



2022

UNI
VER
SAL

CATALOG

MANKSAN
AMORTISOR

MISSION

To produce quality products in accordance with international production standards and legislation in accordance with customer demands and expectations. Monitoring of technological developments around the world and ensuring their participation in the production system.

To ensure that costs are reduced and quality is improved by keeping the continuous improvement philosophy dynamic all the time.

To ensure the use of error-prevention methods.

To be able to catch the zero error line in production by adopting the awareness of quality production to all our employees.

VISION

To gain the admiration of humanity with our products and services at home and abroad to be sensitive to the environment and the universal structure.

MİSYON

Müşteri talep ve beklenileri doğrultusunda, uluslararası üretim standartlarına ve mevzuatlarına uygun kaliteli ürün üretmek.

Dünya çapında teknolojik gelişmelerin izlenmesi ve bunların üretim sistemine katılmasını sağlamak. Sürekli iyileştirme felsefesinin devamlı dinamik tutulması ile maliyetlerin azaltılması ve kalitenin arttırılmasını sağlamak. Hata önleyici metodların kullanılmasını sağlamak.

Tüm çalışanlarımıza kaliteli üretim bilincini benimseterek, üretimde sıfır hata çizgisini yakalayabilmek.

VİZYON

Yurtdışı ve yurt dışında ürün ve hizmetlerimizle insanlığın hayranlığını kazanmak çevreye ve evrensel yapıya duyarlı olmak.

HISTORY / TARİHÇE

MANKSAN INC. started its industry adventure in early 70s by the production of machining products for gas springs and various fields of industry. Our early gas spring production steps started in 1994.

Day after day we improved our manufacturing technologies and machinery equipments and caught world standards.

Nearly a half century of experience in gas spring production ensures us self-confidence to provide our products all high level markets. Today we manufacture 5 different series in steel and stainless steel materials and dozens of different funtions. Customers from about 50 countries and dozen of different industrial sectors rely on different kinds of gas springs made by MANKSAN INC.

MANKSAN A.Ş. sanayi serüvenine 70' li yılların başında gazlı amortisör ve birçok değişik endüstri alanına talaşlı imalat yaparak başlamıştır. Gazlı amortisör üretimi için ilk girişimlerimiz ise 1994 yılına dayanmaktadır.

Firmamız gün geçtikçe üretim teknolojileri ve makine ekipmanları alanında ilerlemeler kaydederek dünya standartlarını yakalamıştır.

Yarım asra yaklaşan üretim tecrübemizin bize verdiği özgüvenle üst düzey pazarlarda kabul görmemiz zor olmadı. Bugün firmamız 5 farklı seride çelik ve paslanmaz çelikten dzinlerce özellikle gazlı amortisör üretimi yapacak konuma erişmiştir. Dünyanın elliden fazla ülkesinde birçok farklı sanayi dalında ürün çeşitlerimiz güvenle kullanılmaktadır.



MANKSAN
AMORTISOR

The technology is constantly and rapidly evolving, enabling different manufacturing methods. The development of different manufacturing methods increases the diversity of production. We're follow the rapidly evolving technology for be able to respond faster to requests from our customers, increasing range and capacity of our product, to adapting to the fast-paced construction of the era and providing better quality service. We introduce new systems, techniques and technology into our structure.

Sürekli ve hızla gelişen teknoloji sayesinde farklı üretim metotları ortaya çıkmaktadır. Farklı üretim metotlarının da gelişmesi ile üretimdeki çeşitlilik artmaktadır. Müşterilerimizden gelen isteklere daha hızlı yanıt verebilmek, üretimdeki çeşitliliğimizi artırmak, çağın hareketli yapısına uyum sağlamak ve daha kaliteli hizmet verebilmek için hızla gelişen teknolojiyi takip edip yeni sistemleri, teknikleri ve teknolojiyi bünyemize kazandırıyoruz.



MANKSAN
AMORTISOR

The primary objective of our company is to create the best production potential, to provide quality product service, to improve our delivery performance, to eliminate waste, to increase customer satisfaction and to ensure continuous development.

Manksan Amortisör A.Ş olarak öncelikli hedeflerimiz en iyi üretim potansiyelini oluşturmak, kaliteli ürün hizmeti sunmak, teslimat performansımızı en üst düzeye çıkarmak, israfı ortadan kaldırmak, müşteri memnuniyetini artırmak ve sürekli gelişmeyi sağlamaktır.

QUALITY POLICY / KALİTE POLİTİKASI

All our products are designed, manufactured and delivered according to the most strict quality standards. Our experienced and specially trained employees monitor the adherence to our quality criteria in every phase of the production process.

Manksan TİC. A.Ş. products are continuously tested to ensure reliability, long life and over all product safety for your highest satisfaction. Using our test and development laboratory, products and technology are constantly being improved. Following tests are made by officially registered laboratories :

Damping measurements, Extension speed measurements, Extension force measurements, Leakage tests, Thermal tests, Salt spray tests, Life cycle tests, Tests of actual application, Tests of mechanical strength, Metallographic inspections: material, hardness, microstructure.

Bütün ürünlerimiz tasarımından üretime ve sevkiyata kadar sıkı kalite standartlarına uygun bir şekilde sunulmaktadır. Deneyimli ve özel yetişirilmiş uzman ekibimiz üretimin her aşamasını kalite kriterlerimize uygun bir şekilde denetleyerek uygulamaktadır.

Manksan Tic. A.Ş. ürünleri yüksek memnuniyetinizi sağlamak adına devamlı bir şekilde dayanıklılık, uzun ömür, ve malzeme güvenliği kıstastaları göz önünde bulundurularak test edilmektedir. Test ve AR-GE birimimiz ürün ve üretim teknolojilerimizi daha da geliştirmek adına çalışma halindedir. Aşağıdaki testler yetkinleştirilmiş test labaratuvarları tarafından gerçekleştirilmektedir:

Damperleme ölçümlü, Açılış hızı ölçümlü, Kuvvet Ölçümü, Sızdırmazlık testleri, Termal testler, Korozyon / Tuz testi, Ömür testleri, Mekanik dayanım testleri, Kullanım alanı testleri, Metalografik muayeneler : malzeme, sertlik, mikroyap.

GAS SPRING / GAZLI AMORTİSÖR

Gas springs, which are used both in our daily lives and in many different sectors and make our lives easier, allow us to do more work with less time, less energy.

Gas shock absorbers are used in passenger vehicles, commercial vehicles, tractors and buses, minibuses and similar vehicles used in passenger transportation. The main areas of application are luggage, hoods, seat adjustment mechanisms, cabin windows, rear spoilers, pickup covers, caravan covers.

The types of products that we offer to our customers in accordance with Manksan-specific designs and production methods are listed in Table 1.1.

Gerek günlük yaşamımızda gerek ise birçok farklı sektörde kullanılan ve hayatımıza kolaylaştıran gazlı amortisörler daha az zaman, daha az enerji ile daha fazla iş yapmamızı sağlar.

Gazlı amortisörlerin kullanım alanları; binek araçlar, ticari araçlar, traktörler ve yolcu taşımacılığında kullanılan otobüs, minibüs ve benzeri araçlarda kullanılır. Bagajlar, kaputlar, koltuk ayar mekanizmaları, kabin pencereleri, arka spoilerler, pikap kapakları, karavan kapakları ana uygulama alanlarıdır.

Manksan'a özgü tasarımlar ve üretim metodları doğrultusunda müşterilerimize sunduğumuz ürün çeşitlerimiz Tablo 1.1 de yer almaktadır.

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | Min - Max Stroke / Strok (mm) | Min - Max Axis / Eksen (mm) | Min - Max Pressure / Basınç (N) |
|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|---------------------------------------|
| G12 | Ø4 | Ø12 | 20 - 150 | 65 - 325 | 20 - 180 |
| G15 | Ø6 | Ø15 | 20 - 225 | 75 - 485 | 40 - 400 |
| G18 | Ø8 | Ø18 | 20 - 425 | 75 - 885 | 50 - 700 |
| G21 | Ø10 | Ø21 | 30 - 550 | 95 - 1155 | 50 - 1200 |
| G22 | Ø10 | Ø22 | 30 - 550 | 95 - 1155 | 50 - 1300 |
| G26 | Ø10 | Ø27 | 50 - 800 | 150 - 1650 | 100 - 1300 |
| G27 | Ø14 | Ø27 | 50 - 800 | 150 - 1650 | 100 - 2800 |
| G40 | Ø20 | Ø40 | 100 - 900 | 400 - 2000 | 300 - 5000 |

Table 1.1. Types of products / Tablo 1.1. Ürün Çeşitleri

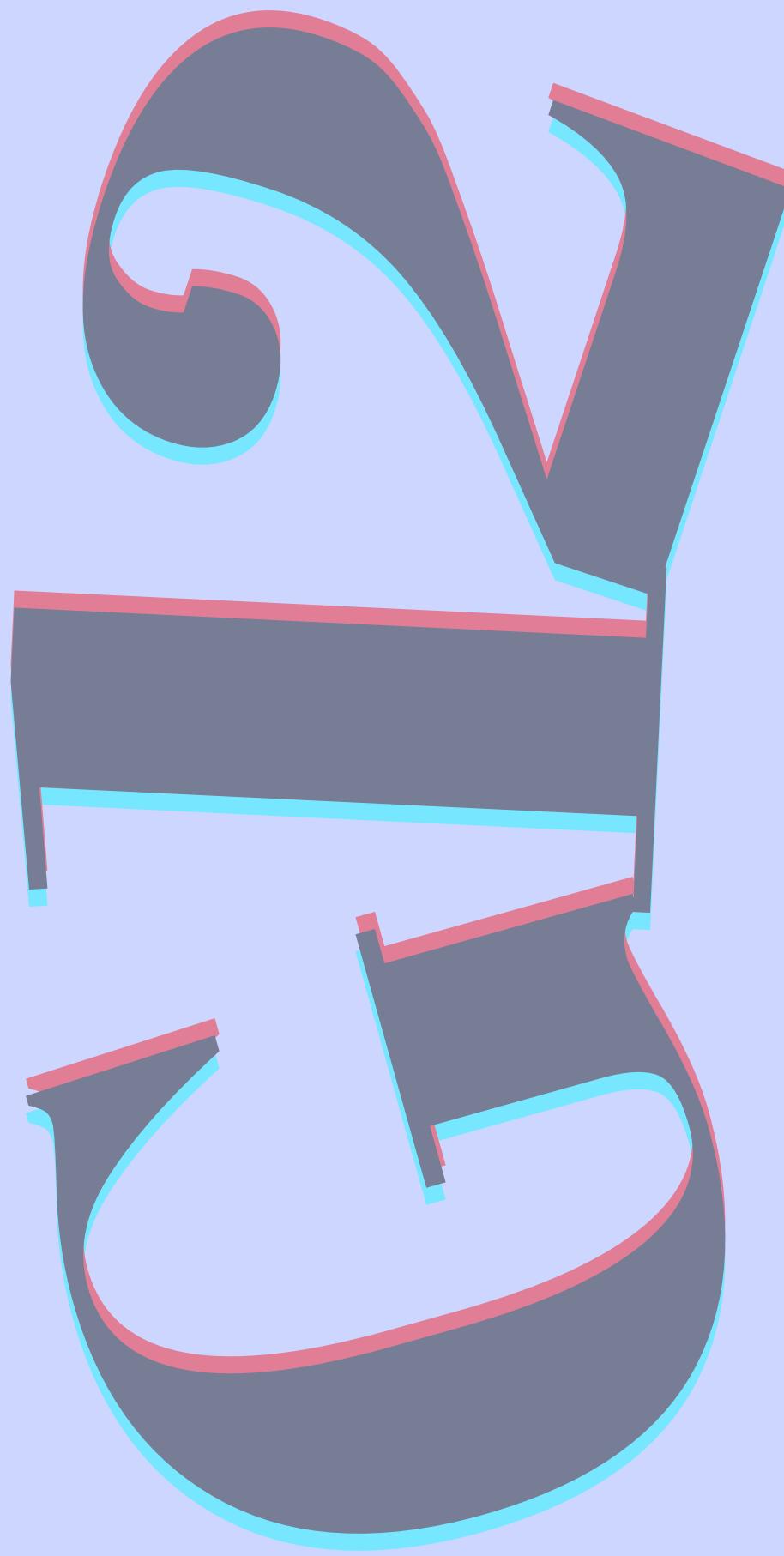


Gas shock absorbers have a rod that moves up or down in a tube filled with hydraulic fluid and gas. It accommodates different sealing elements and bedding elements on the rod. As the rod progresses to the internal volume, the gas trapped in the tube shows an inverse resistance to the direction of movement of the rod. The pressure of the gas in the tube is proportional to the volume of the tube. At the same time, the force of the shock absorber is directly proportional to the tube pressure. When the force F1 applied to the rod is zero, the rod always remains outside the internal volume.

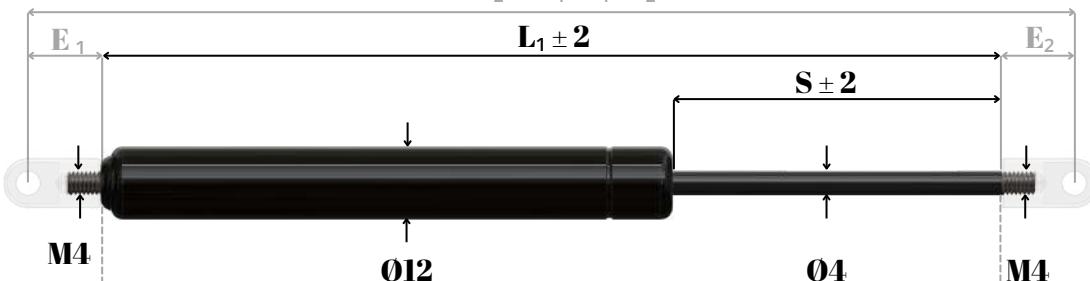
One of the most important factors affecting the service life and operating performance of the gas spring is the amount of oil placed in the tube. Thanks to the determination of the correct amount of oil, the surface wear of the sealing elements included in the gas spring inner group is minimized. Thanks to this, the gas spring both performs its most efficient performance and extends the life of the product. Also in the oil, foaming and bubbles that occur due to the speed of movement of the rod in the internal volume adversely affect the performance of the gas spring. The gas placed in the tube together with the hydraulic fluid; not only relieves the labor force, but also allows you to eliminate this negative factor.

Gazlı amortisörlerde hidrolik sıvı ve gaz ile dolu bir tüpün içerisinde, aşağı veya yukarı yönlü hareket eden, üzerinde farklı sızdırmazlık elemanlarını, yataklama elemanlarını da barındıran bir mil bulunmaktadır. Milin iç hacme ilerlemesi ile tüpün içerisinde sıkışan gaz milin hareket yönüne ters bir direnç gösterir. Tüp içindeki gazın basıncı, tüpün hacmi ile orantılıdır. Aynı zamanda amortisörün kuvveti tüp basıncıyla doğru orantılıdır. Mile uygulanan F1 kuvveti sıfır olduğunda mil her zaman iç hacmin dışında kalır.

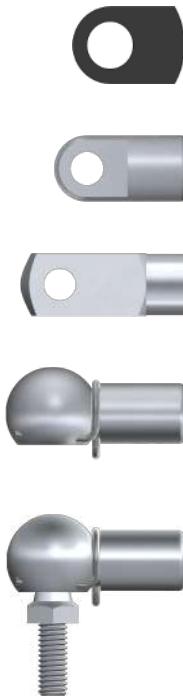
Amortisörün ömrünü ve çalışma performansını etkileyen en önemli etkenlerden biri de tüp içine konan yağ miktarıdır. Doğru yağ miktarının belirlenmesi sayesinde amortisör iç grubunda yer alan sızdırmazlık elemanlarının yüzey aşınmaları en aza indirgenir. Bu sayede amortisör hem en verimli performansını sergiler hem de ürünün ömrü uzar. Buna ek olarak; yalda, milin iç hacimdeki hareket hızına bağlı olarak meydana gelen köpürme ve kabarcıklar amortisörün performansını olumsuz etkiler. Tüp içerisinde hidrolik sıvı ile birlikte konulan gaz; sadece iş gücünü hafifletmekle kalmaz aslında bu olumsuz etkeni de ortadan kaldırmayı sağlar.



$$L_2 = E_1 + L_1 + E_2$$



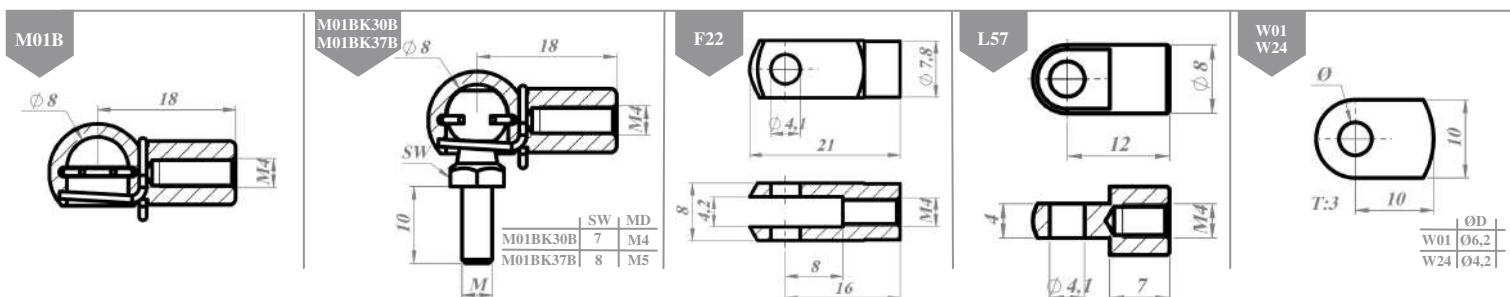
| Stroke / Strok | L ₁ | Pressure / Basınç |
|----------------|----------------|-------------------|
| 20 | 65 | 20N - 180N |
| 30 | 85 | 20N - 180N |
| 40 | 105 | 20N - 180N |
| 50 | 125 | 20N - 180N |
| 60 | 145 | 20N - 180N |
| 70 | 165 | 20N - 180N |
| 80 | 185 | 20N - 180N |
| 90 | 205 | 20N - 160N |
| 100 | 225 | 20N - 140N |
| 120 | 265 | 20N - 120N |
| 140 | 305 | 20N - 100N |
| 150 | 325 | 20N - 100N |

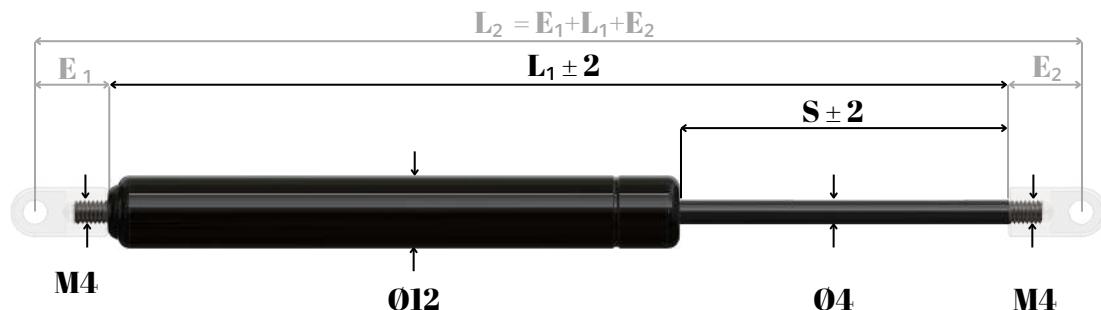


| Ordering Example / Sipariş Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | S ± 2 | L ₂ ± 2 | Pressure / Basınç (N) |
|-----------------------------------|--------------------------|-----------------------------|------------------------------|-------|--------------------|-----------------------|
| G12 | M01BK30B | M01BK30B | L57 | 20 mm | 95 mm | 180N |

»» Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçimini yapın ve sipariş kodunu oluşturun.

! If the product you want to order is not among our standards, please see page 11. / Sipariş etmek istediğiniz ürün standart ürünlerimiz arasında yok ise lütfen sayfa 11' e bakınız.





| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------|------------|--------------|
| | ✓ | ✓ | <u>12</u> |
| | ✓ | ✓ | <u>12</u> |
| | ✓ | ✓ | <u>13</u> |
| | ✓ | ✓ | <u>14</u> |
| | ✓ | ✓ | <u>14</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | $S \pm 2$ (mm) | $L_1 \pm 2$ (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|----------------------|------------------------|-----------------------|
| G12 | Ø4 | Ø12 | $20 \leq S \leq 150$ | $65 \leq L_1 \leq 325$ | $20 \leq N \leq 180$ |

Tablo 1.2

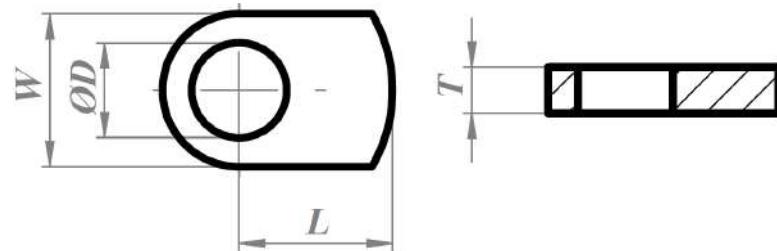
>>> The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan INC. and your local sales partners will be glad to help you find the right products and support you in every way.

>>> Burada sunulan özel sipariş spesifikasyonu ile standart katalog ölçülerine bağlı kalmadan talebiniz doğrultusunda ürün kodu oluşturarak sipariş verebilirsiniz. Tablo 1.2'de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz. Ayrıca Manksan Tic. A.Ş. çalışanları ve yerel satış partnerlerimiz size doğru ürünü seçmenizde yardımcı olacaktır.

| Body Group / Gövde Grubu | Rod Connection / Mil Bağlantı | Tube Connection / Tüp Bağlantı | Stroke / Strok | L_2 | | | Pressure / Basınç |
|--------------------------|-------------------------------|--------------------------------|----------------|-------|-------|-------|-------------------|
| | | | | L_1 | $ +$ | E_1 | |
| G12 | | | | | | | |

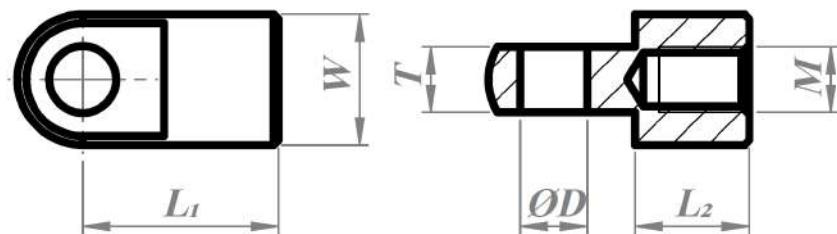
Tablo 1.3

Welded / Kaynaklı

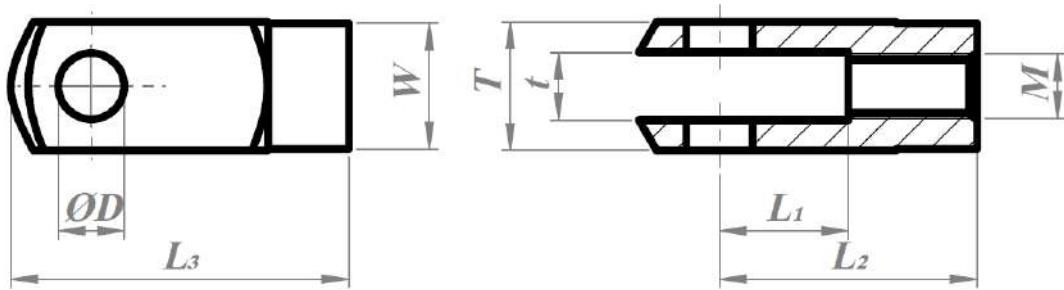


| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W25 | 4,2 | 9 | 3 | 8 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W24 | 4,2 | 10 | 3 | 10 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W26 | 4,2 | 10 | 4 | 10 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W01 | 6,2 | 10 | 3 | 10 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

L50 Eyelet / L50 Gözülü



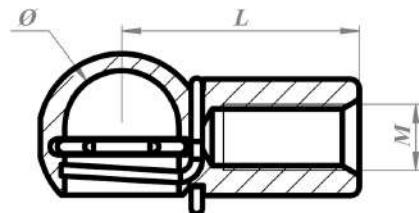
| Code / Kod | ØD (mm) | L1 (mm) | L2 (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------|---------|--------|--------|----|---------------------------|--------------------|
| L57 | 4,1 | 12 | 7 | 4 | 8 | M4 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



| Code / Kod | ØD_1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|---------|---------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| F22 | 4,1 | 8 | 16 | 21 | 4,2 | 8 | 7,8 | M4 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

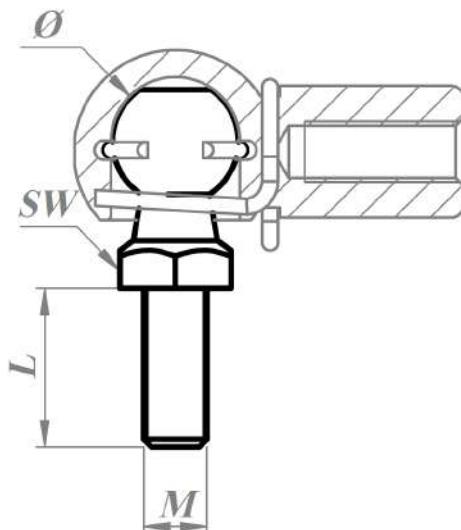


Ball Socket (Steel) / Muylu Soketi (Çelik)



| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M01B | 8 | 18 | M4 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Ball Stud (Steel) / Kürebaş (Çelik)



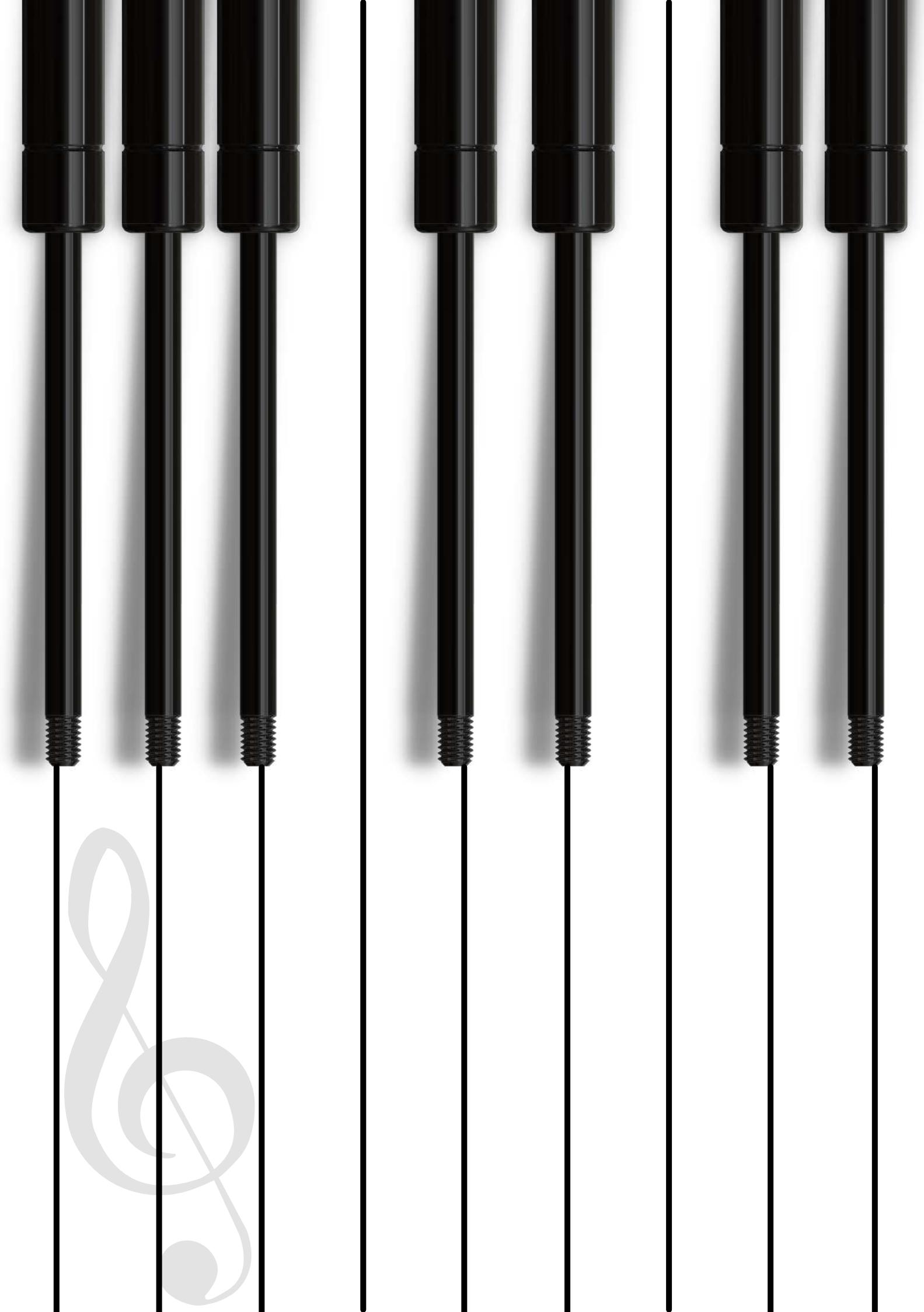
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M01B K30B

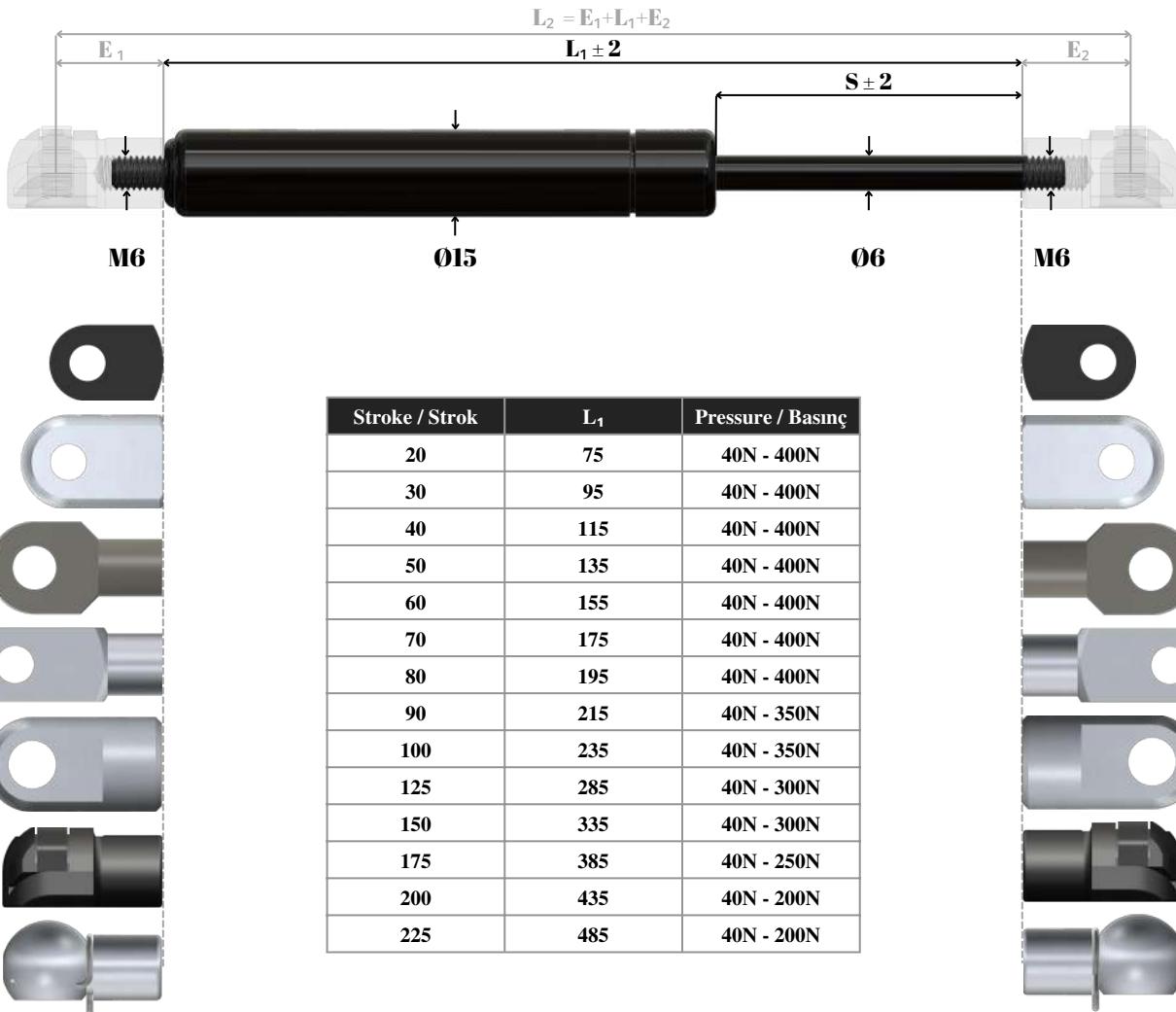
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

| Code / Kod | \varnothing (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|---------|----|----------------------------------------------|------------------------------|-----------------------|
| K30B | 8 | 10 | 7 | M4 | M01B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K37B | 8 | 10 | 8 | M5 | M01B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



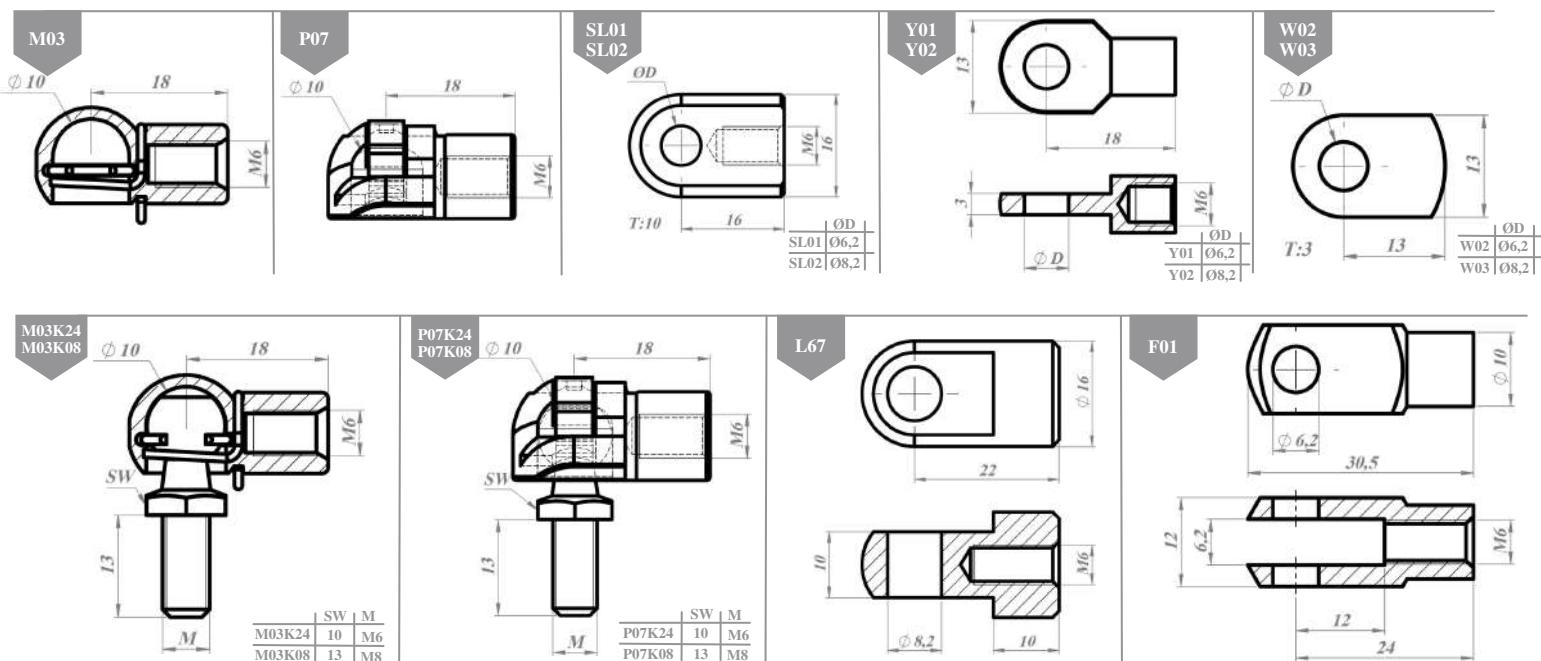


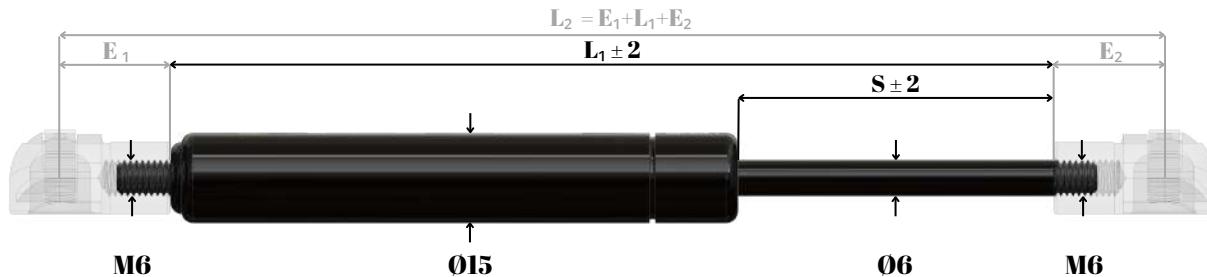


| Ordering / Sipariş Example | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | $S \pm 2$ | $L_2 \pm 2$ | Pressure / Basınç (N) |
|----------------------------|--------------------------|-----------------------------|------------------------------|-----------|-------------|-----------------------|
| Örneği G15 | | M03 | W03 | 20 mm | 106 mm | 90N |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçiminizi yapın ve sipariş kodunu oluşturun.

! If the product you want to order is not among our standards, please see page 18. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 18' e bakınız.





| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------|------------|----------------------------------------------------------------------------------|
| | ✓ | ✓ | <u>19</u> |
| | ✓ | ✓ | <u>20</u> |
| | ✓ | ✓ | <u>21</u> |
| | ✓ | ✓ | <u>22</u> |
| | ✓ | ✓ | <u>20</u> |
| | ✓ | ✓ | <u>24</u> |
| | ✓ | ✓ | <u>28</u> |
| | ✓ | ✓ | <u>Plastic / Plastik 25 - 27</u> <u>Steel / Çelik 29 - 30</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | S ± 2 (mm) | L1 ± 2 (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|--------------|---------------|-----------------------|
| G15 | Ø6 | Ø15 | 20 ≤ S ≤ 225 | 75 ≤ L1 ≤ 485 | 40 ≤ N ≤ 400 |

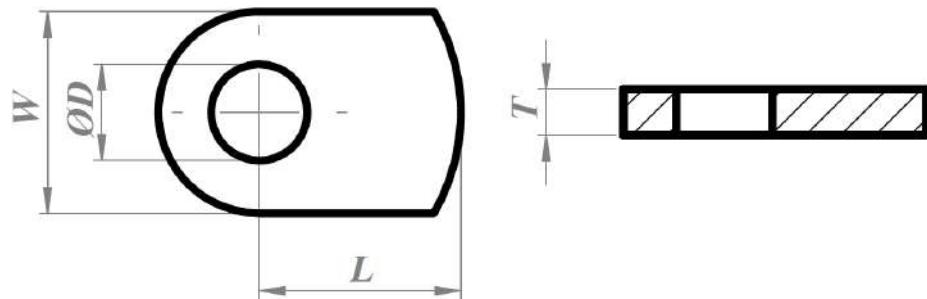
Tablo 1.2

>>> The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan A.Ş. and your local sales partners will be glad to help you find the right products and support you in every way.

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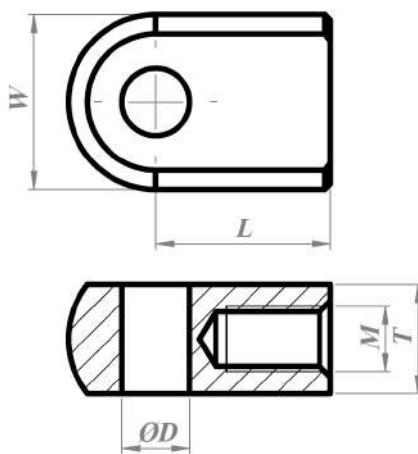
| Body Group / Gövde Grubu | Rod Connection / Mil Bağlantı | Tube Connection / Tüp Bağlantı | Stroke / Strok | L2 | | | Pressure / Basınç |
|--------------------------|-------------------------------|--------------------------------|----------------|-------|-------|-------|-------------------|
| | | | | L1 | + | E1 | |
| G15 | | | | | | | |

Tablo 1.3

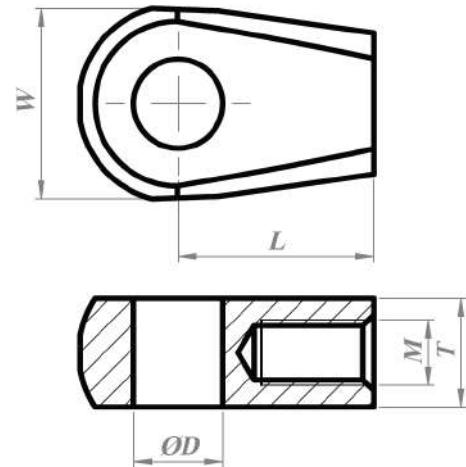


| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W05 | 6,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W02 | 6,2 | 13 | 3 | 13 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W07 | 6,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W06 | 8,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W03 | 8,2 | 13 | 3 | 13 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W08 | 8,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W04 | 8,2 | 15 | 3 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

L Type Eyelet / L Tipi Gözlü



Type-1 / Tip-1



Type-2 / Tip-2

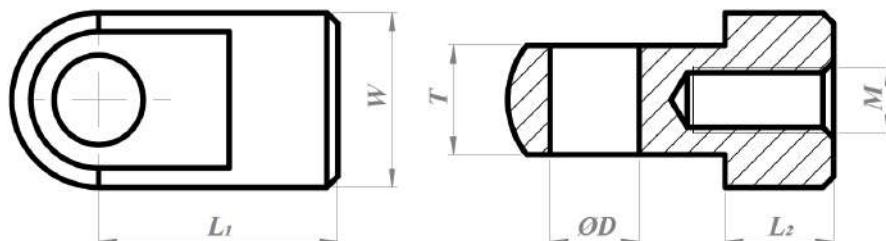
Type-1 / Tip-1

| Code / Kod | \O D (mm) | L (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|--------|--------|----|---------------------------|--------------------|
| SL01 | 6,2 | 16 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL23 | 6,2 | 18 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL02 | 8,2 | 16 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL21 | 8,2 | 18 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL04 | 8,2 | 20 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

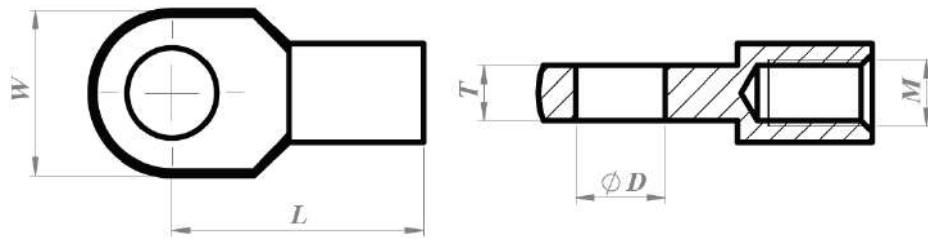
Type-2 / Tip-2

| Code / Kod | \O D (mm) | L (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|--------|--------|----|--------------------|------------------|
| AL13 | 8,2 | 18 | 10 | 18 | M6 | 2011 AL | White / Beyaz |

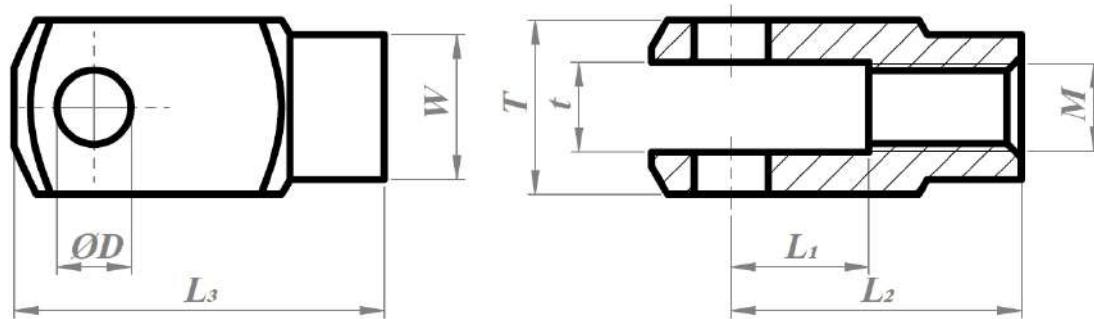
L50 Type Eyelet / L50 Tipi Gözlü



| Code / Kod | \O D (mm) | L_1 (mm) | L_2 (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|------------|------------|--------|--------|----|---------------------------|--------------------|
| L67 | 8,2 | 22 | 10 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



| Code / Kod | $\varnothing D$ (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|----------------------|--------|--------|--------|----|------------------------------|-----------------------|
| Y01 | 6,2 | 18 | 3 | 13 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y25 | 6,2 | 18 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y03 | 6,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y17 | 6,2 | 28 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y20 | 7,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y02 | 8,2 | 18 | 3 | 13 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y26 | 8,2 | 18 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y04 | 8,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y19 | 8,2 | 23 | 5 | 15 | M6 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y22 | 8,2 | 28 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y23 | 8,2 | 30 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |

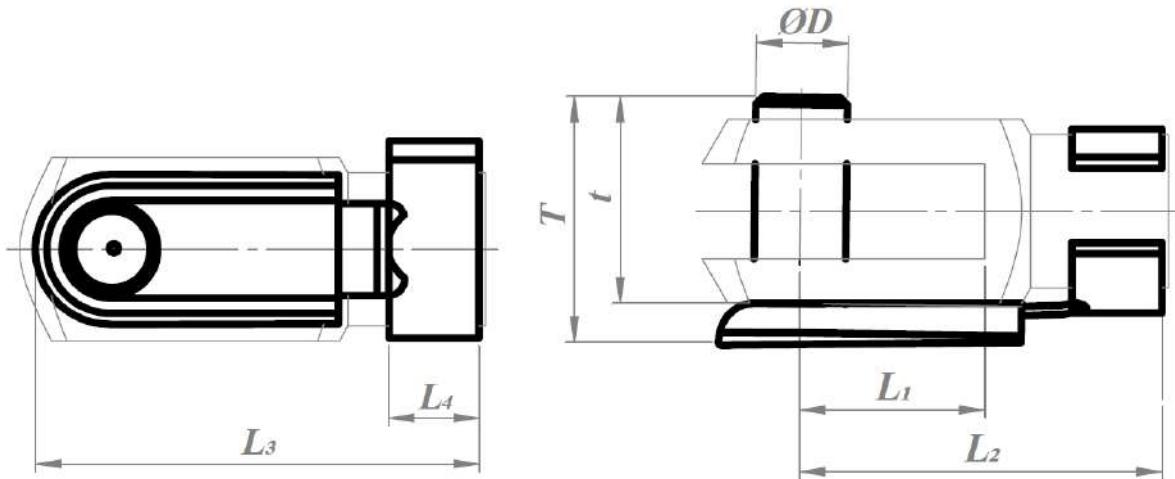


| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|--------|--------|--------|----|------------------------------|-----------------------|
| F23 | 5,1 | 9,5 | 20 | 25,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F01 | 6,2 | 12 | 24 | 30,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F02 | 6,2 | 16 | 28 | 34,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F03 | 6,2 | 20 | 32 | 38,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F04 | 6,2 | 23 | 35 | 42 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

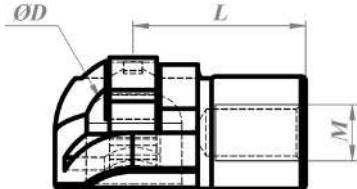


>>>

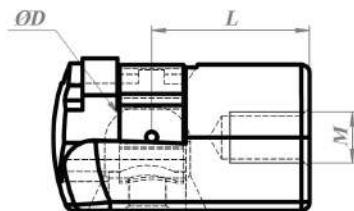
Ayrıntılı bilgi için lütfen sayfa 23' e bakınız.
For detailed recommendations, please see page 23.



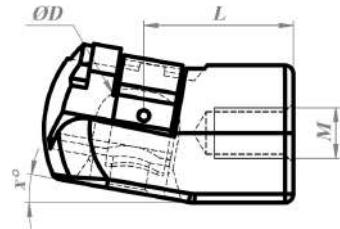
| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|---------------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

Type-1 / Tip-1

| Code / Kod | ØD (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|----|--------------------|------------------|
| P07 | 10 | 18 | M6 | Plastic / Plastik | Black / Siyah |
| P08 | 10 | 18 | M6 | Plastic / Plastik | Grey / Gri |

Type-2 / Tip-2

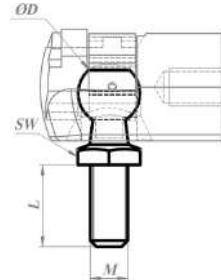
| Code / Kod | ØD (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|----|--------------------|------------------|
| P01 | 10 | 18 | M6 | Plastic / Plastik | Black / Siyah |
| P12 | 8 | 18 | M6 | Plastic / Plastik | Black / Siyah |

Type-3 / Tip-3

| Code / Kod | ØD (mm) | L (mm) | Angle / Açı (x°) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|------------------|----|--------------------|------------------|
| P03 | 10 | 18 | 10° | M6 | Plastic / Plastik | Black / Siyah |
| P10 | 10 | 18 | 16° | M6 | Plastic / Plastik | Black / Siyah |



Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği



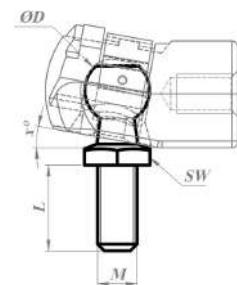
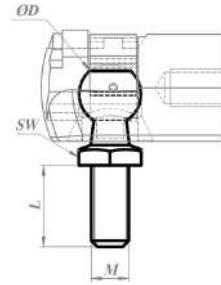
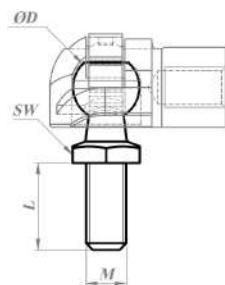
P12 K30

2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

Type-2 / Tip-2

| ØD : 8 | | | | | | | |
|---------------|---------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K30 | 8 | 10 | 7 | M4 | P12 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K30B | 8 | 10 | 7 | M4 | P12 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K37 | 8 | 10 | 8 | M5 | P12 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K37B | 8 | 10 | 8 | M5 | P12 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

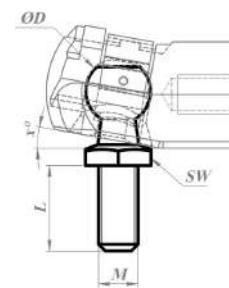
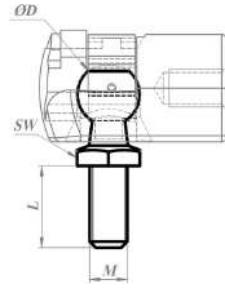
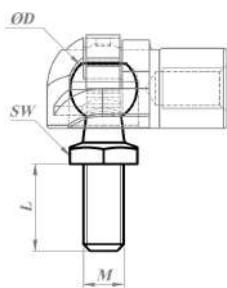


Type-1 / Tip-1

Type-2 / Tip-2

Type-3 / Tip-3

| ØD : 10 | | | | | | | |
|----------------|---------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K27 | 10 | 11 | 10 | M5 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K27B | 10 | 11 | 10 | M5 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K01 | 10 | 11 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K01B | 10 | 11 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K48B | 10 | 11 | 13 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K34 | 10 | 12.5 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K34B | 10 | 12.5 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



**Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği**

P01 K24

2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

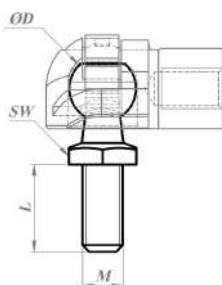
1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

Type-1 / Tip-1

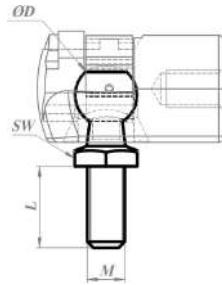
Type-2 / Tip-2

Type-3 / Tip-3

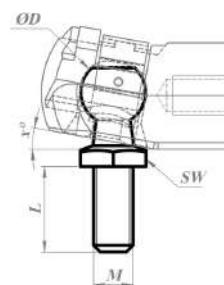
| ØD : 10 | | | | | | | |
|----------------|---------|--------|---------|----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K24 | 10 | 13 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K24B | 10 | 13 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K02 | 10 | 15 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K02B | 10 | 15 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K03 | 10 | 20 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K03B | 10 | 20 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K35 | 10 | 28 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K35B | 10 | 28 | 10 | M6 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K49 | 10 | 6 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44 | 10 | 8 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44B | 10 | 8 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K04 | 10 | 11 | 10 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

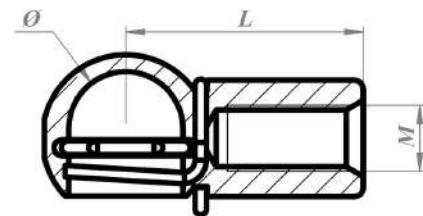
**Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği**

P01 K24

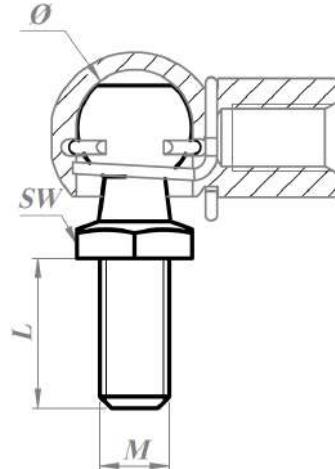
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

| ØD : 10 | | | | | | | |
|----------------|---------|--------|---------|----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K08 | 10 | 13 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K10 | 10 | 20 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | P01, P03, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M03 | 10 | 18 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M03B | 10 | 18 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M22 | 10 | 21 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M05 | 10 | 25 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M05B | 10 | 25 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M20 | 10 | 30 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M13B | 10 | 40 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M21 | 10 | 40 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |



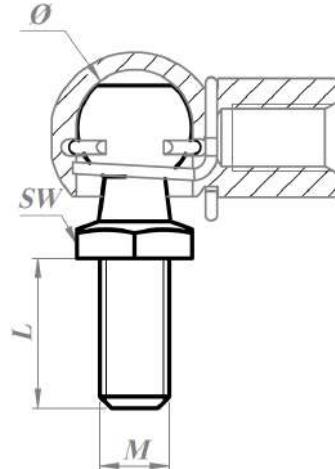
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M03 **K27**

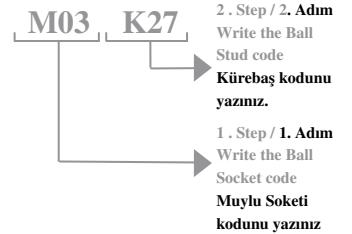
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

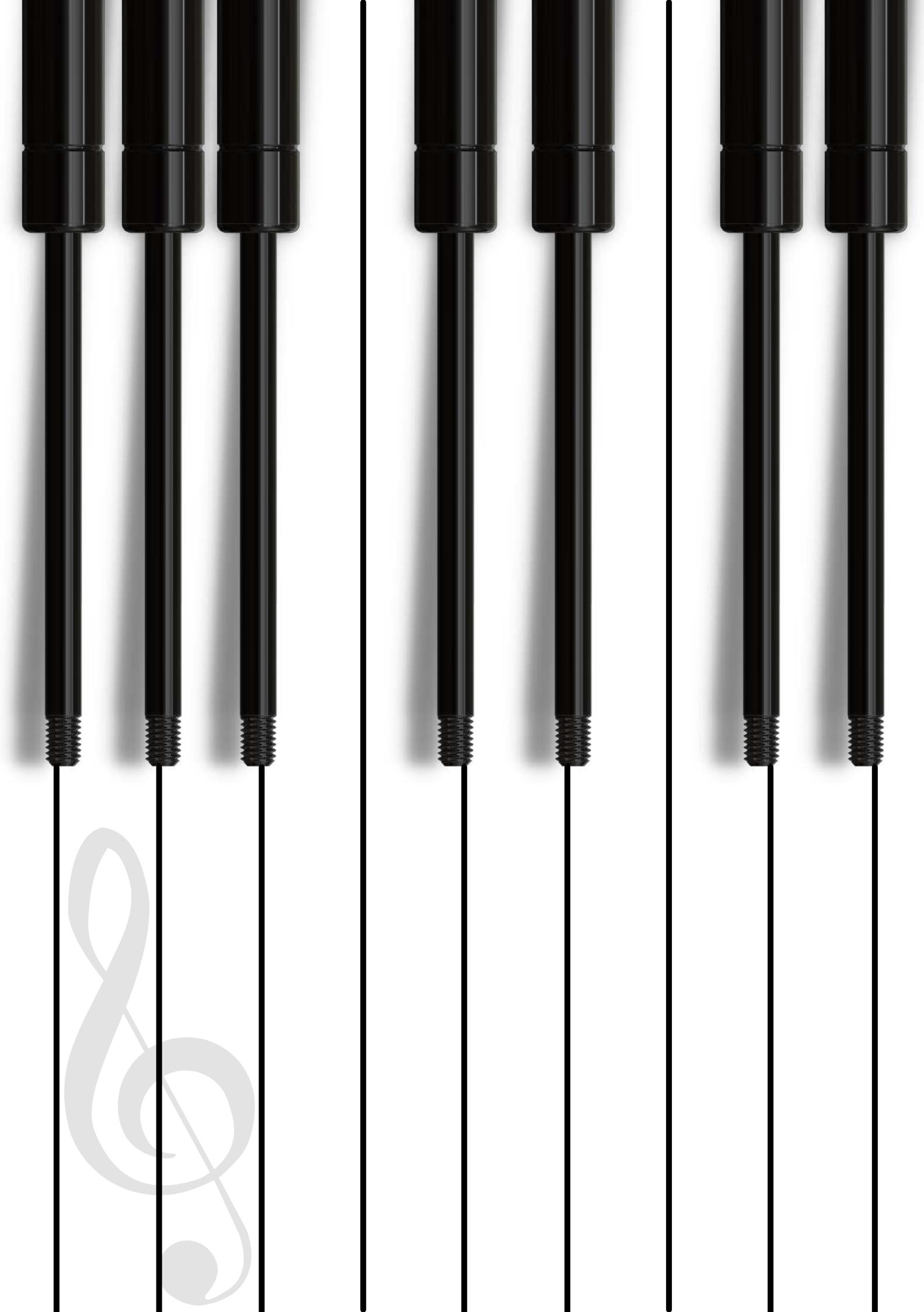
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| K27 | 10 | 11 | 10 | M5 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K27B | 10 | 11 | 10 | M5 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K01 | 10 | 11 | 10 | M6 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K01B | 10 | 11 | 10 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K48B | 10 | 11 | 13 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K34 | 10 | 12.5 | 10 | M6 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K34B | 10 | 12.5 | 10 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K24 | 10 | 13 | 10 | M6 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K24B | 10 | 13 | 10 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K02 | 10 | 15 | 10 | M6 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K02B | 10 | 15 | 10 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K03 | 10 | 20 | 10 | M6 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K03B | 10 | 20 | 10 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K35 | 10 | 28 | 10 | M6 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K35B | 10 | 28 | 10 | M6 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K49 | 10 | 6 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44 | 10 | 8 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44B | 10 | 8 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

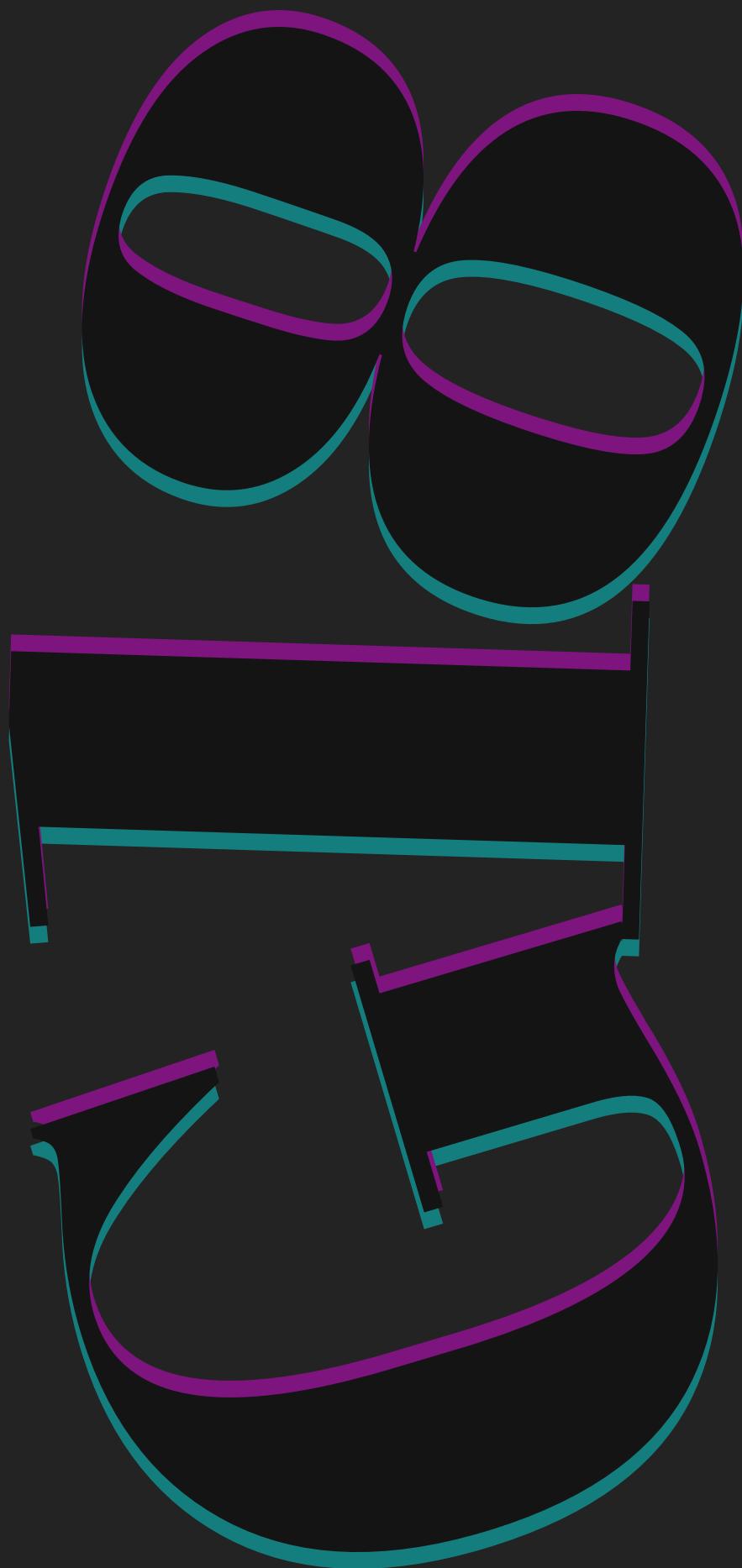


Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği



| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| K04 | 10 | 11 | 10 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K10 | 10 | 20 | 13 | M8 | M03, M05, M20, M21, M22 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | M03B, M05B, M13B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

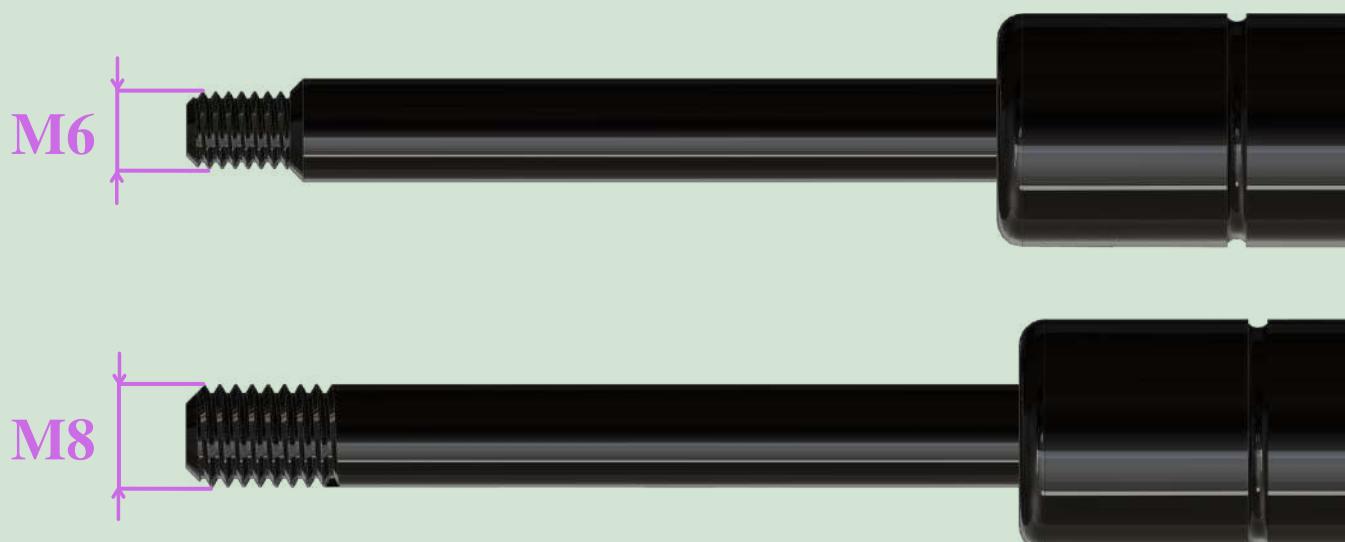


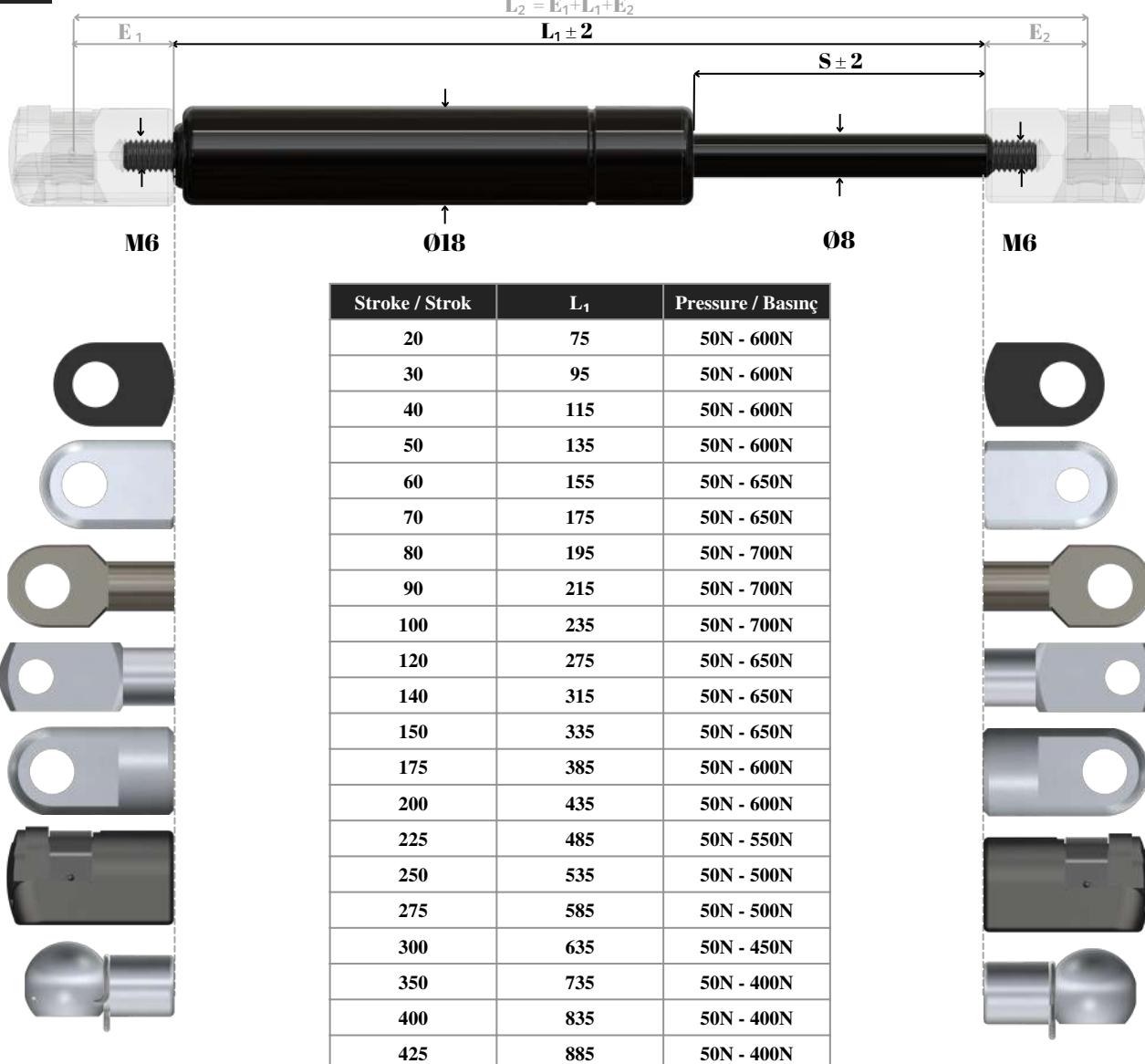


G18

The body group G18 Gas Springs have two types of thread options;
G18 Grubu Amortisörlerde iki çeşit dış seçeneği bulunmaktadır;

- M6 (Page / Sayfa : 34)
- M8 (Page / Sayfa : 49)

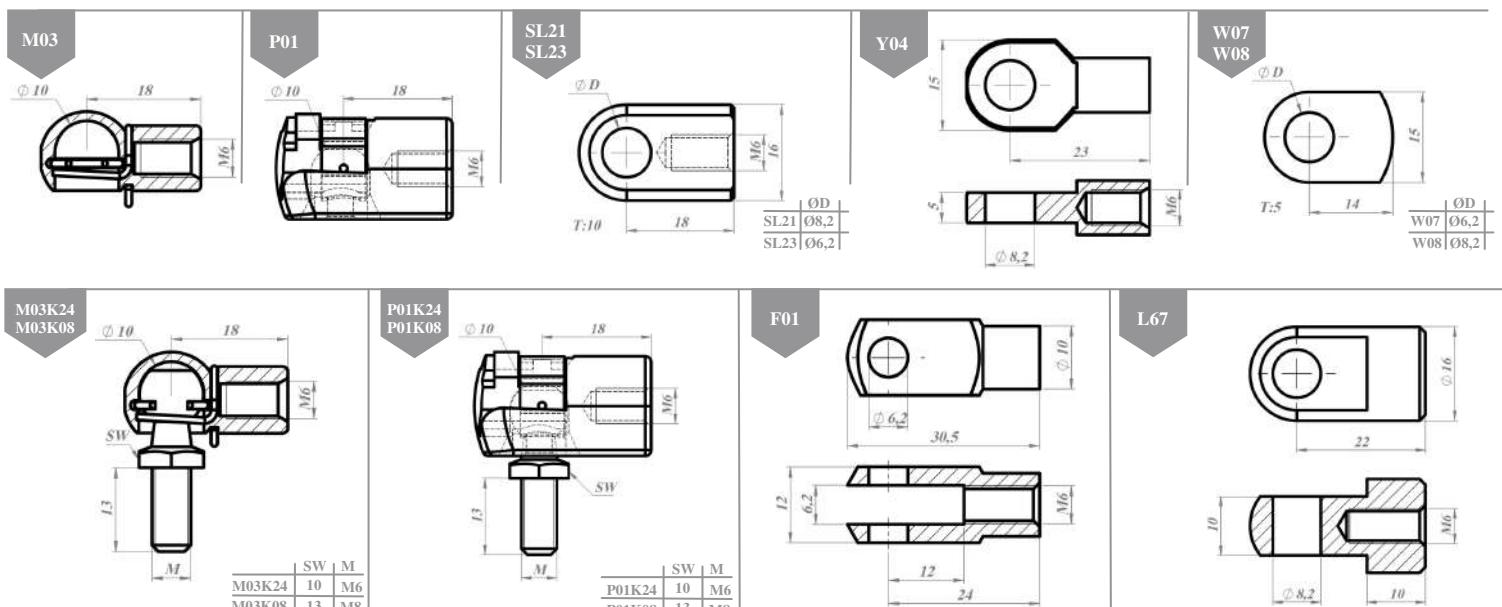


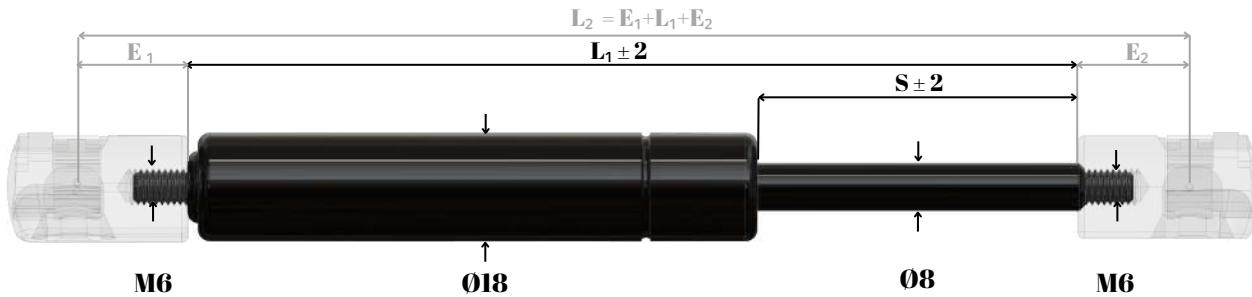


| Ordering Example / Sipariş Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | $S \pm 2$ | $L_2 \pm 2$ | Pressure / Basınç (N) |
|-----------------------------------|--------------------------|-----------------------------|------------------------------|-----------|-------------|-----------------------|
| G18 | | M03K24 | W08 | 20 mm | 107 mm | 90N |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçimini yapın ve sipariş kodunu oluşturun.

! If the product you want to order is not among our standards, please see page 35. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 35' e bakınız.





| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------|------------|--------------------------------------------------------------------|
| | ✓ | ✓ | <u>36</u> |
| | ✓ | ✓ | <u>37</u> |
| | ✓ | ✓ | <u>38</u> |
| | ✓ | ✓ | <u>39</u> |
| | ✓ | ✓ | <u>37</u> |
| | ✓ | ✓ | <u>44-45</u> |
| | ✓ | ✓ | <u>41</u> |
| | ✓ | ✓ | <u>Steel / Çelik 42 - 43 Plastik / Plastic 46 - 48</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | $S \pm 2$ (mm) | $L_1 \pm 2$ (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|----------------------|------------------------|-----------------------|
| G18 | Ø8 | Ø18 | $20 \leq S \leq 425$ | $75 \leq L_1 \leq 885$ | $50 \leq N \leq 700$ |

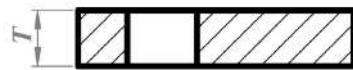
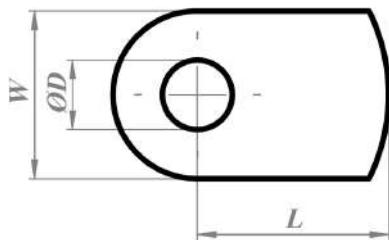
Tablo 1.2

>>> The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan A.Ş. and your local sales partners will be glad to help you find the right products and support you in every way.

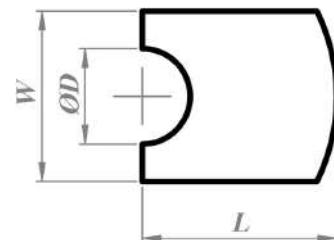
Burada sunulan özel sipariş spesifikasyonu ile standart katalog ölçülerine bağlı kalmadan talebiniz doğrultusunda ürün kodu oluşturarak sipariş verebilirsiniz. Tablo 1.2'de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz. Ayrıca Manksan Tic. A.Ş. çalışanları ve yerel satış partnerlerimiz size doğru ürünü seçmenizde yardımcı olacaktır.

| Body Group / Gövde Grubu | Rod Connection / Mil Bağlantı | Tube Connection / Tüp Bağlantı | Stroke / Strok | L_2 | Pressure / Basınç |
|--------------------------|-------------------------------|--------------------------------|----------------|---------------------------|-------------------|
| | | | | L_1 + E_1 + E_2 | |
| G18 | | | | | |

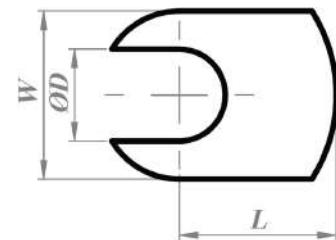
Tablo 1.3



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

Type-1 / Tip-1

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W05 | 6,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W07 | 6,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W09 | 6,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W12 | 6,2 | 21 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W06 | 8,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W08 | 8,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W10 | 8,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W13 | 8,2 | 20 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

Type-2 / Tip-2

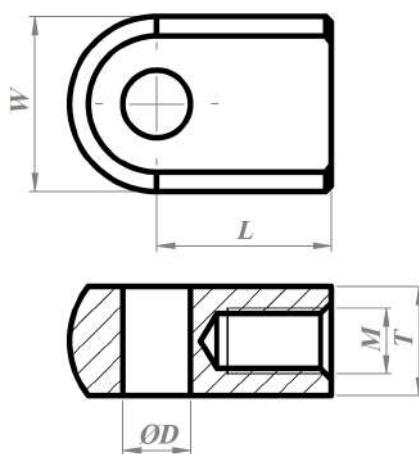
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W27 | 8,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

Type-3 / Tip-3

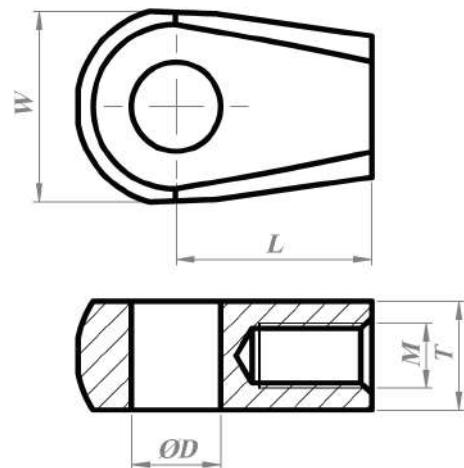
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W32 | 8,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |



L Type Eyelet / L Tipi Gözlü



Type-1 / Tip-1



Type-2 / Tip-2

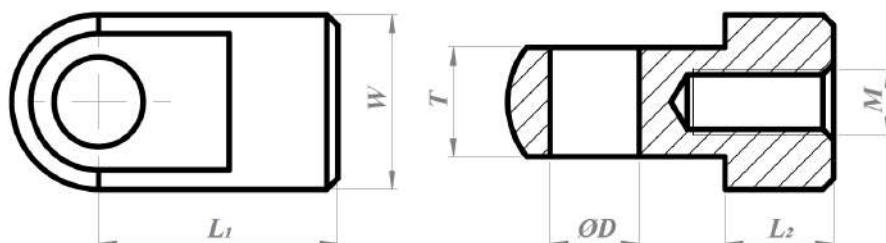
Type-1 / Tip-1

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| SL01 | 6,2 | 16 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL23 | 6,2 | 18 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL02 | 8,2 | 16 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL21 | 8,2 | 18 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL04 | 8,2 | 20 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

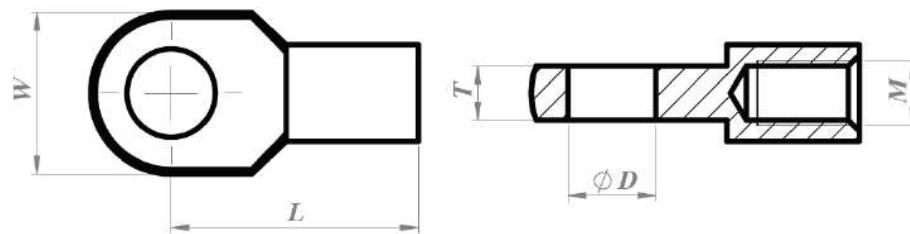
Type-2 / Tip-2

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|--------------------|------------------|
| AL13 | 8,2 | 18 | 10 | 18 | M6 | 2011 AL | White / Beyaz |

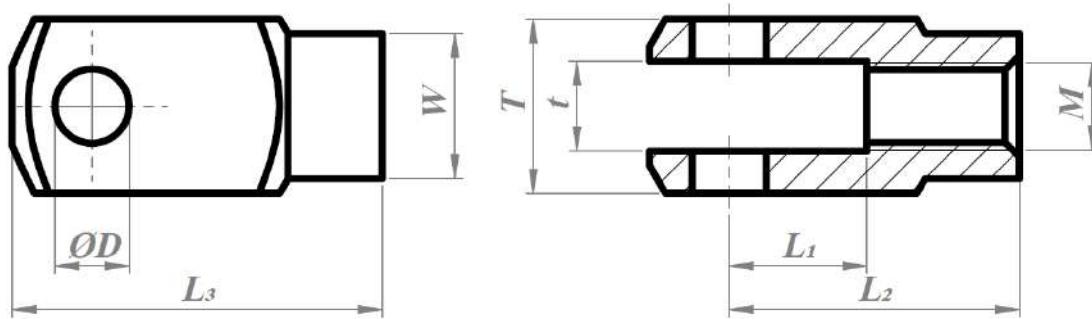
L50 Type Eyelet / L50 Tipi Gözlü



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|--------|--------|----|------------------------------|-----------------------|
| L67 | 8,2 | 22 | 10 | 10 | 16 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



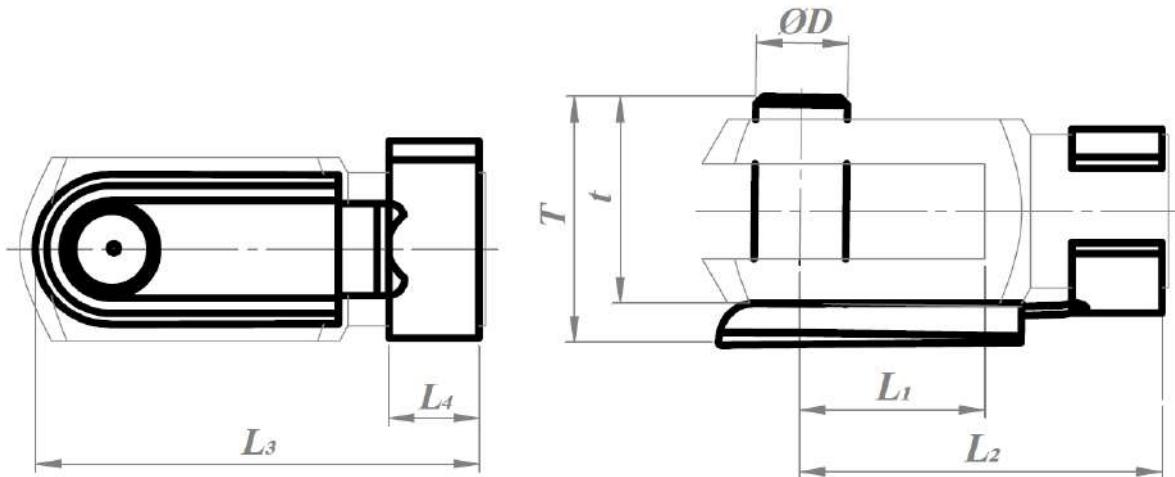
| Code / Kod | ϕD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------------|--------|--------|--------|----|------------------------------|-----------------------|
| Y25 | 6,2 | 18 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y03 | 6,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y17 | 6,2 | 28 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y20 | 7,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y26 | 8,2 | 18 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y04 | 8,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y19 | 8,2 | 23 | 5 | 15 | M6 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y14 | 8,2 | 28 | 10 | 21 | M6 | Plastic / Plastik | Black / Siyah |
| Y22 | 8,2 | 28 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y23 | 8,2 | 30 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y24 | 10,2 | 23 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y21 | 10,2 | 28 | 5 | 15 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |



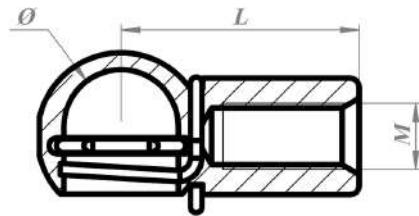
| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|--------|--------|--------|----|------------------------------|-----------------------|
| F23 | 5,1 | 9,5 | 20 | 25,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F01 | 6,2 | 12 | 24 | 30,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F02 | 6,2 | 16 | 28 | 34,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F03 | 6,2 | 20 | 32 | 38,5 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F04 | 6,2 | 23 | 35 | 42 | 6,2 | 12 | 10 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



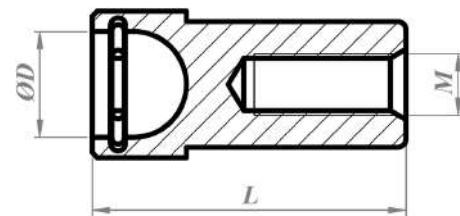
>>> Ayrıntılı bilgi için lütfen sayfa 40' a bakınız.
For detailed recommendations, please see page 40.



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|---------------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

Type-1 / Tip-1

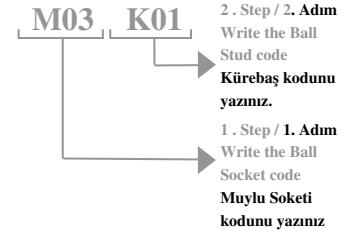
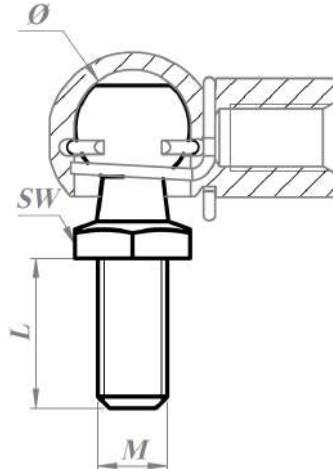
| Code / Kod | Ø (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|----|------------------------------|-----------------------|
| M03 | 10 | 18 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M03B | 10 | 18 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M22 | 10 | 21 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M05 | 10 | 25 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M05B | 10 | 25 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M20 | 10 | 30 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M13B | 10 | 40 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M21 | 10 | 40 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |

Type-2 / Tip-2

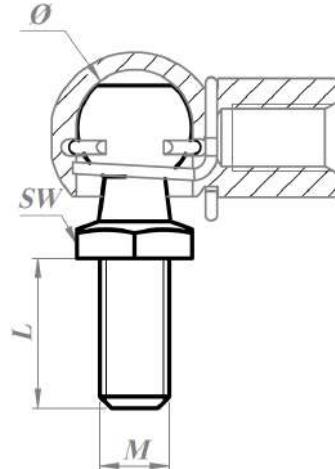
| Code / Kod | Ø (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|----|------------------------------|-----------------------|
| M26B | 10 | 30 | M6 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği



| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| K01 | 10 | 11 | 10 | M6 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K01B | 10 | 11 | 10 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K48B | 10 | 11 | 13 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K34 | 10 | 12.5 | 10 | M6 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K34B | 10 | 12.5 | 10 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K24 | 10 | 13 | 10 | M6 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K24B | 10 | 13 | 10 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K02 | 10 | 15 | 10 | M6 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K02B | 10 | 15 | 10 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K03 | 10 | 20 | 10 | M6 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K03B | 10 | 20 | 10 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K35 | 10 | 28 | 10 | M6 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K35B | 10 | 28 | 10 | M6 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K44 | 10 | 8 | 13 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44B | 10 | 8 | 13 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K04 | 10 | 11 | 10 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



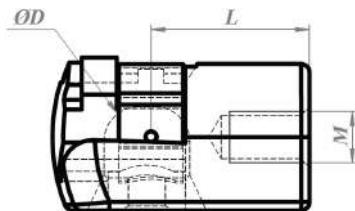
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M03 **K01**

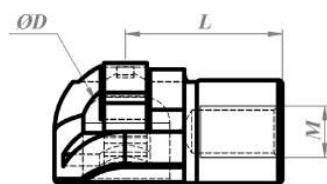
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

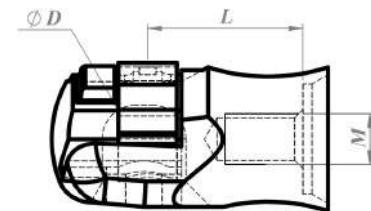
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| K07 | 10 | 11 | 13 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K10 | 10 | 20 | 13 | M8 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K33 | 10 | 25 | 13 | M10 | M03, M22, M05, M20, M21 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K33B | 10 | 25 | 13 | M10 | M03B, M05B, M13B, M26B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

Type-1 / Tip-1

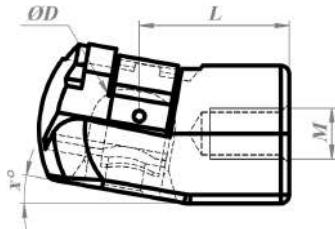
| Code / Kod | ØD (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|----|--------------------|------------------|
| P01 | 10 | 18 | M6 | Plastic / Plastik | Black / Siyah |

Type-2 / Tip-2

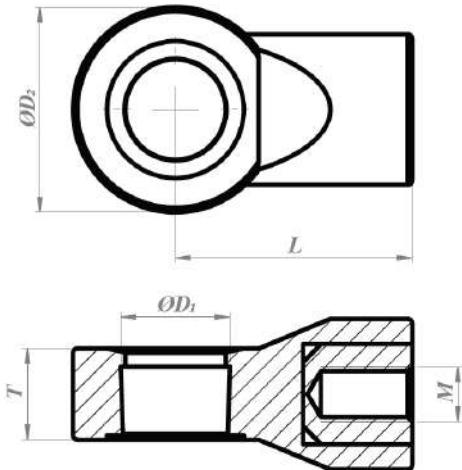
| Code / Kod | ØD (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|----|--------------------|------------------|
| P07 | 10 | 18 | M6 | Plastic / Plastik | Black / Siyah |
| P08 | 10 | 18 | M6 | Plastic / Plastik | Grey / Gri |

Type-3 / Tip-3

| Code / Kod | ØD (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|----|--------------------|------------------|
| P05 | 10 | 18 | M6 | Plastic / Plastik | Black / Siyah |



Type-4 / Tip-4



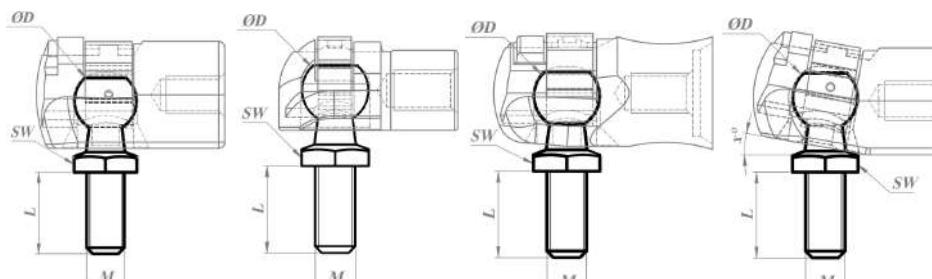
Type-5 / Tip-5

Type-4 / Tip-4

| Code / Kod | ØD (mm) | L (mm) | Angle / Açı (x°) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|------------------|----|--------------------|------------------|
| P03 | 10 | 18 | 10° | M6 | Plastic / Plastik | Black / Siyah |
| P10 | 10 | 18 | 16° | M6 | Plastic / Plastik | Black / Siyah |

Type-5 / Tip-5

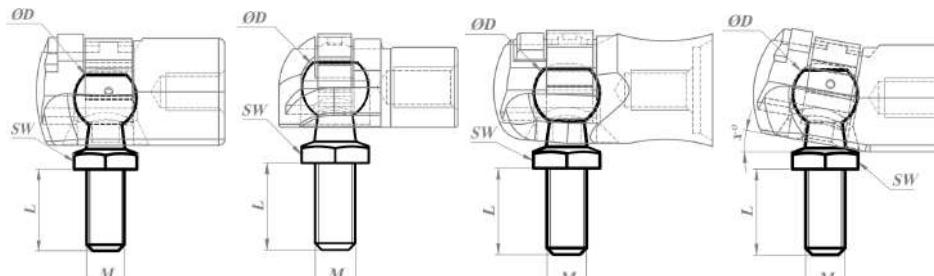
| Code / Kod | ØD ₁ (mm) | ØD ₂ | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|----------------------|-----------------|--------|----|--------------------|------------------|
| P15 | 12 | 22,5 | 26 | M6 | Plastic / Plastik | Black / Siyah |



Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği



| ØD : 10 | | | | | | | |
|----------------|---------|--------|---------|----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K01 | 10 | 11 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K01B | 10 | 11 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K02 | 10 | 15 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K02B | 10 | 15 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K03 | 10 | 20 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K03B | 10 | 20 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K04 | 10 | 11 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1

Type-2 / Tip-2

Type-3 / Tip-3

Type-4 / Tip-4

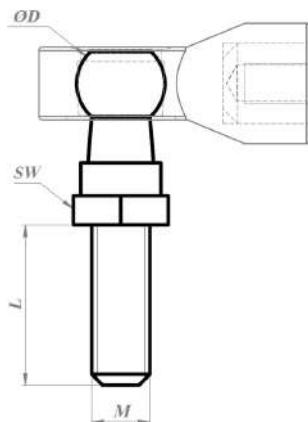
**Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği**

P01 K10

2. Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1. Step / 1. Adım
Write the Ball
Socket code
Muyul Soketi
kodunu yazınız.

| ØD : 10 | | | | | | | |
|-------------------|----------------|---------------|----------------|----------|-----------------------------------------------------|---------------------------|-------------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K10 | 10 | 20 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K24 | 10 | 13 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K24B | 10 | 13 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K34 | 10 | 12.5 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K34B | 10 | 12.5 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K35 | 10 | 28 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K35B | 10 | 28 | 10 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K44 | 10 | 8 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44B | 10 | 8 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K48B | 10 | 11 | 13 | M6 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K49 | 10 | 6 | 13 | M8 | P01, P03, P05, P07, P08, P10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |

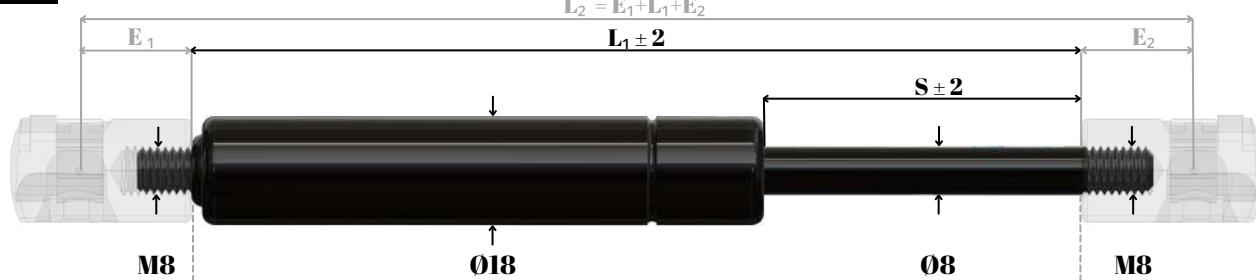


Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği



Type-5 / Tip-5

| ØD : 12 | | | | | | | |
|----------------|---------|--------|---------|----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | ØD (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K46B | 12 | 22 | 13 | M8 | P15 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

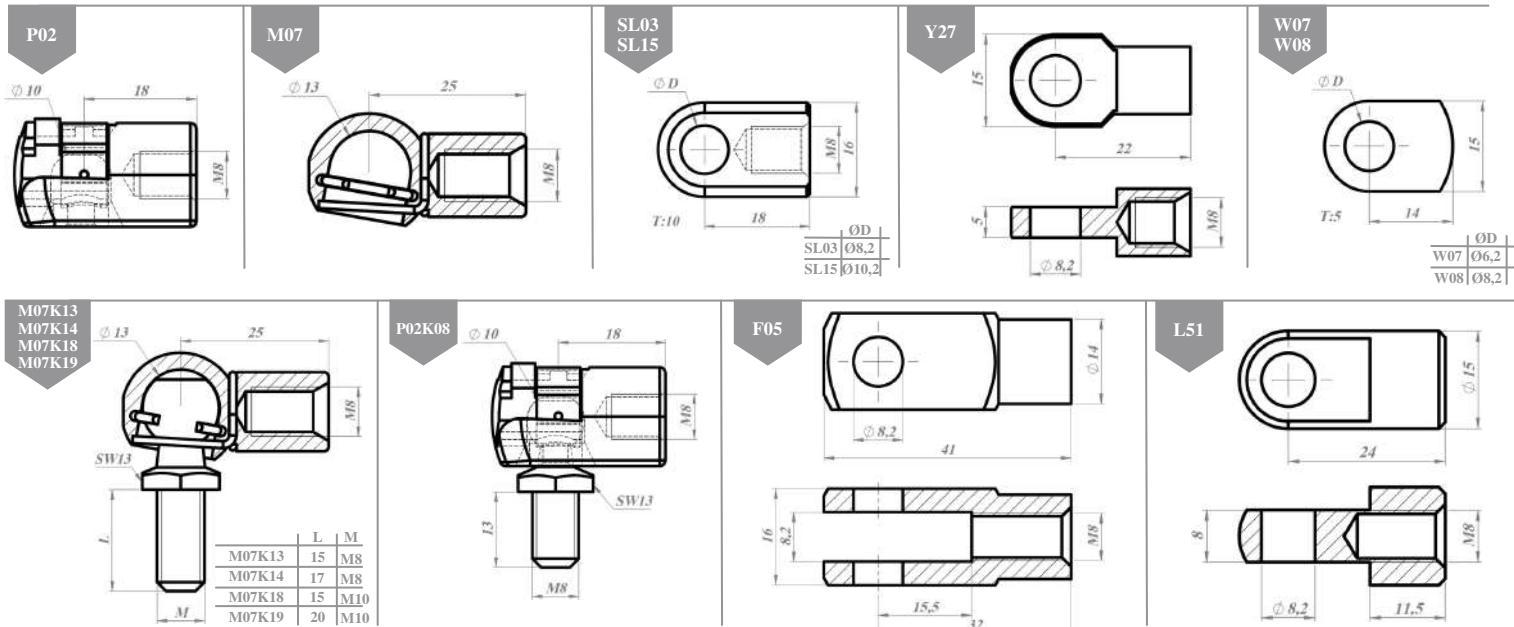


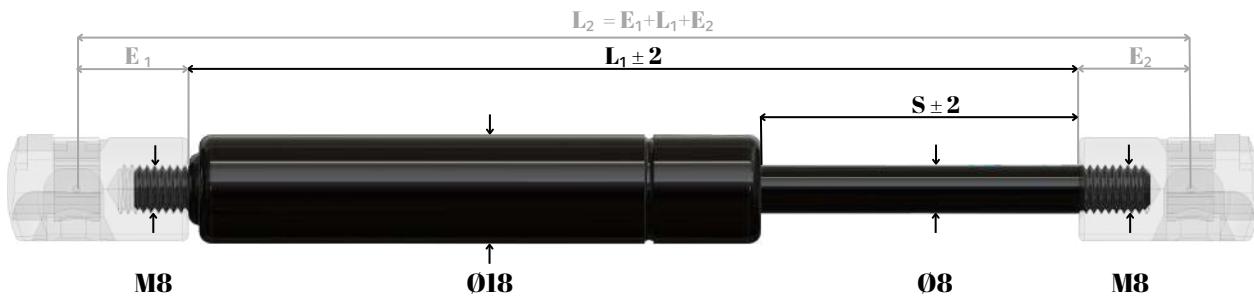
| Stroke / Strok | L ₁ | Pressure / Basınç |
|----------------|----------------|-------------------|
| 20 | 75 | 50N - 600N |
| 30 | 95 | 50N - 600N |
| 40 | 115 | 50N - 600N |
| 50 | 135 | 50N - 600N |
| 60 | 155 | 50N - 650N |
| 70 | 175 | 50N - 650N |
| 80 | 195 | 50N - 700N |
| 90 | 215 | 50N - 700N |
| 100 | 235 | 50N - 700N |
| 120 | 275 | 50N - 650N |
| 140 | 315 | 50N - 650N |
| 150 | 335 | 50N - 650N |
| 175 | 385 | 50N - 600N |
| 200 | 435 | 50N - 600N |
| 225 | 485 | 50N - 550N |
| 250 | 535 | 50N - 500N |
| 275 | 585 | 50N - 500N |
| 300 | 635 | 50N - 450N |
| 350 | 735 | 50N - 400N |
| 400 | 835 | 50N - 400N |
| 425 | 885 | 50N - 400N |



| Ordering Example / Sipariş Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | S ± 2 | L ₂ ± 2 | Pressure / Basınç (N) |
|-----------------------------------|--------------------------|-----------------------------|------------------------------|-------|--------------------|-----------------------|
| G18 | P02K08 | W08 | 20 mm | 107 | 90N | |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçiminizi yapın ve sipariş kodunu oluşturun.
 ! If the product you want to order is not among our standards, please see page 50. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 50' ye bakınız.





| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------|------------|----------------------------------------------------------------------------------|
| | ✓ | ✓ | <u>51</u> |
| | ✓ | ✓ | <u>52</u> |
| | ✓ | ✓ | <u>62</u> |
| | ✓ | ✓ | <u>55</u> |
| | ✓ | ✓ | <u>57</u> |
| | ✓ | ✓ | <u>53</u> |
| | ✓ | ✓ | <u>54</u> |
| | ✓ | ✓ | <u>Plastic / Plastik 63 - 64</u> <u>Steel / Çelik 58 - 61</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | $S \pm 2$ (mm) | $L_1 \pm 2$ (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|----------------------|------------------------|-----------------------|
| G18 | Ø8 | Ø18 | $20 \leq S \leq 425$ | $75 \leq L_1 \leq 885$ | $50 \leq N \leq 700$ |

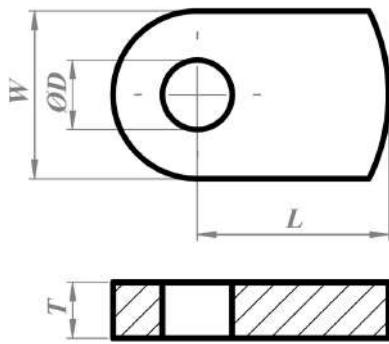
Tablo 1.2

>>> The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan A.Ş. and your local sales partners will be glad to help you find the right products and support you in every way.

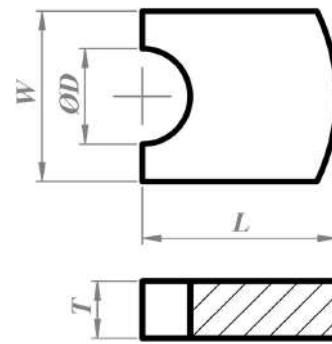
>>> Burada sunulan özel sipariş spesifikasyonu ile standart katalog ölçülerine bağlı kalmadan talebiniz doğrultusunda ürün kodu oluşturarak sipariş verebilirsiniz. Tablo 1.2' de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz. Ayrıca Manksan Tic. A.Ş. çalışanları ve yerel satış partnerlerimiz size doğru ürünü seçmenizde yardımcı olacaktır.

| Body Group / Gövde Grubu | Rod Connection / Mil Bağlantı | Tube Connection / Tüp Bağlantı | Stroke / Strok | L_2 | Pressure / Basınç |
|--------------------------|-------------------------------|--------------------------------|----------------|-------------------------------|-------------------|
| | | | | L_1 + E_1 + E_2 | |
| G18 | | | | | |

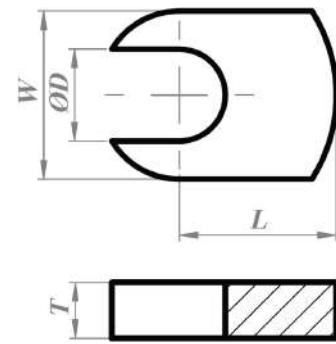
Tablo 1.3



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

Type-1 / Tip-1

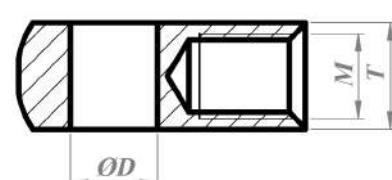
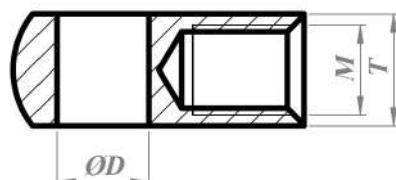
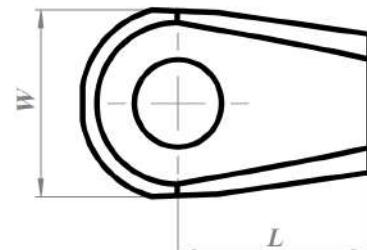
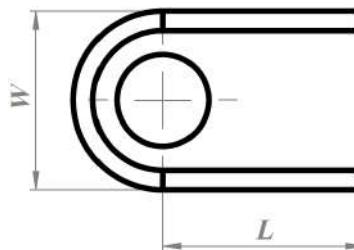
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W05 | 6,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W07 | 6,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W09 | 6,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W12 | 6,2 | 21 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W06 | 8,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W08 | 8,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W10 | 8,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W13 | 8,2 | 20 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

Type-2 / Tip-2

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W27 | 8,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

Type-3 / Tip-3

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W32 | 8,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |



Type-1 / Tip-1

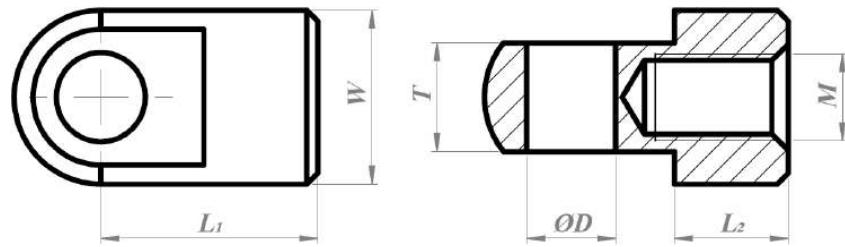
Type-2 / Tip-2

Type-1 / Tip-1

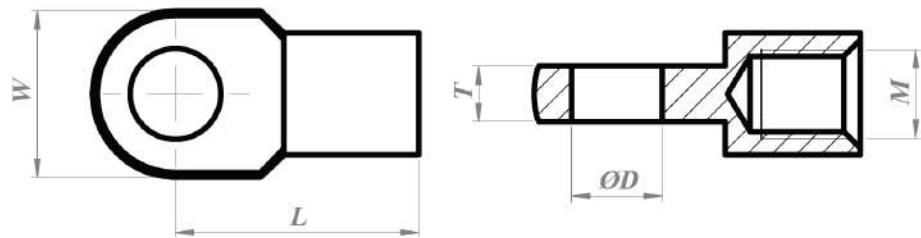
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| AL09 | 8,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| AL11 | 8,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| AL10 | 10,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| AL12 | 10,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL16 | 8,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL03 | 8,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL22 | 8,2 | 18 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL05 | 8,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL06 | 8,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL14 | 10,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL15 | 10,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL18 | 10,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL20 | 10,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL19 | 10,2 | 29 | 12 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

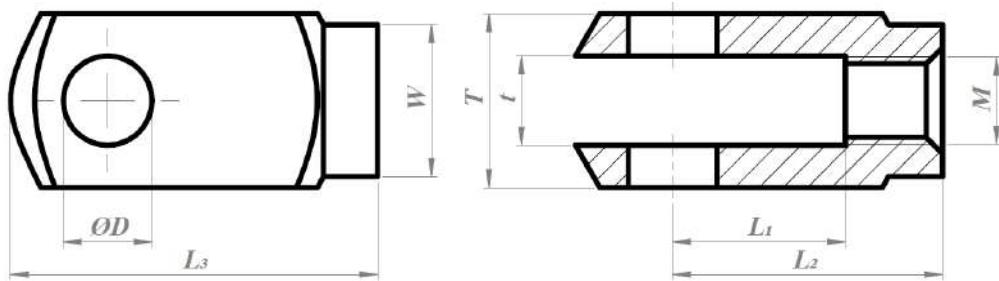
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|--------------------|------------------|
| AL07 | 8,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |
| AL08 | 10,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|--------|--------|----|------------------------------|-----------------------|
| AL50 | 8,2 | 20 | 10,5 | 10 | 16 | M8 | 2011 AL | White / Beyaz |
| L51 | 8,2 | 24 | 11,5 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L52 | 8,2 | 28 | 16 | 8,5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L56 | 10,2 | 24 | 8 | 9 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L59 | 10,2 | 35 | 18,5 | 10 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



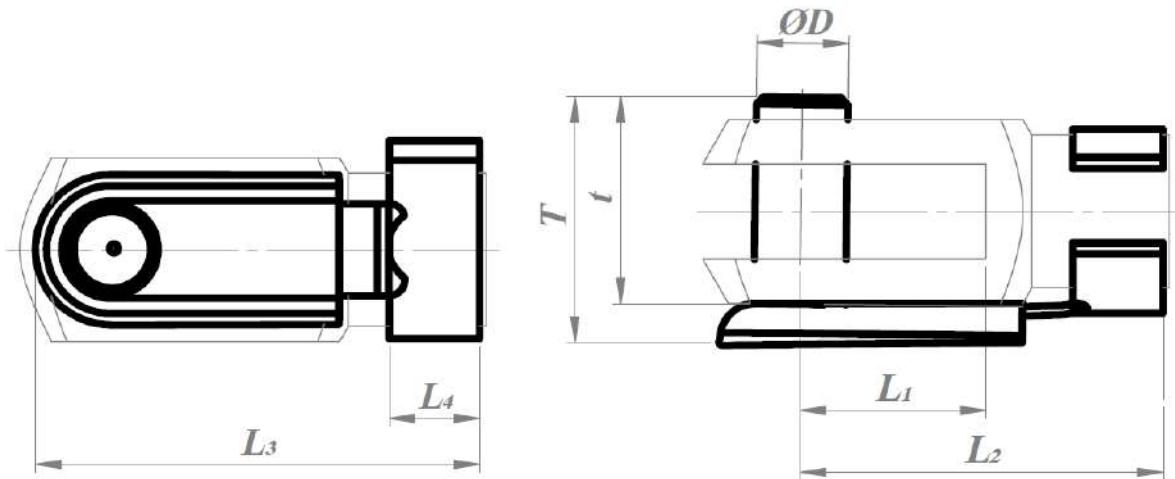
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| Y05 | 6,2 | 28 | 5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y27 | 8,2 | 22 | 5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y16 | 8,2 | 23 | 5 | 15 | M8 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y06 | 8,2 | 28 | 5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y12 | 8,2 | 28 | 5 | 16 | M8 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y08 | 8,2 | 28 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y13 | 10,2 | 28 | 5 | 18 | M8 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y09 | 10,2 | 28 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



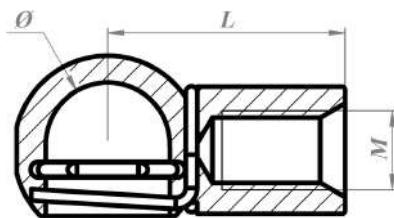
| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|--------|--------|--------|----|------------------------------|-----------------------|
| F21 | 8,2 | 16 | 25 | 34 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F05 | 8,2 | 15,5 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F07 | 8,2 | 24 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F08 | 8,2 | 27 | 35 | 44 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F11 | 8,2 | 20 | 40 | 51 | 10,5 | 20 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F06 | 10,2 | 14,7 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F18 | 12,2 | 20 | 40 | 52 | 20 | 20 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



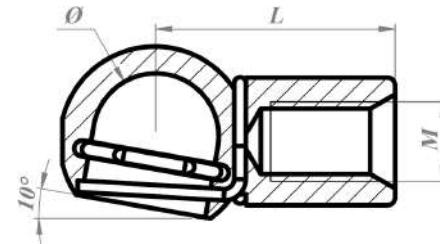
>>> Ayrıntılı bilgi için lütfen sayfa 56' ya bakınız.
For detailed recommendations, please see page 56.



| Code / Kod | $\text{\O}D$ (mm) | L_1 (mm) | L_2 (mm) | L_3 (mm) | L_4 (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|-------------------|------------|------------|------------|------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



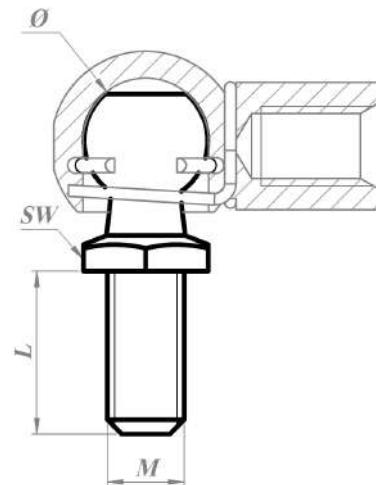
Type-2 / Tip-2

Type-1 / Tip-1

| Code / Kod | Ø (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|----|------------------------------|-----------------------|
| M04 | 10 | 19 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M04B | 10 | 19 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M12 | 10 | 22 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M12B | 10 | 22 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M06 | 10 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M06B | 10 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M25 | 10 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M27B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M28B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

| Code / Kod | Ø (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|----|------------------------------|-----------------------|
| M07 | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M07B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M08 | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M08B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M15 | 13 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M15B | 13 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği

M04 K49

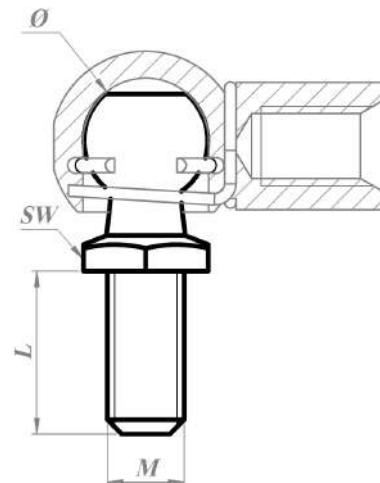
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

Ø : 10

Type-1 / Tip-1

| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| K49 | 10 | 6 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44 | 10 | 8 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44B | 10 | 8 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K04 | 10 | 11 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği

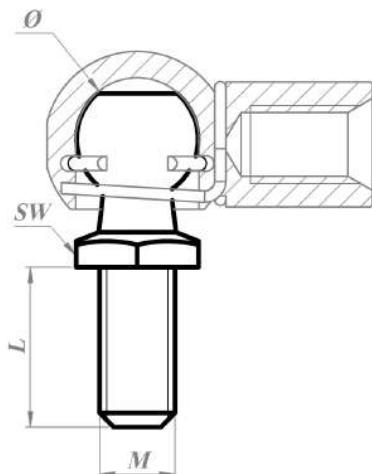
M04 K10

2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

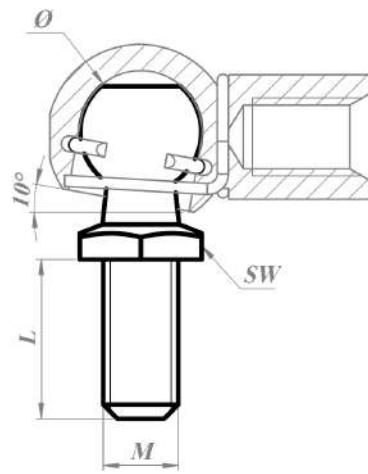
1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

Type-1 / Tip-1

| Ø : 10 | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K10 | 10 | 20 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K33 | 10 | 25 | 13 | M10 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K33B | 10 | 25 | 13 | M10 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M07 K11

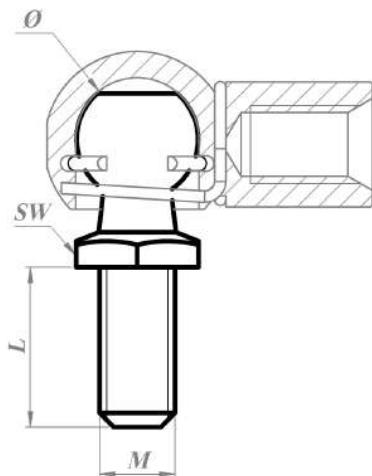
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

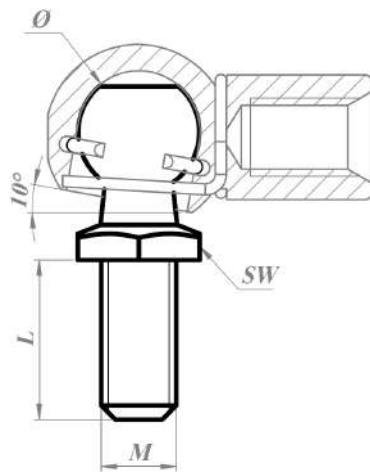
| Ø : 13 | | | | | | | |
|---------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K11 | 13 | 8 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K11B | 13 | 8 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K12 | 13 | 12 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K12B | 13 | 12 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K13 | 13 | 15 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K13B | 13 | 15 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K14 | 13 | 17 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K14B | 13 | 17 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K15 | 13 | 20 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K15B | 13 | 20 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K16 | 13 | 22 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K16B | 13 | 22 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K17 | 13 | 25 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K17B | 13 | 25 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K36 | 13 | 35 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K36B | 13 | 35 | 13 | M8 | M07B, M08B, M15B,M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



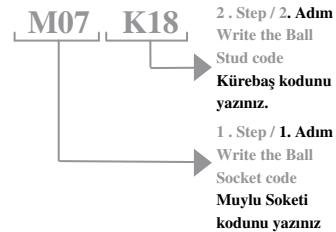
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği



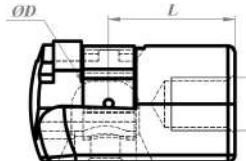
Type-1 / Tip-1



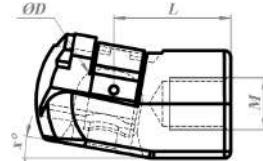
Type-2 / Tip-2



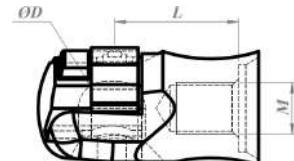
| Ø : 13 | | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|--|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama | |
| K18 | 13 | 15 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K18B | 13 | 15 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K38 | 13 | 20 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K38B | 13 | 20 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K25 | 13 | 22 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K25B | 13 | 22 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K20 | 13 | 25 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K20B | 13 | 25 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K21 | 13 | 30 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K21B | 13 | 30 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |



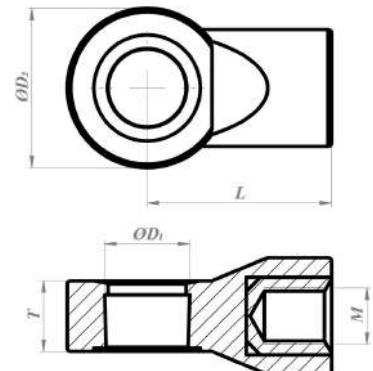
Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3



Type-4 / Tip-4

Type-1 / Tip-1

| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P02 | 10 | 18 | M8 | Plastic / Plastik | Black / Siyah |

Type-2 / Tip-2

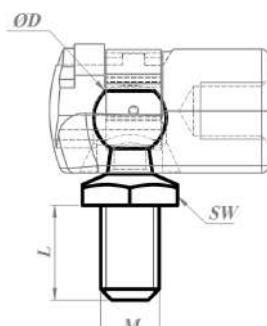
| Code / Kod | \varnothing (mm) | L (mm) | Angle / Açı (x°) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|------------------|----|--------------------|------------------|
| P04 | 10 | 18 | 10° | M8 | Plastic / Plastik | Black / Siyah |

Type-3 / Tip-3

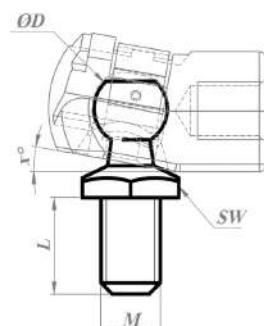
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P06 | 10 | 18 | M8 | Plastic / Plastik | Black / Siyah |

Type-4 / Tip-4

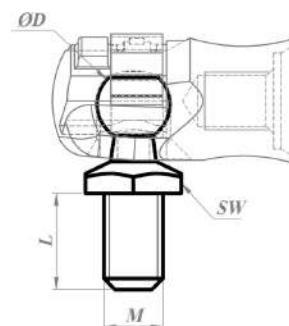
| Code / Kod | $\varnothing D_1$ (mm) | $\varnothing D_2$ (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|------------------------|------------------------|--------|----|--------------------|------------------|
| P16 | 12 | 22,5 | 26 | M8 | Plastic / Plastik | Black / Siyah |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

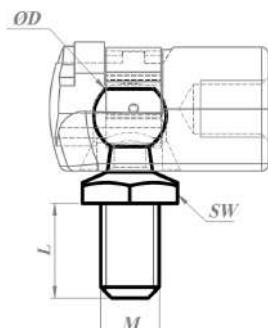
Ball Joint (Plastic) Ordering Example / Mafsal (Plastik) Sipariş Örneği

P02 K49

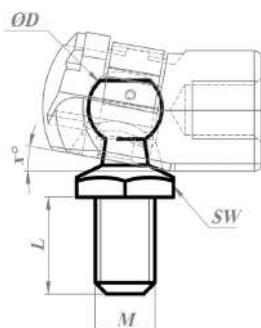
2 . Step / 2. Adım
Write the Ball Stud code
Kürebaş kodunu yazınız.

1 . Step / 1. Adım
Write the Ball Socket code
Muylu Soketi kodunu yazınız.

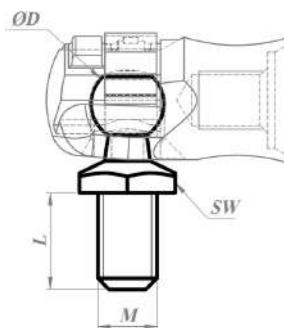
| ØD : 10 | | | | | | | |
|----------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K49 | 10 | 6 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44 | 10 | 8 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K44B | 10 | 8 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K04 | 10 | 11 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07B | 10 | 11 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

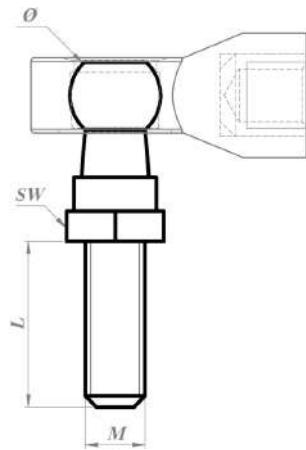
Ball Joint (Plastic) Ordering Example / Mafsal (Plastik) Sipariş Örneği

P02 K10

2 . Step / 2. Adım
Write the Ball Stud code
Kürebaş kodunu yazınız.

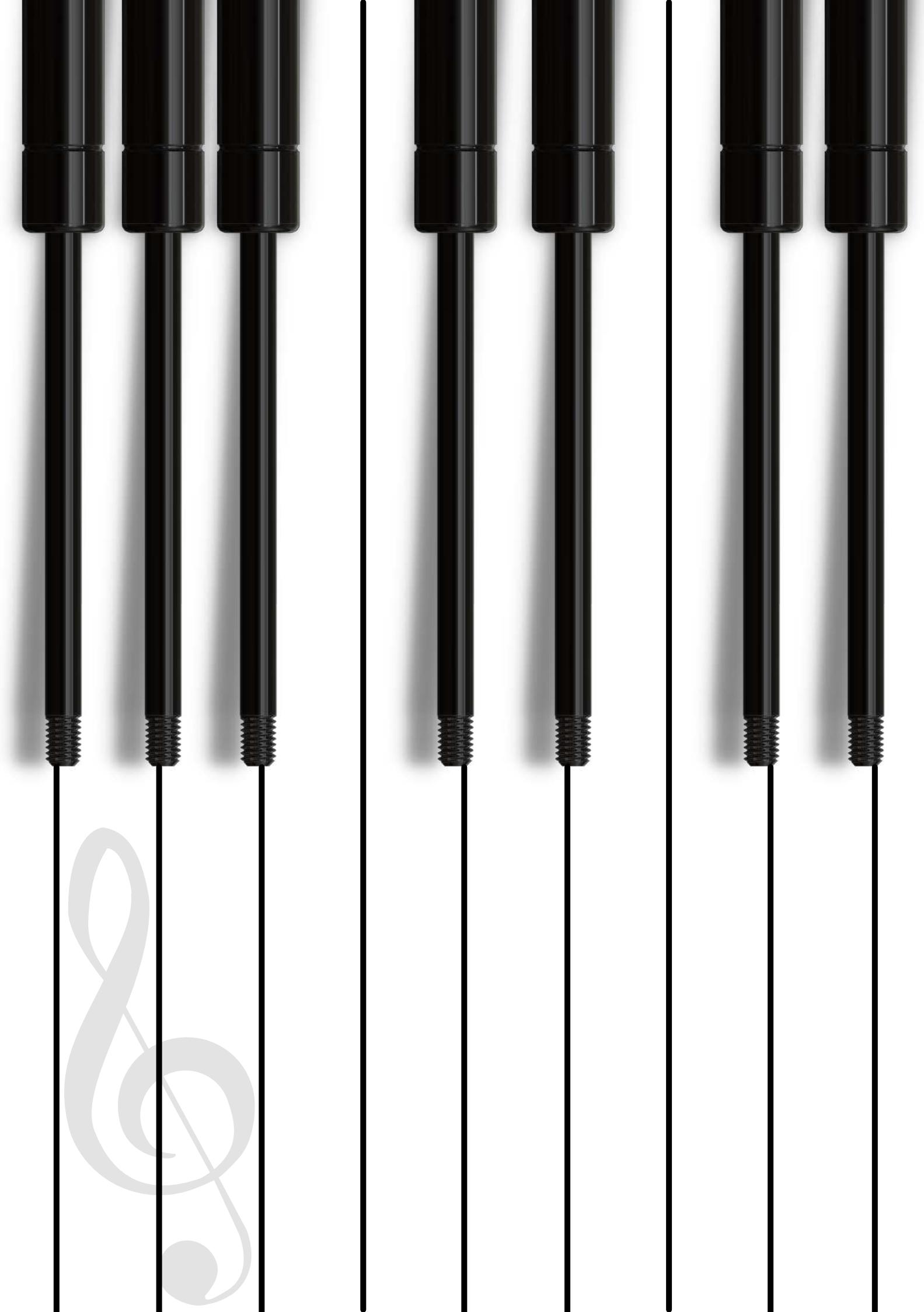
1 . Step / 1. Adım
Write the Ball Socket code
Muylu Soketi kodunu yazınız

| ØD : 10 | | | | | | | |
|----------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K10 | 10 | 20 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K33 | 10 | 25 | 13 | M10 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K33B | 10 | 25 | 13 | M10 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

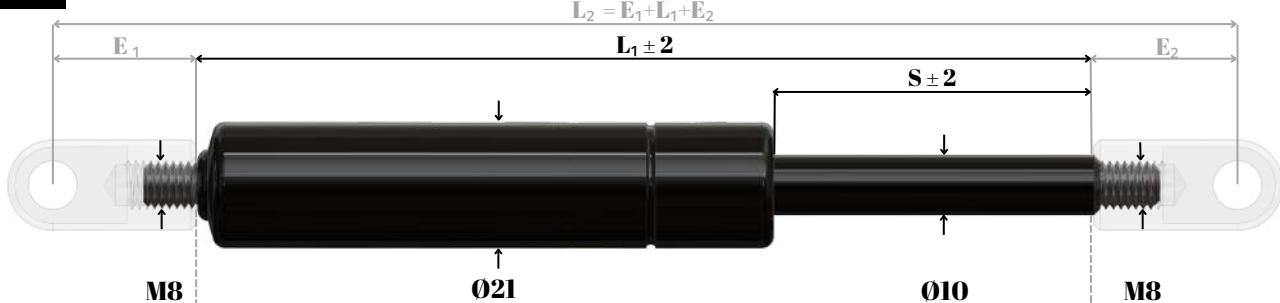


Type-4 / Tip-4

| ØD : 12 | | | | | | | |
|----------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K46B | 12 | 22 | 13 | M8 | P16 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |





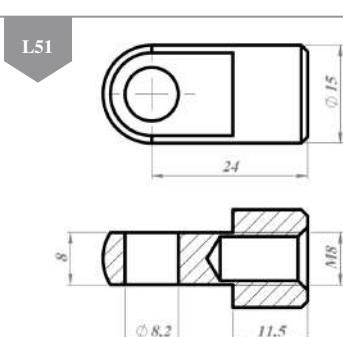
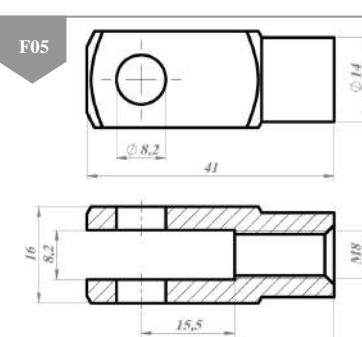
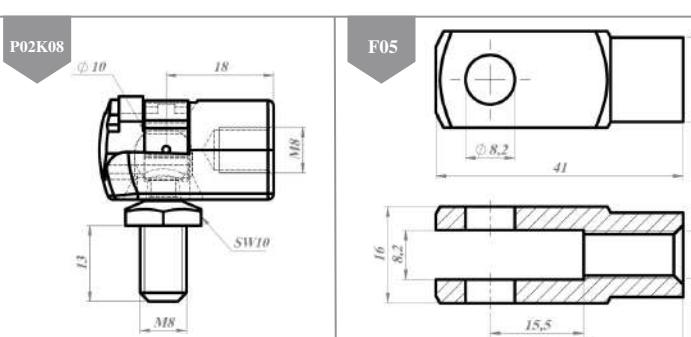
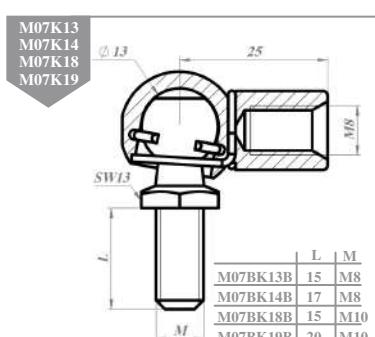
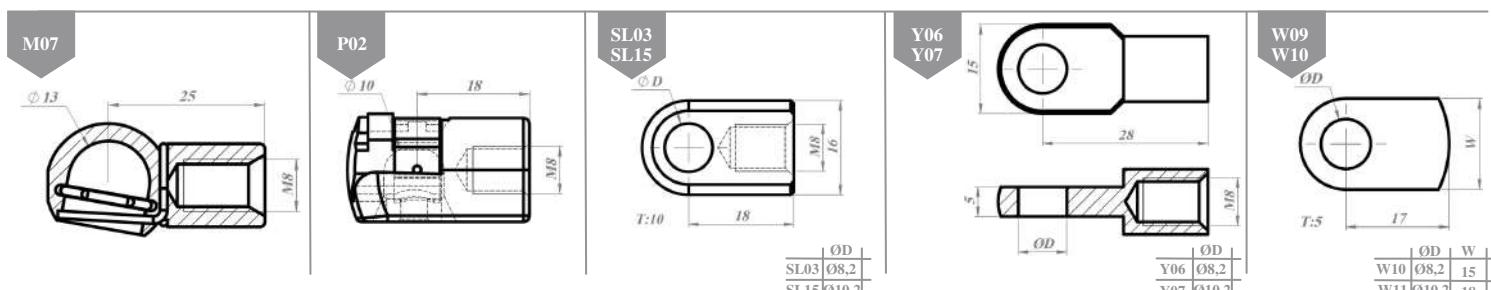


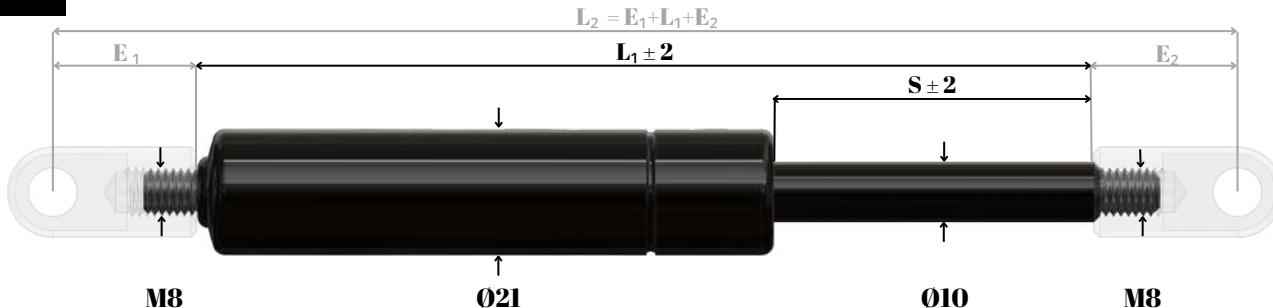
| Stroke / Strok | L ₁ | Pressure / Basınç |
|----------------|----------------|-------------------|
| 30 | 95 | 50N - 800N |
| 50 | 135 | 50N - 800N |
| 70 | 175 | 50N - 1000N |
| 80 | 195 | 50N - 1000N |
| 90 | 215 | 50N - 1100N |
| 100 | 235 | 50N - 1100N |
| 110 | 255 | 50N - 1200N |
| 120 | 275 | 50N - 1200N |
| 130 | 295 | 50N - 1200N |
| 150 | 335 | 50N - 1200N |
| 175 | 385 | 50N - 1000N |
| 200 | 435 | 50N - 1000N |
| 250 | 535 | 50N - 1000N |
| 300 | 655 | 50N - 1000N |
| 350 | 755 | 50N - 1000N |
| 400 | 855 | 50N - 1000N |
| 450 | 955 | 50N - 900N |
| 500 | 1055 | 50N - 800N |
| 550 | 1155 | 50N - 800N |



| Ordering Example / Sipariş Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | S ± 2 | L ₂ ± 2 | Pressure / Basınç (N) |
|-----------------------------------|--------------------------|-----------------------------|------------------------------|--------|--------------------|-----------------------|
| G21 | M07K14 | W10 | 30 mm | 137 mm | 90N | |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçiminizi yapın ve sipariş kodunu oluşturun.
! If the product you want to order is not among our standards, please see page 68. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 68' e bakınız.





| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------|------------|------------------------------------------------------------------|
| | ✓ | ✓ | <u>69</u> |
| | ✓ | ✓ | <u>70</u> |
| | ✓ | ✓ | <u>80</u> |
| | ✓ | ✓ | <u>73</u> |
| | ✓ | ✓ | <u>72</u> |
| | ✓ | ✓ | <u>75</u> |
| | ✓ | ✓ | <u>71</u> |
| | ✓ | ✓ | <u>Steel / Çelik 76 - 79</u> <u>Plastic / Plastik 81 - 82</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | S ± 2 (mm) | L1 ± 2 (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|--------------|----------------|-----------------------|
| G21 | Ø10 | Ø21 | 30 ≤ S ≤ 550 | 95 ≤ L1 ≤ 1155 | 50 ≤ N ≤ 1200 |

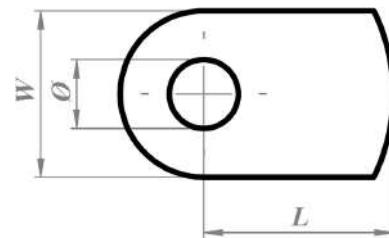
Tablo 1.2

The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan A.Ş. and your local sales partners will be glad to help you find the right products and support you in every way.

Burada sunulan özel sipariş spesifikasyonu ile standart katalog ölçülerine bağlı kalmadan talebiniz doğrultusunda ürün kodu oluşturarak sipariş verebilirsiniz. Tablo 1.2'de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz. Ayrıca Manksan Tic. A.Ş. çalışanları ve yerel satış partnerlerimiz size doğru ürünü seçmenizde yardımcı olacaktır.

| Body Group Gövde Grubu | Rod Connection Mil Bağlantı | Tube Connection Tüp Bağlantı | Stroke / Strok | L ₂ | Pressure / Basınç |
|---------------------------|--------------------------------|---------------------------------|----------------|------------------------------------------------------|-------------------|
| | | | | L ₁ + E ₁ + E ₂ | |
| G21 | | | | | |

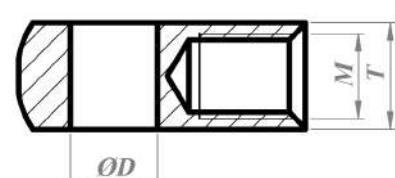
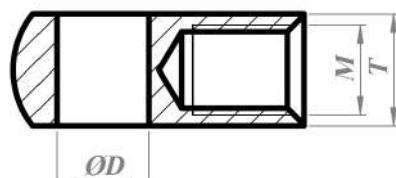
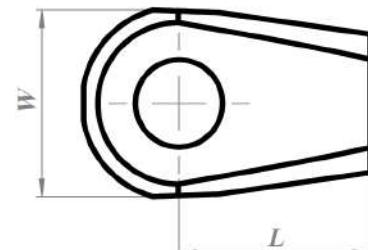
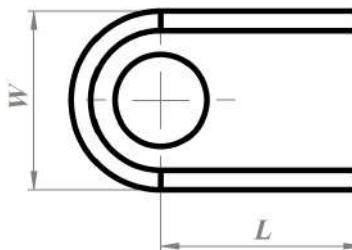
Tablo 1.3



Type-1 / Tip-1

Type-1 / Tip-1

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W07 | 6,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W09 | 6,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W06 | 8,2 | 10 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W08 | 8,2 | 14 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W14 | 8,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W16 | 8,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W10 | 8,2 | 17 | 5 | 15 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W15 | 10,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W17 | 10,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W11 | 10,2 | 17 | 5 | 18 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |



Type-1 / Tip-1

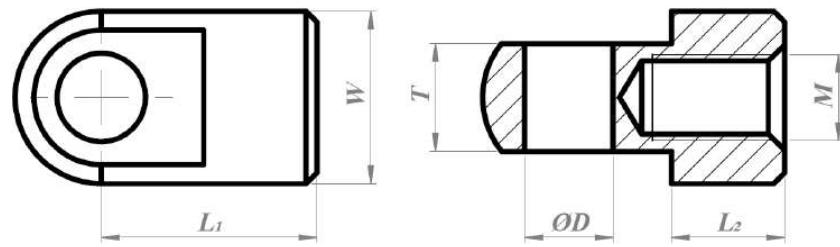
Type-2 / Tip-2

Type-1 / Tip-1

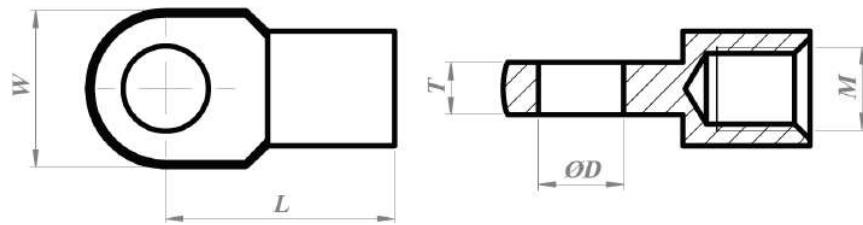
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| AL09 | 8,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| AL10 | 10,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| AL11 | 8,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| AL12 | 10,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL03 | 8,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL05 | 8,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL06 | 8,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL14 | 10,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL15 | 10,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL16 | 8,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL18 | 10,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL19 | 10,2 | 29 | 12 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL20 | 10,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL22 | 8,2 | 18 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

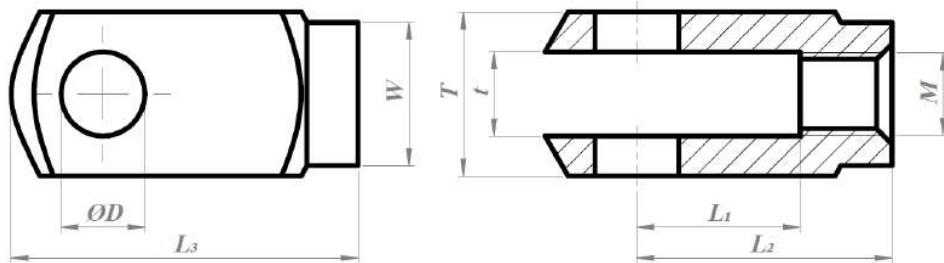
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|--------------------|------------------|
| AL07 | 8,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |
| AL08 | 10,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|--------|--------|----|------------------------------|-----------------------|
| L51 | 8,2 | 24 | 11,5 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L52 | 8,2 | 28 | 16 | 8,5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L56 | 10,2 | 24 | 8 | 9 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L59 | 10,2 | 35 | 18,5 | 10 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



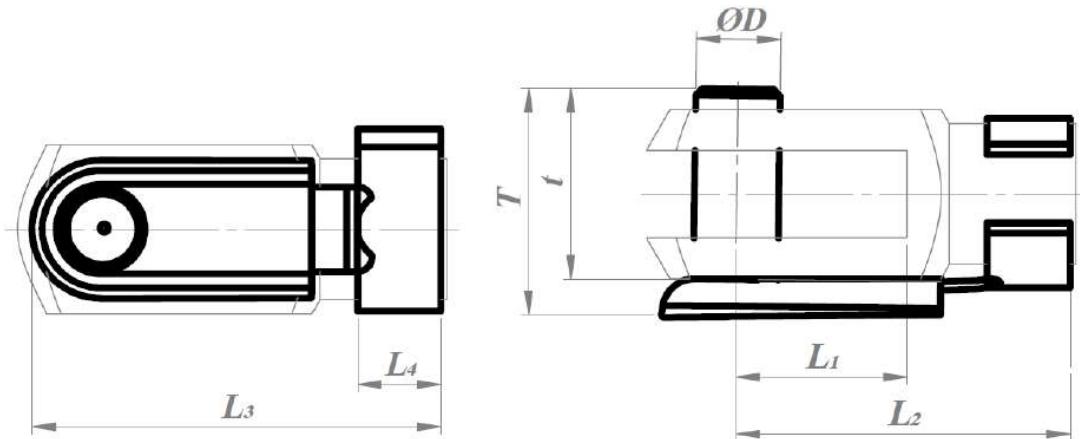
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| Y05 | 6,2 | 28 | 5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y27 | 8,2 | 22 | 5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| Y06 | 8,2 | 28 | 5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y12 | 8,2 | 28 | 5 | 16 | M8 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y08 | 8,2 | 28 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y10 | 8,2 | 28 | 10 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y09 | 10,2 | 28 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y11 | 10,2 | 28 | 10 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| Y13 | 10,2 | 28 | 5 | 18 | M8 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| Y18 | 13 | 30 | 4,4 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



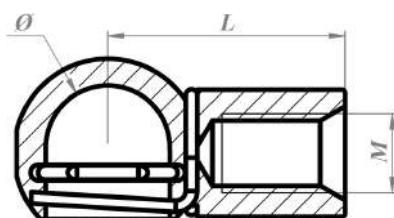
| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|--------|--------|--------|----|------------------------------|-----------------------|
| F21 | 8,2 | 16 | 25 | 34 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F05 | 8,2 | 15,5 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F07 | 8,2 | 24 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F08 | 8,2 | 27 | 35 | 44 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F11 | 8,2 | 20 | 40 | 51 | 10,5 | 20 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F06 | 10,2 | 14,7 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F18 | 12,2 | 20 | 40 | 52 | 20 | 20 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



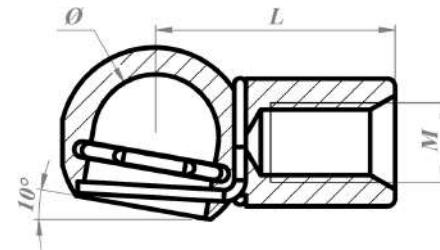
>>> Ayrıntılı bilgi için lütfen sayfa 74' e bakınız.
For detailed recommendations, please see page 74.



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|---------------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



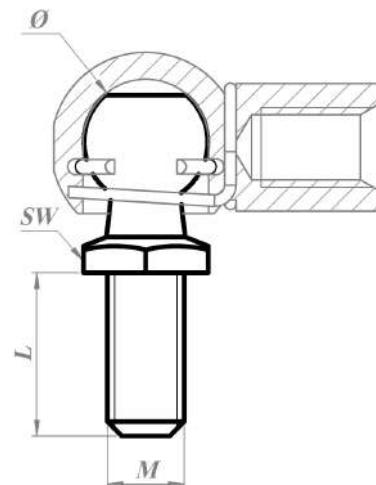
Type-2 / Tip-2

Type-1 / Tip-1

| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M04 | 10 | 19 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M04B | 10 | 19 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M06 | 10 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M06B | 10 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M12 | 10 | 22 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M12B | 10 | 22 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M25 | 10 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M27B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M28B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M07 | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M07B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M08 | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M08B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M15 | 13 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M15B | 13 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

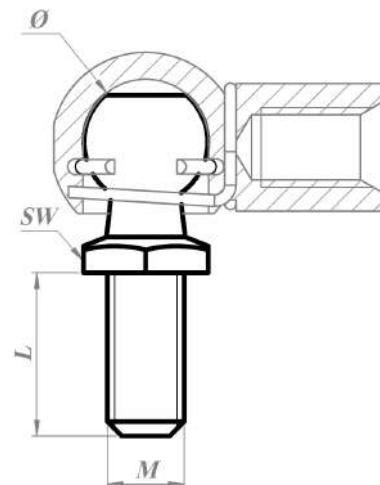
M04 K04

2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

Type-1 / Tip-1

| Ø : 10 | | | | | | | |
|---------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K04 | 10 | 11 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

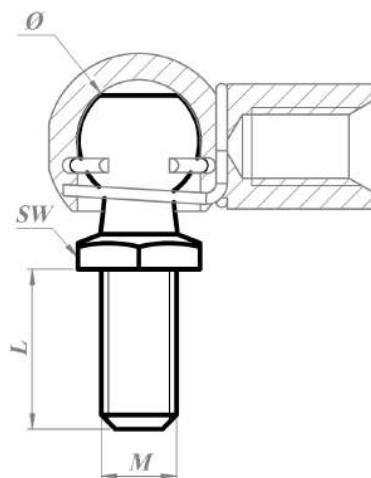
M04 K10

2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

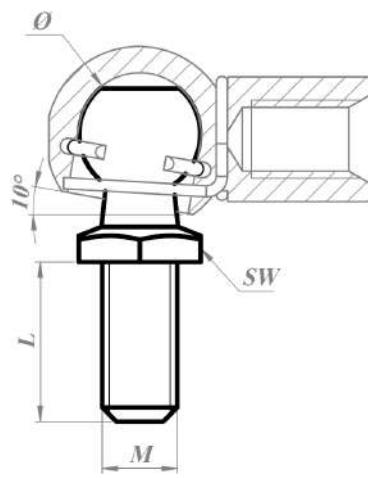
1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

Type-1 / Tip-1

| Ø : 10 | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K10 | 10 | 20 | 13 | M8 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K33 | 10 | 25 | 13 | M10 | M04, M06, M12, M25 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K33B | 10 | 25 | 13 | M10 | M04B, M06B, M12B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

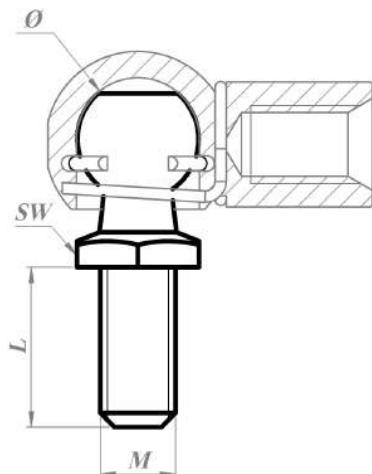
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M04 K04

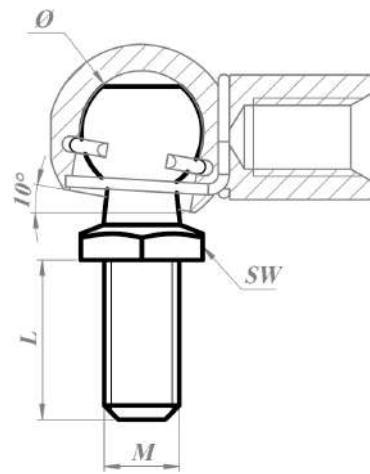
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

| Ø : 13 | | | | | | | |
|---------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K11 | 13 | 8 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K11B | 13 | 8 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K12 | 13 | 12 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K12B | 13 | 12 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K13 | 13 | 15 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K13B | 13 | 15 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K14 | 13 | 17 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K14B | 13 | 17 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K15 | 13 | 20 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K15B | 13 | 20 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K16 | 13 | 22 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K16B | 13 | 22 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K17 | 13 | 25 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K17B | 13 | 25 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K36 | 13 | 35 | 13 | M8 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K36B | 13 | 35 | 13 | M8 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

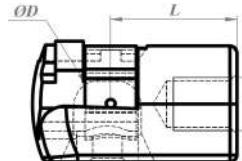
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M07 K18

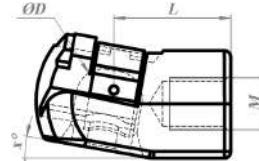
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

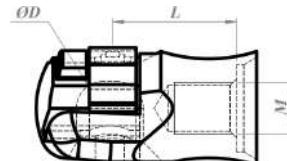
| Ø : 13 | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K18 | 13 | 15 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K18B | 13 | 15 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K19 | 13 | 20 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K19B | 13 | 20 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K38 | 13 | 20 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K38B | 13 | 20 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K25 | 13 | 22 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K25B | 13 | 22 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K20 | 13 | 25 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K20B | 13 | 25 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K21 | 13 | 30 | 13 | M10 | M07, M08, M15 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K21B | 13 | 30 | 13 | M10 | M07B, M08B, M15B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



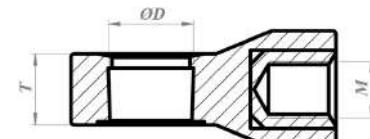
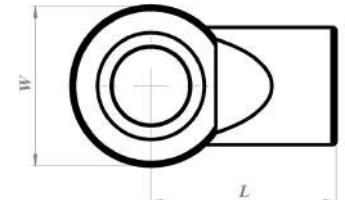
Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3



Type-4 / Tip-4

Type-1 / Tip-1

| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P02 | 10 | 18 | M8 | Plastic / Plastik | Black / Siyah |

Type-2 / Tip-2

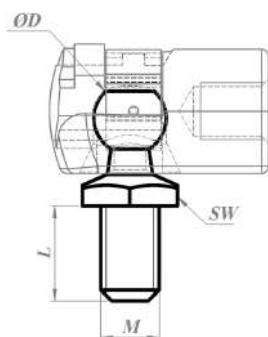
| Code / Kod | \varnothing (mm) | L (mm) | Angle / Açı (x°) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|------------------|----|--------------------|------------------|
| P04 | 10 | 18 | 10° | M8 | Plastic / Plastik | Black / Siyah |

Type-3 / Tip-3

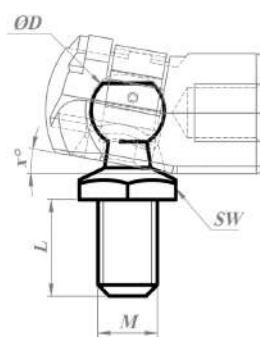
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P06 | 10 | 18 | M8 | Plastic / Plastik | Black / Siyah |

Type-4 / Tip-4

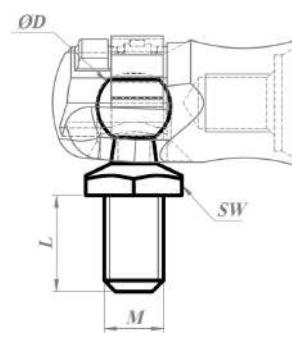
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P16 | 12 | 26 | M8 | Plastic / Plastik | Black / Siyah |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

Ball Joint (Plastic) Ordering Example / Mafsal (Plastik) Sipariş Örneği

P02 K04

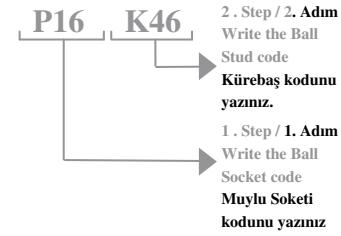
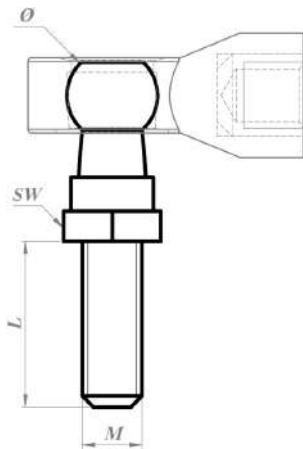
2 . Step / 2. Adam
Write the Ball Stud code
Kürebaş kodunu yazınız.

1 . Step / 1. Adam
Write the Ball Socket code
Muylu Soketi kodunu yazınız

| $\varnothing : 10$ | | | | | | | |
|--------------------------------------|--------------------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | \varnothing (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K04 | 10 | 11 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K10 | 10 | 20 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K33 | 10 | 25 | 13 | M10 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K33B | 10 | 25 | 13 | M10 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

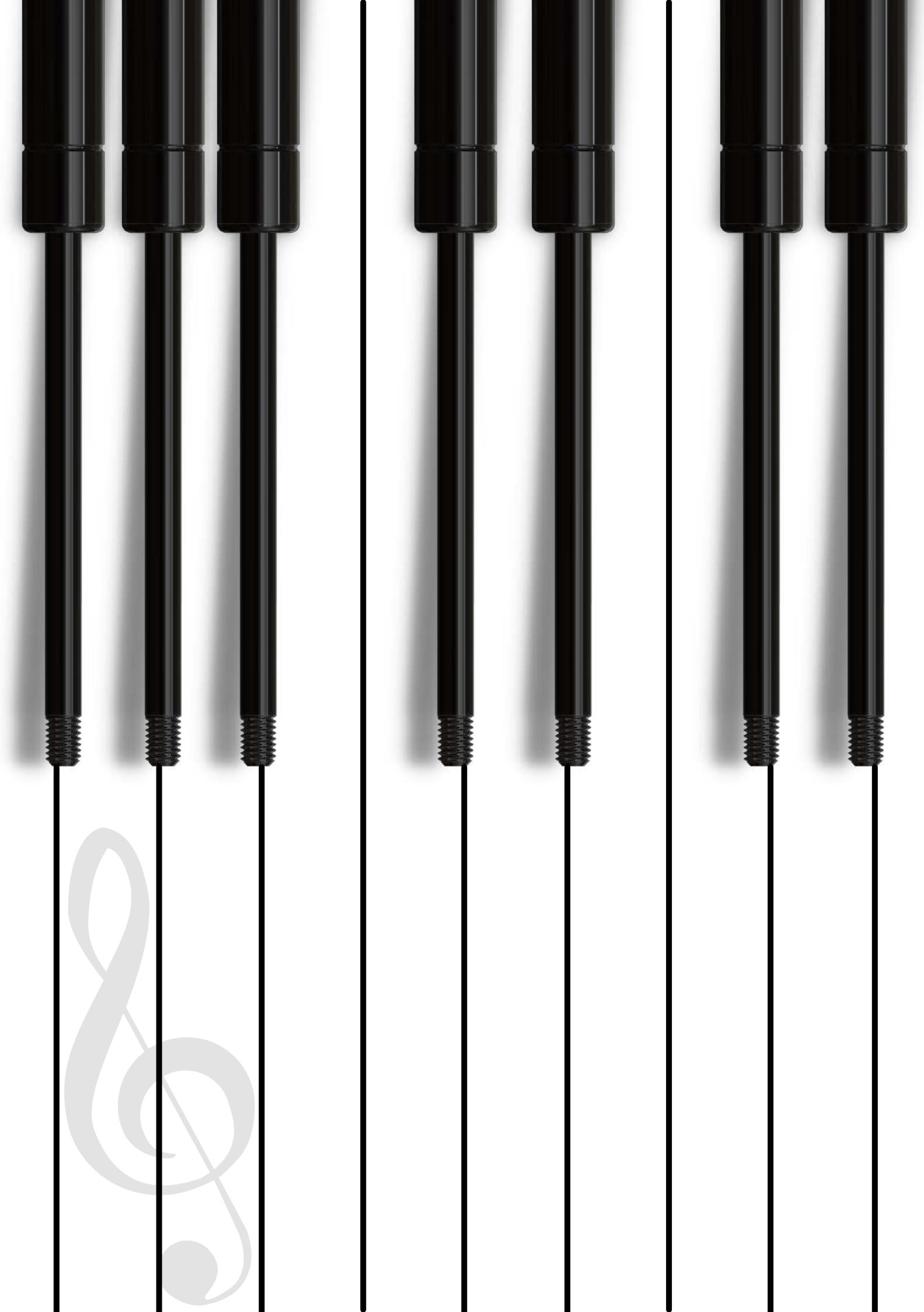


Ball Joint (Plastic) / Mafsal (Plastik)
Ordering Example / Sipariş Örneği



Type-4 / Tip-4

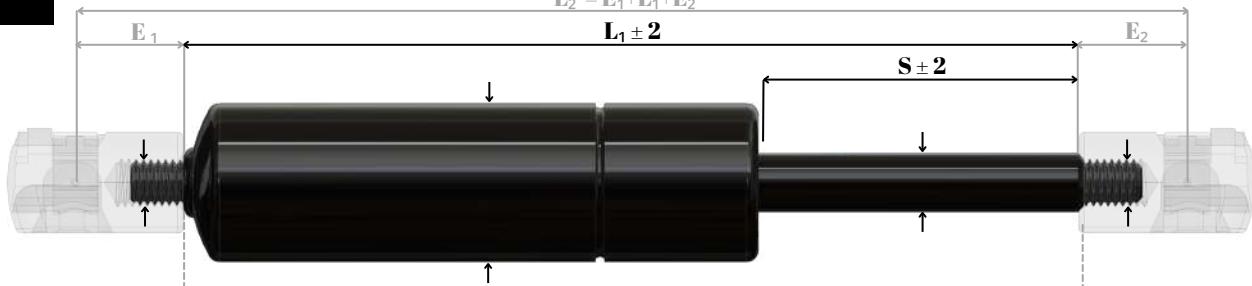
| ØD : 12 | | | | | | | |
|----------------|--------|--------|---------|----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K46 | 12 | 22 | 13 | M8 | P16 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |





G26

STANDARD



M8

Ø27

Ø10

M8



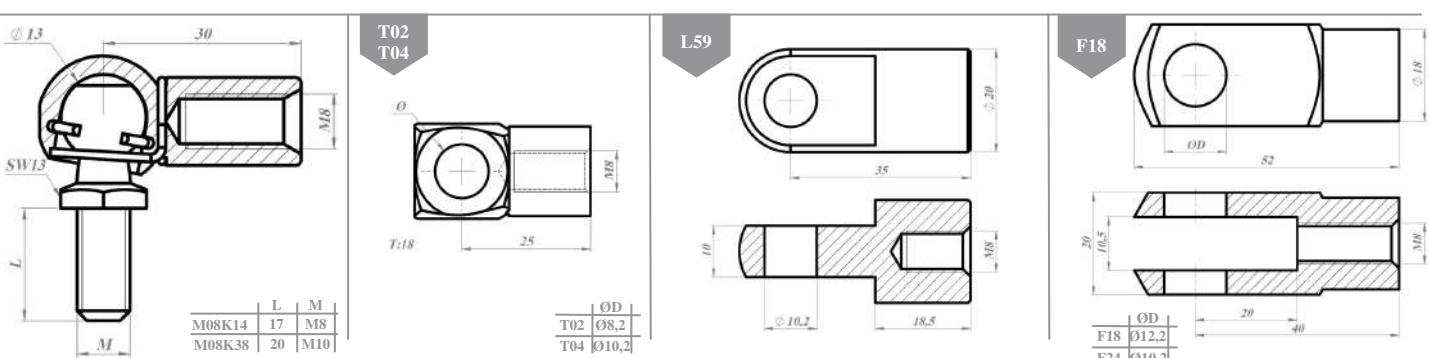
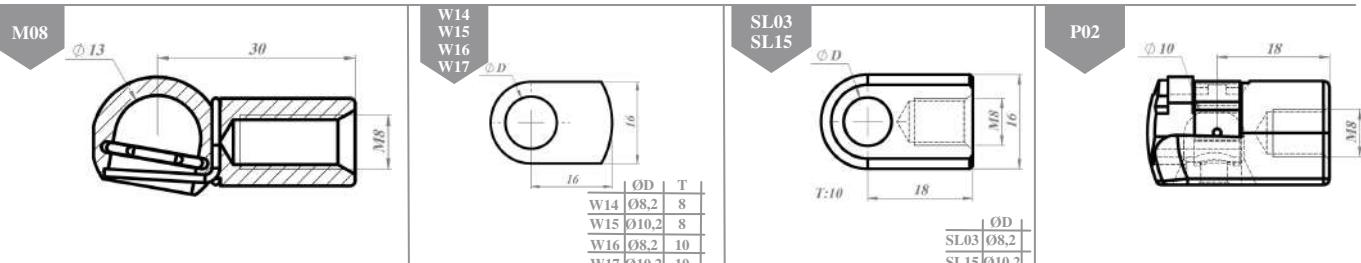
| Stroke / Strok | L1 | Pressure / Basınç |
|----------------|------|-------------------|
| 50 | 150 | 100N - 1300N |
| 75 | 200 | 100N - 1300N |
| 100 | 250 | 100N - 1300N |
| 125 | 300 | 100N - 1300N |
| 150 | 350 | 100N - 1300N |
| 175 | 400 | 100N - 1300N |
| 200 | 450 | 100N - 1300N |
| 250 | 550 | 100N - 1300N |
| 300 | 650 | 100N - 1300N |
| 350 | 750 | 100N - 1200N |
| 400 | 850 | 100N - 1200N |
| 450 | 950 | 100N - 1200N |
| 500 | 1050 | 100N - 1000N |
| 550 | 1150 | 100N - 1000N |
| 600 | 1250 | 100N - 800N |
| 650 | 1350 | 100N - 800N |
| 700 | 1450 | 100N - 500N |
| 800 | 1650 | 100N - 500N |

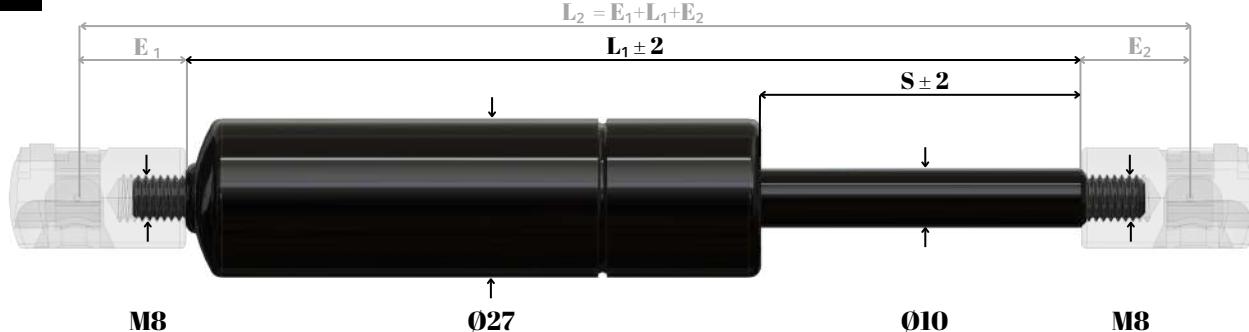


| Ordering Example / Sipariş Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | S ± 2 | L ₂ ± 2 | Pressure / Basınç (N) |
|-----------------------------------|--------------------------|-----------------------------|------------------------------|--------|--------------------|-----------------------|
| G26 | T02 | W14 | 50 mm | 191 mm | 1300N | |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçiminizi yapın ve sipariş kodunu oluşturun.

! If the product you want to order is not among our standards, please see page 86. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 86' ya bakınız.





| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------------------------------------------------------------------------|------------|-----------------------------------------------------------------------|
| | Welded / Kaynaklı | X | ✓ 87 |
| | L Type Eyelet / L Tipi Gözülü | ✓ | ✓ 88 |
| | T Type Eyelet / T Tipi Gözülü | ✓ | ✓ 89 |
| | L50 Type Eyelet / L50 Tipi Gözülü | ✓ | ✓ 89 |
| | Clevis / Çatal | ✓ | ✓ 90 |
| | Steel Ball Socket / Çelik Muylu Soketi | ✓ | ✓ 92 |
| | Plastic Ball Socket / Plastik Muylu Soketi | ✓ | ✓ 96 |
| | Ball Joint (Plastic or Steel) / Bilyah Mafsal (Plastik veya Çelik) | ✓ | ✓ <u>Steel / Çelik 93 - 95</u> <u>Plastic / Plastik 97 - 98</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | S ± 2 (mm) | L ₁ ± 2 (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|--------------|-----------------------------|-----------------------|
| G26 | Ø10 | Ø27 | 50 ≤ S ≤ 800 | 150 ≤ L ₁ ≤ 1650 | 100 ≤ N ≤ 2800 |

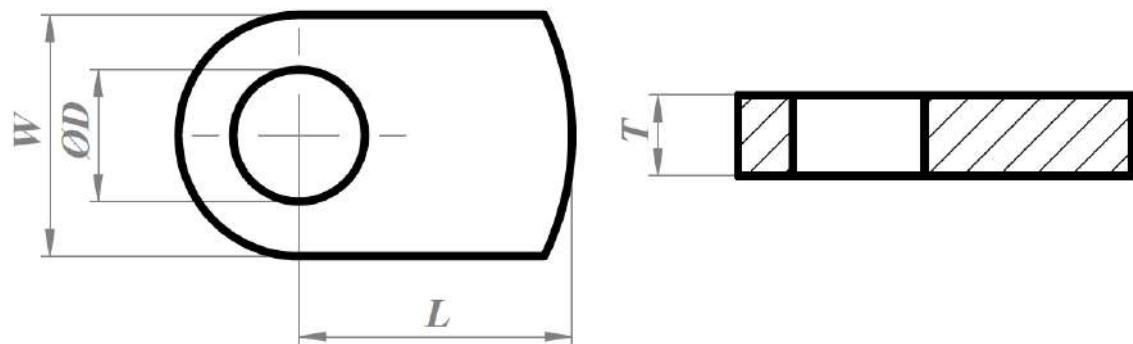
Tablo 1.2

The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan A.Ş. and your local sales partners will be glad to help you find the right products and support you in every way.

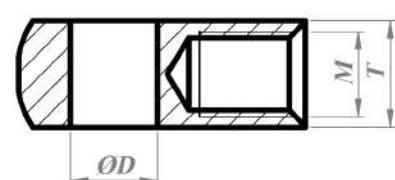
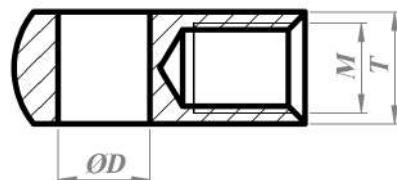
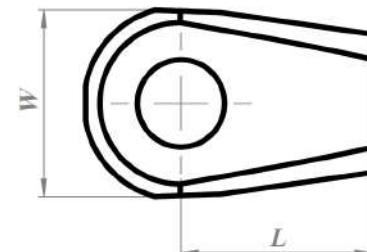
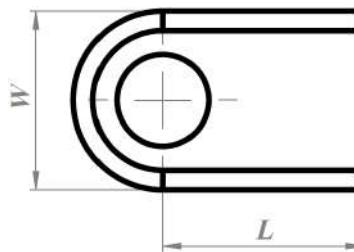
Burada sunulan özel sipariş spesifikasyonu ile standart katalog ölçülerine bağlı kalmadan talebiniz doğrultusunda ürün kodu oluşturarak sipariş verebilirsiniz. Tablo 1.2'de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz. Ayrıca Manksan Tic. A.Ş. çalışanları ve yerel satış partnerlerimiz size doğru ürünü seçmenizde yardımcı olacaktır.

| Body Group / Gövde Grubu | Rod Connection / Mil Bağlantı | Tube Connection / Tüp Bağlantı | Stroke / Strok | L ₂ | Pressure / Basınç |
|--------------------------|-------------------------------|--------------------------------|----------------|----------------------------------------------------------|-------------------|
| | | | | L ₁ + E ₁ + E ₂ | |
| G26 | | | | | |

Tablo 1.3



| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W14 | 8,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W16 | 8,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W15 | 10,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W17 | 10,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |



Type-1 / Tip-1

Type-2 / Tip-2

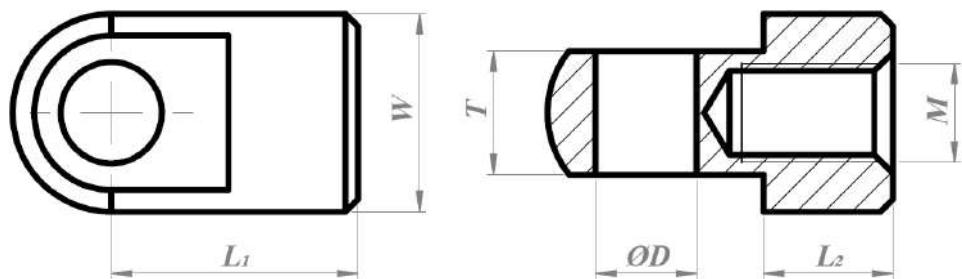
Type-1 / Tip-1

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| SL16 | 8,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL09 | 8,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL03 | 8,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL22 | 8,2 | 18 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL11 | 8,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL05 | 8,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL06 | 8,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL14 | 10,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL10 | 10,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL15 | 10,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL12 | 10,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL18 | 10,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL20 | 10,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL19 | 10,2 | 29 | 12 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

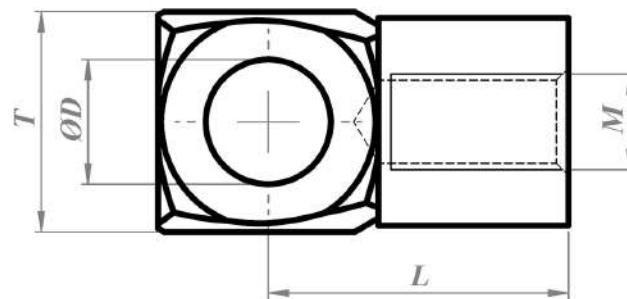
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|--------------------|------------------|
| AL07 | 8,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |
| AL08 | 10,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |

L50 Type Eyelet / L50 Tipi Gözülü

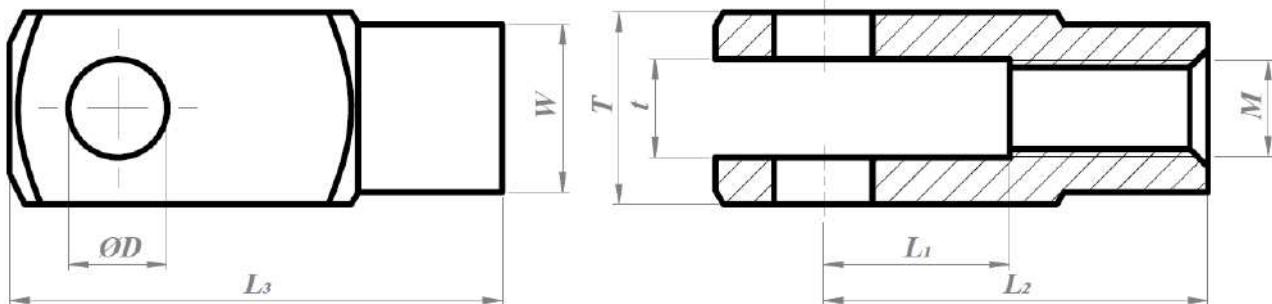


| Code / Kod | ØD (mm) | L1 (mm) | L2 (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------|---------|--------|--------|----|---------------------------|--------------------|
| AL50 | 8,2 | 20 | 10,5 | 10 | 16 | M8 | 2011 AL | White / Beyaz |
| L51 | 8,2 | 24 | 11,5 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L52 | 8,2 | 28 | 16 | 8,5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L56 | 10,2 | 24 | 8 | 9 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L59 | 10,2 | 35 | 18,5 | 10 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

T Type Eyelet / T Tipi Gözülü



| Code / Kod | ØD (mm) | L (mm) | T (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|----|---------------------------|--------------------|
| T04 | 8,2 | 25 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| T02 | 10,2 | 25 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

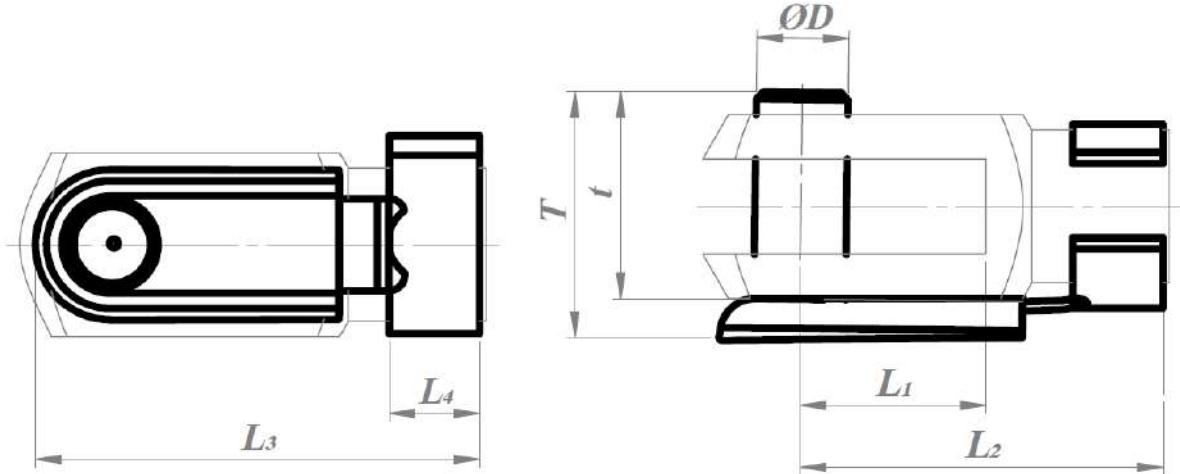


| Code / Kod | ØD ₁ (mm) | L1 (mm) | L2 (mm) | L3 (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|----------------------|---------|---------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| F05 | 8,2 | 15,5 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F07 | 8,2 | 24 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F08 | 8,2 | 27 | 35 | 44 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F11 | 8,2 | 20 | 40 | 51 | 10,5 | 20 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F06 | 10,2 | 14,7 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F18 | 12,2 | 20 | 40 | 52 | 10,5 | 20 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

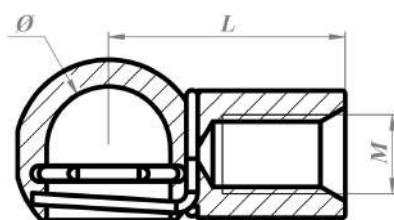


>>>

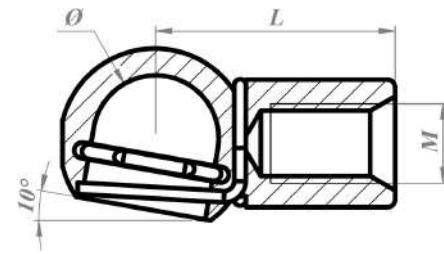
Ayrıntılı bilgi için lütfen sayfa 91' e bakınız.
For detailed recommendations, please see page 91.



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|---------------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



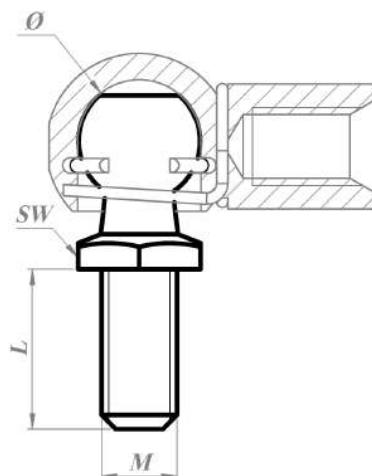
Type-2 / Tip-2

Type-1 / Tip-1

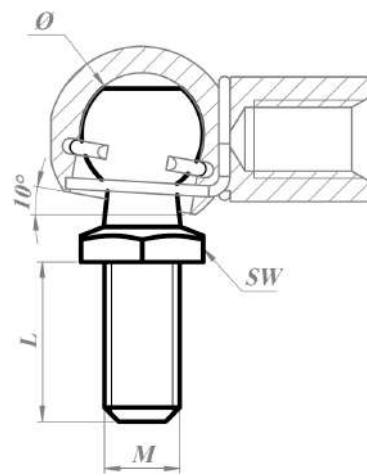
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M27B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M28B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M11B | 16 | 35 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M07 | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M07B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M08 | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M08B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M07 K12

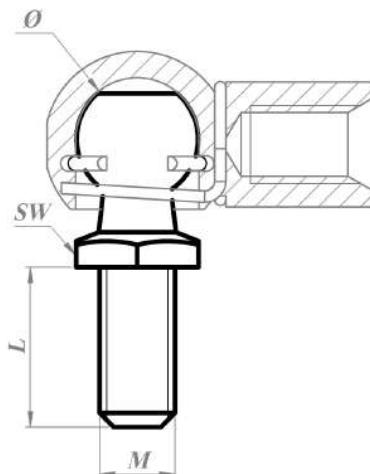
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

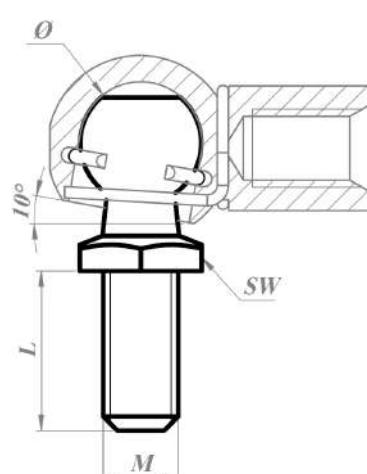
| Ø : 13 | | | | | | | | |
|---------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|--|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama | |
| K12 | 13 | 12 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K12B | 13 | 12 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K13 | 13 | 15 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K13B | 13 | 15 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K14 | 13 | 17 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K14B | 13 | 17 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K15 | 13 | 20 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K15B | 13 | 20 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K16 | 13 | 22 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K16B | 13 | 22 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K17 | 13 | 25 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K17B | 13 | 25 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K36 | 13 | 35 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K36B | 13 | 35 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |



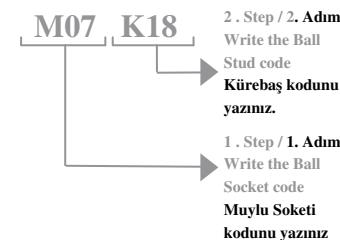
Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği



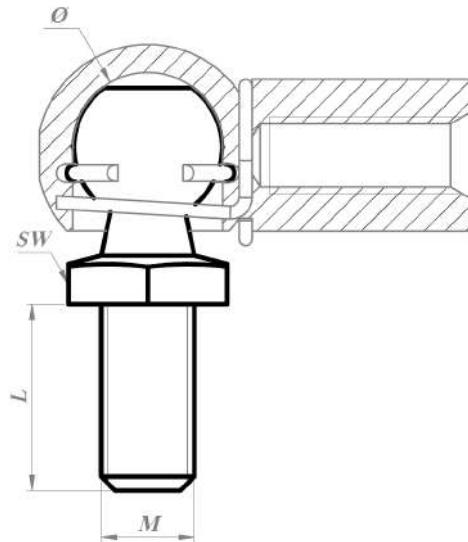
Type-1 / Tip-1



Type-2 / Tip-2



| Ø : 13 | | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|------------------------------|-----------------------|--|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama | |
| K18 | 13 | 15 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K18B | 13 | 15 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K38 | 13 | 20 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K38B | 13 | 20 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K25 | 13 | 22 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K25B | 13 | 22 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K20 | 13 | 25 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K20B | 13 | 25 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |
| K21 | 13 | 30 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) | |
| K21B | 13 | 30 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) | |



Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

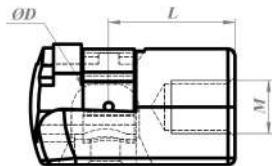
M07 K16

2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

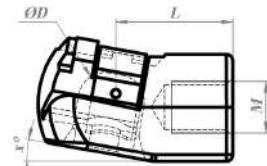
1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız.

Type-1 / Tip-1

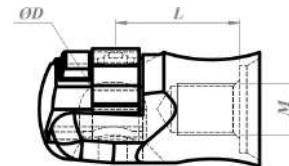
| Ø : 16 | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K22B | 16 | 20 | 17 | M10 | M11B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K23B | 16 | 25 | 17 | M10 | M11B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K39B | 16 | 20 | 17 | M12 | M11B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

Type-1 / Tip-1

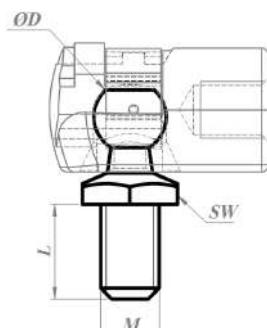
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P02 | 10 | 18 | M8 | Plastic / Plastik | Black / Siyah |

Type-2 / Tip-2

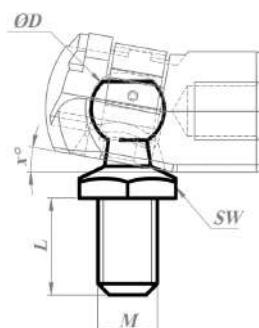
| Code / Kod | \varnothing (mm) | L (mm) | Angle / Açı (x°) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|------------------|----|--------------------|------------------|
| P04 | 10 | 18 | 10° | M8 | Plastic / Plastik | Black / Siyah |

Type-3 / Tip-3

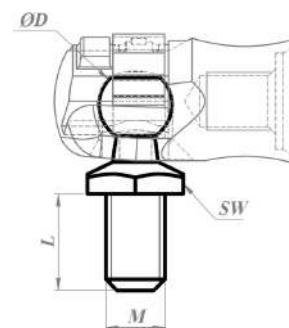
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|--------------------|------------------|
| P06 | 10 | 18 | M8 | Plastic / Plastik | Black / Siyah |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

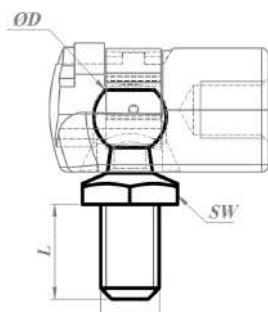
Ball Joint (Plastic) Ordering Example / Mafsal (Plastik) Sipariş Örneği

P02 K04

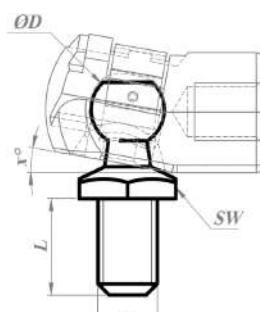
2 . Step / 2. Adım
Write the Ball Stud code
Kürebaş kodunu yazınız.

1 . Step / 1. Adım
Write the Ball Socket code
Muylu Soketi kodunu yazınız.

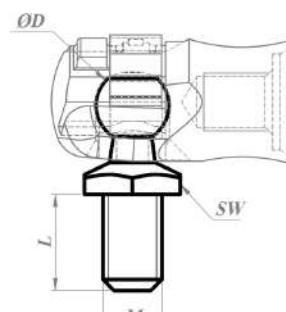
| ØD : 10 | | | | | | | |
|----------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K04 | 10 | 11 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K04B | 10 | 11 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K07 | 10 | 11 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K07B | 10 | 11 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K26 | 10 | 13 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K26B | 10 | 13 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K08 | 10 | 13 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K08B | 10 | 13 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K05 | 10 | 15 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K05B | 10 | 15 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K09 | 10 | 15 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K09B | 10 | 15 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K45 | 10 | 17 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K45B | 10 | 17 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K06 | 10 | 20 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K06B | 10 | 20 | 10 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2



Type-3 / Tip-3

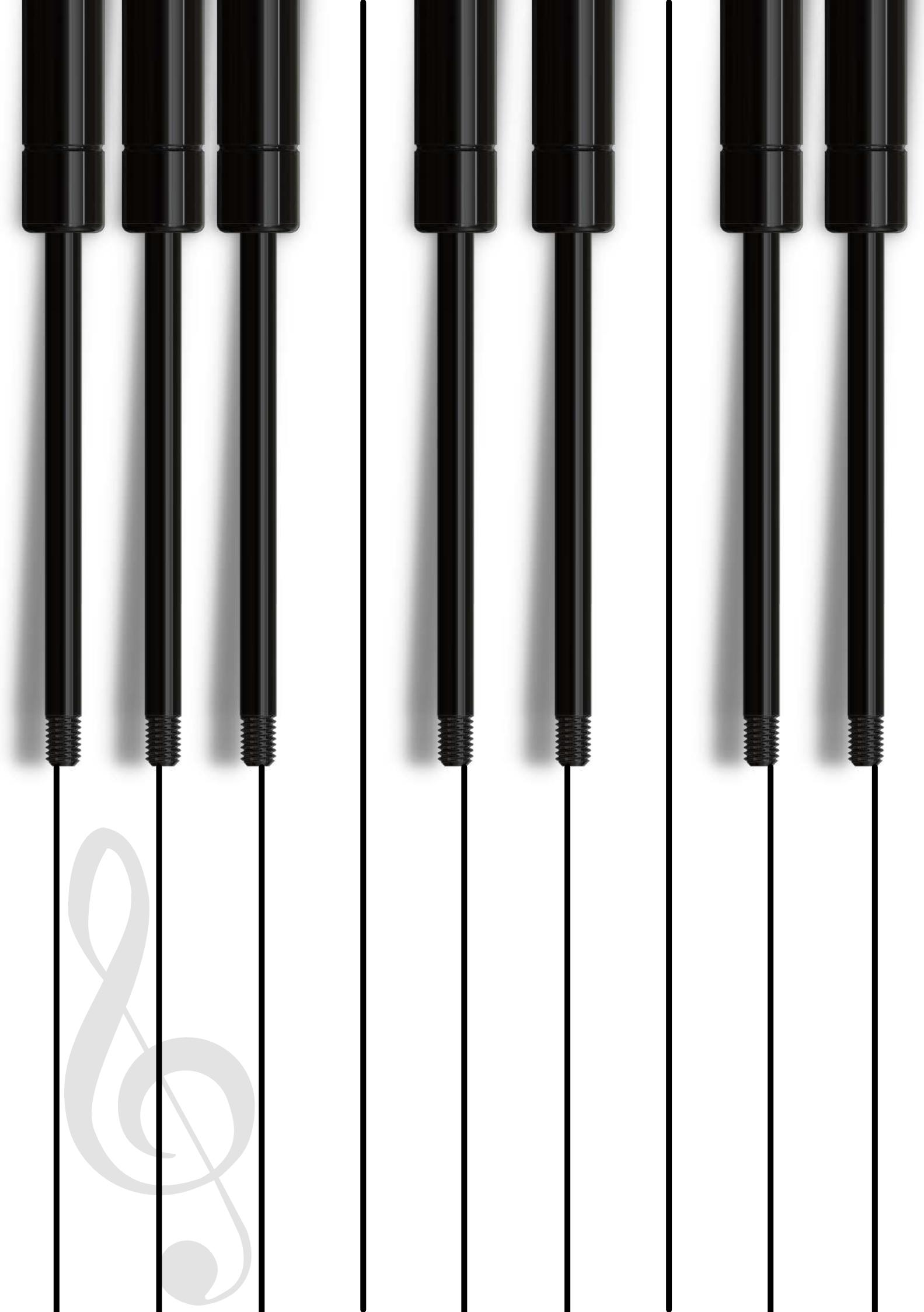
**Ball Joint (Plastic)
Ordering Example** / **Mafsal (Plastik)
Sipariş Örneği**

P02 **K10**

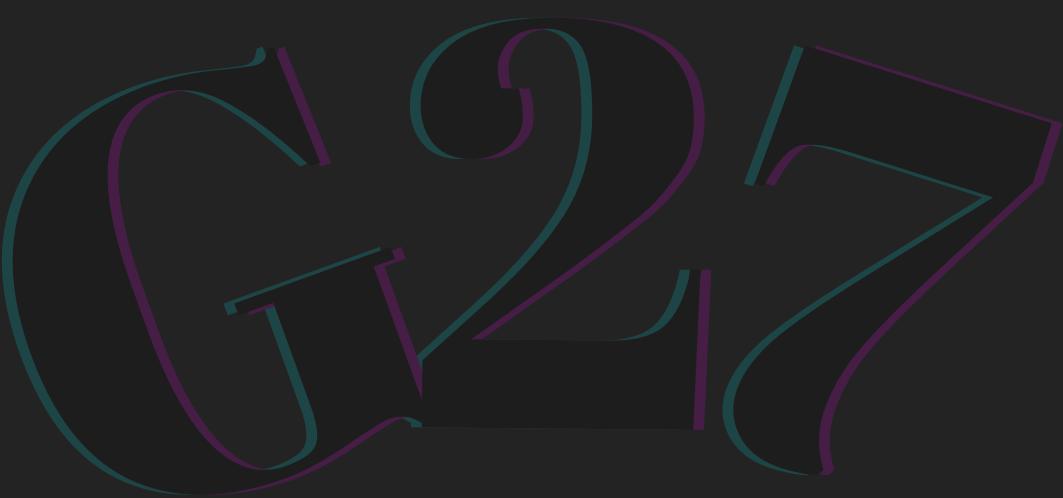
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

| ØD : 10 | | | | | | | |
|-------------------|---------------|---------------|----------------|------------|-----------------------------------------------------|--------------------------------------|-------------------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K10 | 10 | 20 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K10B | 10 | 20 | 13 | M8 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K33 | 10 | 25 | 13 | M10 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K33B | 10 | 25 | 13 | M10 | P02, P04, P06 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



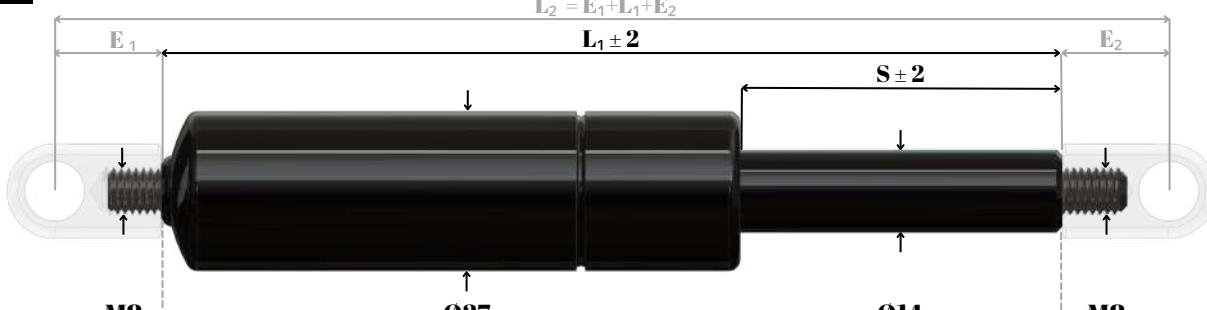




The body group G27 Gas Springs have two types of thread options;
G27 Grubu Amortisörlerde iki çeşit dış seçeneği bulunmaktadır;

- M8 (Page / Sayfa : 102)
- M10 (Page / Sayfa : 113)



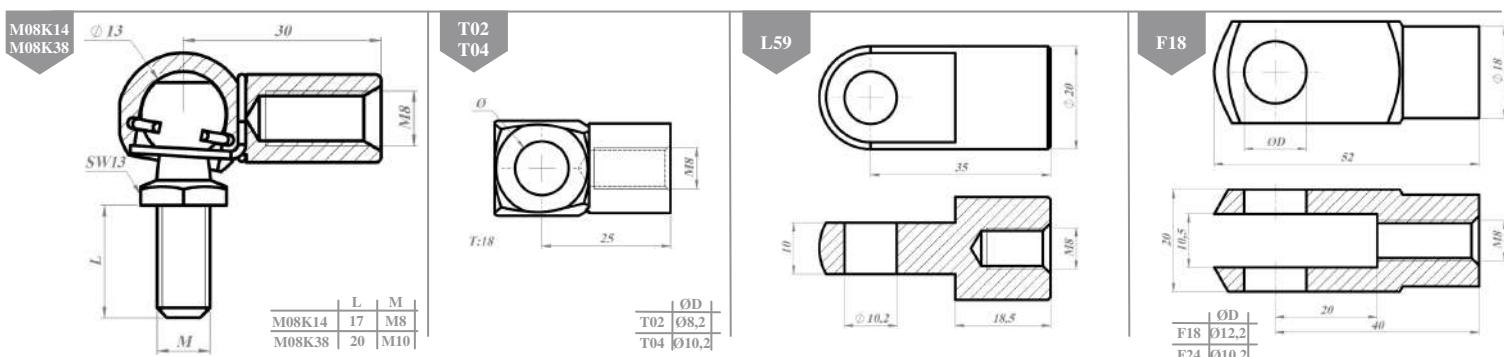
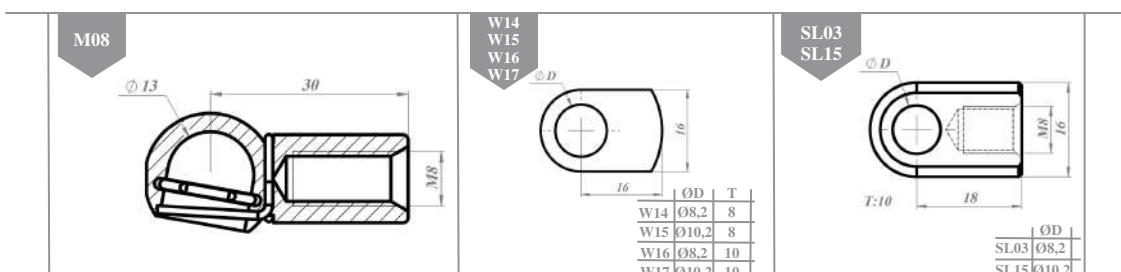


| Stroke / Strok | L1 | Pressure / Basınç |
|----------------|------|-------------------|
| 50 | 150 | 100N - 2500N |
| 75 | 200 | 100N - 2500N |
| 100 | 250 | 100N - 2500N |
| 125 | 300 | 100N - 2500N |
| 150 | 350 | 100N - 2500N |
| 175 | 400 | 100N - 2500N |
| 200 | 450 | 100N - 2500N |
| 250 | 550 | 100N - 2500N |
| 300 | 650 | 100N - 2500N |
| 350 | 750 | 100N - 2500N |
| 400 | 850 | 100N - 2500N |
| 450 | 950 | 100N - 2500N |
| 500 | 1050 | 100N - 2500N |
| 550 | 1150 | 100N - 2500N |
| 600 | 1250 | 100N - 1500N |
| 650 | 1350 | 100N - 1500N |
| 700 | 1450 | 100N - 1250N |
| 800 | 1650 | 100N - 1250N |

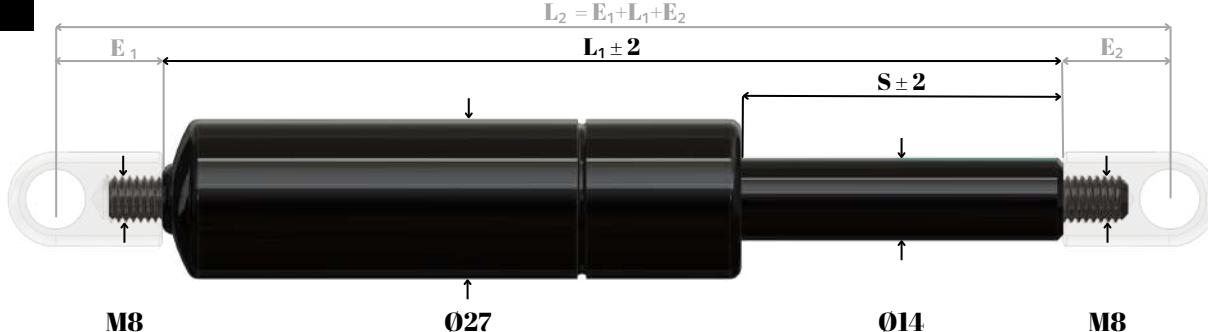
| Ordering Example / Sipariş Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | S ± 2 | L ₂ ± 2 | Pressure / Basınç (N) |
|-----------------------------------|--------------------------|-----------------------------|------------------------------|--------|--------------------|-----------------------|
| G27 | T02 | W14 | 50 mm | 191 mm | 90N | |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçiminizi yapın ve sipariş kodunu oluşturun.

- ! If the product you want to order is not among our standards, please see page 103. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 103' e bakınız.



Special Order Configuration / Özel Sipariş Oluşturma



| Available Fittings / Başlık Seçenekleri | | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|-----------------------------------------------|-----------|------------|------------------|
| | Welded / Kaynaklı | X | ✓ | <u>104</u> |
| | L Type Eyelet / L Tipi Gözülü | ✓ | ✓ | <u>105</u> |
| | T Type Eyelet / T Tipi Gözülü | ✓ | ✓ | <u>106</u> |
| | L50 Type Eyelet / L50 Tipi Gözülü | ✓ | ✓ | <u>106</u> |
| | Clevis / Çatal | ✓ | ✓ | <u>107</u> |
| | Steel Ball Socket / Çelik Muylu Soketi | ✓ | ✓ | <u>109</u> |
| | Ball Joint (Steel) / Bilyah Mafsal (Çelik) | ✓ | ✓ | <u>110 - 112</u> |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | $S \pm 2$ (mm) | $L_1 \pm 2$ (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|----------------------|--------------------------|------------------------|
| G27 | Ø14 | Ø27 | $50 \leq S \leq 800$ | $150 \leq L_1 \leq 1650$ | $100 \leq N \leq 2800$ |

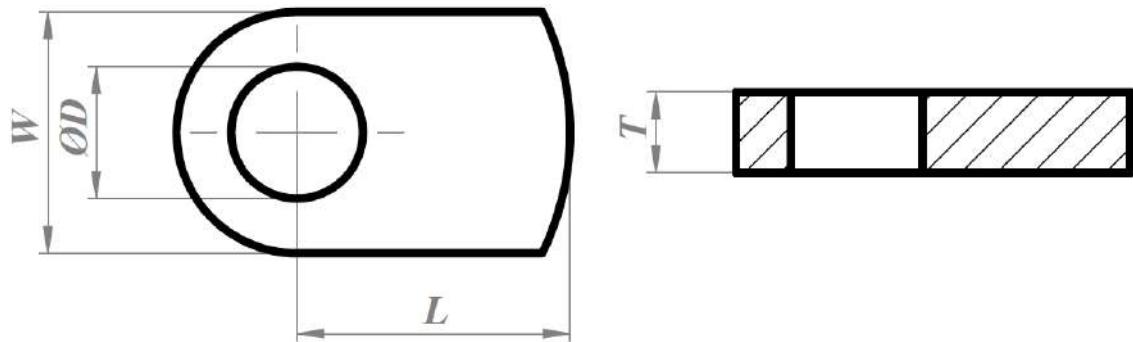
Tablo 1.2

The order system described here will help you compose the product you require. The order code corresponds to our item designation. The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values. The employees of Manksan A.Ş. and your local sales partners will be glad to help you find the right products and support you in every way.

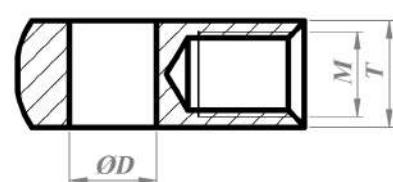
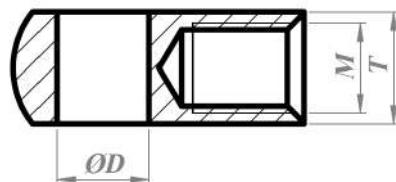
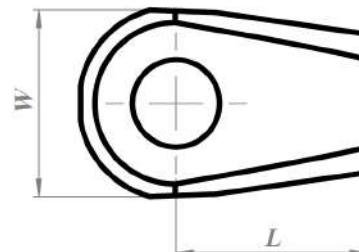
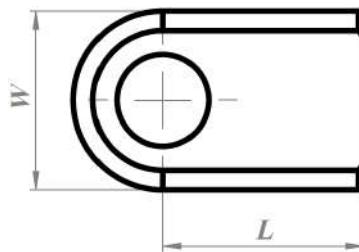
Burada sunulan özel sipariş spesifikasyonu ile standart katalog ölçülerine bağlı kalmadan talebiniz doğrultusunda ürün kodu oluşturarak sipariş verebilirsiniz. Tablo 1.2'de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz. Ayrıca Manksan Tic. A.Ş. çalışanları ve yerel satış partnerlerimiz size doğru ürünü seçmenizde yardımcı olacaktır.

| Body Group / Gövde Grubu | Rod Connection / Mil Bağlantı | Tube Connection / Tüp Bağlantı | Stroke / Strok | L_2 | Pressure / Basınç |
|--------------------------|-------------------------------|--------------------------------|----------------|---------------------------|-------------------|
| | | | | L_1 + E_1 + E_2 | |
| G27 | | | | | |

Tablo 1.3



| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W14 | 8,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W16 | 8,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W15 | 10,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W17 | 10,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |



Type-1 / Tip-1

Type-2 / Tip-2

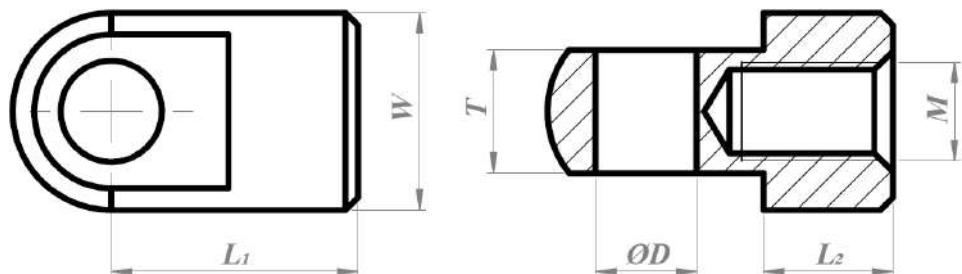
Type-1 / Tip-1

| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | MD | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| SL16 | 8,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL09 | 8,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL03 | 8,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL22 | 8,2 | 18 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL11 | 8,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL05 | 8,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL06 | 8,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL14 | 10,2 | 16 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL10 | 10,2 | 18 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL15 | 10,2 | 18 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| AL12 | 10,2 | 20 | 10 | 20 | M8 | 2011 AL | White / Beyaz |
| SL18 | 10,2 | 20 | 10 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL20 | 10,2 | 20 | 12 | 16 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| SL19 | 10,2 | 29 | 12 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

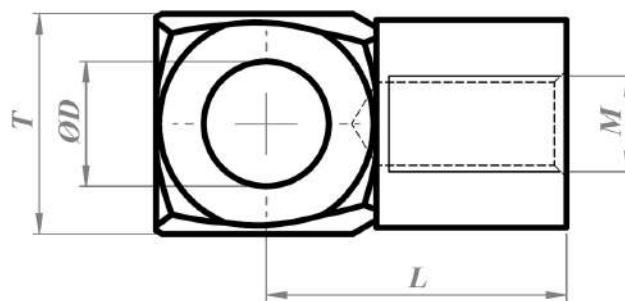
| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|--------------------|------------------|
| AL07 | 8,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |
| AL08 | 10,2 | 18 | 10 | 18 | 2011 AL | White / Beyaz |

L50 Type Eyelet / L50 Tipi Gözülü

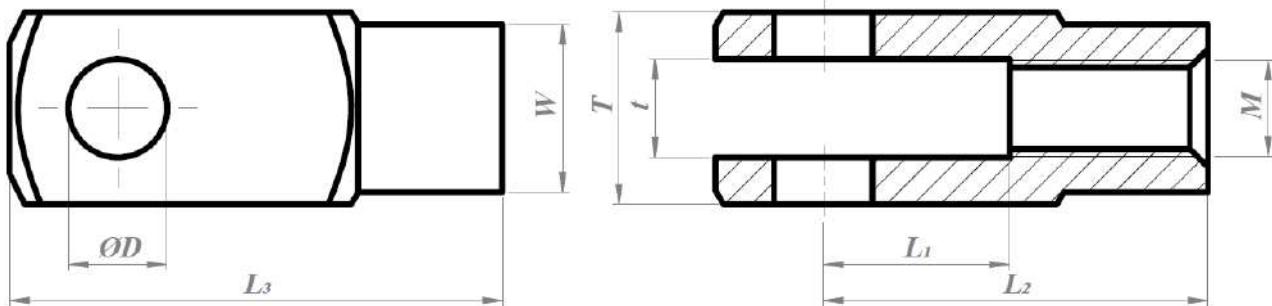


| Code / Kod | ØD (mm) | L1 (mm) | L2 (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|------------------|---------|---------|--------|--------|----|---------------------------|--------------------|
| AL50 | 8,2 | 20 | 10,5 | 10 | 16 | M8 | 2011 AL | White / Beyaz |
| L51 | 8,2 | 24 | 11,5 | 8 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L52 | 8,2 | 28 | 16 | 8,5 | 15 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L56 | 10,2 | 24 | 8 | 9 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L59 | 10,2 | 35 | 18,5 | 10 | 20 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

T Type Eyelet / T Tipi Gözülü



| Code / Kod | ØD (mm) | L (mm) | T (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|------------------|--------|--------|----|---------------------------|--------------------|
| T02 | 10,2 | 25 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| T04 | 8,2 | 25 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

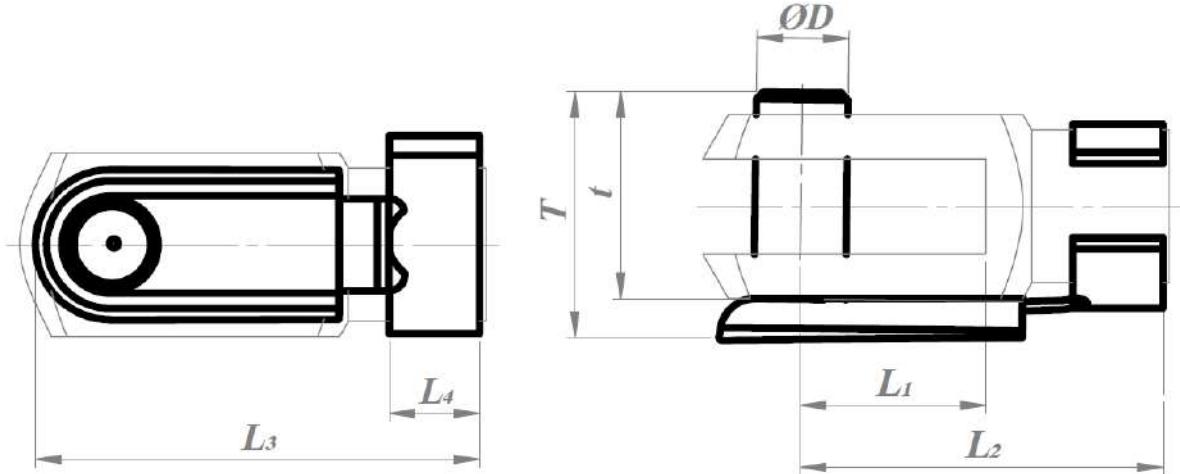


| Code / Kod | ØD ₁ (mm) | L1 (mm) | L2 (mm) | L3 (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|----------------------|---------|---------|---------|--------|--------|--------|----|------------------------------|-----------------------|
| F05 | 8,2 | 15,5 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F07 | 8,2 | 24 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F08 | 8,2 | 27 | 35 | 44 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F11 | 8,2 | 20 | 40 | 51 | 10,5 | 20 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F06 | 10,2 | 14,7 | 32 | 41 | 8,2 | 16 | 14 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F18 | 12,2 | 20 | 40 | 52 | 10,5 | 20 | 18 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

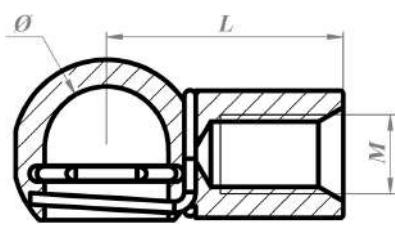


>>>

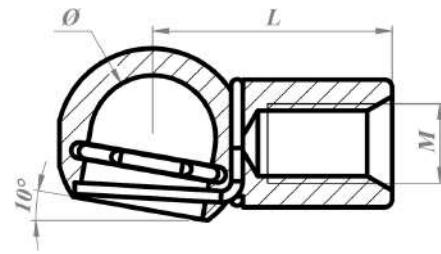
Ayrıntılı bilgi için lütfen sayfa 108' e bakınız.
For detailed recommendations, please see page 108.



| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|---------------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



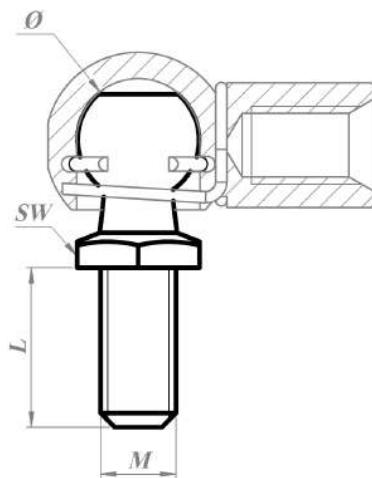
Type-2 / Tip-2

Type-1 / Tip-1

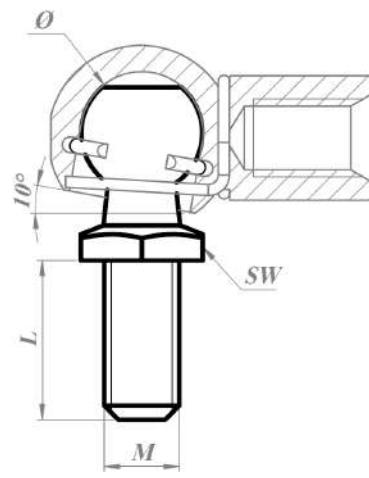
| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M27B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M28B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M11B | 16 | 35 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |

Type-2 / Tip-2

| Code / Kod | \varnothing (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------------------|--------|----|------------------------------|-----------------------|
| M07 | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M07B | 13 | 25 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M08 | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M08B | 13 | 30 | M8 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

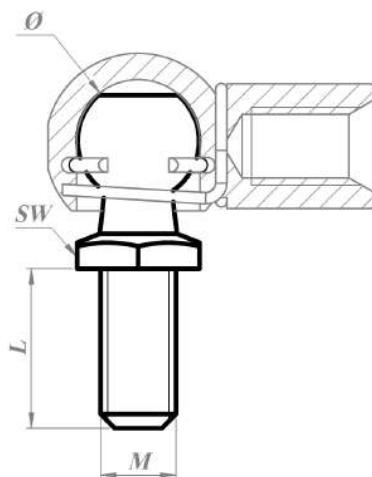
Ball Joint (Steel) Ordering Example / Mafsal (Çelik) Sipariş Örneği

M07 K12

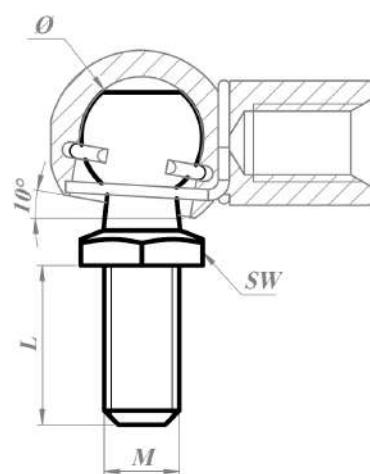
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

| Ø : 13 | | | | | | | |
|---------------|--------|--------|---------|----|----------------------------------------------|---------------------------|--------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K12 | 13 | 12 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K12B | 13 | 12 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K13 | 13 | 15 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K13B | 13 | 15 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K14 | 13 | 17 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K14B | 13 | 17 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K15 | 13 | 20 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K15B | 13 | 20 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K16 | 13 | 22 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K16B | 13 | 22 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K17 | 13 | 25 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K17B | 13 | 25 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K36 | 13 | 35 | 13 | M8 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K36B | 13 | 35 | 13 | M8 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1



Type-2 / Tip-2

**Ball Joint (Steel)
Ordering Example** / **Mafsal (Çelik)
Sipariş Örneği**

M07 K18

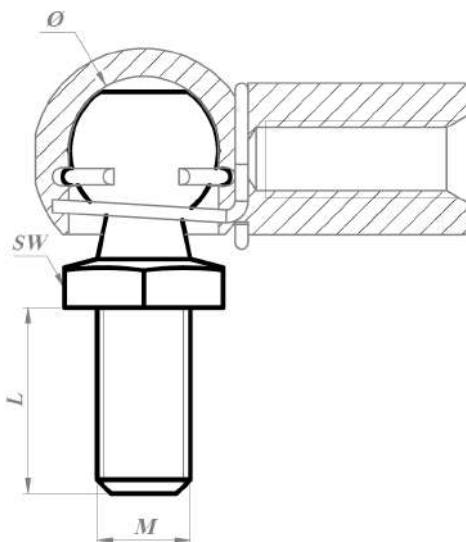
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

| Ø : 13 | | | | | | | |
|---------------|--------|--------|---------|-----|----------------------------------------------|------------------------------|-----------------------|
| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
| K18 | 13 | 15 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K18B | 13 | 15 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K38 | 13 | 20 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K38B | 13 | 20 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K25 | 13 | 22 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K25B | 13 | 22 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K20 | 13 | 25 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K20B | 13 | 25 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K21 | 13 | 30 | 13 | M10 | M07, M08 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K21B | 13 | 30 | 13 | M10 | M07B, M08B, M27B, M28B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği



M07 K12

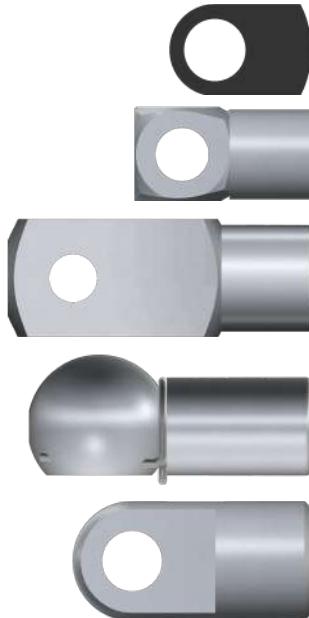
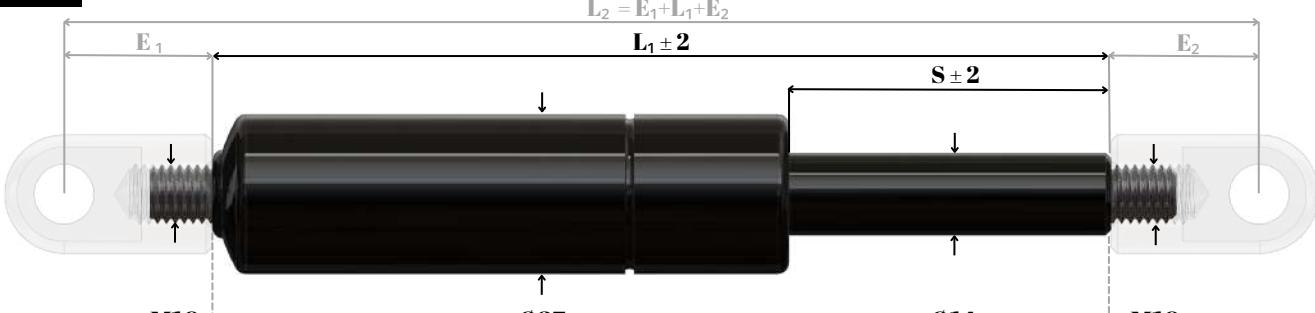
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

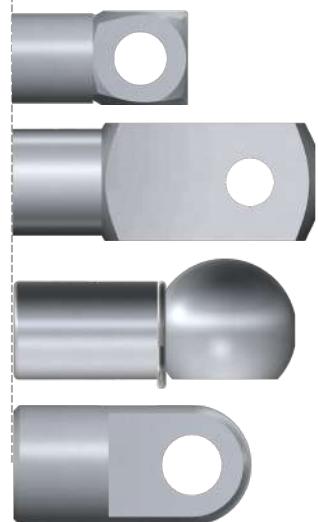
Type-1 / Tip-1

Ø : 16

| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|-----|----------------------------------------------|------------------------------|-----------------------|
| K22B | 16 | 20 | 17 | M10 | M11B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K23B | 16 | 25 | 17 | M10 | M11B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K39B | 16 | 20 | 17 | M12 | M11B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



| Stroke / Strok | L1 | Pressure / Basınç |
|----------------|------|-------------------|
| 50 | 150 | 100N - 2500N |
| 75 | 200 | 100N - 2500N |
| 100 | 250 | 100N - 2500N |
| 125 | 300 | 100N - 2500N |
| 150 | 350 | 100N - 2500N |
| 175 | 400 | 100N - 2500N |
| 200 | 450 | 100N - 2500N |
| 250 | 550 | 100N - 2500N |
| 300 | 650 | 100N - 2500N |
| 350 | 750 | 100N - 2500N |
| 400 | 850 | 100N - 2500N |
| 450 | 950 | 100N - 2500N |
| 500 | 1050 | 100N - 2500N |
| 550 | 1150 | 100N - 2500N |
| 600 | 1250 | 100N - 1500N |
| 650 | 1350 | 100N - 1500N |
| 700 | 1450 | 100N - 1250N |
| 800 | 1650 | 100N - 1250N |

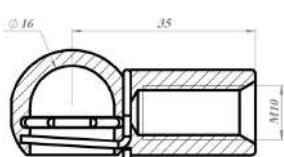
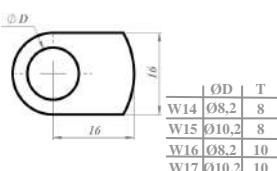
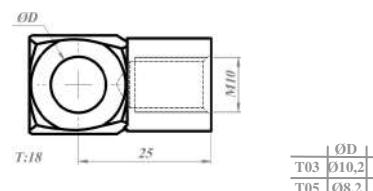
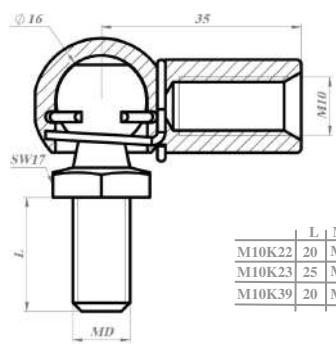
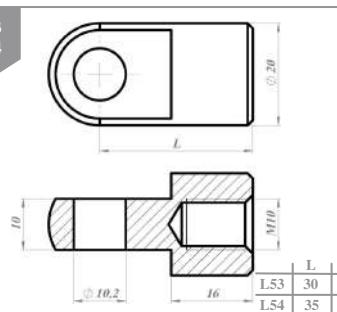
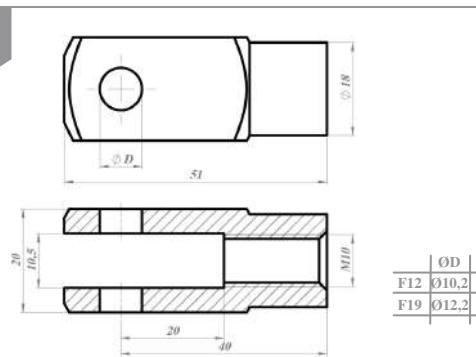


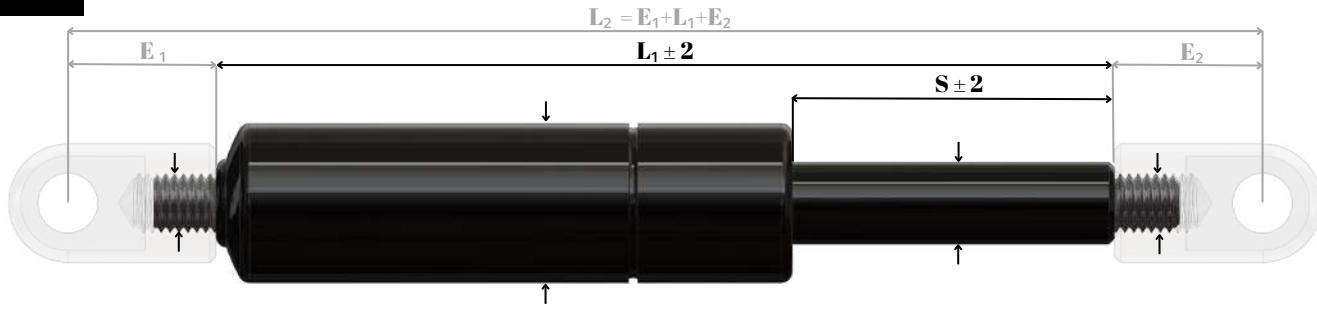
| Ordering / Sipariş Example / Örneği | Body Group / Gövde Grubu | Rod Connection / Mil Başlık | Tube Connection / Tüp Başlık | S ± 2 | L ₂ ± 2 | Pressure / Basınç (N) |
|-------------------------------------|--------------------------|-----------------------------|------------------------------|-------|--------------------|-----------------------|
| | G27 | L53 | W17 | 50 mm | 191 mm | 2500N |

>>> Please make your end fittings selection and generate the order code. / Lütfen uç bağlantı parçası seçiminizi yapın ve sipariş kodunu oluşturun.

! If the product you want to order is not among our standards, please see page 114. / Sipariş etmek istediğiniz ürün universal ürünlerimiz arasında yok ise lütfen sayfa 114' e bakınız.

M10

W16
W17T03
T05M10K22
M10K23
M10K39L53
L54F12
F19



M10 Ø27 Ø14 M10

| Available Fittings / Başlık Seçenekleri | Rod / Mil | Tube / Tüp | Page / Sayfa |
|-----------------------------------------|---------------------------------------------------|------------|-----------------------|
| | Welded / Kaynaklı | X | ✓ 115 |
| | T Type Eyelet / T Tipi Gözülü | ✓ | ✓ 115 |
| | L50 Type Eyelet / L50 Tipi Gözülü | ✓ | ✓ 116 |
| | Clevis / Çatal | ✓ | ✓ 117 |
| | Steel Ball Socket / Çelik Muylu Soketi | ✓ | ✓ 119 |
| | Ball Joint (Steel) / Bilyalı Mafsal (Çelik) | ✓ | ✓ 120 |

| Body Group / Gövde Grubu | Rod / Mil (mm) | Tube / Tüp (mm) | S ± 2 (mm) | L ₁ ± 2 (mm) | Pressure / Basınç (N) |
|--------------------------|----------------|-----------------|--------------|-----------------------------|-----------------------|
| G27 | Ø14 | Ø27 | 50 ≤ S ≤ 800 | 150 ≤ L ₁ ≤ 1650 | 100 ≤ N ≤ 2800 |

Tablo 1.2

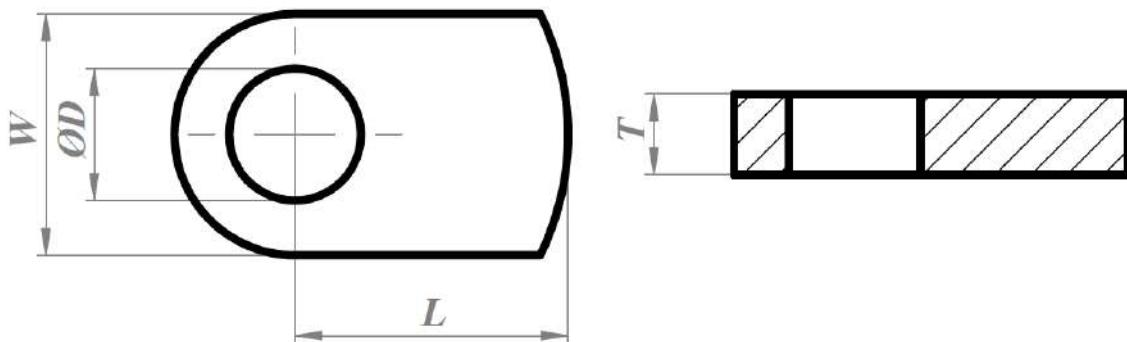
>>> The maximum and minimum values that can be made in Table 1.2 are written. Please create your order code in Table 1.3 taking into account these values.

>>> Tablo 1.2' de yapılabilecek maksimum ve minimum değerler yazmaktadır. Lütfen bu değerleri dikkate alarak Tablo 1.3'de sipariş kodunuzu oluşturunuz.

| Body Group Gövde Grubu | Rod Connection Mil Bağlantı | Tube Connection Tüp Bağlantı | Stroke / Strok | L_2 | Pressure / Basınç |
|---------------------------|--------------------------------|---------------------------------|----------------|---------------------------|-------------------|
| | | | | L_1 + E_1 + E_2 | |
| G27 | | | | | |

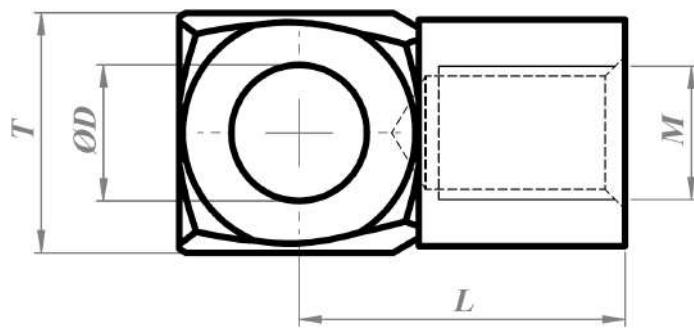
Tablo 1.3

Welded Type / Kaynaklı Tipi

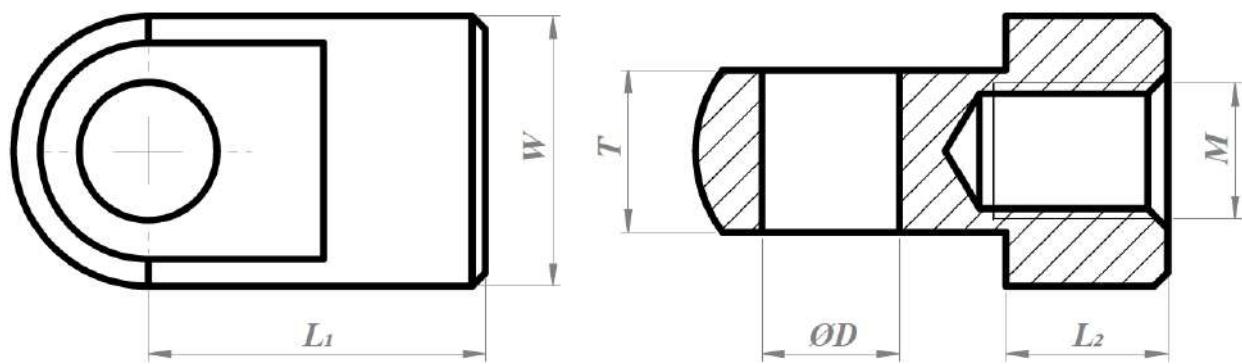


| Code / Kod | ØD (mm) | L (mm) | T (mm) | W (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|--------|----------------------|------------------------------|
| W14 | 8,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W16 | 8,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W15 | 10,2 | 16 | 8 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |
| W17 | 10,2 | 16 | 10 | 16 | ST37 (Steel / Çelik) | Black Painted / Siyah Boyalı |

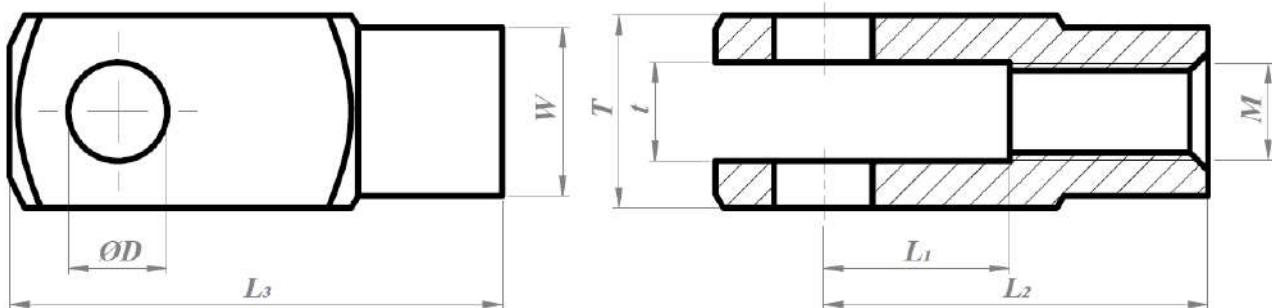
T Type Eyelet / T Tipi Gözülü



| Code / Kod | ØD (mm) | L (mm) | T (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|---------|--------|--------|-----|---------------------------|--------------------|
| T03 | 10,2 | 25 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| T05 | 8,2 | 25 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



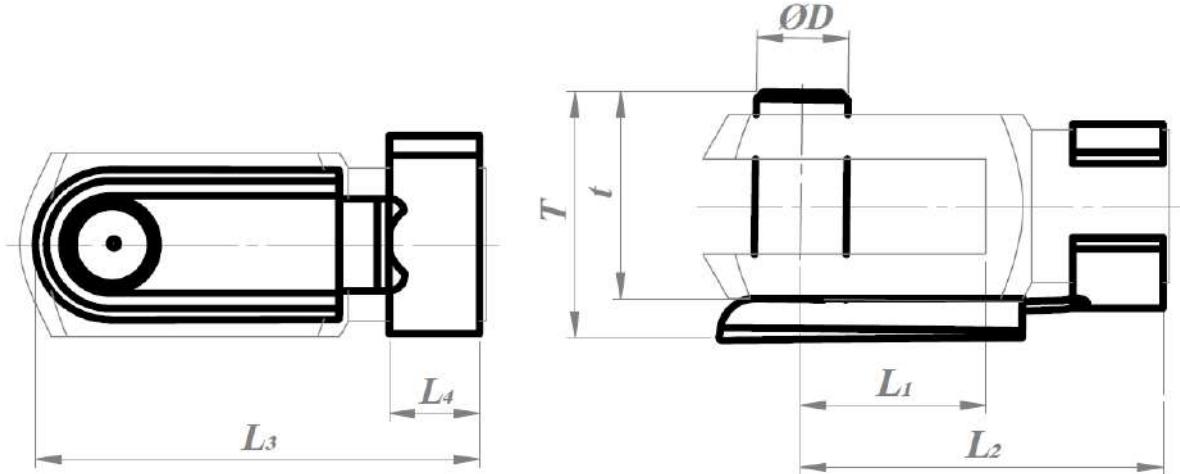
| Code / Kod | OD (mm) | L_1 (mm) | L_2 (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|------------------|------------|------------|----------|----------|-----|---------------------------|--------------------|
| L65 | 8,2 | 25 | 12 | 12 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L61 | 8,2 | 27 | 13,5 | 10 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L62 | 8,2 | 30 | 15,5 | 10 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L58 | 10,2 | 35 | 18,5 | 10 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L66 | 10,2 | 25 | 12 | 12 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L60 | 10,2 | 27 | 13,5 | 10 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L53 | 10,2 | 30 | 16 | 10 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L63 | 10,2 | 30 | 15,5 | 10 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L54 | 10,2 | 35 | 20 | 10 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L55 | 10,2 | 40 | 20 | 10 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| L64 | 12,2 | 30 | 16 | 10 | 20 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



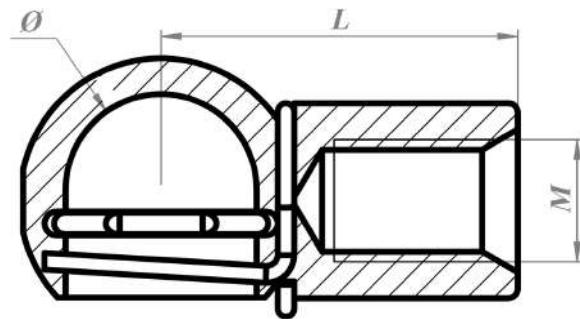
| Code / Kod | ØD ₁ (mm) | L1 (mm) | L2 (mm) | L3 (mm) | t (mm) | T (mm) | W (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|----------------------|---------|---------|---------|--------|--------|--------|-----|------------------------------|-----------------------|
| F10 | 8,2 | 24 | 40 | 49 | 8,2 | 16 | 14 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F12 | 10,2 | 20 | 40 | 51 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F13 | 10,2 | 25 | 45 | 56 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F14 | 10,2 | 30 | 50 | 61 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F15 | 12,2 | 30 | 50 | 61 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F16 | 8,2 | 20 | 40 | 51 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F17 | 10,2 | 20 | 30 | 42 | 10,2 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F19 | 12,2 | 20 | 40 | 52 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F20 | 8,2 | 20 | 40 | 52 | 10,5 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| F24 | 10,2 | 40 | 60 | 72 | 10 | 20 | 18 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



>>> Ayrıntılı bilgi için lütfen sayfa 118' ye bakınız.
For detailed recommendations, please see page 118.



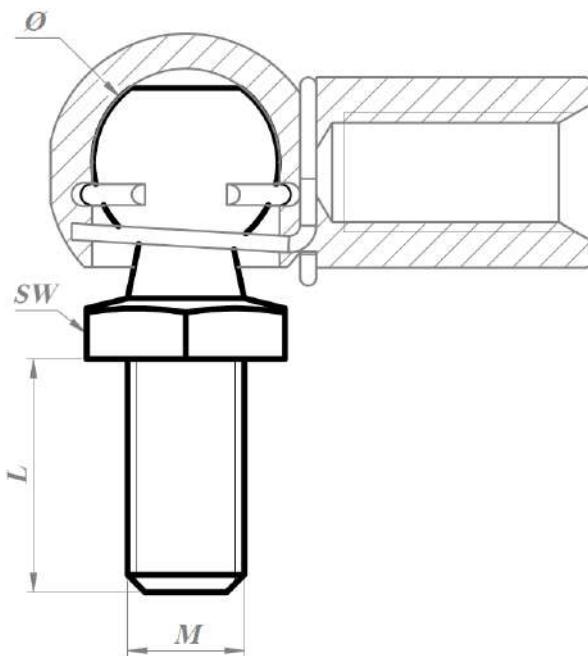
| Code / Kod | ØD (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | t (mm) | T (mm) | Material / Malzeme | Plated / Kaplama |
|------------|---------|---------------------|---------------------|---------------------|---------------------|--------|--------|----------------------|--------------------|
| C01 | 6,2 | 12 | 24 | 28 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C04 | 6,2 | 24 | 36 | 40 | 6 | 14 | 16 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C05 | 8,2 | 15,5 | 32 | 37 | 6 | 19 | 21,5 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C06 | 10,2 | 14,7 | 32 | 38 | 6 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C07 | 8,2 | 14,7 | 32 | 38 | 4 | 20 | 23 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C12 | 10,2 | 20 | 40 | 46 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |
| C24 | 10,2 | 40 | 60 | 66 | 10 | 23 | 26 | ST37 (Steel / Çelik) | ZN (White / Beyaz) |



Type-1 / Tip-1

Type-1 / Tip-1

| Code / Kod | Ø (mm) | L (mm) | M | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|-----|------------------------------|-----------------------|
| M09 | 16 | 30 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M09B | 16 | 30 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M10 | 16 | 35 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M10B | 16 | 35 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| M19 | 16 | 27 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| M19B | 16 | 27 | M10 | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



Ball Joint (Steel) / Mafsal (Çelik)
Ordering Example / Sipariş Örneği

M09 K22

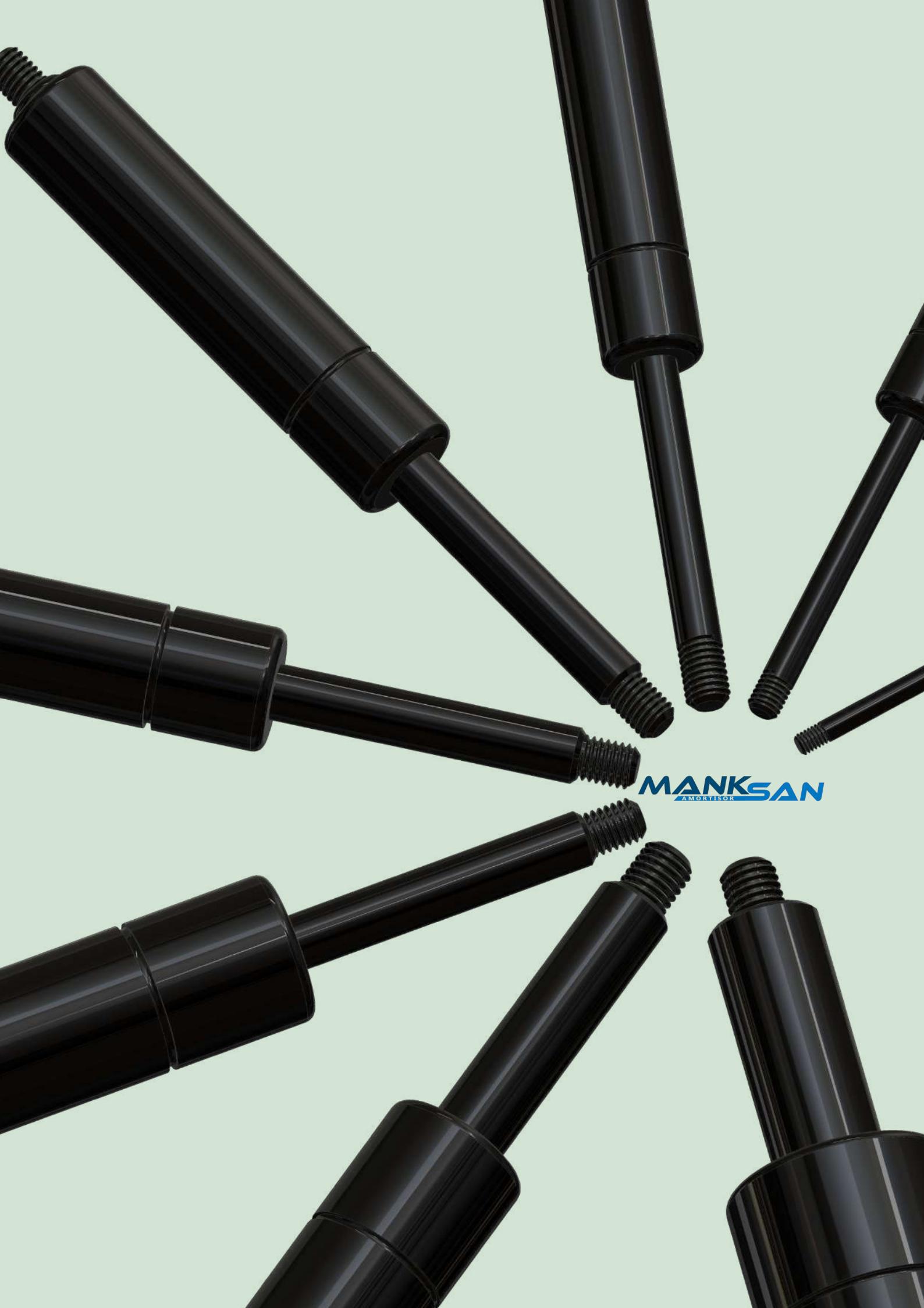
2 . Step / 2. Adım
Write the Ball
Stud code
Kürebaş kodunu
yazınız.

1 . Step / 1. Adım
Write the Ball
Socket code
Muylu Soketi
kodunu yazınız

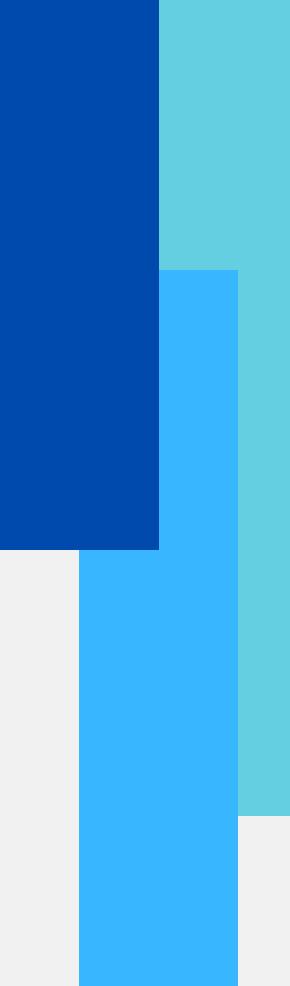
Type-1 / Tip-1

Ø : 16

| Code / Kod | Ø (mm) | L (mm) | SW (mm) | M | Can be assembled with / İle Monte edilebilir | Material / Malzeme | Plated / Kaplama |
|------------|--------|--------|---------|-----|----------------------------------------------|---------------------------|--------------------|
| K22 | 16 | 20 | 17 | M10 | M09, M10, M19 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K22B | 16 | 20 | 17 | M10 | M09B, M10B, M19B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K23 | 16 | 25 | 17 | M10 | M09, M10, M19 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K23B | 16 | 25 | 17 | M10 | M09B, M10B, M19B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |
| K39 | 16 | 20 | 17 | M12 | M09, M10, M19 | 11SMnPb30 (Steel / Çelik) | ZN (Black / Siyah) |
| K39B | 16 | 20 | 17 | M12 | M09B, M10B, M19B | 11SMnPb30 (Steel / Çelik) | ZN (White / Beyaz) |



MANKSAN
AMORTISOR



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