M10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ✓ | - | - | - | 10 | |
| | | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | 25 |
| 16 | M12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | 10 |
| | | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - |
| 20 | M16 | - | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 |
| 24 | M20 | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 |

HOW TO ORDER



**IT**

Vite: Acciaio classe 12.9 UNI 5931 DIN 912.

Rondella: Acciaio trattato rinvenuto e brunito; resistenza 100 Kg/mm².

Distanziale: Acciaio trattato rinvenuto e rettificato; resistenza 120 - 140 Kg/mm².

EN

Cap screw: Steel class 12.9 UNI 5931 DIN 912.

Cup washer: Hardened and tempered steel, not ground; tensile strength 100 Kg/mm².

Spacer sleeve: Hardened, tempered and ground steel; tensile strength 120 - 140 Kg/mm².

DE

Innensechskant Schulterschraube: Stahl sorte 12.9 UNI 5931 DIN 912.

Scheibe für zylinderkopfschraube: Vergütungsstahl, nicht geschliffen; festigkeit 100 Kg/mm².

Distanzrohr: Vergütungsstahl, geschliffen; festigkeit 120 - 140 Kg/mm².

FR

Vis tête cylindrique à 6 pans creux: Acier qualité 12.9 UNI 5931 DIN 912.

Rondelle d'appui: Acier trempé; coefficient d'elasticité 100 Kg/mm².

Tube entretoise: Acier trempé, surface rectifiée; coefficient d'elasticité 120 - 140 Kg/mm².

ES

Tornillo: Acero calidad 12.9 UNI 5931 DIN 912.

Arandela: Acero tratado y pulido; resistencia 100 Kg/mm².

Distancial: Acero tratado y rectificado; resistencia 120 - 140 Kg/mm².

PT


Parafuso: Cabeça cilíndrica grade 12.9 UNI 5931 DIM 912.

Anilha de apoio: Aço temperado mas não retificado; carga de tensão 100 Kg / mm².

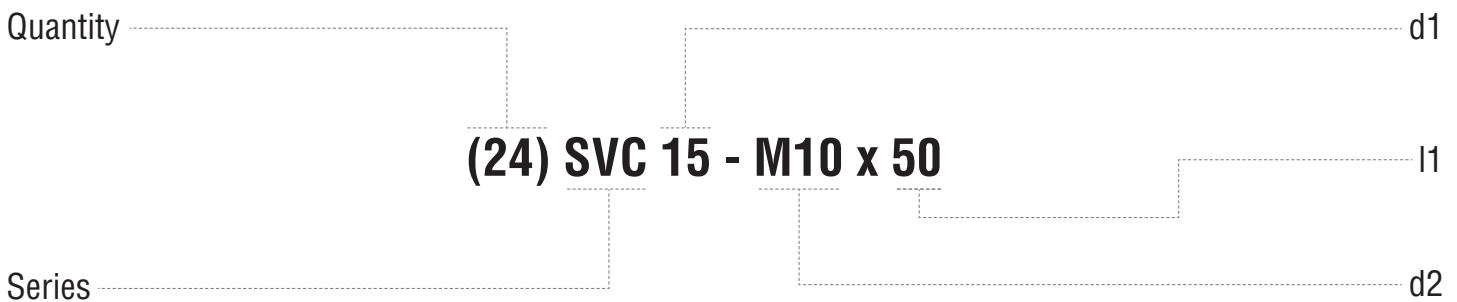
Espaçador tubular: Aço temperado e retificado; carga de tensão 120 - 140 Kg / mm².

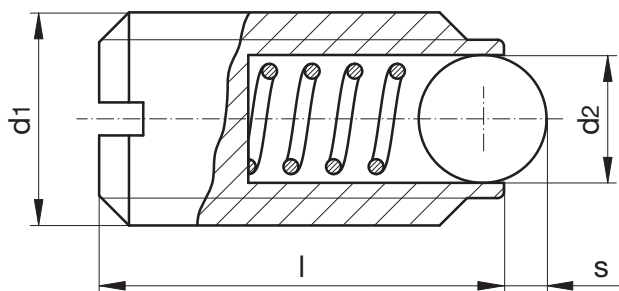
Dimensions [mm]

| d1 h7 | d2 | d3 | d4 | h | h1 | S |
|-------|-----|----|----|----|------|----|
| 10 | M6 | 15 | 10 | 10 | 5,5 | 5 |
| 12,5 | M8 | 19 | 13 | 13 | 6,5 | 6 |
| 15 | M10 | 23 | 16 | 15 | 7,5 | 8 |
| 17,5 | M12 | 27 | 18 | 18 | 9,0 | 10 |
| 23 | M16 | 34 | 24 | 24 | 11,0 | 14 |

| Supplying range | | | | | | | | | | | | | | | | | | | | |
|-----------------|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| d1 | d2 | l2 | | | | | | | | | | | | | | | | | |  Pcs |
| 10 | M6 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 80 | 90 | 100 | 110 | 120 | - | - | - | - | - | 24 |
| 12,5 | M8 | - | - | 45 | 50 | 55 | 60 | 65 | 70 | 80 | 90 | 100 | 110 | 120 | - | - | - | - | - | 24 |
| 15 | M10 | - | - | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 90 | 100 | 110 | 120 | - | 140 | - | - | - | 24 |
| 17,5 | M12 | - | - | - | - | 60 | 65 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 170 | - | - | 24 |
| 23 | M16 | - | - | - | - | - | - | 80 | - | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 180 | 180 | 200 | 12 |
| l1 | | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 140 | 150 | 160 | |

HOW TO ORDER





IT

Materiale: Acciaio classe 5.8.
Trattamento superficiale: Brunitura.
Sfera: Acciaio inox temprato e lucidato.

EN

Material: Steel class 5.8.
Surface treatment: Black oxidation.
Ball: Hardened and polished stainless steel.

DE

Material: Stahlsorte 5.8.
Oberflächenbehandlung: Brüniert.
Kugel: Aus rostfreiem stahl, gehärtet und poliert.

FR

Matière: Acier qualité 5.8.
Traitement de surface: Bruni.
Bille: Acier inox traité.




ES

Material: Acero clase 5.8.
Tratamiento superficial: Oxidación negro.
Bola: Acero inoxidable endurecido y pulido.

PT

Material: Aço classe 5.8.
Tratamento de superfície: Oxidação preta.
Bola: Aço inoxidável temperado e polido.

Supplying range

| Part Number | d1 | l | s | d2 |  g |  F0 |  F1 |
|-------------|-----|----|-----|------|--|---|---|
| | | | | | | N | N |
| SSP M4 | M4 | 9 | 0,8 | 2,5 | 0,5 | 6 | 12 |
| SSP M5 | M5 | 12 | 0,9 | 3,0 | 0,8 | 7 | 13 |
| SSP M6 | M6 | 14 | 1,0 | 3,5 | 1,7 | 9 | 15 |
| SSP M8 | M8 | 16 | 1,5 | 5,0 | 3,5 | 20 | 35 |
| SSP M10 | M10 | 19 | 2,0 | 6,0 | 6,0 | 25 | 45 |
| SSP M12 | M12 | 22 | 2,5 | 8,0 | 10,0 | 35 | 60 |
| SSP M16 | M16 | 24 | 3,5 | 10,0 | 22,5 | 65 | 110 |

HOW TO ORDER

Series d1

(20) SSP M8

Quantity



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