

*Gazlı Yay*

*Nitrogen Gas Springs*



# İÇİNDEKİLER INDEX

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Baskı / Edition 2008

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Kod No Part Nr.	Kurs / Stroke mm	Boy / Height L mm	Gövde / Cylinder D	Fo daN - max.	Sayfa Page
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## DÜNYA ÇAPINDA TANINAN FİRMA

DESTEK, otomotiv sektörünün gazlı amortisör ihtiyacına yönelik olarak 1987 yılında kurulmuştur. Günümüzde Bursa Organize Sanayi Bölgesi'nde 8.000 m2 alan üzerine kurulu kendi tesislerinde faaliyet göstermektedir. Firmamız gazlı amortisörün ülkemizde ve yurtdışında kullanımı ve uygulama alanlarının gittikçe yaygınlaşması neticesinde, birçok endüstri için yaratıcı çözümler sunan, ülkemizin en büyük gazlı amortisör üreticisi olmuştur. Gazlı Kalıp Yayı'nı da ürün yelpazesinde bulandıran DESTEK, gazlı amortisörlerde olduğu gibi bu ürünler için de "ayrıcılık bir hizmet" ve "yüksek kalite" prensipleri ile hareket etmektedir.

DESTEK, bizim için sadece bir marka olmanın ötesinde, "müşterilerimizi destekleme, problemlerini çözme, sektörlerinde rekabetçi olmalarını sağlama" anlamı taşımaktadır. Bundan dolayı, uzun yıllardan beri sadece bir gazlı amortisör ve kalıp gazlı yayı üreticisi ve tedarikçisi olmanın ötesinde; aynı zamanda müşterilerimizin daima yanında olmaktan gurur duymaktayız. Bu özelliği sayesinde 1987 yılından bu yana konusunda dünya çapında tanınan bir firma haline gelmiştir.

## AYRICALIKLI HİZMET

Yüksek teknoloji ekipman ve makinalarımız her ne kadar etkileyici olsalar da DESTEK AMORTİSÖR'de asıl farkı oluşturan, çalışanlarımızdır. Çalışanlarımızın katkıları ile sürekli olarak müşterilerimiz için yeni çözümler üretmek ve hizmet kalitemizi arttırmak, ana hedeflerimizden birisidir. Size sunacağımız en önemli katkı "ayrıcılık bir hizmet"tir.

## TASARIM VE DESTEK

Ürünlerimiz basınçlı kaplar 97/23/EC yönetmeliğine tabi olduğundan mutlaka kullanım kılavuzunu okumalı, verilen uyarı ve talimatlara uymalısınız. Gerek tasarım, gerek üretim ve test şartlarında emniyet faktörleri yüksek tutulmuştur.

Bu katalog, kullanım alanınıza uygun DESTEK Gazlı Kalıp Yayı seçiminde sizlere yardımcı olacaktır. Daha fazla destek için, en son bilgisayar destekli tasarım (CAD) üniteleri ile donatılmış olan tasarım ekibimiz kullanım alanınıza en uygun Gazlı Kalıp Yayı seçiminde sizlere yardımcı olacaktır.





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## GLOBAL PLAYER IN GAS SPRINGS

The name DESTEK comes from the Turkish word "destek" and means "support". For us it means not only "supporting" your weights with our gas springs but it also means "supporting" our customers and making them competitive in their markets by solving their problems as well. For many years now, we have not only been a supplier, but have also been proud of becoming an active partner of our customers. These strengths at Destek have helped our company grow from a small manufacturer in 1987 to a global player in gas springs.

## WIDE PRODUCT RANGE

The first gas spring produced by Destek was for automotive applications such as hatchback and engine hoods. Only a few years after this we were supplying one of the widest range of gas springs and hydraulic shock absorbers worldwide. Based on our experience in gas springs we started producing Nitrogen Gas Spring which we offer with the same exceptional service and high quality.

## EXCEPTIONAL SERVICE

Thanks to our high technology equipment we have earned a good name in the gas spring business. However, no matter how impressive our equipment, it is the people at Destek that make the greatest difference. Each day, our employees work hard to make sure that our standards of quality and service are upheld for each customer. Our people and our customers have made our growth possible over the past years. We continually strive to improve our service and capabilities for our customers and uphold this as our primary goal. Here at Destek, we have only one thing to offer, and this is exceptional service.

## DESIGN AND ASSISTANCE

As our Products fall within the PED (Pressure Equipment Directive - Directive 97/23/EC of the Council of the European Community), the operating instructions must be read before usage and the instructions must be followed. The design, manufacture and testing of Destek Nitrogen Gas Springs are made under great care. This catalogue will assist you in choosing the right DESTEK Nitrogen Gas Spring for your application. For further assistance, our design engineers, supplied with the latest computer aided design (CAD) systems, are working closely with our customers to design a gas spring that meets their specific needs.





## ÜRETİMİN HER AŞAMASINDA KALİTE GÜVENÇE

Gazlı Kalıp Yayılı ve bağlantı parçaları genelde kullanıldıkları ürünün küçük bir parçası olmalarına rağmen, fonksiyon ve sağlamlığı / güvenilirliği tüm ürünün performansını etkiler. Bu sebepten dolayı DESTEK, Gazlı Kalıp Yayın tasarımıyla başlayarak, üretimin her aşamasında titiz bir kalite güvence sistemi uygulamaktadır.

## AKREDİTASYON

Toplam Kalite Yönetimimiz sayesinde, eğitimli işgücümüzü ve ileri teknoloji ekipmanlarımızı, en yüksek müşteri memnuniyet düzeyine ulaşmak için en iyi seviyede yönetmemizi sağlayan ISO 9001:2000 ve ISO/TS 16949:2002 kalite yönetim sistemi ile belgelendirildik.

Kalite Yönetim Sistemi sertifikalarımızın yanında Destek Gazlı Yaylarının dizayn, üretim ve test yöntemleri Avrupa Basınçlı Kaplar Yönetmeliğine (97/23/EC) uygunluğu tescil edilmiştir. Basınçlı Kaplar Yönetmeliği (PED), basınçlı kapların dizayn, üretim ve test yöntemleri ile ilgili tüm önceki Avrupa kanun ve yönetmeliklerini geçersiz kılmakta, daha modern ve ölçülebilir, izlenebilir bir üretim sürecini içermektedir.

## KALİTE TESTLERİ

Gazlı Kalıp Yaylarımız dayanıklılık, uzun ömür ve en önemlisi, ürün güvenliği bakımından sürekli olarak en yüksek beklentileri karşılamak üzere test edilmektedir. Firmamız bünyesinde ve/veya resmi kayıtlı laboratuvarlarda aşağıdaki test ve muayeneler yapılmaktadır:

- Proses içi ölçümler
- Kuvvet kontrolü
- Sızdırmazlık kontrolü
- Termal testler
- Ömür testleri
- Kullanım alanı testleri
- Mekanik dayanım testleri
- Metalografik muayeneler: malzeme, sertlik, mikroyapı kontrolü



## QUALITY ASSURANCE AT EVERY MANUFACTURING STAGE

Although Nitrogen Gas Springs and their connection parts are often a small component of the overall equipment package which they are included in, their function and reliability are paramount to the performance of the system as a whole. For this reason, DESTEK operates a stringent quality assurance system, which ensures that scrupulous attention to detail is built in at every stage of design and manufacture of our products.

## ACCREDITATION

Due to our Total Quality Management mentality, we have been certified in accordance with ISO 9000 quality system, which enables us to manage our educated workforces and high-tech equipment in manufacturing gas springs to the highest customer satisfaction level.

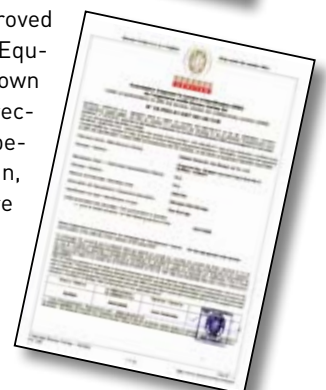
The design, manufacture and testing of Destek Gas Springs have been approved according to the European Pressure Equipment Directive (97/23/EC) also known as PED. The Pressure Equipment Directive (PED) replaces all previous European legislative laws covering the design, manufacture and testing of pressure vessels.

## QUALITY TESTS

Our Nitrogen Gas Springs are continuously tested to ensure reliability, long life and, over all, product safety for your highest satisfaction.

Following tests are made by our in-house test equipment and by officially registered laboratories:

- In-process measurements
- Control of force
- Leakage test
- Thermal tests
- Life cycle tests
- Test of actual application
- Test of mechanical strength
- Metallographic inspection: material, hardness, microstructure control





## GAZLI KALIP YAYI KULLANIMINDA KULLANICI BİLGİLERİ

En iyi servis ömrü ve emniyetli kullanım için aşağıda verilen talimatlara uymalısınız. Gazlı yaylar özel olarak kalıp ve makine uygulamaları için tasarlanmıştır. Genel bilgiler katalogta verilmiştir.

Gazlık Kalıp Yayını uygun bir flanşla yada kalıptaki deliğe vidalayarak gazlı yayı emniyetle bağlayın.

Piston mili ucundaki vida kesinlikle gazlı yayı montaj amaçlı değildir. Bu yalnızca gazlı yaya servis amacıyla kullanılabilir.

Kesinlikle piston baskıda iken üzerindeki yükü ani olarak almayın. Bu durum pistonun ani ivmelenmesine ve iç yapının zarar görmesine neden olur. Katalogta verilen maksimum çalışma hızlarına uyunuz. Aksi halde çalışma ömrü kısalmır.

Gazlı yayı bası yükü ile paralel bağlayın. Aksi durum hasara ve istenmeyen durumlara neden olabilir.

Pistona temas edecek yüzeylerin sertleştirildiğinden ve kurs eksenine dik olmasına dikkat edin. Çünkü kuvvetler çok yüksektir.

Gazlı yay yanal yükleri karşılamaz. Pistonu mekanik darbelerden ve sıvı temasından uzak tutunuz. Aksi halde ömür kısalmır.

Kurs bitiminde 5 mm veya toplam kursun %10 kadarı kullanılmamanızı öneririz. Bu Gazlı Yayın emniyetli çalışması açısından önemlidir.

Maksimum şarj basıncını -ki etiketlerde 20 °C için verilmiştir- aşmayın. Bu gazlı yay emniyetini etkiler. Önerilen çalışma sıcaklıklarını aşmanız servis ömrünü kısalmır.

DESTEK gazlı yay katalogunda her tip için değişik bağlama bilgileri ve bağlama tiplerine yer verilmiştir.

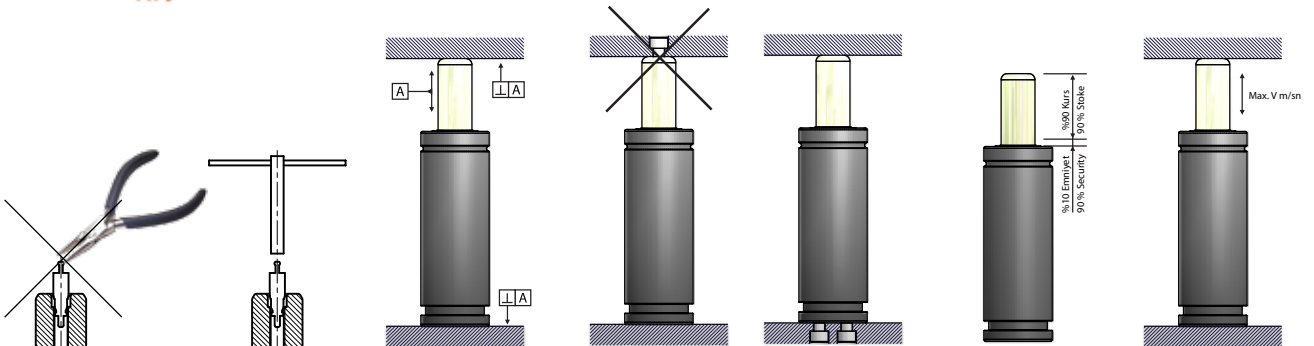
Gazlı yayı tabandan vidalayarak bağladığınızda şu torkları aşmayınız: (M6 = 10 Nm; M8 = 24 Nm; M10 = 45 Nm; M12 = 80 Nm)

Şayet doğru bir şekilde monte edilmişse uzun servis zamanları elde edilir. Dayanım ömrü çalışma şartlarına, hıza ve kullanım yerine göre değişir. Gazlı yaylar tümüyle servis edilebilir. Gazlı yay tamir takımlarını bizden isteyebilir, yada servisimizden destek isteyebilirsiniz. Servis talimatları tamir takımları ile beraberdir.

**DİKKAT!** Yalnızca eğitilmiş personel gazlı yayları tamir edebilir ve dolum yapabilir. Aksi halde kişisel olarak zarar görebilir yada gazlı yayın servis ömrünü azaltırsınız.

Daha fazla bilgi için DESTEK gazlı yay kataloguna bakabilir, [www.desteklift.com](http://www.desteklift.com) dan bilgi edinebilir veya bir yerel dağıtıcımızla temasa geçiniz.

**DİKKAT!** Kesinlikle ürün üzerinde değişiklik yapmayınız.



## USER INFORMATION FOR GAS SPRING APPLICATION

To achieve the best possible service-life and safety from the gas spring, the instructions below must be followed. The gas spring is intended for use in tool, die and machine applications. General information can be found in our catalogue.

Secure the gas spring to the tool/ machine whenever possible, using the threaded hole(s) in the base of the gas spring or a suitable flange.

The threaded hole in the piston rod top should not be used for mounting purposes. It is only to be used when servicing the gas spring.

Do not use the gas spring in such a way that the piston rod is released freely from its compressed position, as this could cause internal damage to the gas spring. The maximum velocity values stated in our catalogue must be followed as otherwise service life of the gas spring will reduce.

Make sure the gas spring is mounted parallel to the direction of the compression stroke.

Ensure the contact surface of the piston rod top is perpendicular to the direction of the compression stroke and is sufficiently hardened. Because forces are very high.

The gas spring should not be subjected to side loads. Protect the piston rod against mechanical damage and contact with fluids.

We do not recommend the last 5 mm or 10 % of the nominal stroke be utilized. This is important for the safe working of the gas spring.

The maximum charging pressure (at 20°C) must not be exceeded as it may effect the safety of the product. Exceeding the gas spring's recommended operating temperature will shorten the service-life of the gas spring.

Various mounting possibilities of gas springs are given in our catalogue.

Never exceed the maximum torque values for the threads in the base of the gas spring: (M6 = 10 Nm; M8 = 24 Nm; M10 = 45 Nm; M12 = 80 Nm)

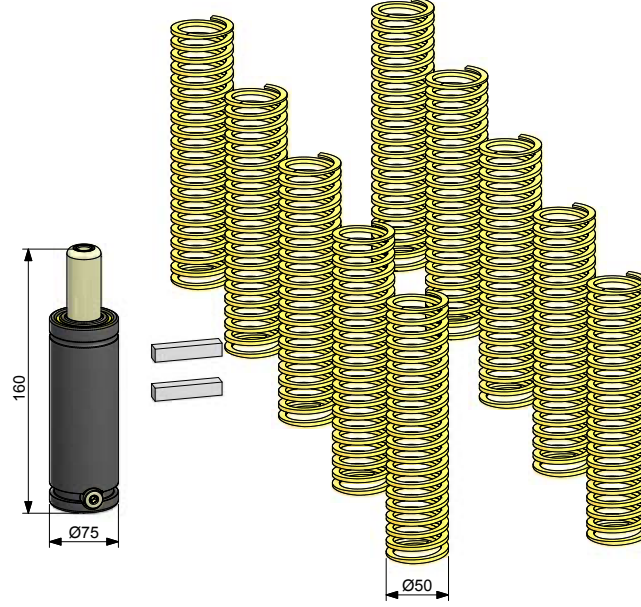
If correctly installed and used, long life gas spring service-intervals can be expected. Service life change with stroke lengths, conditions and velocity. The gas springs are fully serviceable. To service a gas spring, repair kits and tool kits are available. Service instructions are included with every repair kit.

**CAUTION!** Only trained personnel with a good knowledge of the products should service the gas spring. Mistakes made during assembly and charging may infringe on safety and/or detrimentally effect the service-life of the gas spring.

For more information see the DESTEK' gas spring catalogue, [www.desteklift.com](http://www.desteklift.com) or contact your local distributor.

**CAUTION!** Do not modify the product in any way.

## GAZLI YAY AVANTAJLARI ADVANTAGES OF NITROGEN GAS SPRINGS

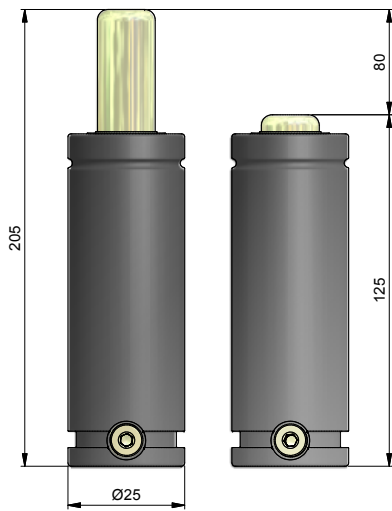


### 🇹🇷 DAR ALANDA BÜYÜK KUVVET

Ø75mm Çaplı bir Gazlı yay Ø50mm olan 10 adet çelik yayın sağladığı kuvveti sağlayabilir. Bu nedenle daha kompakt ve ekonomik kalıplar yapılabilir.

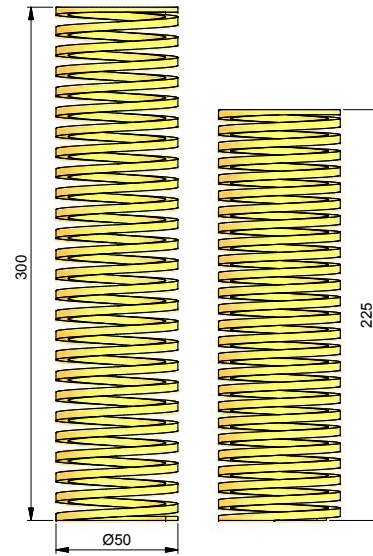
### 🇬🇧 MORE FORCE IN LESS SPACE

One Nitrogen Gas Spring with Ø75mm diameter can replace as many as 10 pcs. Ø50mm diameter mechanical springs. The required working surface is smaller, resulting in a more compact and economic die construction.



### 🇹🇷 AYNI KURS İÇİN KISA BOY

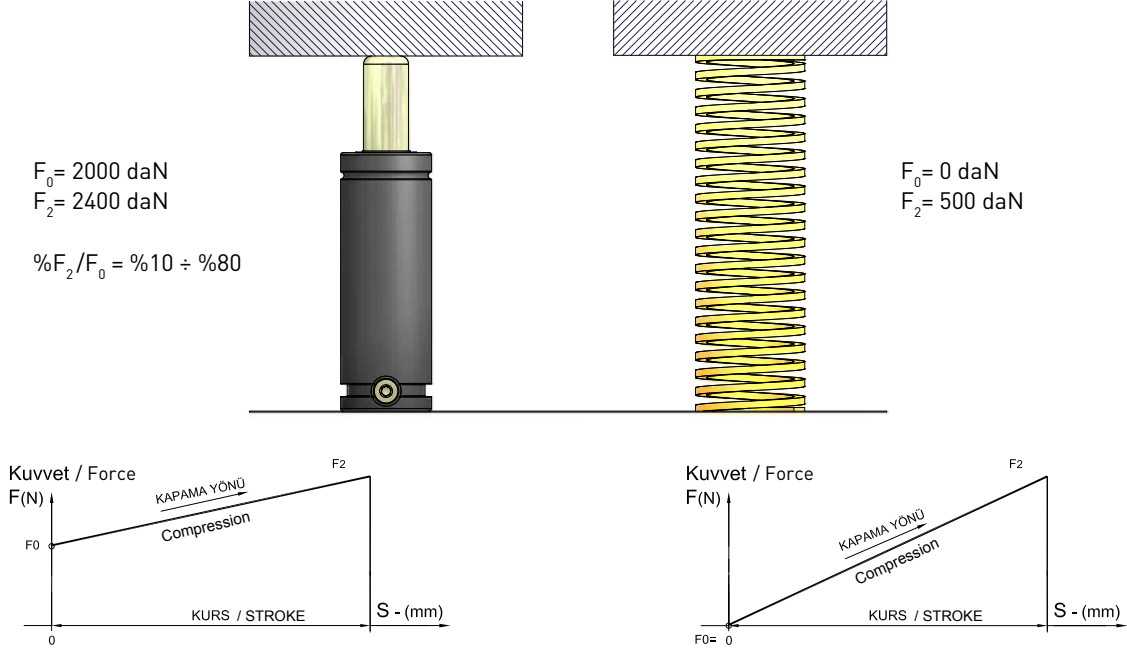
80 mm Kurs ve 200 daN bir kuvvet için standart yaylarda 305 mm başlangıç boyu gereklidir. Aynı kurs için gazlı yayın yüksekliği %40 daha azdır.



### 🇬🇧 LESS HEIGHT FOR SAME STROKE

Consider an application requiring a 80mm stroke and 200 daN force . A mechanical spring would need to be approximately 305 mm tall. A nitrogen gas spring smaller than %40 tall for a same stroke.

## GAZLI YAY AVANTAJLARI ADVANTAGES OF NITROGEN GAS SPRINGS

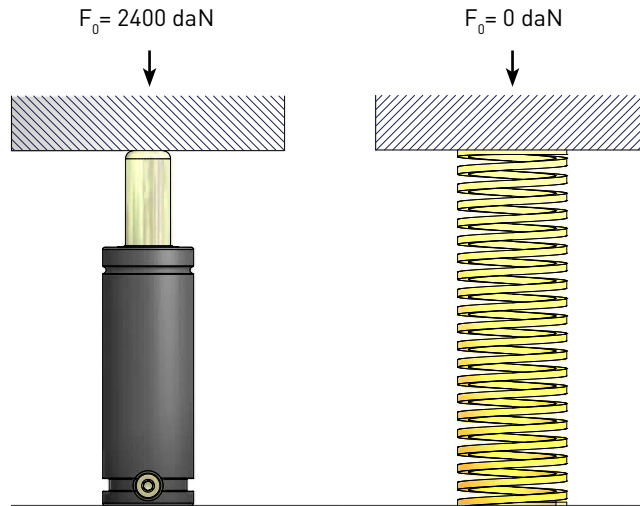


### 🇹🇷 KONTROL EDİLEBİLİR KUVVET ARTIŞI

Kurs boyunca daha az kuvvet artışı. Kuvvet artışı gazlı yaylarda kontrol edilebilir. Daha kaliteli parçalar elde edilebilir.

### 🇬🇧 ALMOST CONSTANT FORCE

Almost constant force throughout the stroke resulting better control of parts during the forming operation. As a result better quality parts.



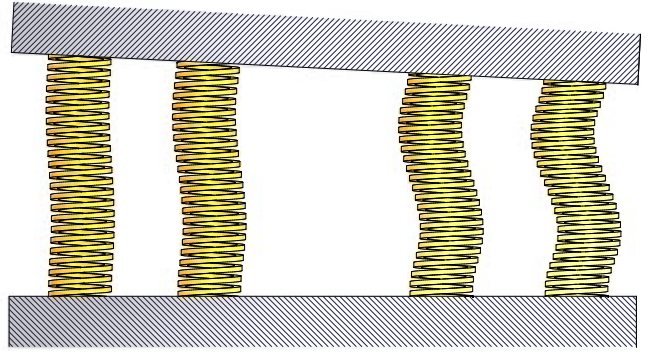
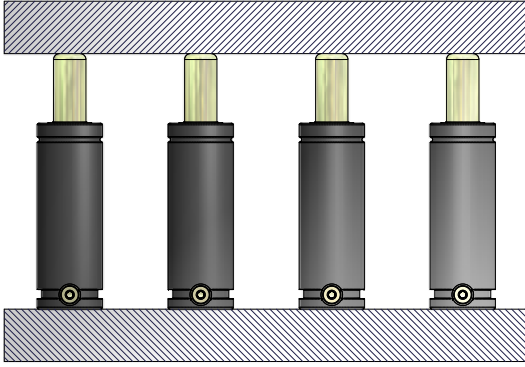
### 🇹🇷 TEMASTA TAM YÜK

Gazlı yay tam ön yüklemeli olarak gelmektedir. Mekanik yaylarda ön yükleme ayrıca verilmelidir. Ön yüklemenin kalkması daha küçük çıkarıcı ve emniyetli kalıpların yapılmasını sağlar.

### 🇬🇧 FULL FORCE ON CONTACT

Nitrogen Gas Springs provide full force on contact, eliminating the need to preload. Mechanical springs must be preloaded to provide force on pad contact. The elimination of preload results in a smaller retainer system and safer die.

## GAZLI YAY AVANTAJLARI ADVANTAGES OF NITROGEN GAS SPRINGS

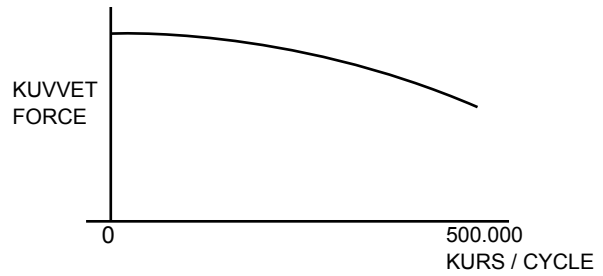
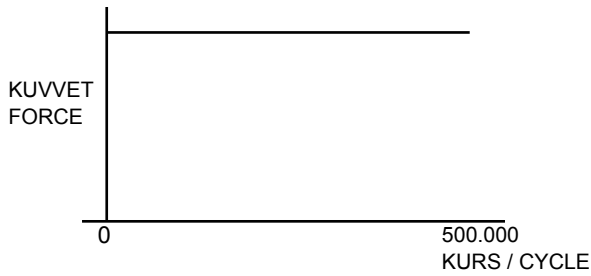


### 🇹🇷 DENGELİ YÜKLEME

Gazlı yay kalıp sistemlerinde kullanıldığında dengeleme son derece kolaydır. Ancak mekanik yayları dengelemek zordur ve kırılmalara ve kasıtlara sebep olabilir. Böylece kalıp kırılmaları azalır, kalıp ömrü uzar ve kaliteli parça üretimi yapılır.

### 🇬🇧 BALANCED FORCE

Nitrogen gas springs provide balanced force on the pad at each contact point. A pad using mechanical springs becomes imbalanced due to fatigue and/or breaking of mechanical springs. As a result less punch breakage, longer punch and tool life and better quality parts.



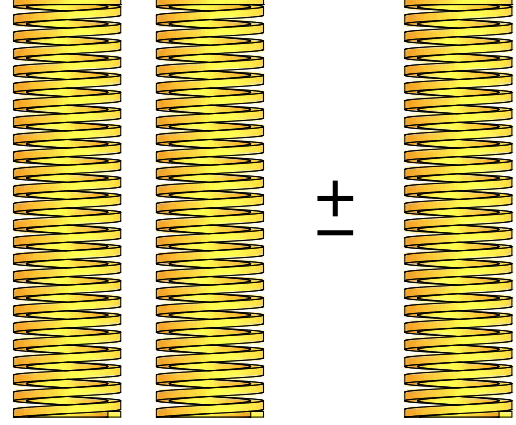
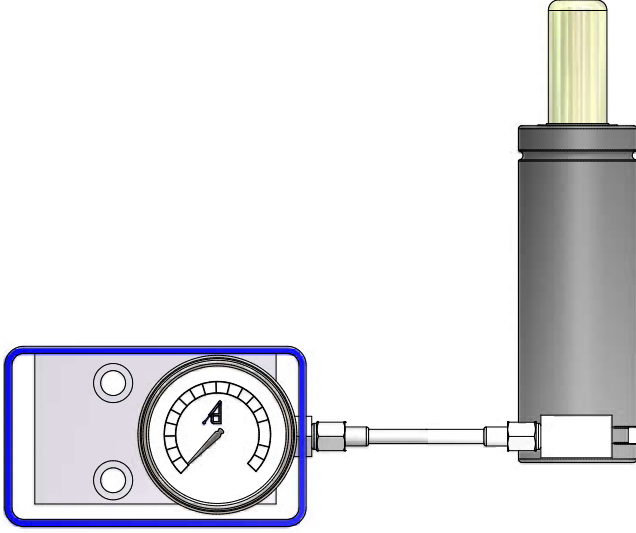
### 🇹🇷 SABİT KUVVET

Gazlı yayları kullanıldığı sürece kuvvetleri görece sabittir. Bu, çıkan parçaların sürekli düzgün olmasını sağlar.

### 🇬🇧 CONSISTENT FORCE

The pad force is consistent. The force can be repeated each time the die goes into the press. As a result better quality parts

## GAZLI YAY AVANTAJLARI ADVANTAGES OF NITROGEN GAS SPRINGS

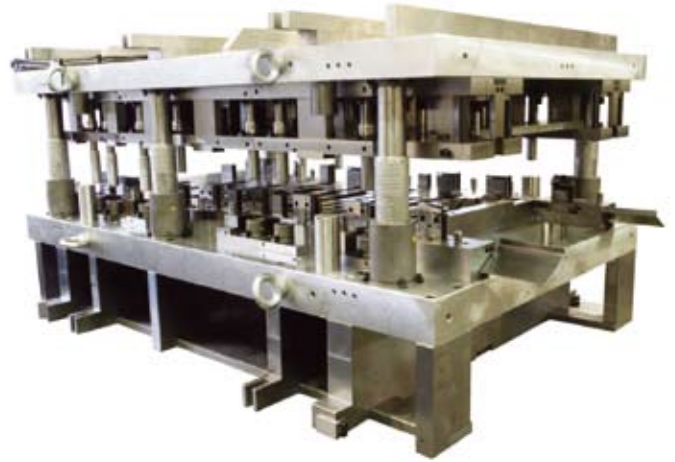


### AYARLANABİLİR KUVVET

Gazlı yaylarının kuvvetleri azot ilavesi veya boşaltması ile kalıp üstünde iken bile kolayca değiştirilebilir. Gazlı Yay kullanıldığı sürece kuvvetleri görece sabittir. Bu, çıkan parçaların sürekli düzgün olmasını sağlar. Mekanik yaylarda ise ya yay ilavesi veya ön gerilmenin artırılması ve azaltılması ile kuvvetler değişebilir. Kolay kuvvet değişimi zaman tasarrufu sağlar.

### ADJUSTABLE FORCE

For adjusting the force at mechanical springs you must change the number of springs or change the preload on existing springs. The pressure of Nitrogen Gas Springs can easily be refilled or released through a control panel while the die is still on the press. The pressure gauge will give an accurate pressure reading. As a result, quick and easy adjusting of the force and assurance of defined force.



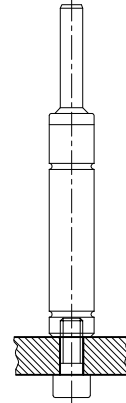
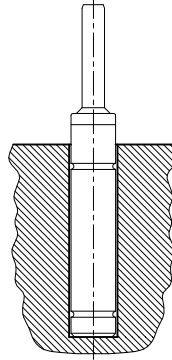
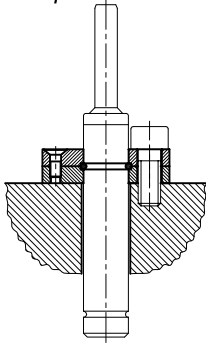
### KISA AYAR ZAMANI

Özellikle yastıklı sistemlerde setup zamanları Gazlı yay ile kısılır.

### SHORT SETUP TIME

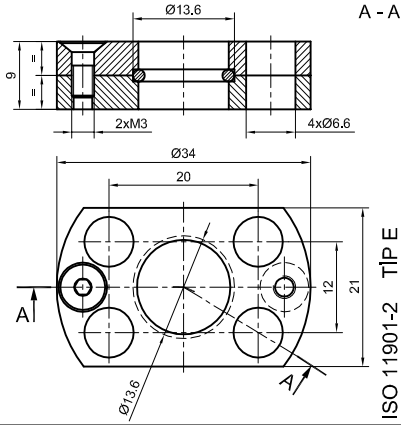
Usage of Nitrogen Gas Springs gives shorter setup time especially at cushion systems..

Montaj Örneği  
Mounting Example

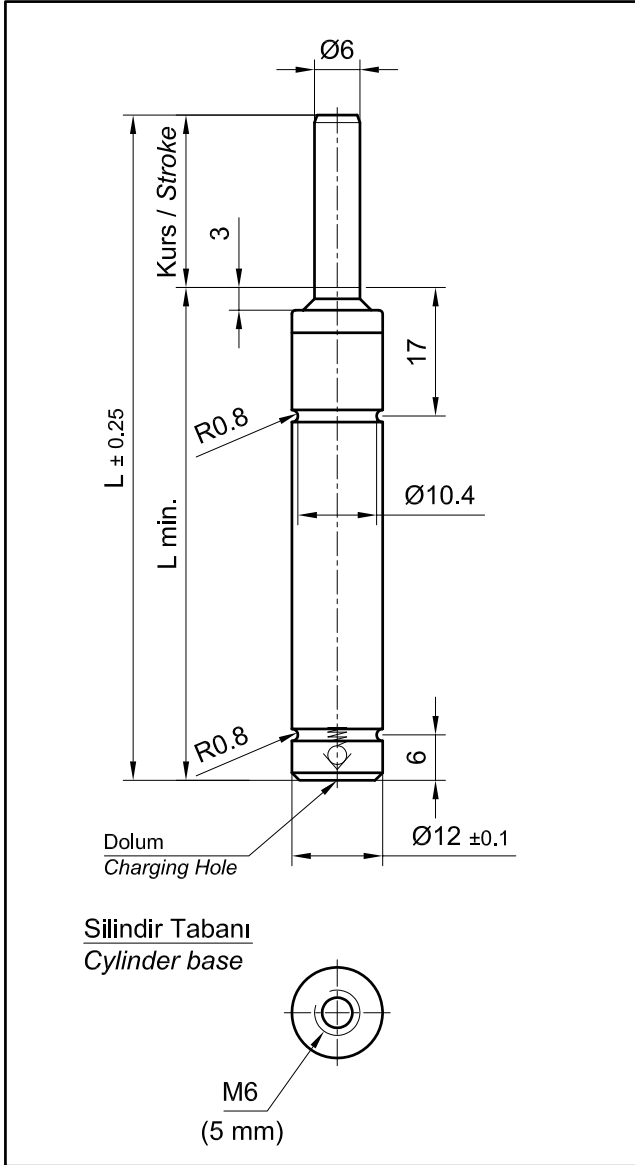


12

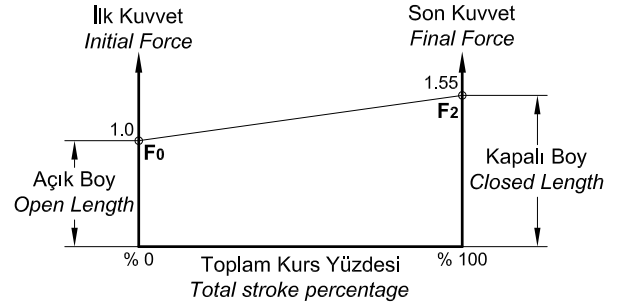
205 100 410



max. 50 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolun basıncı	: 180 bar
Max. filling pressure	
Min. dolun basıncı	: 20 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 40 ÷ 100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 40 to 100 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

65 MS 12 - 13 - 007

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

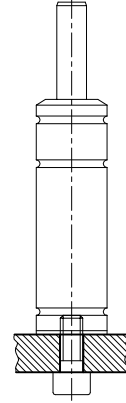
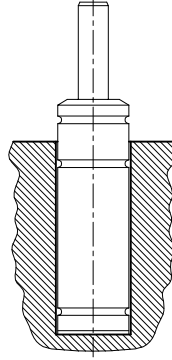
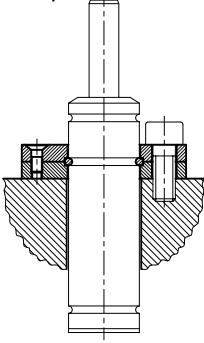
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 MS 12 - . . . - 007	7	56	49
65 MS 12 - . . . - 010	10	62	52
65 MS 12 - . . . - 013	13	67.4	54.7
65 MS 12 - . . . - 015	15	72	57
65 MS 12 - . . . - 019	19	80	61
65 MS 12 - . . . - 025	25	92	67
65 MS 12 - . . . - 038	38	118	80
65 MS 12 - . . . - 050	50	142	92
65 MS 12 - . . . - 063	63	172	109
65 MS 12 - . . . - 075	75	195	120
65 MS 12 - . . . - 080	80	205	125
65 MS 12 - . . . - 100	100	245	145
65 MS 12 - . . . - 125	125	295	170

### Yay kuvveti / Spring force

P bar	F <sub>0</sub> daN				Müşteri talep ederse, SIFIR basıncıta gönderilir On request without pressure
45	13	25	38	50	
90					
140					
180					
0					
	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

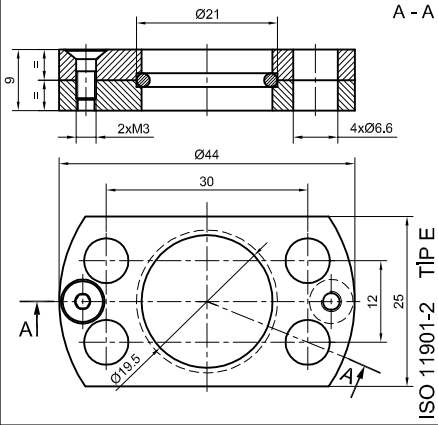
13 25 38 50 00

Montaj Örneği  
Mounting Example



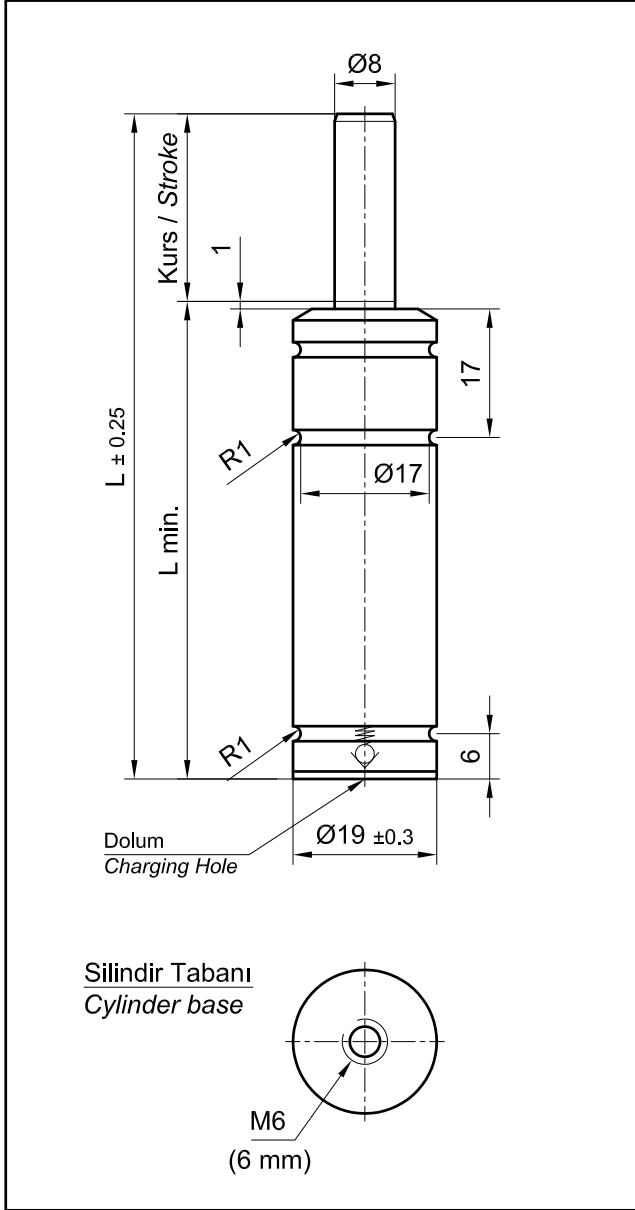
19

205 100 420

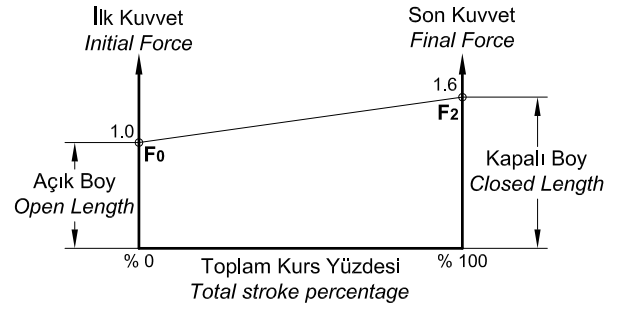


max. 90 daN

ISO 11901-1 / VDI 3003



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 180 bar
Min. dolum basıncı Min. filling pressure	: 10 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 100 ÷ 150 tur/dak. (20 °C'de) : approx. 100 to 150 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

65 MS 19 - 05 - 007

Kurs (mm)  
Stroke

F<sub>0</sub> (daN)

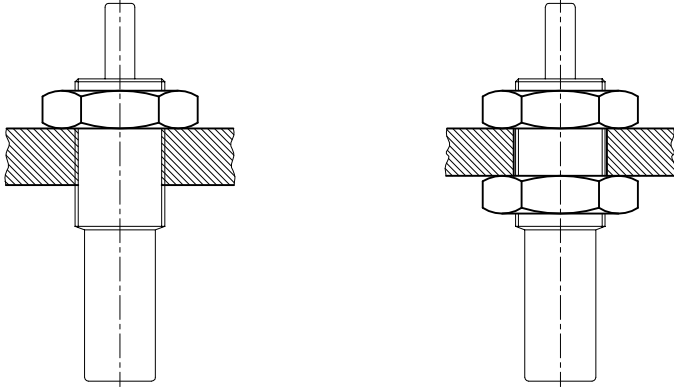
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	ISO
65 MS 19 - . . . 007	7	56	49	
65 MS 19 - . . . 010	10	62	52	
65 MS 19 - . . . 013	13	67.4	54.7	√
65 MS 19 - . . . 015	15	72	57	√
65 MS 19 - . . . 025	25	92	67	√
65 MS 19 - . . . 038	38	118	80	√
65 MS 19 - . . . 050	50	142	92	√
65 MS 19 - . . . 063	63	172	109	√
65 MS 19 - . . . 080	80	205	125	√
65 MS 19 - . . . 100	100	245	145	√
65 MS 19 - . . . 125	125	295	170	√

### Yay kuvveti / Spring force

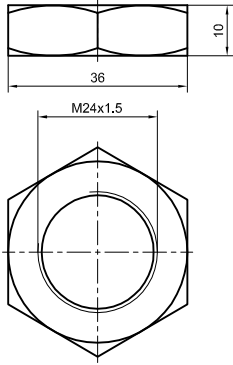
P bar	F <sub>0</sub> daN						Müşteri talep ederse, SIFIR basınca gönderilir On request without pressure
10	5	10	30	50	70	90	
20							
60							
100							
140							
180							
0							
	Turuncu Orange	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

05 10 30 50 70 90 00

Montaj Örneği  
 Mounting Example


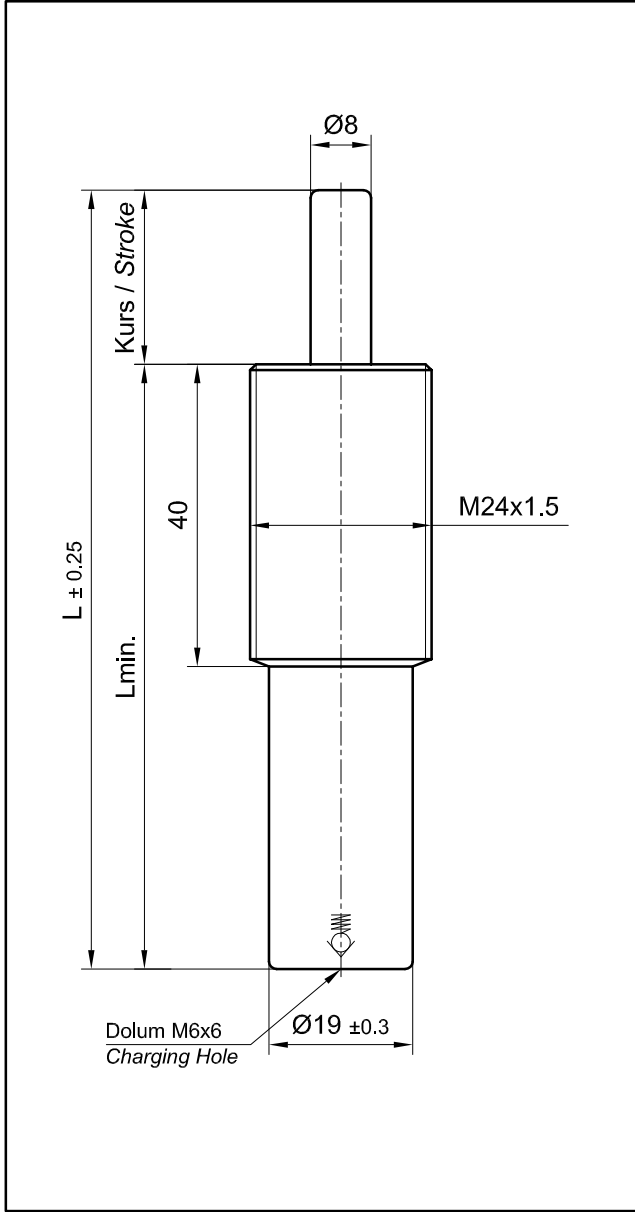
24

220 620 055

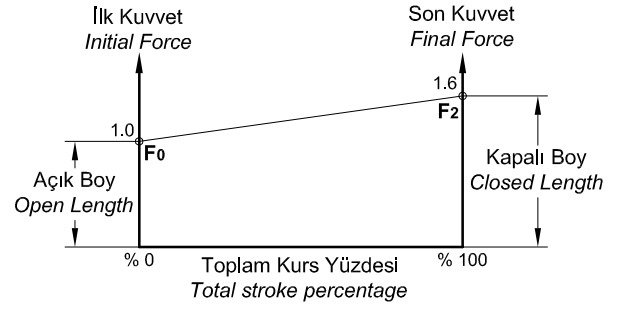


max. 90 daN

Vidalalı Gövde / Threaded Body



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolun basıncı	: 180 bar
Max. filling pressure	
Min. dolun basıncı	: 10 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 30÷80 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 30 to 80 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

**65 MSM 24 - 05 - 007**

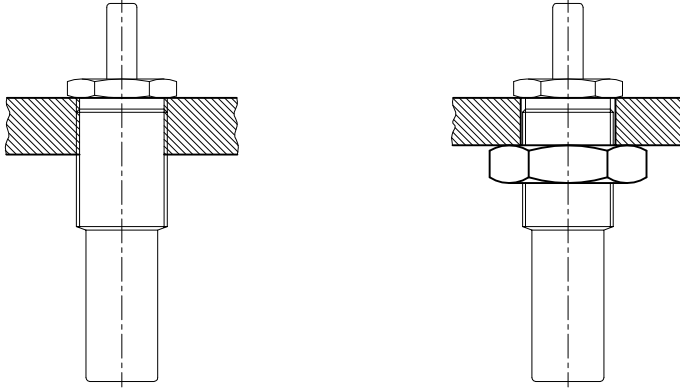
Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 MSM 24 - . . - 007	7	56	49
65 MSM 24 - . . - 010	10	62	52
65 MSM 24 - . . - 013	13	67.4	54.7
65 MSM 24 - . . - 015	15	72	57
65 MSM 24 - . . - 025	25	92	67
65 MSM 24 - . . - 038	38	118	80
65 MSM 24 - . . - 050	50	142	92
65 MSM 24 - . . - 063	63	172	109
65 MSM 24 - . . - 080	80	205	125
65 MSM 24 - . . - 100	100	245	145
65 MSM 24 - . . - 125	125	295	170

### Yay kuvveti / Spring force

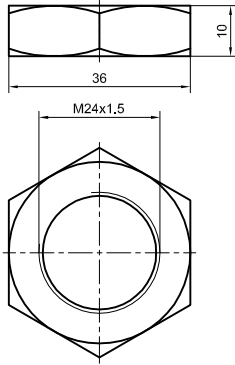
P bar	F <sub>0</sub> daN						Müşteri talep ederse, SİFİR basınca gönderilir On request without pressure
10	5	10	30	50	70	90	
20							
60							
100							
140							
180							
0							
	Turuncu Orange	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

05 10 30 50 70 90 00

Montaj Örneği  
 Mounting Example


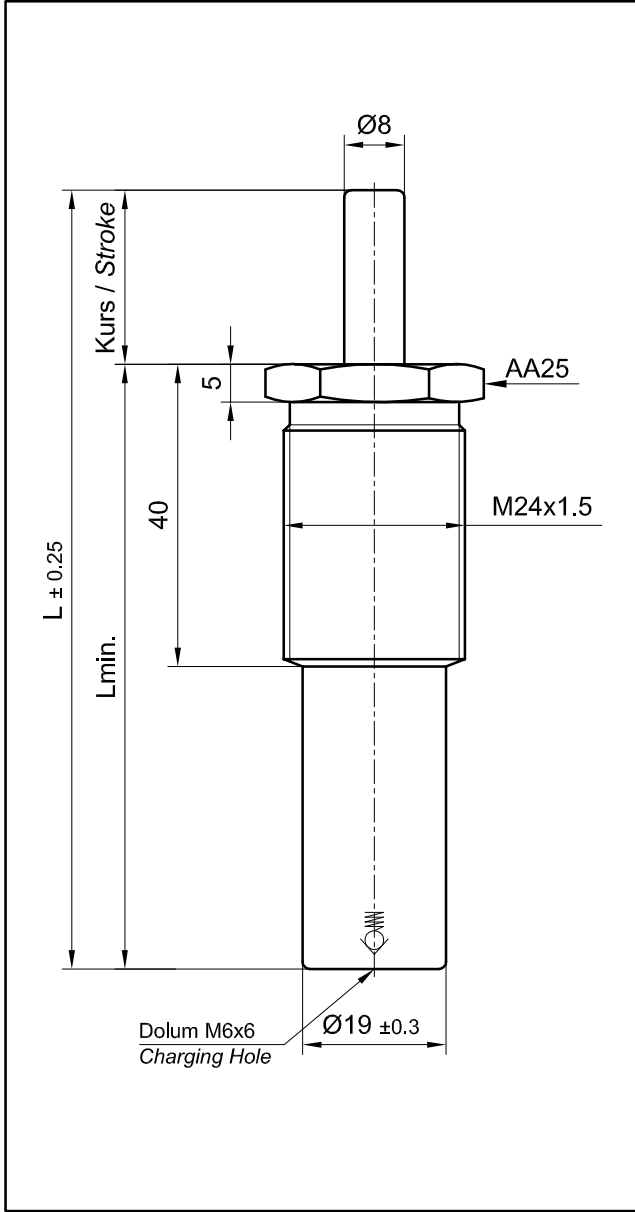
24

220 620 055

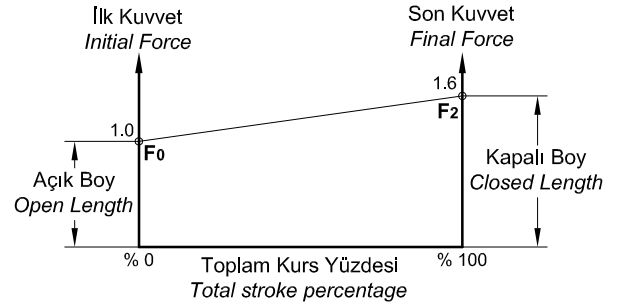


max. 90 daN

Vidalı Gövde / Threaded Body



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolun basıncı	: 180 bar
Max. filling pressure	
Min. dolun basıncı	: 10 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 30÷80 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 30 to 80 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

65 MSM 24A - 05 - 007

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

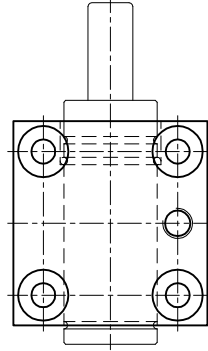
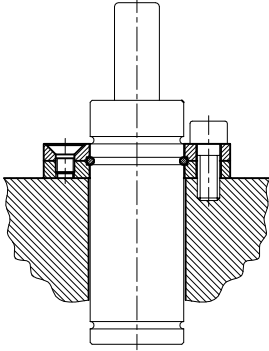
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 MSM 24A - . . . - 007	7	56	49
65 MSM 24A - . . . - 010	10	62	52
65 MSM 24A - . . . - 013	13	67.4	54.7
65 MSM 24A - . . . - 015	15	72	57
65 MSM 24A - . . . - 025	25	92	67
65 MSM 24A - . . . - 038	38	118	80
65 MSM 24A - . . . - 050	50	142	92
65 MSM 24A - . . . - 063	63	172	109
65 MSM 24A - . . . - 080	80	205	125
65 MSM 24A - . . . - 100	100	245	145
65 MSM 24A - . . . - 125	125	295	170

### Yay kuvveti / Spring force

P bar	F <sub>0</sub> daN						Müşteri talep ederse, SİFİR basıncıta gönderilir On request without pressure
10	5	10	30	50	70	90	
20	5	10	30	50	70	90	0
60	5	10	30	50	70	90	0
100	5	10	30	50	70	90	0
140	5	10	30	50	70	90	0
180	5	10	30	50	70	90	0
0	5	10	30	50	70	90	0
	Turuncu Orange	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

05 10 30 50 70 90 00

Montaj Örneği  
Mounting Example

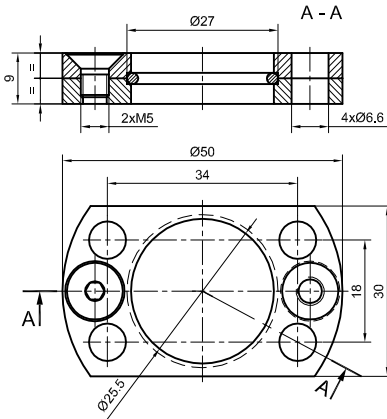


25

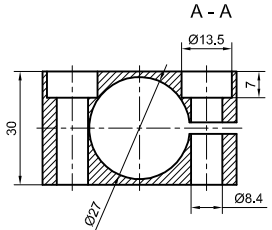
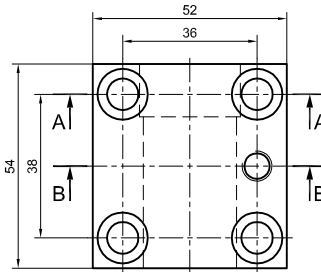
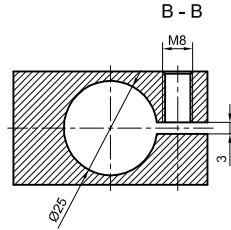
205 100 430

25

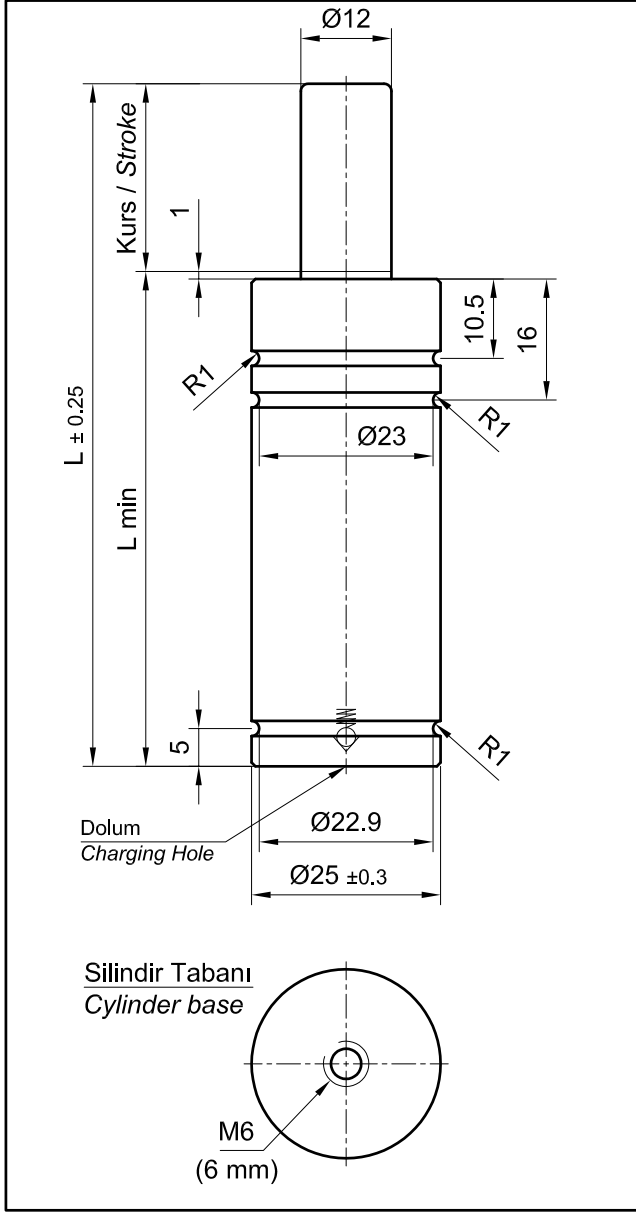
205 101 110



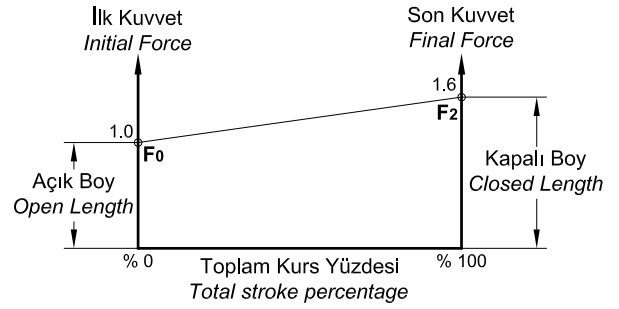
ISO 11901-2 TİPE



max. 200 daN



Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolun basıncı / Max. filling pressure	: 180 bar
Min. dolun basıncı / Min. filling pressure	: 15 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 80÷100 tur/dak. (20 °C'de) / approx. 80 to 100 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

65 MS 25.1 - 017 - 007

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

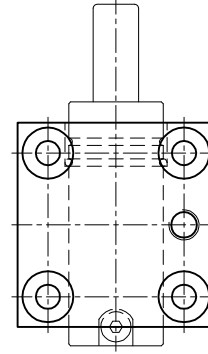
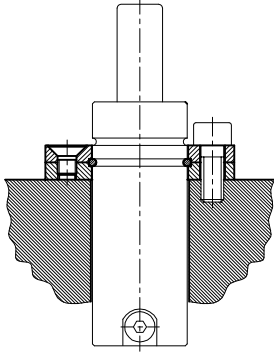
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	ISO
65 MS 25.1 - . . - 007	7	56	49	
65 MS 25.1 - . . - 010	10	62	52	
65 MS 25.1 - . . - 013	13	67.4	54.7	
65 MS 25.1 - . . - 015	15	72	57	√
65 MS 25.1 - . . - 025	25	92	67	√
65 MS 25.1 - . . - 038	38	118	80	√
65 MS 25.1 - . . - 050	50	142	92	√
65 MS 25.1 - . . - 063	63	172	109	√
65 MS 25.1 - . . - 080	80	205	125	√
65 MS 25.1 - . . - 100	100	245	145	√
65 MS 25.1 - . . - 125	125	295	170	√

### Yay kuvveti / Spring force

P bar	F <sub>0</sub> daN						Müşteri talep ederse, SIFIR basıncı gönderilir On request without pressure
15	17	28	50	100	150	200	
25							
45							
90							
135							
180							
0							
	Turuncu Orange	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

17 28 50 100 150 200 00

Montaj Örneği  
Mounting Example

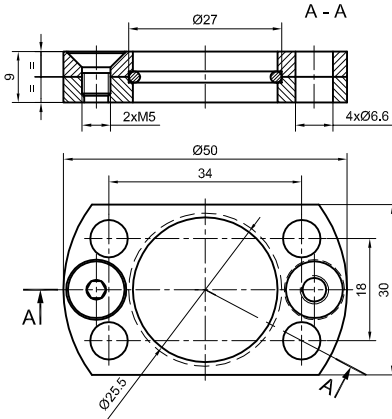


25

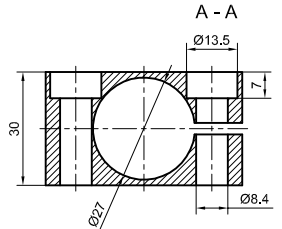
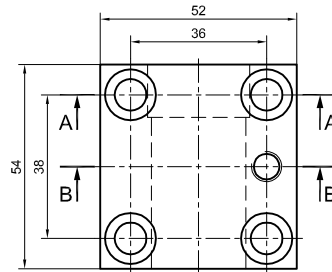
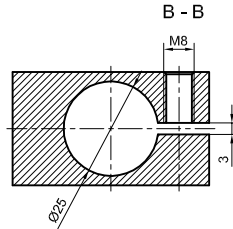
205 100 430

25

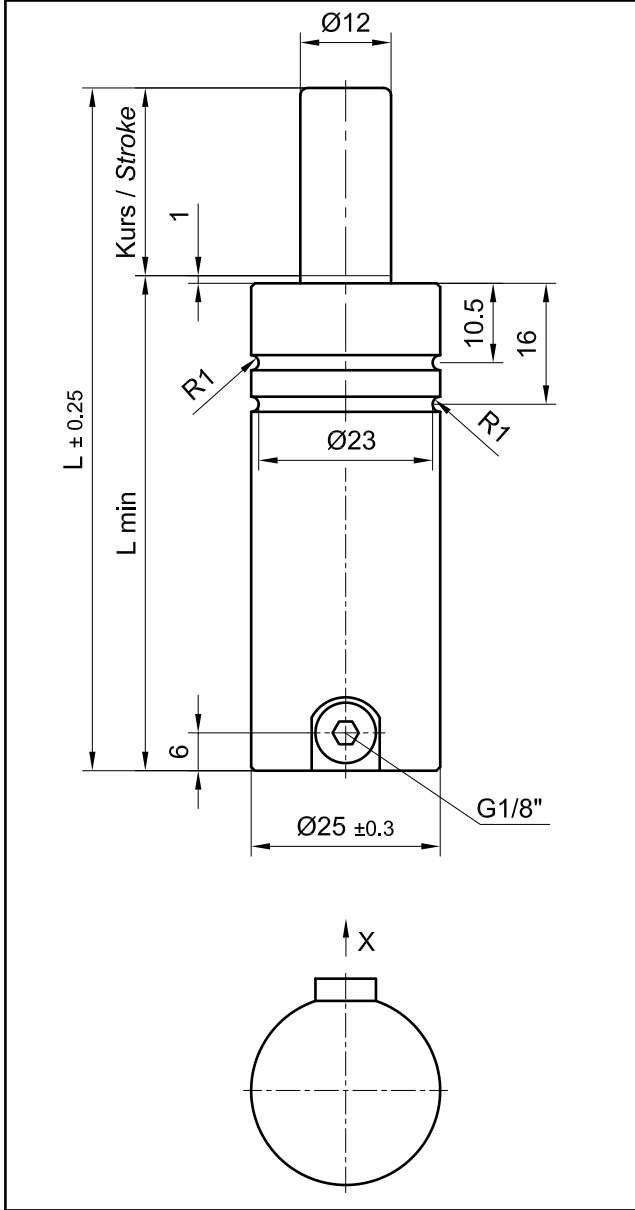
205 101 110



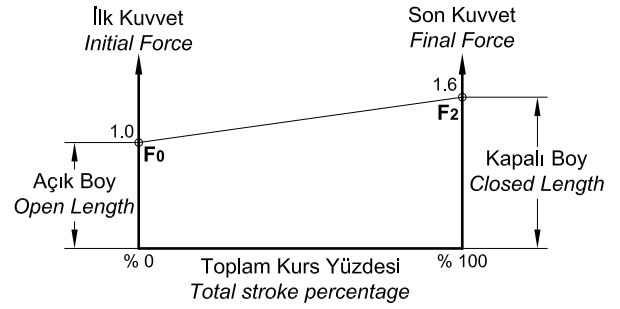
ISO 11901-2 TİPE



max. 200 daN



Dolum gazı Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 180 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

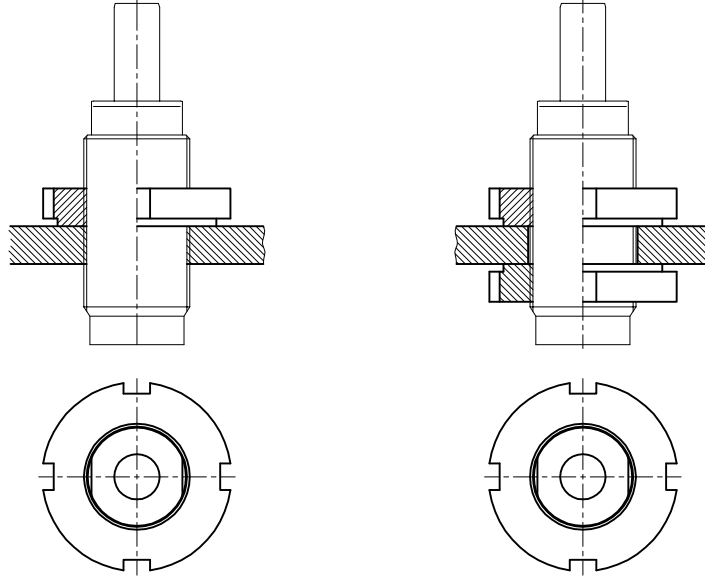
65 MS 25.2 - 000 - 007

Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

Doldurulmadan gönderilir.  
Hortum bağlantısı ile birbirine bağlantılı kullanılır.  
Supplied unpressurised.  
Gas springs are connectable by pipes.

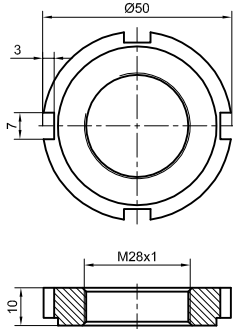
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN	ISO
65 MS 25.2 - 000 - 007	7	56	49	180 25	200	320	
65 MS 25.2 - 000 - 010	10	62	52				
65 MS 25.2 - 000 - 013	13	67.4	54.7				
65 MS 25.2 - 000 - 015	15	72	57				✓
65 MS 25.2 - 000 - 016	16	74	58				
65 MS 25.2 - 000 - 025	25	92	67				✓
65 MS 25.2 - 000 - 038	38	118	80				✓
65 MS 25.2 - 000 - 050	50	142	92				✓
65 MS 25.2 - 000 - 063	63	172	109				✓
65 MS 25.2 - 000 - 080	80	205	125				✓
65 MS 25.2 - 000 - 100	100	245	145				✓



Montaj Örneği  
 Mounting Example


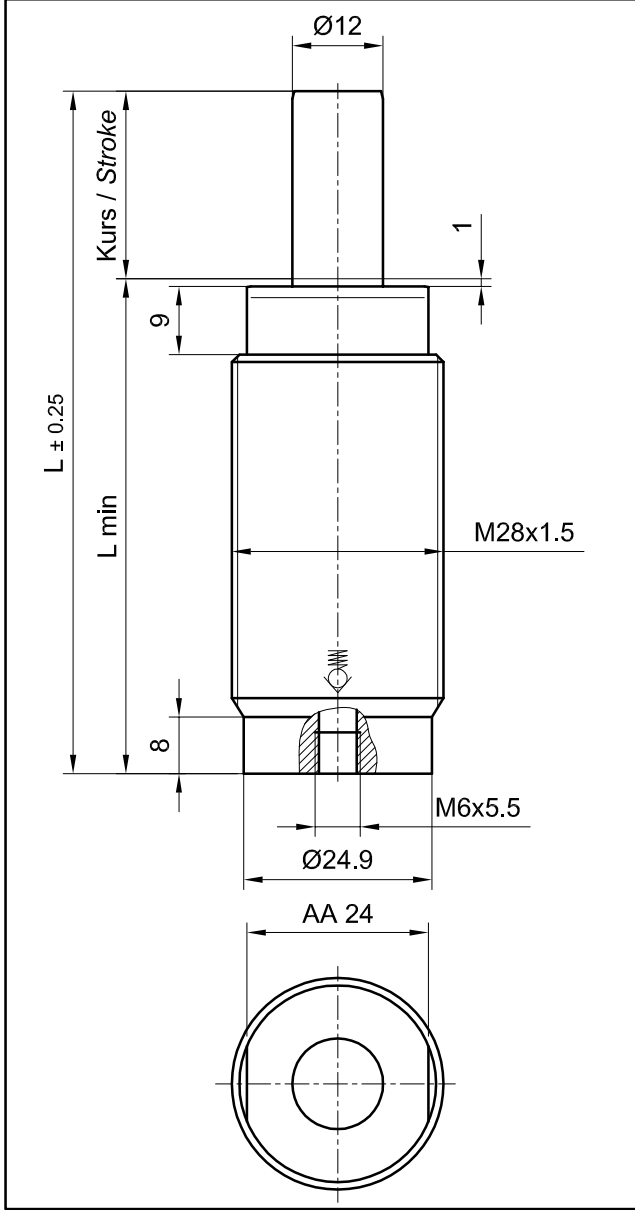
28

220 820 010

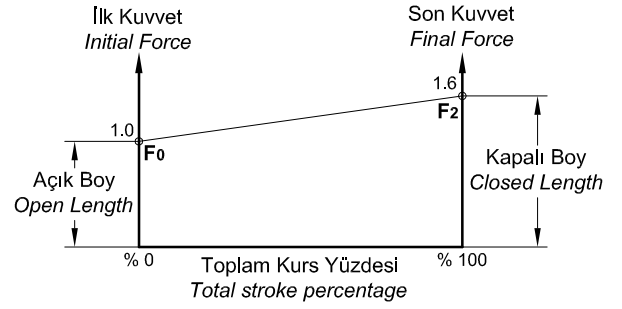


max. 200 daN

Vidalı Gövde / Threaded Body



Dolum gaz / Pressure medium	: Azot N2 / Nitrogen N2
Maks. dolun basıncı / Max. filling pressure	: 180 bar
Min. dolun basıncı / Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 80÷100 tur/dak. (20 °C'de) / approx. 80 to 100 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

65 MSM 28 - 050 - 007

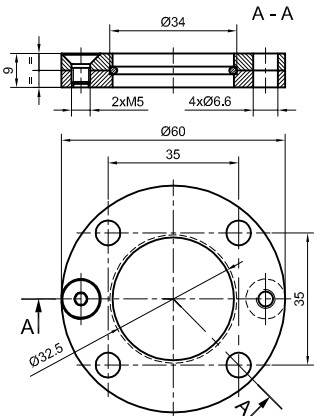
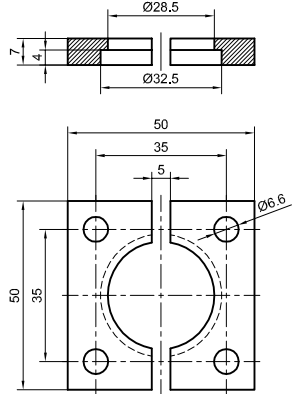
Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 MSM 28 - . . - 007	7	56	49
65 MSM 28 - . . - 010	10	62	52
65 MSM 28 - . . - 013	13	67.4	54.7
65 MSM 28 - . . - 015	16	74	58
65 MSM 28 - . . - 025	25	92	67
65 MSM 28 - . . - 038	38	118.2	80.1
65 MSM 28 - . . - 050	50	142	92
65 MSM 28 - . . - 063	63	169	105.5
65 MSM 28 - . . - 080	80	202	122
65 MSM 28 - . . - 100	100	242	142
65 MSM 28 - . . - 125	125	292	167

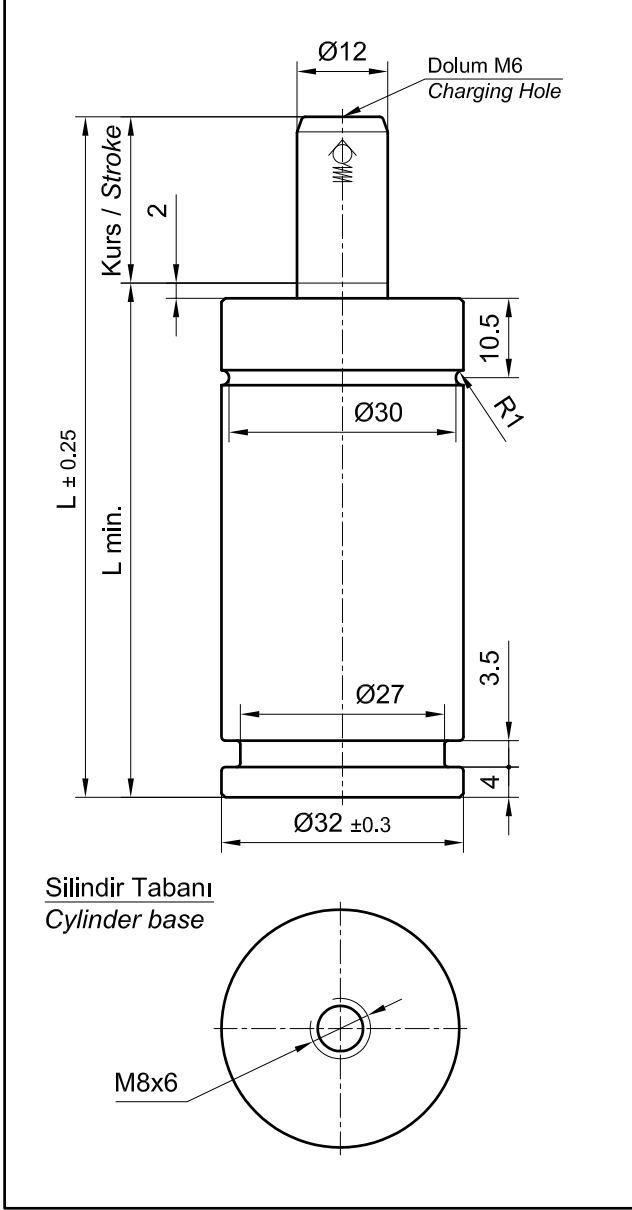
### Yay kuvveti / Spring force

P bar	F0 daN				Müşteri talep ederse, SİFİR başıncı gönderilir On request without pressure
45	50	100	150	200	
90					
135					
180					
0					
	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

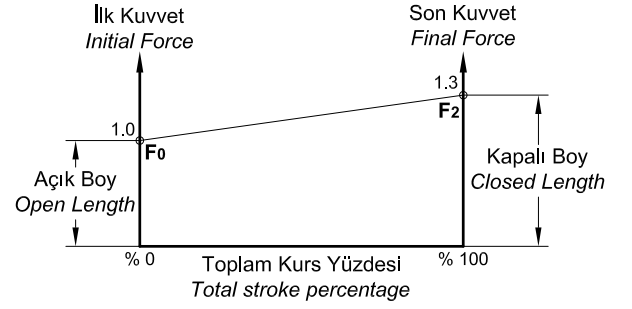
050 100 150 200 000

<p>32 205 100 510</p>  <p>ISO 11901-2 TİP C</p>		
<p>32 205 100 210</p>  <p>ISO 11901-2 TİP B</p>		

150 daN



Dolum gaz / Pressure medium	: Azot N2 / Nitrogen N2
Maks. dolun basıncı / Max. filling pressure	: 150 bar
Min. dolun basıncı / Min. filling pressure	: 50 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) / approx. 80 to 100 (at 20 °C)

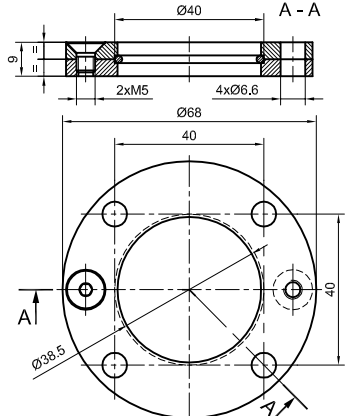
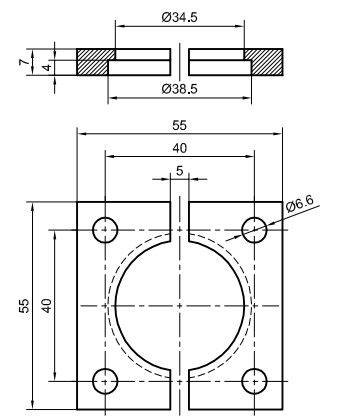
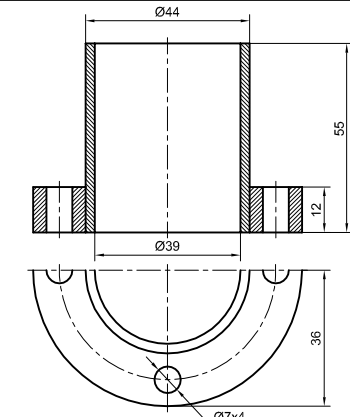
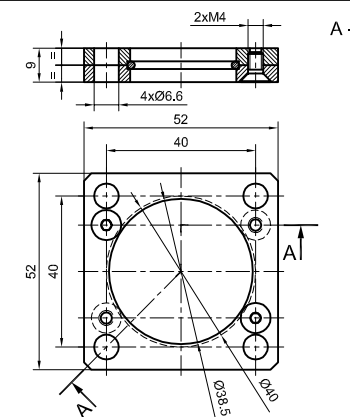
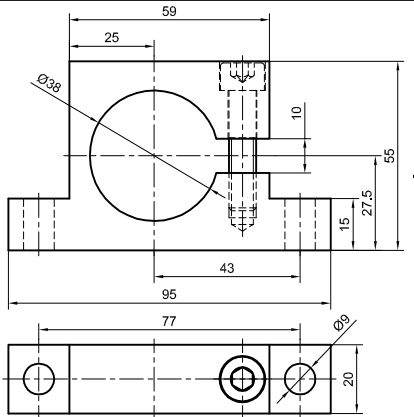
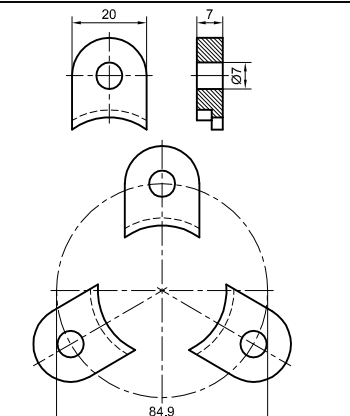
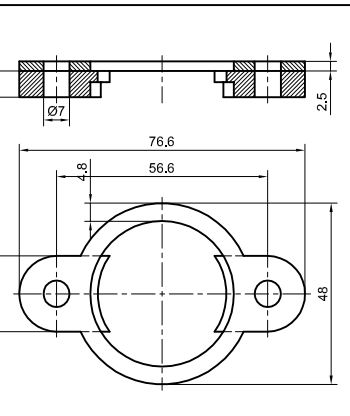


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

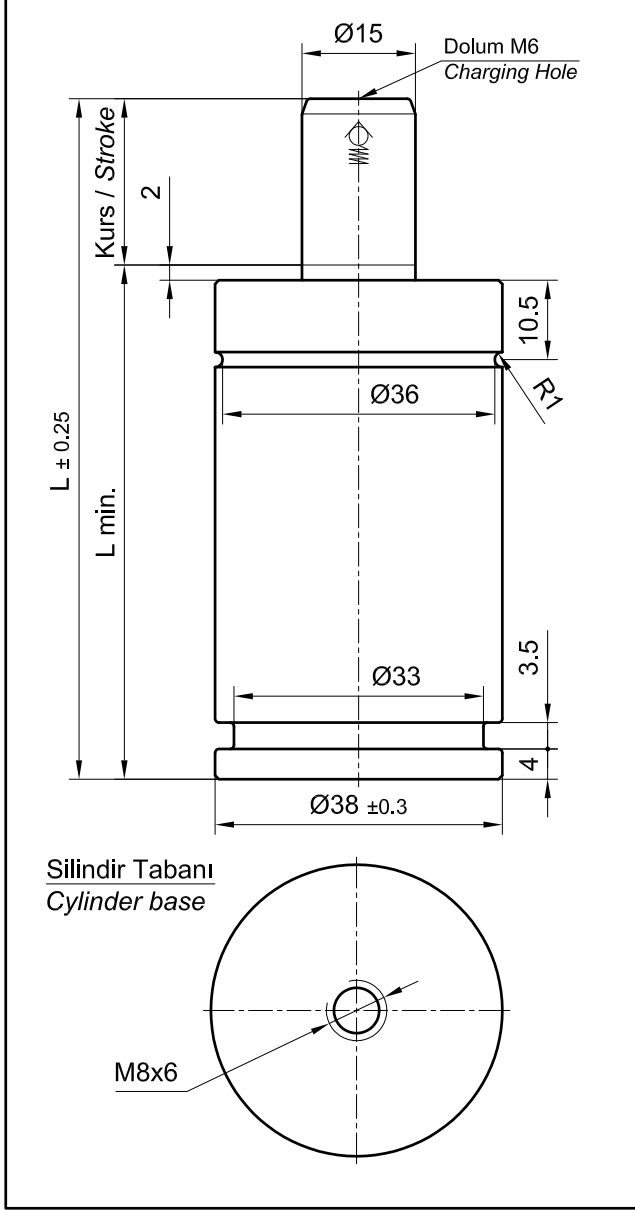
**65 ST 150 - 010**

65	ST	150	-	010
				Kurs (mm) Stroke
				F0 (daN)
				Tip Type

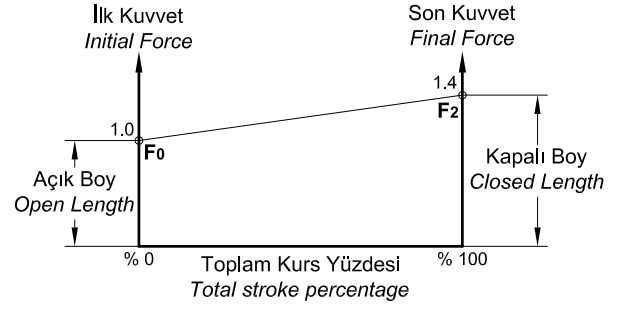
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN	ISO
65 ST 150 - 010	10	70	60	150 50	150	195	√
65 ST 150 - 013	13	75.4	62.7				
65 ST 150 - 016	16	82	66				√
65 ST 150 - 025	25	100	75				√
65 ST 150 - 038	38	126	88				
65 ST 150 - 050	50	150	100				√
65 ST 150 - 063	63	177	113.5				
65 ST 150 - 080	80	210	130				√
65 ST 150 - 100	100	250	150				
65 ST 150 - 125	125	300	175				

<p>38 205 100 519</p>  <p>ISO 11901-2 TİP C</p>	<p>38 205 100 220</p>  <p>ISO 11901-2 TİP B</p>	
<p>38 205 101 280</p> 	<p>38 205 100 610</p>  <p>ISO 11901-2 TİP C2</p>	<p>38 205 100 820</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>38 205 101 510</p> 		
<p>38 205 101 511</p> 		

250 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 50 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 80 ÷ 100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 80 to 100 (at 20 °C)

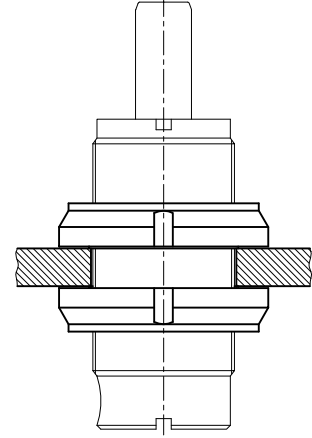
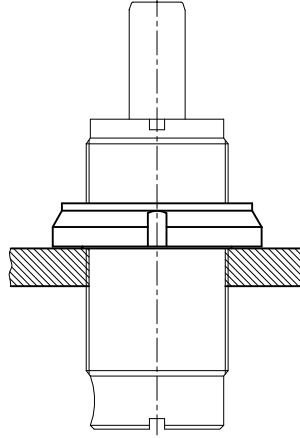
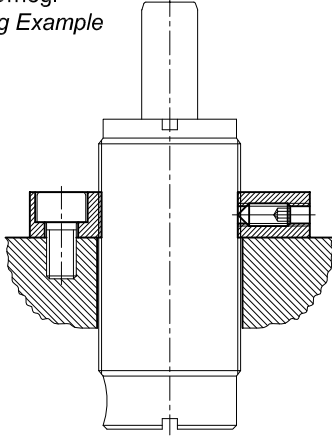


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 ST 250 - 010**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

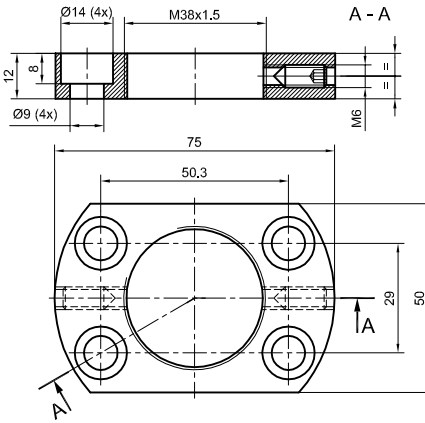
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN	ISO
65 ST 250 - 010	10	70	60	150 50	250	350	√
65 ST 250 - 013	13	75.4	62.7				
65 ST 250 - 016	16	82	66				√
65 ST 250 - 019	19	88	69				
65 ST 250 - 025	25	100	75				√
65 ST 250 - 038	38	126	88				
65 ST 250 - 050	50	150	100				√
65 ST 250 - 063	63	177	113.5				
65 ST 250 - 080	80	210	130				√
65 ST 250 - 100	100	250	150				
65 ST 250 - 125	125	300	175				

Montaj Örneği  
Mounting Example



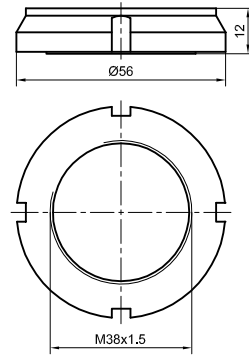
38

205 100 710



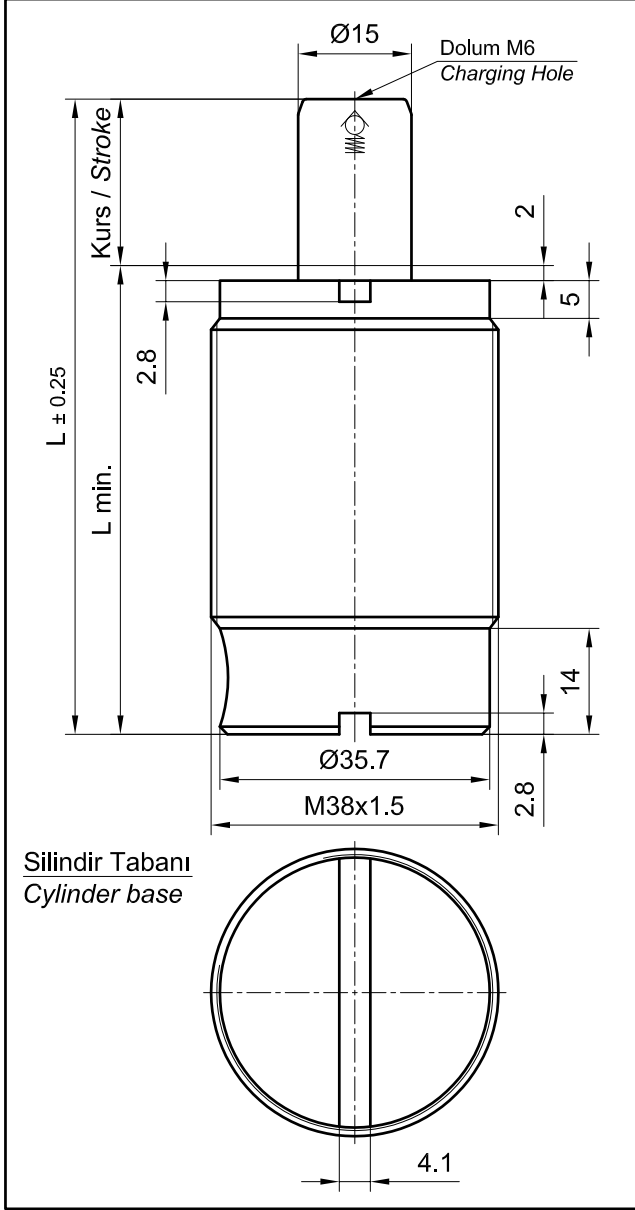
38

220 820 015

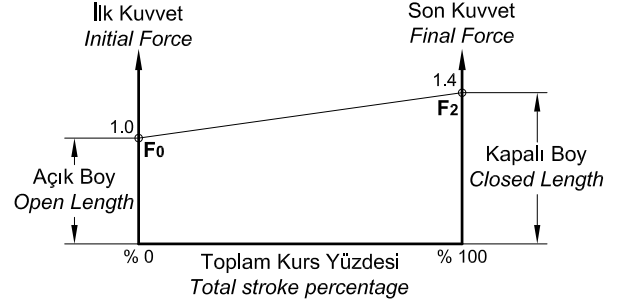


Vidalı Gövde / Threaded Body

250 daN



Dolum gaz / Pressure medium	: Azot N2 / Nitrogen N2
Maks. dolun basıncı / Max. filling pressure	: 150 bar
Min. dolun basıncı / Min. filling pressure	: 50 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) / approx. 80 to 100 (at 20 °C)



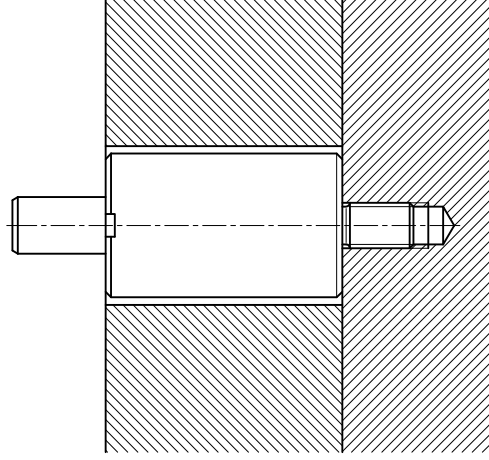
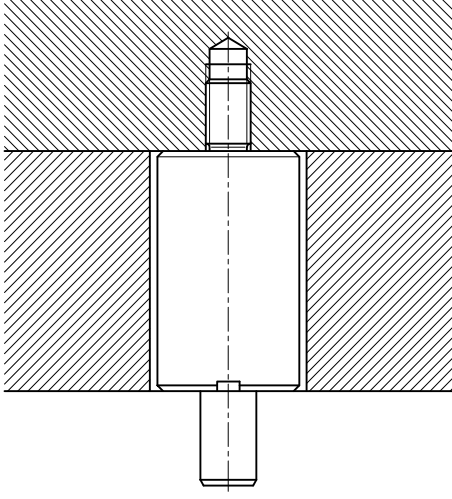
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 STM 250 - 010**

— Kurs (mm) / Stroke  
— F0 (daN)  
— Tip / Type

Kod No. / Part Nr.	Kurs mm / Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 STM 250 - 010	10	70	60	150 50	250	350
65 STM 250 - 013	13	75.4	62.7			
65 STM 250 - 016	16	82	66			
65 STM 250 - 019	19	88	69			
65 STM 250 - 025	25	100	75			
65 STM 250 - 038	38	126	88			
65 STM 250 - 050	50	150	100			
65 STM 250 - 063	63	177	113.5			
65 STM 250 - 080	80	210	130			
65 STM 250 - 100	100	250	150			
65 STM 250 - 125	125	300	175			

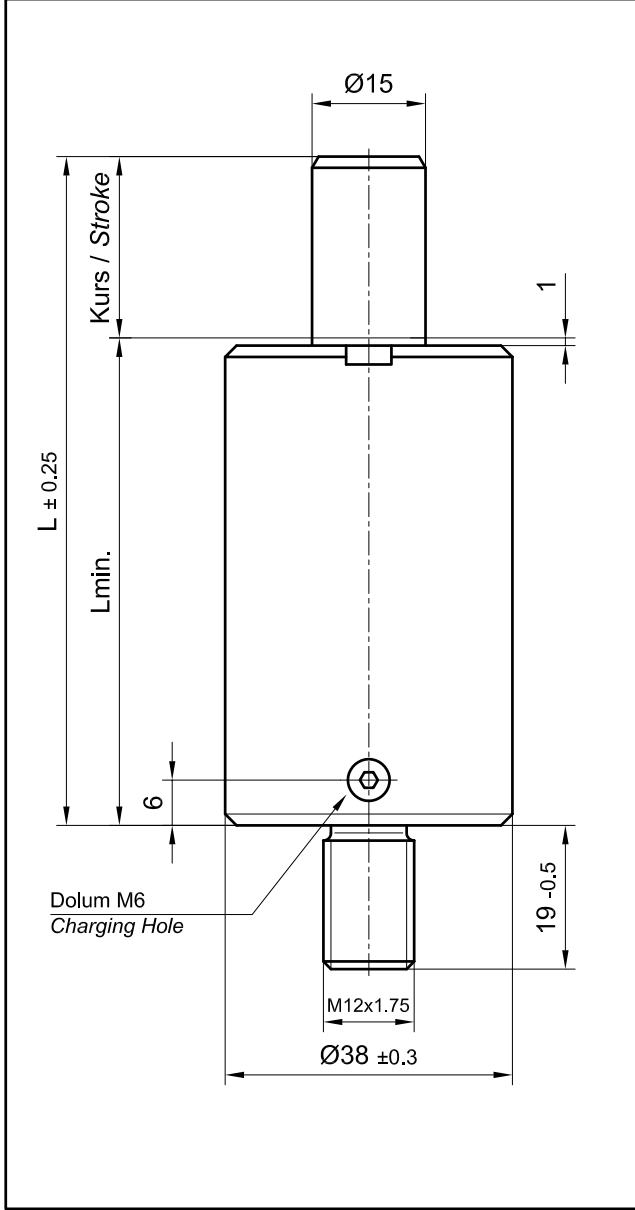
Montaj Örneği  
Mounting Example



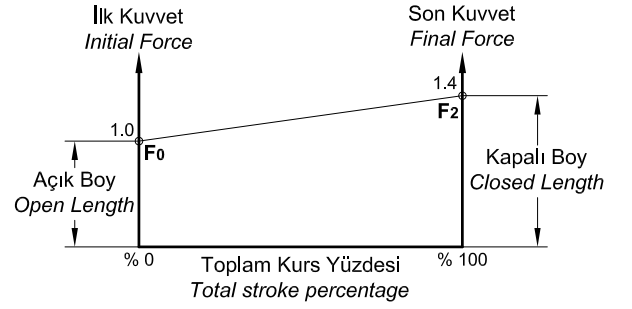


250 daN

Vidalı Bağlantı / Male Fitting Thread



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 50 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 80÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 80 to 100 (at 20 °C)

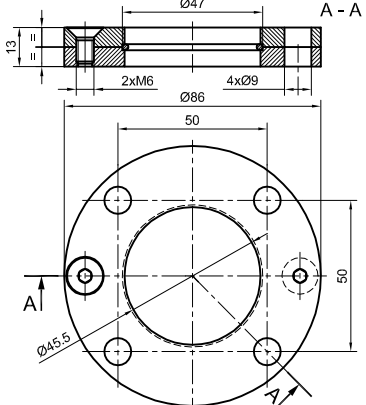
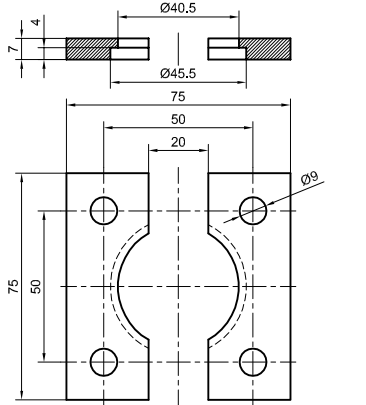
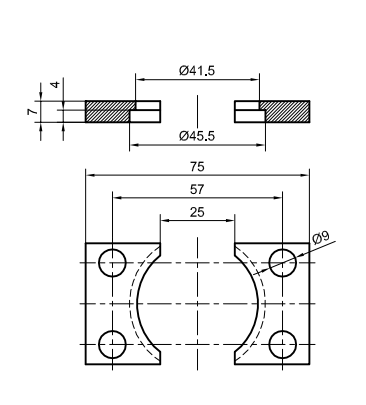
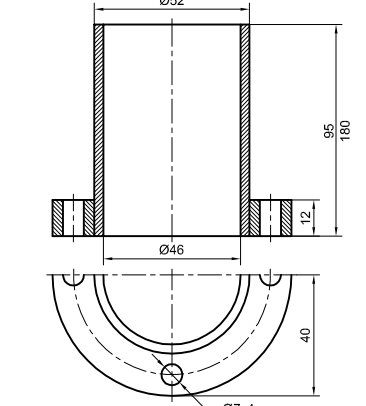
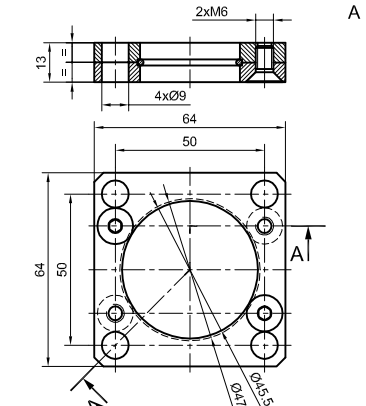
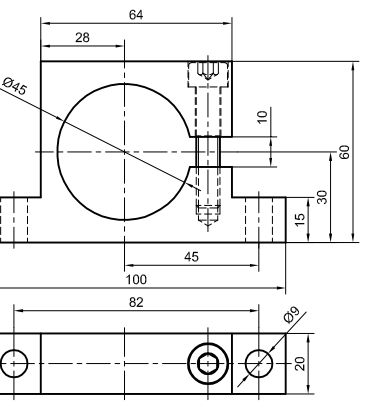
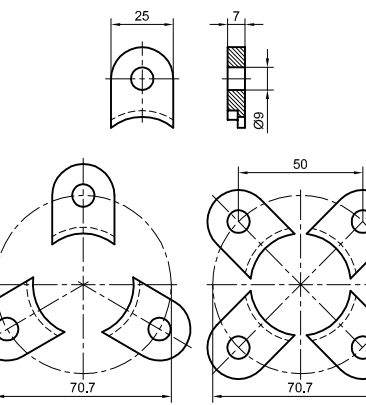
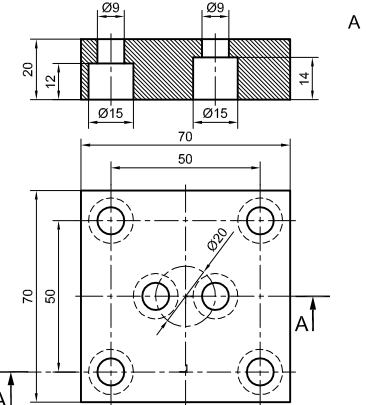
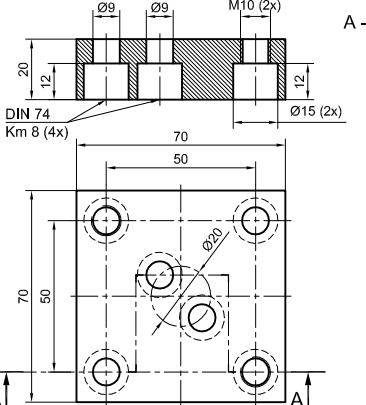
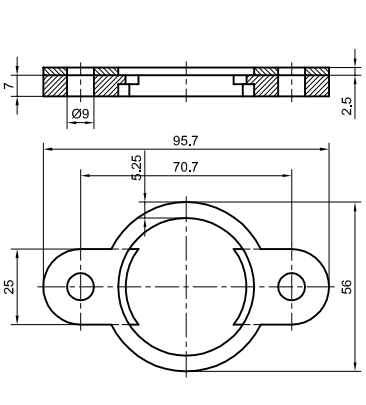
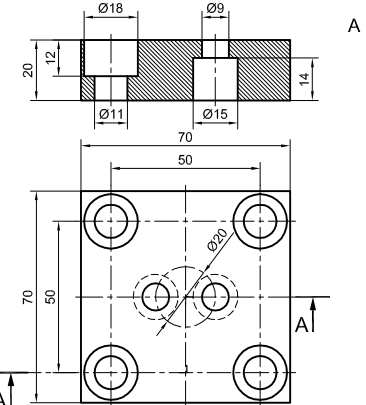



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

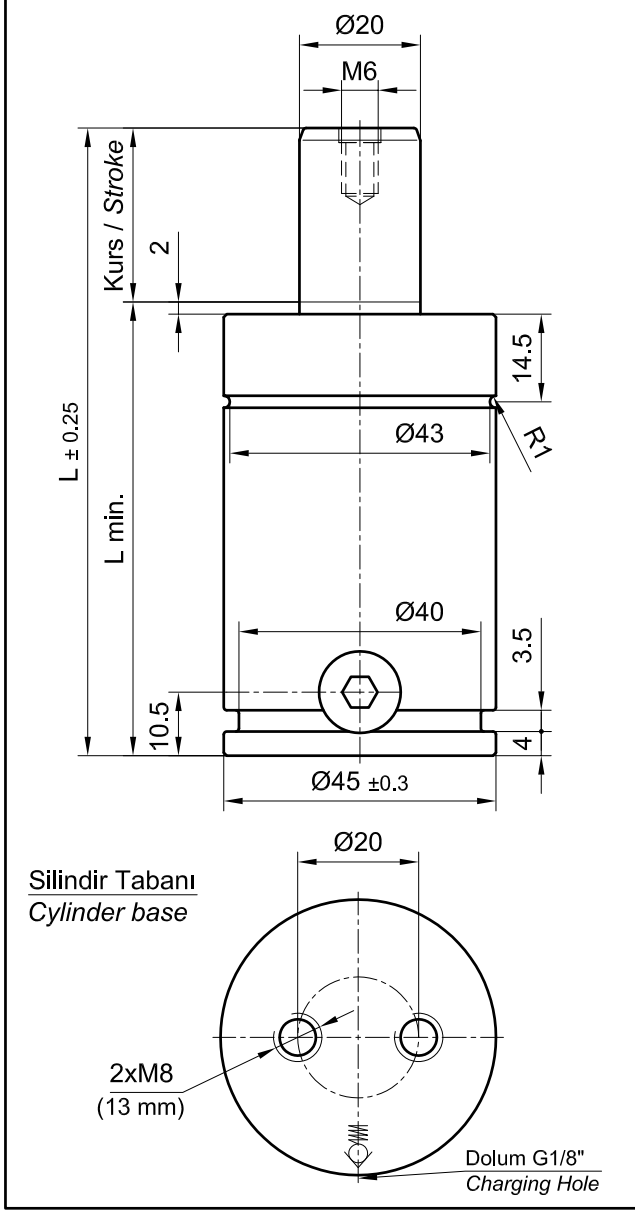
**65 STE 250 - 010**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

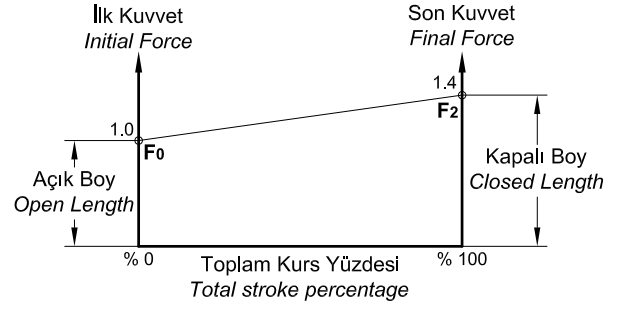
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 STE 250 - 010	10	70	60	150 50	250	350
65 STE 250 - 013	13	75.4	62.7			
65 STE 250 - 016	16	82	66			
65 STE 250 - 019	19	88	69			
65 STE 250 - 025	25	100	75			
65 STE 250 - 038	38	126	88			
65 STE 250 - 050	50	150	100			
65 STE 250 - 063	63	177	113.5			
65 STE 250 - 080	80	210	130			
65 STE 250 - 100	100	250	150			
65 STE 250 - 125	125	300	175			

<p>45 205 100 528</p>  <p>ISO 11901-2 TİP C</p>	<p>45 205 100 230</p>  <p>ISO 11901-2 TİP B</p>	<p>45 205 100 231</p>  <p>ISO 11901-2 TİP B</p>
<p>45 205 101 300</p>  <p>ISO 11901-2 TİP C2</p>	<p>45 205 100 620</p>  <p>ISO 11901-2 TİP C2</p>	<p>45 205 100 830</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>45 205 101 520</p>  <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 010</p>  <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 011</p>  <p>ISO 11901-2 TİP A1</p>
<p>45 205 101 521</p>  <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 012</p>  <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 013</p>  <p>ISO 11901-2 TİP A1</p>

500 daN



Dolum gaz	: Azot N2
Pressure medium	: Nitrogen N2
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 50 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 40÷80 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 40 to 80 (at 20 °C)

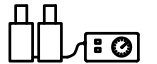


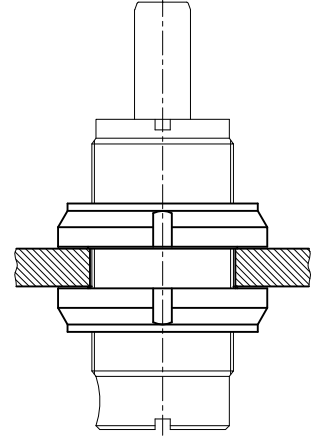
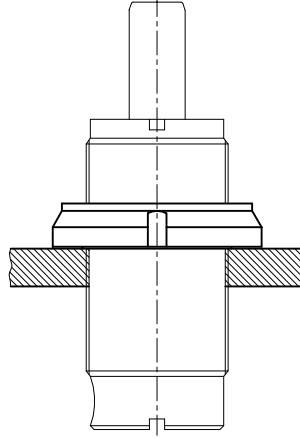
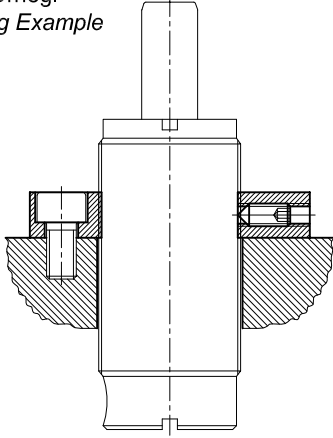
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 500 - 010**

— Kurs (mm)  
Stroke  
— F0 (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN	ISO
65 ST 500 - 010	10	105	95	150 50	500	700	
65 ST 500 - 013	13	110.4	97.7				
65 ST 500 - 025	25	135	110				√
65 ST 500 - 038	38	161	123				
65 ST 500 - 050	50	185	135				√
65 ST 500 - 063	63	212	148.5				
65 ST 500 - 080	80	245	165				√
65 ST 500 - 100	100	285	185				
65 ST 500 - 125	125	335	210				
65 ST 500 - 160	160	405	245				



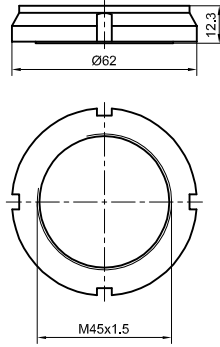
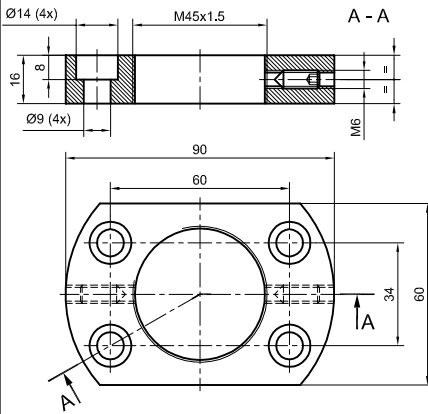
Montaj Örneği  
 Mounting Example


45

205 100 720

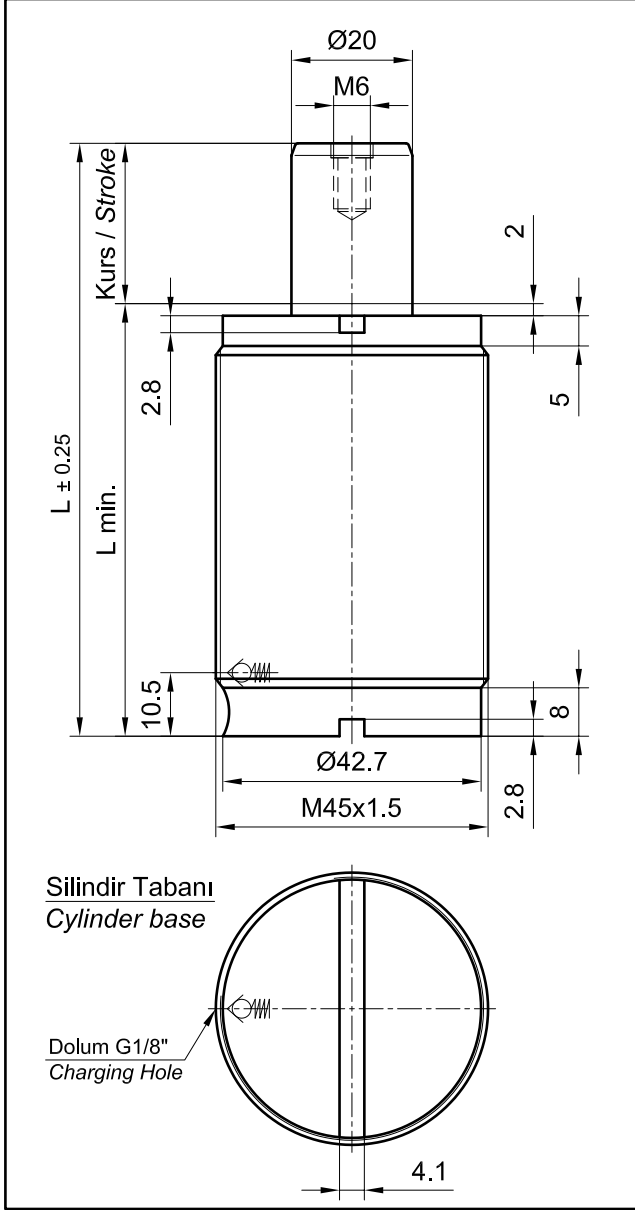
45

220 820 020

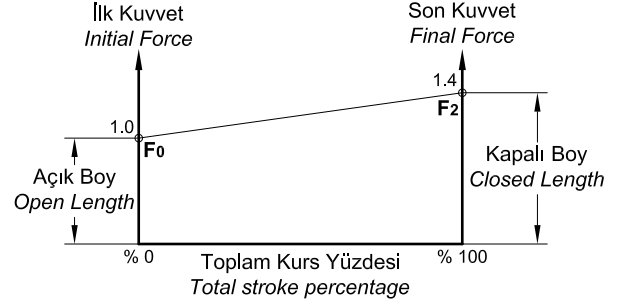


Vidalı Gövde / Threaded Body

500 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 50 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 40-80 tur/dak. (20 °C'de) : approx. 40 to 80 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

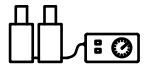
**65 STM 500 - 010**

— Kurs (mm)  
Stroke

— F0 (daN)

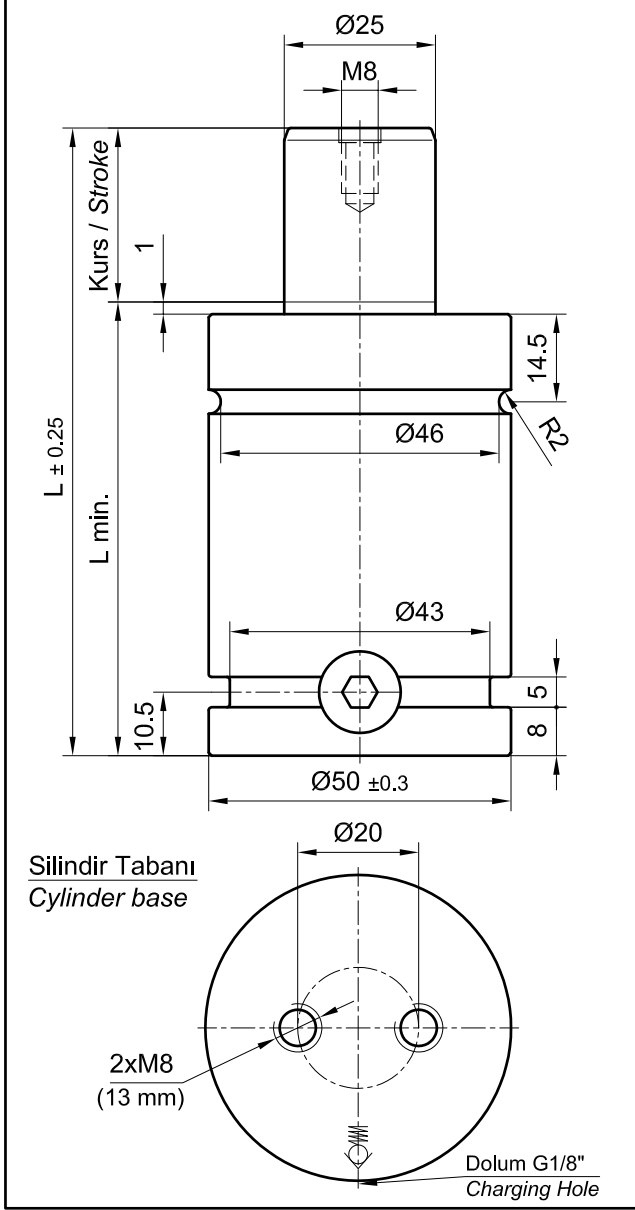
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 STM 500 - 010	10	105	95	150 50	500	700
65 STM 500 - 013	13	110.4	97.7			
65 STM 500 - 025	25	135	110			
65 STM 500 - 038	38	161	123			
65 STM 500 - 050	50	185	135			
65 STM 500 - 063	63	212	148.5			
65 STM 500 - 080	80	245	165			
65 STM 500 - 100	100	285	185			
65 STM 500 - 125	125	335	210			
65 STM 500 - 160	160	405	245			

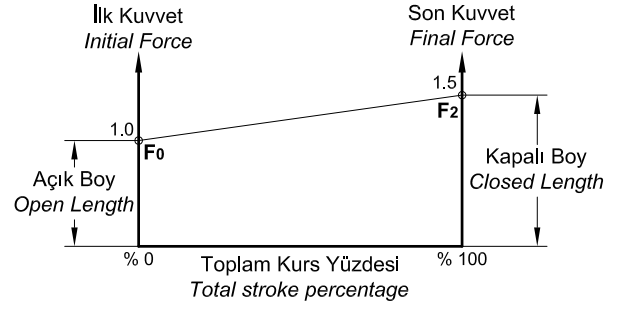


<p>50 205 100 240</p> <p>ISO 11901-2 TİP B</p>	<p>50 205 100 241</p> <p>ISO 11901-2 TİP B</p>	<p>50 205 101 320</p> <p>ISO 11901-2 TİP C2</p>	<p>50 205 100 630</p> <p>ISO 11901-2 TİP C2</p>
<p>50 205 100 537</p> <p>ISO 11901-2 TİP C</p>	<p>50 205 100 840</p> <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>50 205 101 530</p> <p>ISO 11901-2 TİP C</p>	
<p>50 205 101 531</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 100 020</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 100 021</p> <p>ISO 11901-2 TİP A1</p>	
<p>50 205 100 022</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 100 930</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 101 030</p> <p>ISO 11901-2 TİP A1</p>	

750 daN



Dolum gaz	: Azot N2
Pressure medium	: Nitrogen N2
Maks. dolun basıncı	: 150 bar
Max. filling pressure	
Min. dolun basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 15÷40 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 15 to 40 (at 20 °C)

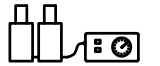


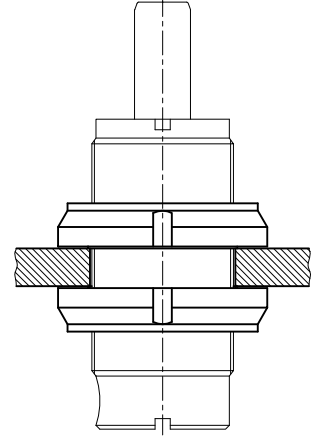
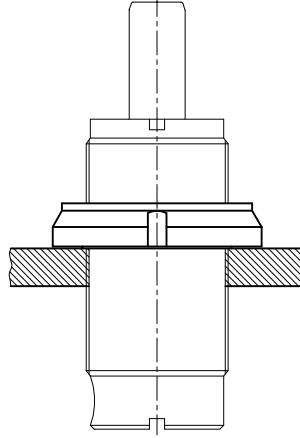
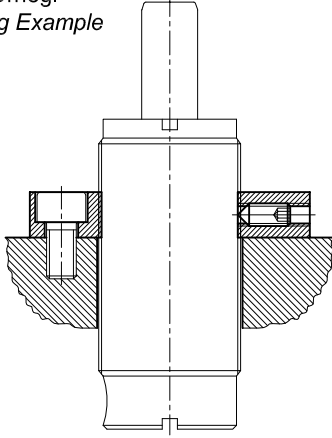
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 750 - 013**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

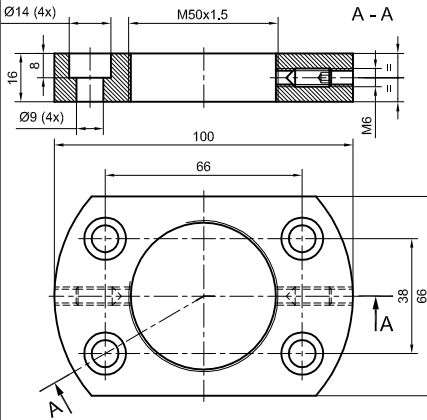
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN	ISO
65 ST 750 - 013	13	120.4	107.7	150 25	750	1125	
65 ST 750 - 025	25	145	120				√
65 ST 750 - 038	38	171	133				
65 ST 750 - 050	50	195	145				√
65 ST 750 - 063	63	222	158.5				
65 ST 750 - 080	80	255	175				√
65 ST 750 - 100	100	295	195				√
65 ST 750 - 125	125	345	220				√
65 ST 750 - 160	160	415	255				√
65 ST 750 - 200	200	495	295				
65 ST 750 - 250	250	595	345				
65 ST 750 - 300	300	695	395				



Montaj Örneği  
 Mounting Example


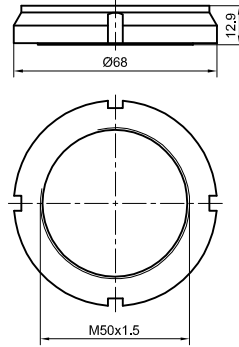
50

205 100 730



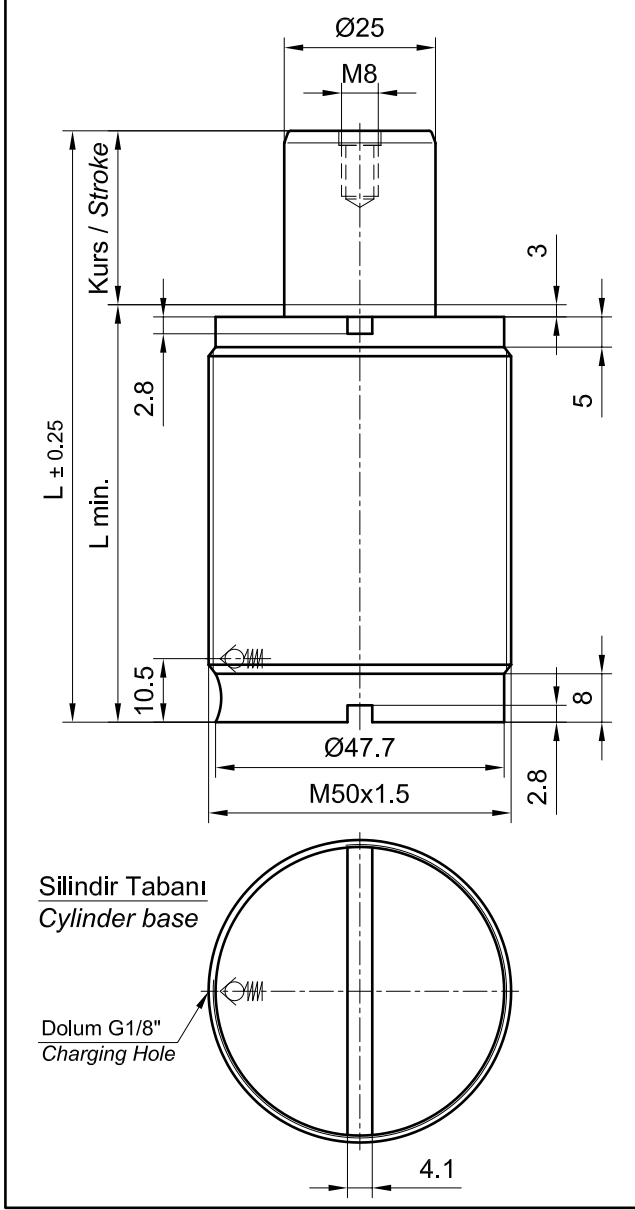
50

220 820 025

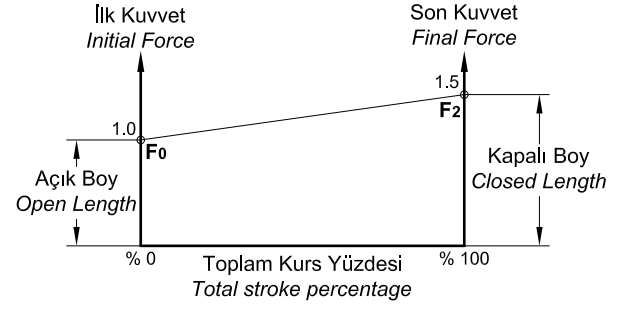


750 daN

Vidalı Gövde / Threaded Body



Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolum basıncı / Max. filling pressure	: 150 bar
Min. dolum basıncı / Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) / approx. 15 to 40 (at 20 °C)

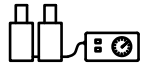


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 STM 750 - 013**

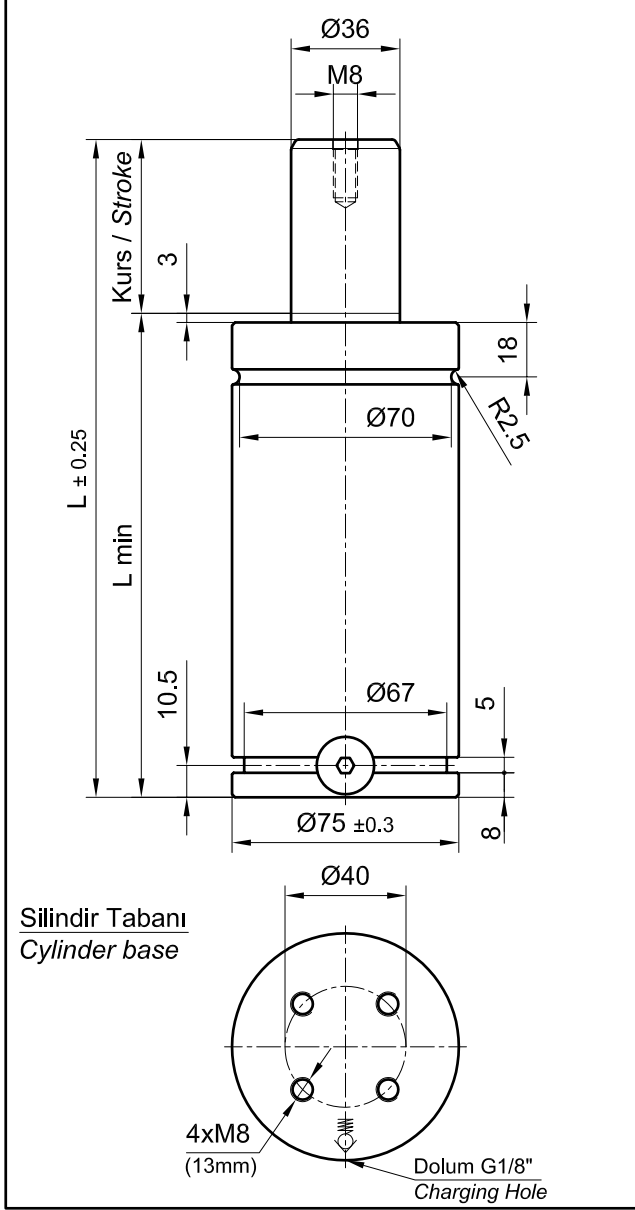
65: Kurs (mm) / Stroke  
STM: F<sub>0</sub> (daN)  
750: Tip / Type  
013: Tip / Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 STM 750 - 013	13	120.4	107.7	150 25	750	1125
65 STM 750 - 025	25	145	120			
65 STM 750 - 038	38	171	133			
65 STM 750 - 050	50	195	145			
65 STM 750 - 063	63	222	158.5			
65 STM 750 - 080	80	255	175			
65 STM 750 - 100	100	295	195			
65 STM 750 - 125	125	345	220			
65 STM 750 - 160	160	415	255			
65 STM 750 - 200	200	495	295			
65 STM 750 - 250	250	595	345			
65 STM 750 - 300	300	695	395			



<p>75 205 100 260</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 100 261</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 101 360</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 100 650</p> <p>ISO 11901-2 TİP C2</p>
<p>75 205 100 555</p> <p>ISO 11901-2 TİP C</p>	<p>75 205 100 860</p> <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>75 205 101 550</p> <p>ISO 11901-2 TİP C</p>	
<p>75 205 101 551</p> <p>ISO 11901-2 TİP A</p>	<p>75 205 100 040</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 042</p> <p>ISO 11901-2 TİP A2</p>	
<p>75 205 100 041</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 950</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 101 050</p> <p>ISO 11901-2 TİP A2</p>	

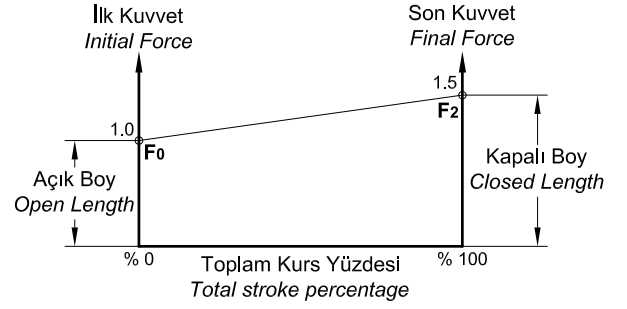
1500 daN



Silindir Tabanı  
Cylinder base

4xM8  
(13mm) Dolum G1/8"  
Charging Hole

Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) : approx. 15 to 40 (at 20 °C)



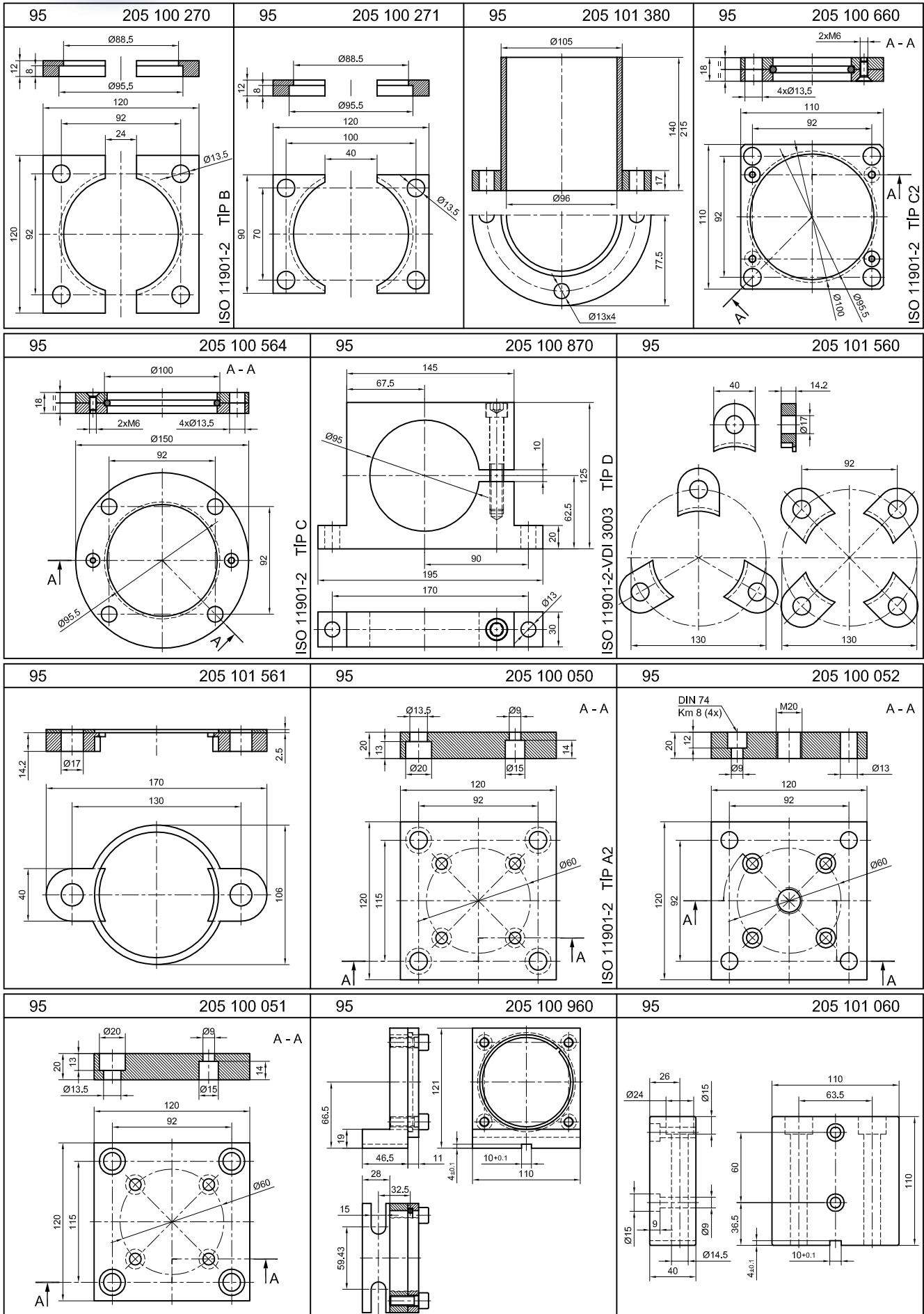
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 1500 - 025**

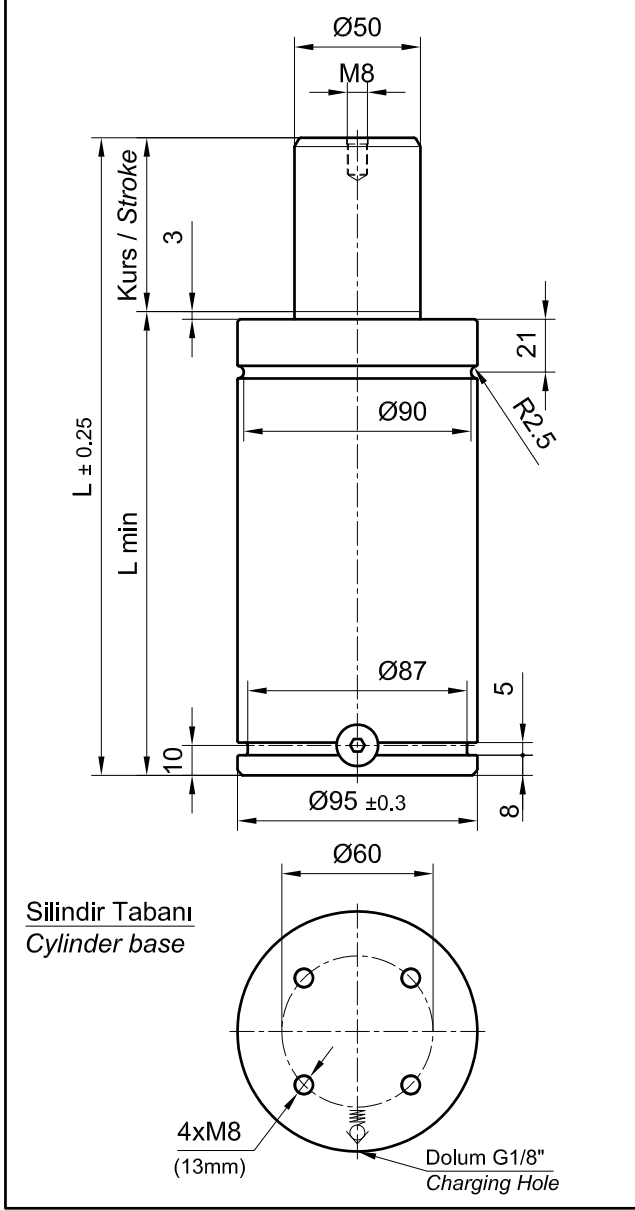
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN	ISO
65 ST 1500 - 025	25	160	135	150 25	1500	2250	✓
65 ST 1500 - 038	38	186	148				✓
65 ST 1500 - 050	50	210	160				✓
65 ST 1500 - 063	63	237	173.5				✓
65 ST 1500 - 080	80	270	190				✓
65 ST 1500 - 100	100	310	210				✓
65 ST 1500 - 125	125	360	235				✓
65 ST 1500 - 160	160	430	270				✓
65 ST 1500 - 200	200	510	310				
65 ST 1500 - 250	250	610	360				
65 ST 1500 - 300	300	710	410				

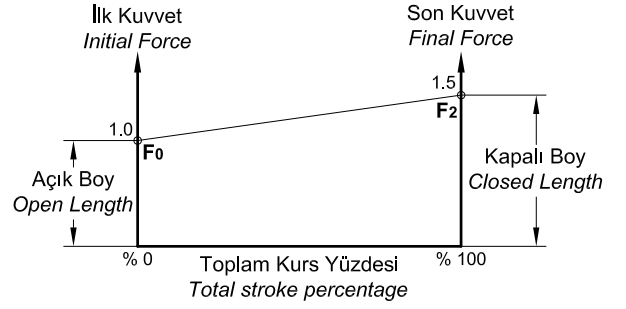




3000 daN



Dolum gaz	: Azot N2
Pressure medium	: Nitrogen N2
Maks. dolun basıncı	: 150 bar
Max. filling pressure	
Min. dolun basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 15÷40 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 15 to 40 (at 20 °C)



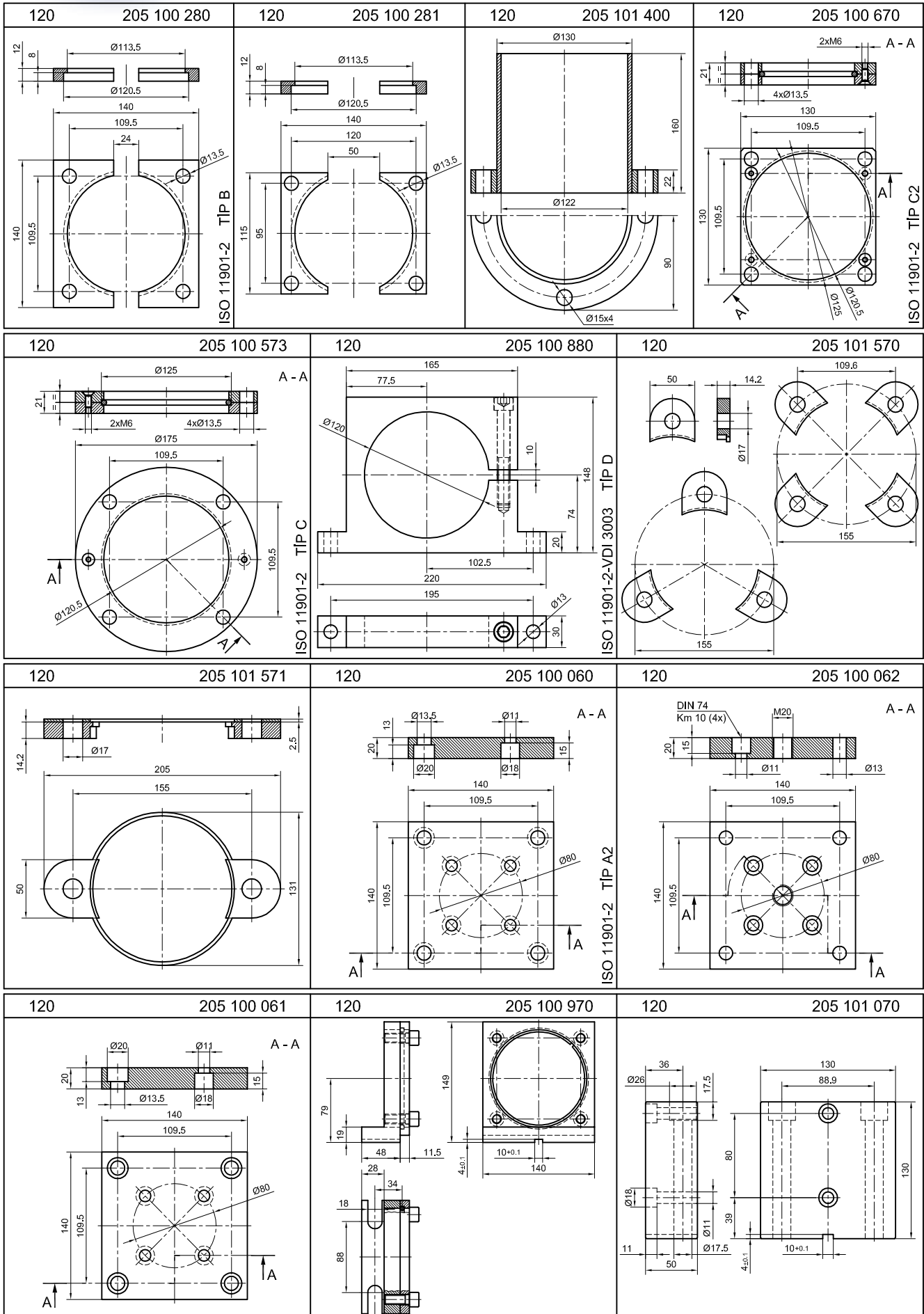
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 3000 - 025**

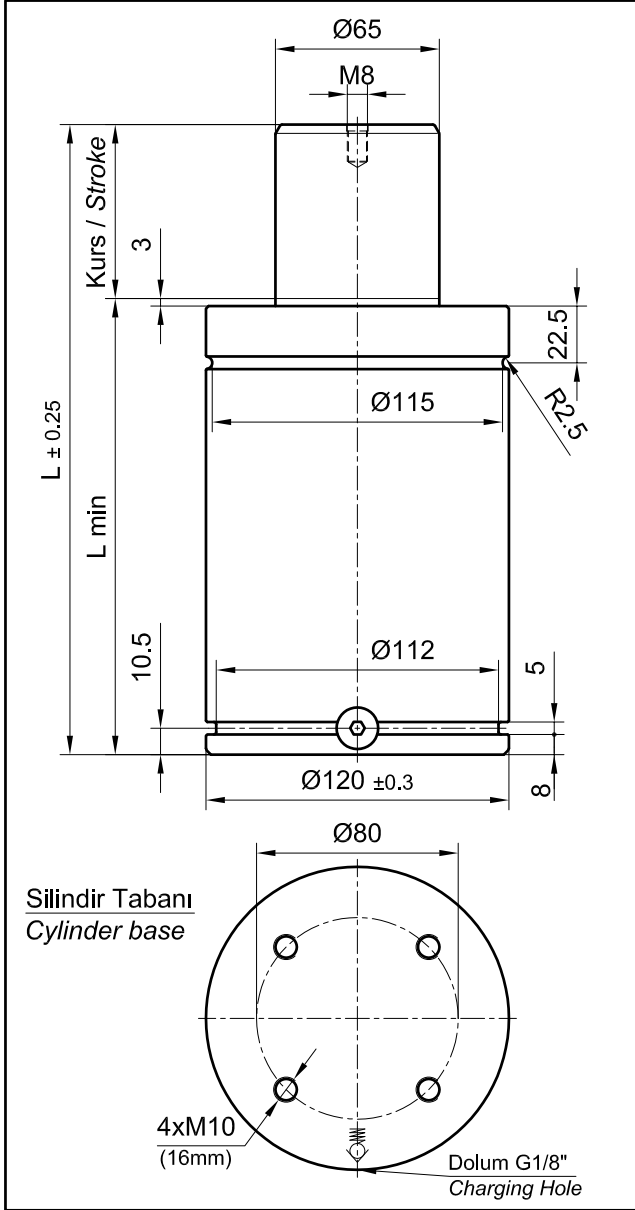
— Kurs (mm)  
Stroke  
— F0 (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN	ISO
65 ST 3000 - 025	25	170	145	150 25	3000	4500	√
65 ST 3000 - 038	38	196	158				
65 ST 3000 - 050	50	220	170				√
65 ST 3000 - 063	63	247	183.5				
65 ST 3000 - 080	80	280	200				√
65 ST 3000 - 100	100	320	220				√
65 ST 3000 - 125	125	370	245				√
65 ST 3000 - 160	160	440	280				√
65 ST 3000 - 200	200	520	320				
65 ST 3000 - 250	250	620	370				
65 ST 3000 - 300	300	720	4200				

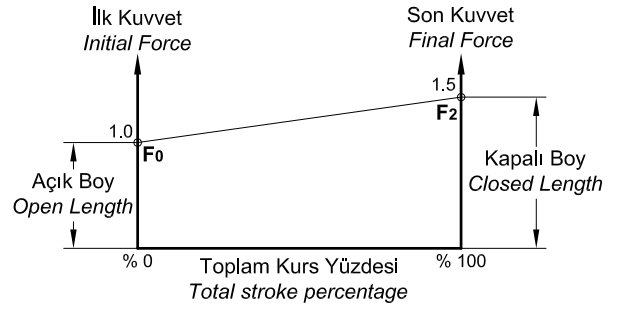




5000 daN



Dolum gazı Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) : approx. 15 to 40 (at 20 °C)

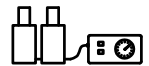


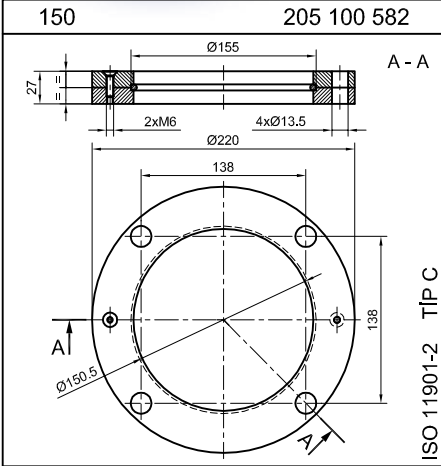
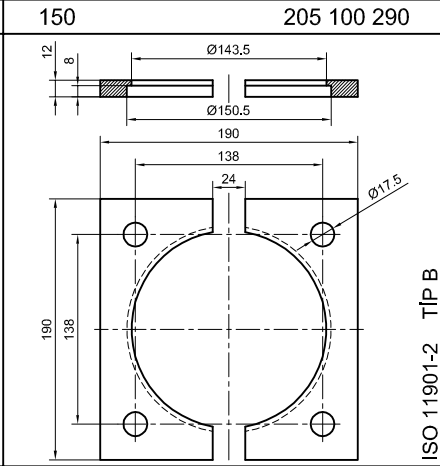
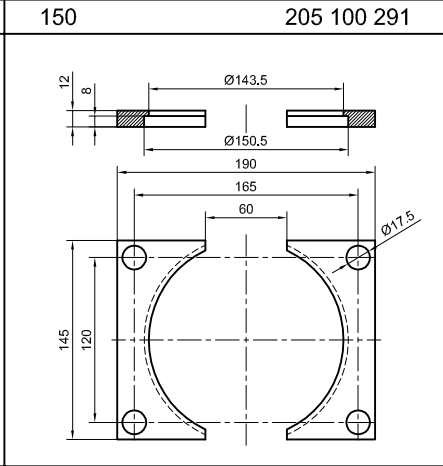
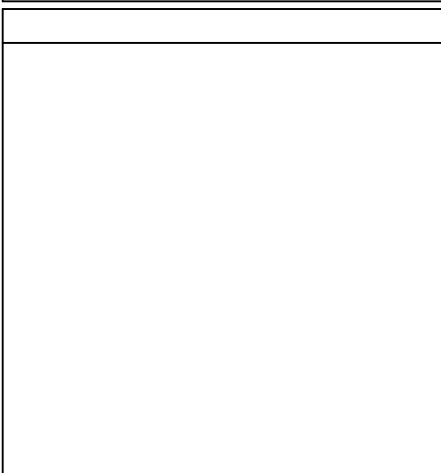
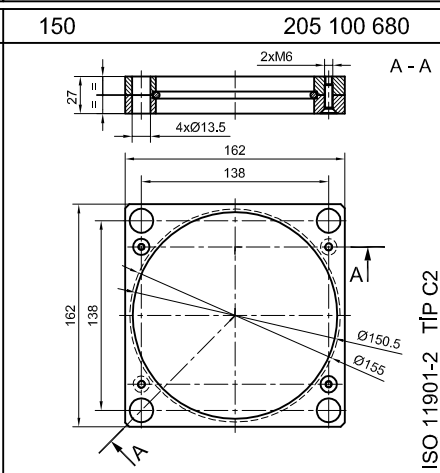
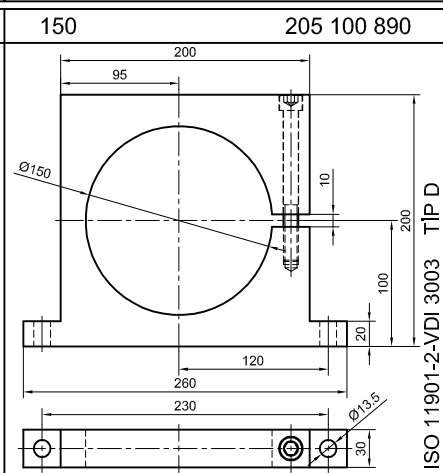
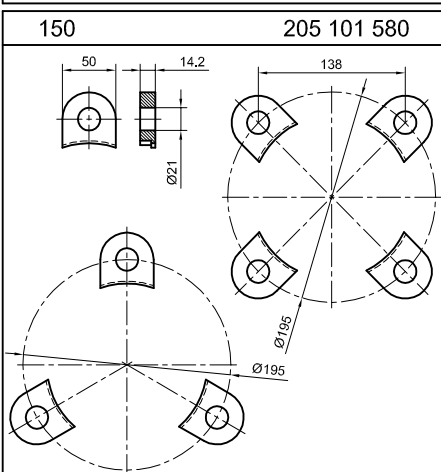
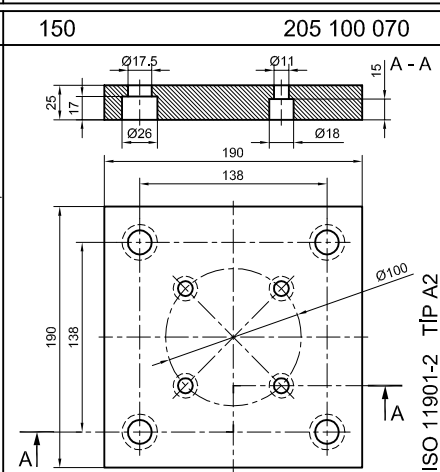
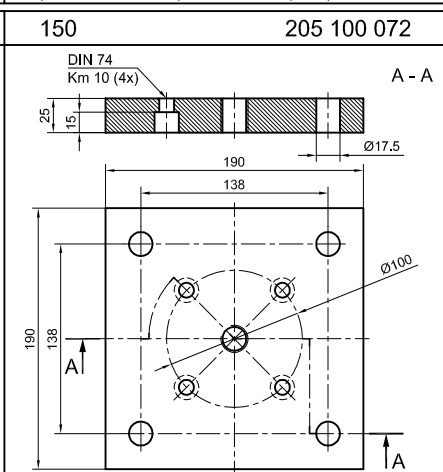
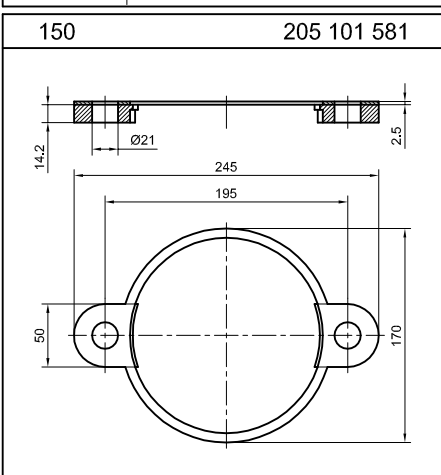
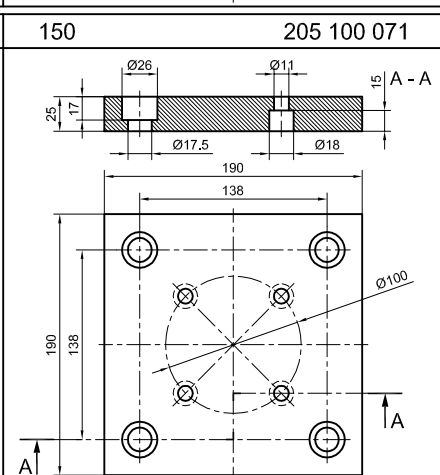
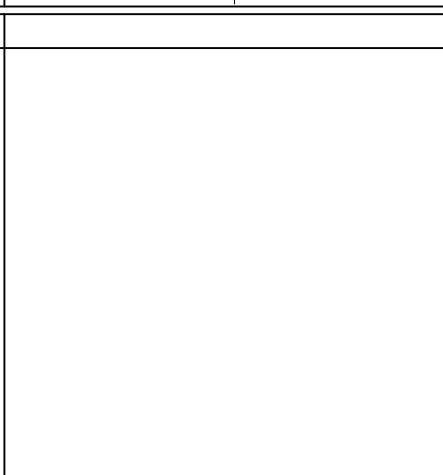
**SIPARIŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 5000 - 025**

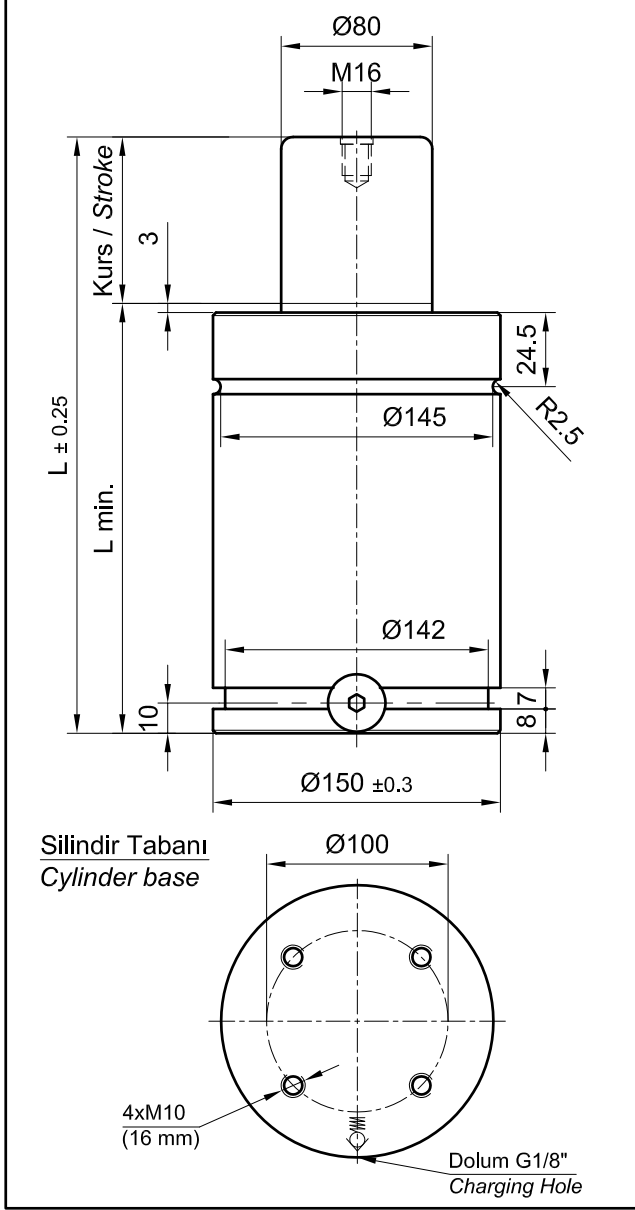
— Kurs (mm)  
— Stroke  
— F0 (daN)  
— Tip  
— Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN	ISO
65 ST 5000 - 025	25	190	165	150 25	5000	7500	√
65 ST 5000 - 038	38	216	178				
65 ST 5000 - 050	50	240	190				√
65 ST 5000 - 063	63	267	203.5				
65 ST 5000 - 080	80	300	220				√
65 ST 5000 - 100	100	340	240				√
65 ST 5000 - 125	125	390	265				√
65 ST 5000 - 160	160	460	300				√
65 ST 5000 - 200	200	540	340				
65 ST 5000 - 250	250	640	390				
65 ST 5000 - 300	300	740	440				

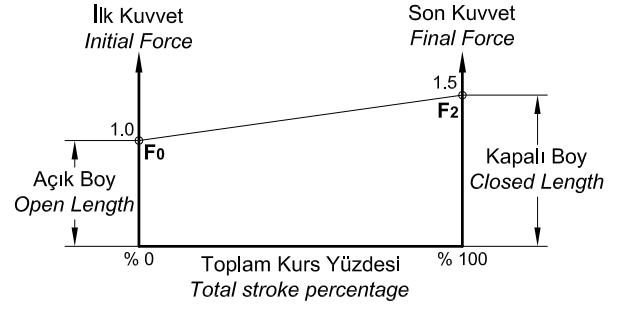


<p>150 205 100 582</p>  <p>A - A</p> <p>ISO 11901-2 TİP C</p>	<p>150 205 100 290</p>  <p>ISO 11901-2 TİP B</p>	<p>150 205 100 291</p>  <p>ISO 11901-2 TİP B</p>
<p>150 205 100 680</p>  <p>A - A</p> <p>ISO 11901-2 TİP C2</p>	<p>150 205 100 890</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>150 205 101 580</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>
<p>150 205 100 070</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 100 072</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 101 581</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>
<p>150 205 100 071</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 100 071</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 100 071</p>  <p>A - A</p> <p>ISO 11901-2 TİP A2</p>

7500 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 15÷40 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 15 to 40 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 7500 - 025**

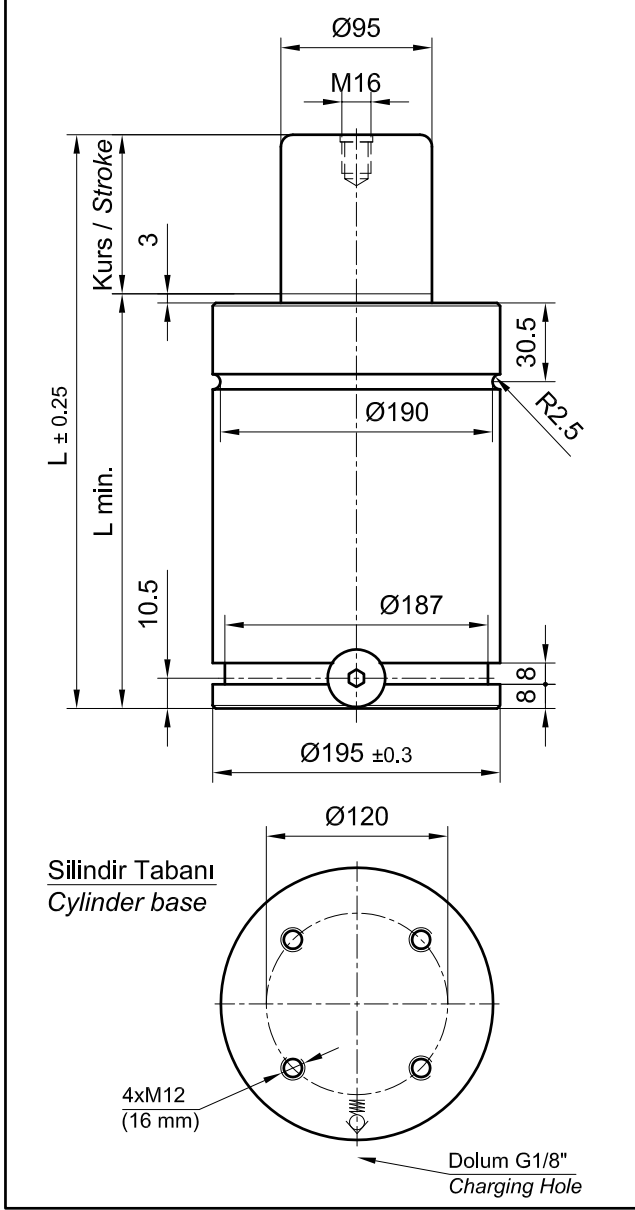
65 (mm) — Kurs (mm)  
Stroke  
ST — Tip  
7500 (daN) — F<sub>0</sub> (daN)  
025 — Tip

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN	ISO
65 ST 7500 - 025	25	205	180	150 25	7500	11250	✓
65 ST 7500 - 038	38	231	193				✓
65 ST 7500 - 050	50	255	205				✓
65 ST 7500 - 063	63	282	218.5				✓
65 ST 7500 - 080	80	315	235				✓
65 ST 7500 - 100	100	355	255				✓
65 ST 7500 - 125	125	405	280				✓
65 ST 7500 - 160	160	475	315				✓
65 ST 7500 - 200	200	555	355				
65 ST 7500 - 250	250	655	405				
65 ST 7500 - 300	300	755	455				

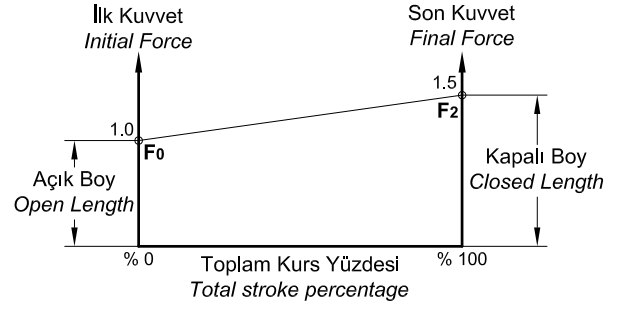


<p>195 205 100 591</p> <p>ISO 11901-2 TİP C</p>	<p>195 205 100 300</p> <p>ISO 11901-2 TİP B</p>	<p>195 205 100 301</p> <p>ISO 11901-2 TİP B</p>
<p>195 205 100 690</p> <p>ISO 11901-2 TİP C2</p>		
<p>195 205 101 590</p> <p>ISO 11901-2 TİP C</p>	<p>195 205 100 080</p> <p>ISO 11901-2 TİP A2</p>	
	<p>195 205 100 081</p> <p>ISO 11901-2 TİP A2</p>	

10000 daN



Dolum gazı Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolma basıncı Max. filling pressure	: 150 bar
Min. dolma basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) : approx. 15 to 40 (at 20 °C)

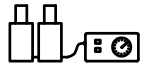


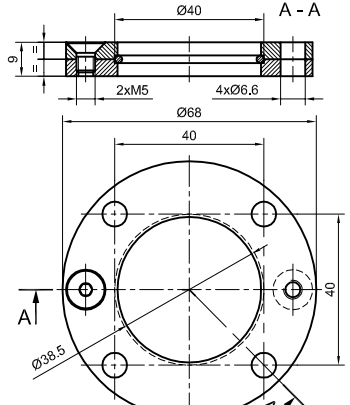
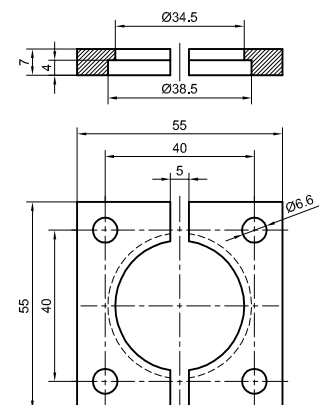
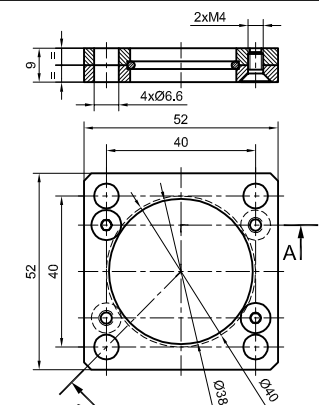
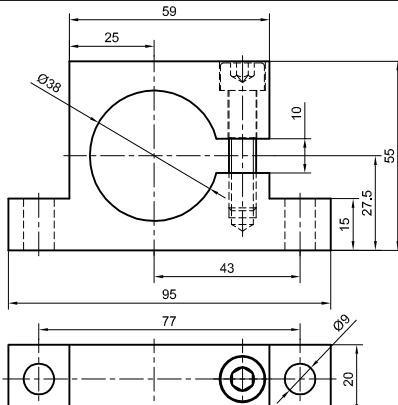
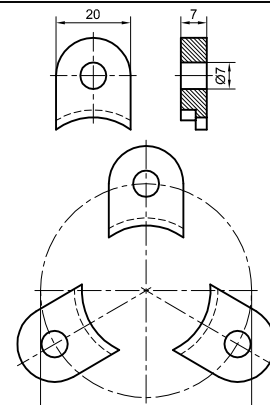
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ST 10000 - 025**

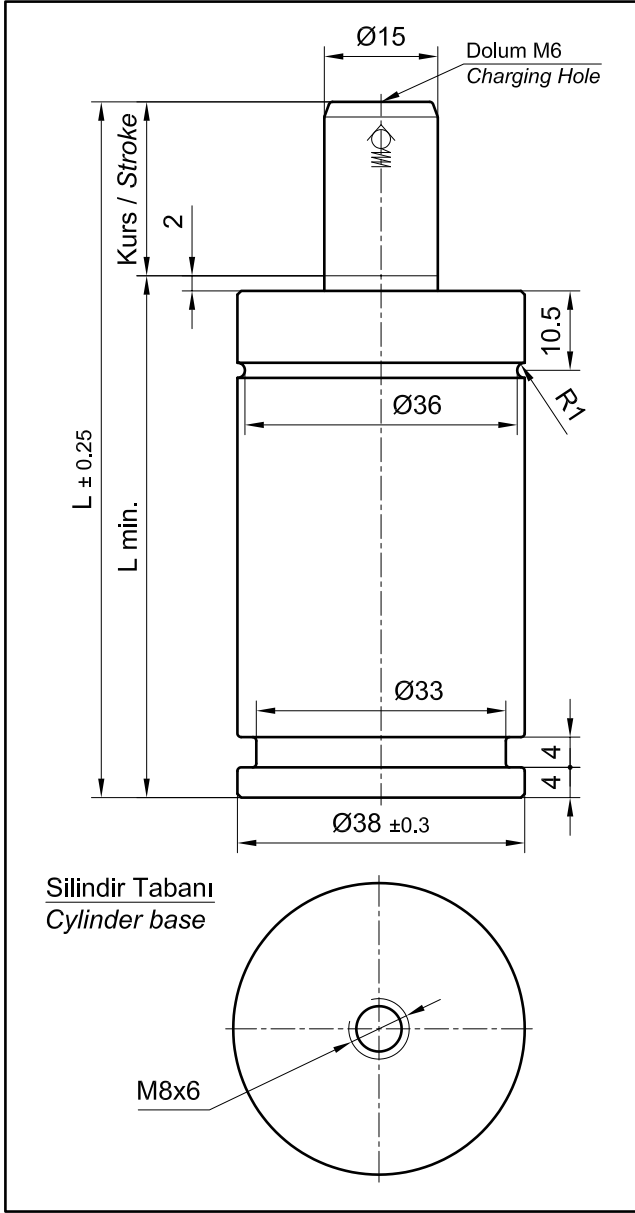
— Kurs (mm)  
Stroke  
— F0 (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN	ISO
65 ST 10000 - 025	25	210	185	150 25	10000	15000	
65 ST 10000 - 038	38	236	198				
65 ST 10000 - 050	50	260	210				√
65 ST 10000 - 063	63	287	223.5				
65 ST 10000 - 080	80	320	240				√
65 ST 10000 - 100	100	360	260				√
65 ST 10000 - 125	125	410	285				√
65 ST 10000 - 160	160	480	320				√
65 ST 10000 - 200	200	560	360				√
65 ST 10000 - 250	250	660	410				√
65 ST 10000 - 300	300	760	460				√

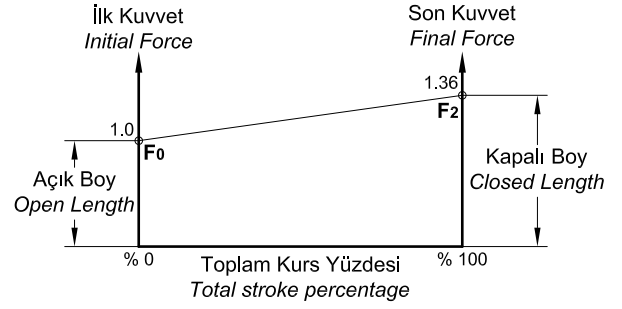


<p>38 205 100 519</p>  <p>ISO 11901-2 TİP C</p>	<p>38 205 100 220</p>  <p>ISO 11901-2 TİP B</p>	
	<p>38 205 100 610</p>  <p>ISO 11901-2 TİP C2</p>	<p>38 205 100 820</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>38 205 101 510</p> 		

250 daN

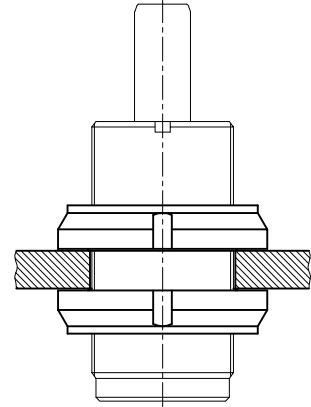
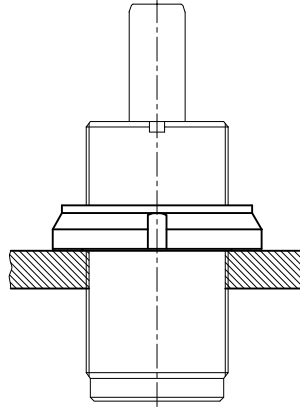
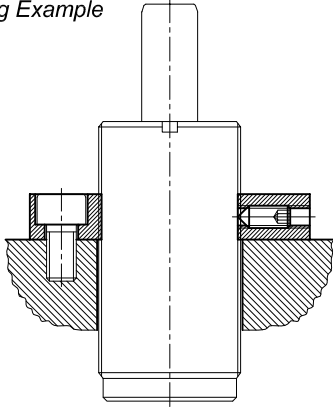


Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 50 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**
**65 KB 250 - 013**

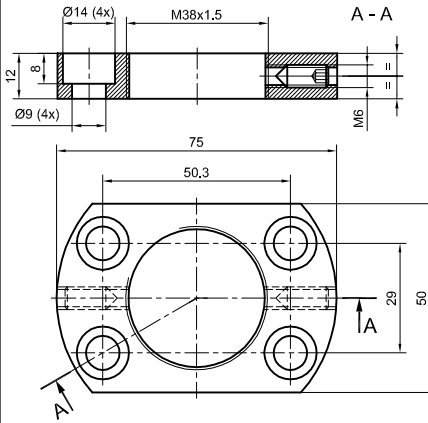
———— Kurs (mm)  
 ———— Stroke  
 ———— F<sub>0</sub> (daN)  
 ———— Tip  
 ———— Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KB 250 - 013	13	55.4	42.7	150 50	250	340
65 KB 250 - 015	15	60	45			
65 KB 250 - 025	25	80	55			
65 KB 250 - 038	38	106	68			
65 KB 250 - 050	50	130	80			
65 KB 250 - 063	63	157	93.5			
65 KB 250 - 080	80	190	110			
65 KB 250 - 100	100	230	130			

Montaj Örneği  
 Mounting Example


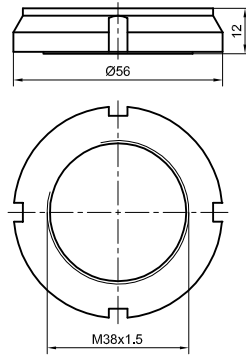
38

205 100 710



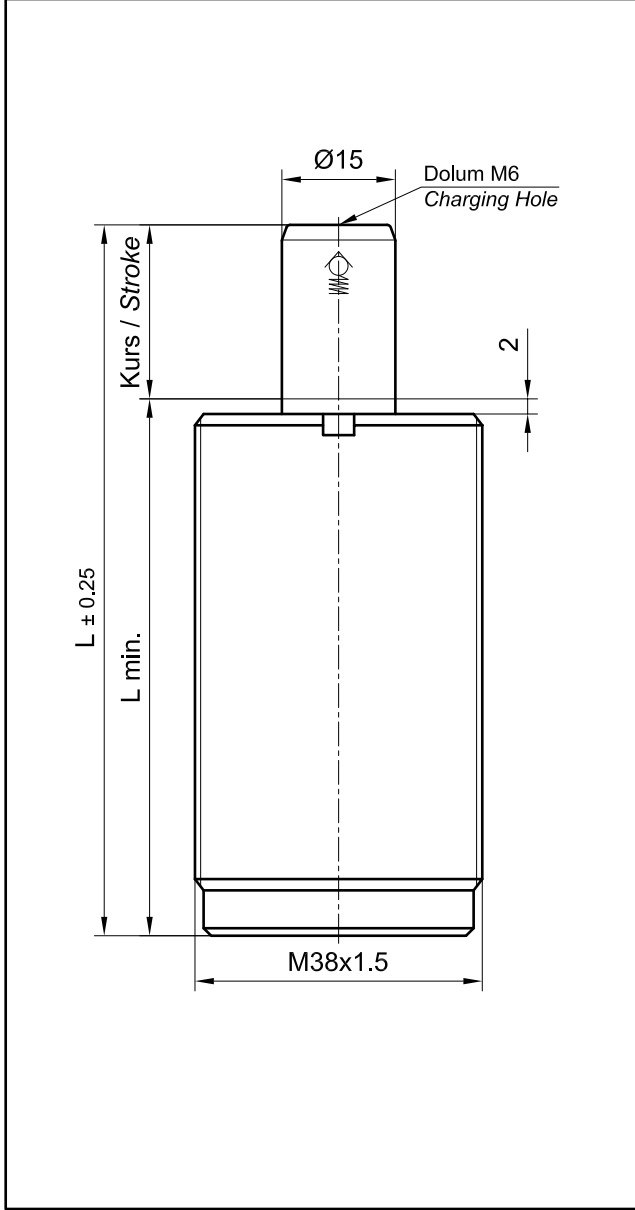
38

220 820 015

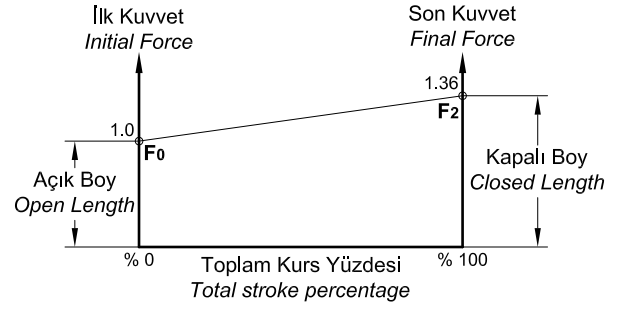


250 daN

Vidalı Gövde / Threaded Body



Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolum basıncı / Max. filling pressure	: 150 bar
Min. dolum basıncı / Min. filling pressure	: 50 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 80÷100 tur/dak. (20 °C'de) / approx. 80 to 100 (at 20 °C)

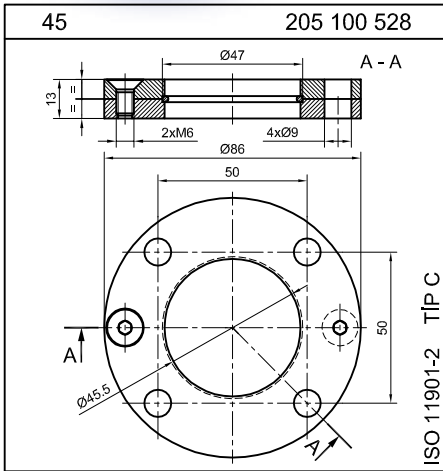
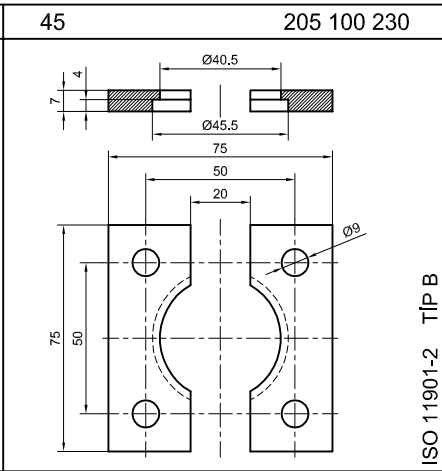
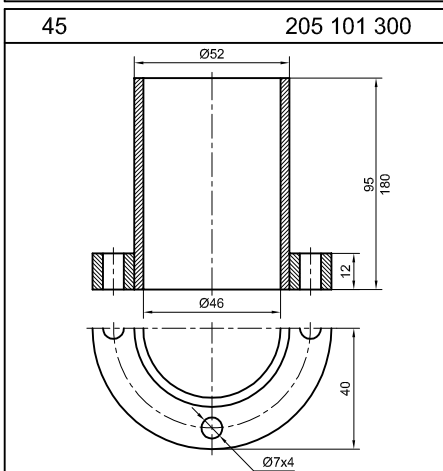
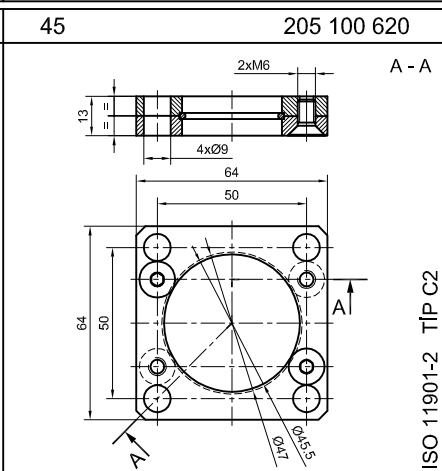
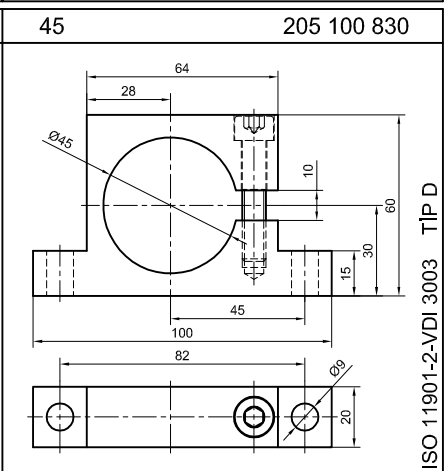
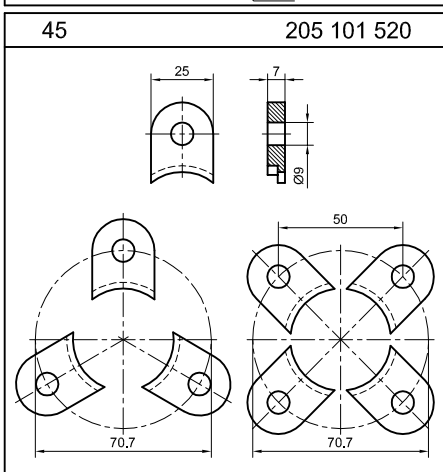
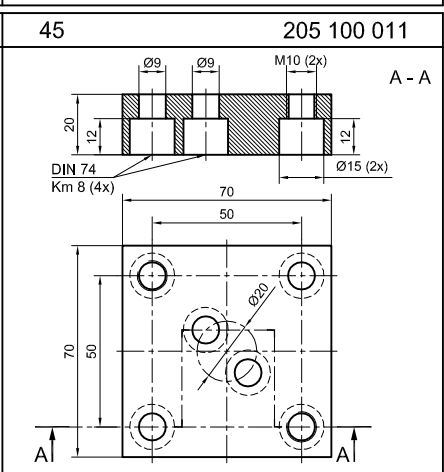


### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

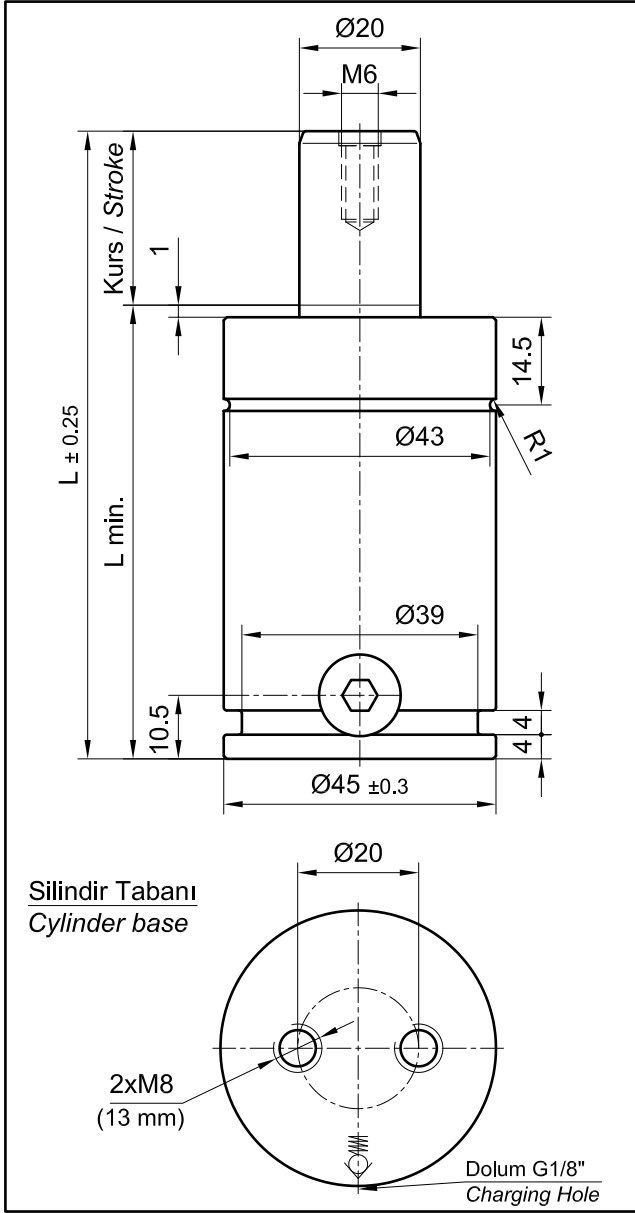
65 KBM 250 - 013

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

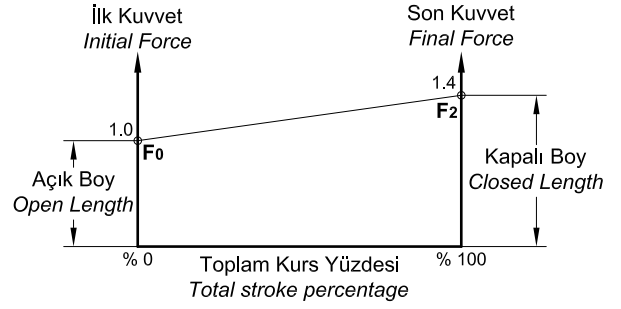
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KBM 250 - 013	13	55.4	42.7	150 50	250	340
65 KBM 250 - 015	15	60	45			
65 KBM 250 - 025	25	80	55			
65 KBM 250 - 038	38	106	68			
65 KBM 250 - 050	50	130	80			
65 KBM 250 - 063	63	157	93.5			
65 KBM 250 - 080	80	190	110			
65 KBM 250 - 100	100	230	130			

<p>45 205 100 528</p>  <p>ISO 11901-2 TİP C</p>	<p>45 205 100 230</p>  <p>ISO 11901-2 TİP B</p>	
<p>45 205 101 300</p>  <p>ISO 11901-2 TİP C2</p>	<p>45 205 100 620</p>  <p>ISO 11901-2 TİP C2</p>	<p>45 205 100 830</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>45 205 101 520</p>  <p>ISO 11901-2 TİP C2</p>		<p>45 205 100 011</p>  <p>ISO 11901-2 TİP C2</p>

500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 50 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 40÷80 tur/dak. (20 °C'de) : approx. 40 to 80 (at 20 °C)



### SİPARİŞ ÖRNEĞİ

### ORDERING EXAMPLE

65 KB 500 - 006

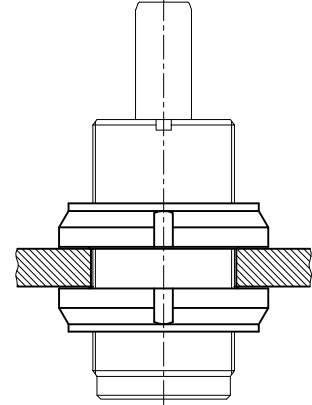
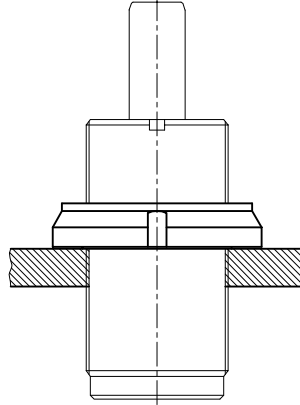
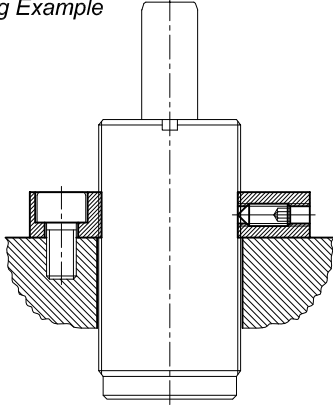
— Kurs (mm)  
Stroke

— F<sub>0</sub> (daN)

— Tip  
Type

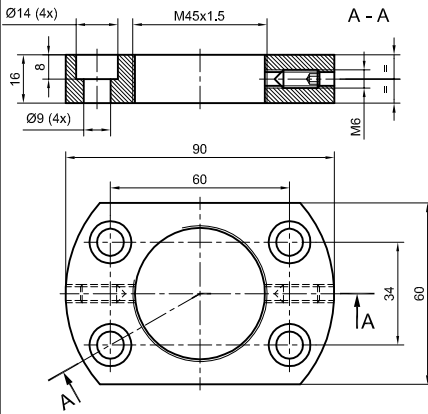
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KB 500 - 006	6	62	56	150 50	500	700
65 KB 500 - 013	13	75.4	62.7			
65 KB 500 - 019	19	88.1	69.1			
65 KB 500 - 025	25	100	75			
65 KB 500 - 038	38	126	88			
65 KB 500 - 050	50	150	100			
65 KB 500 - 063	63	177	113.5			
65 KB 500 - 080	80	210	130			
65 KB 500 - 100	100	250	150			
65 KB 500 - 125	125	300	175			



Montaj Örneği  
 Mounting Example


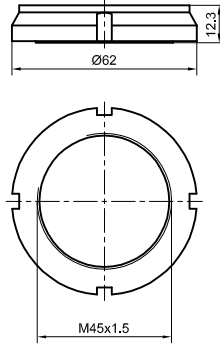
45

205 100 720



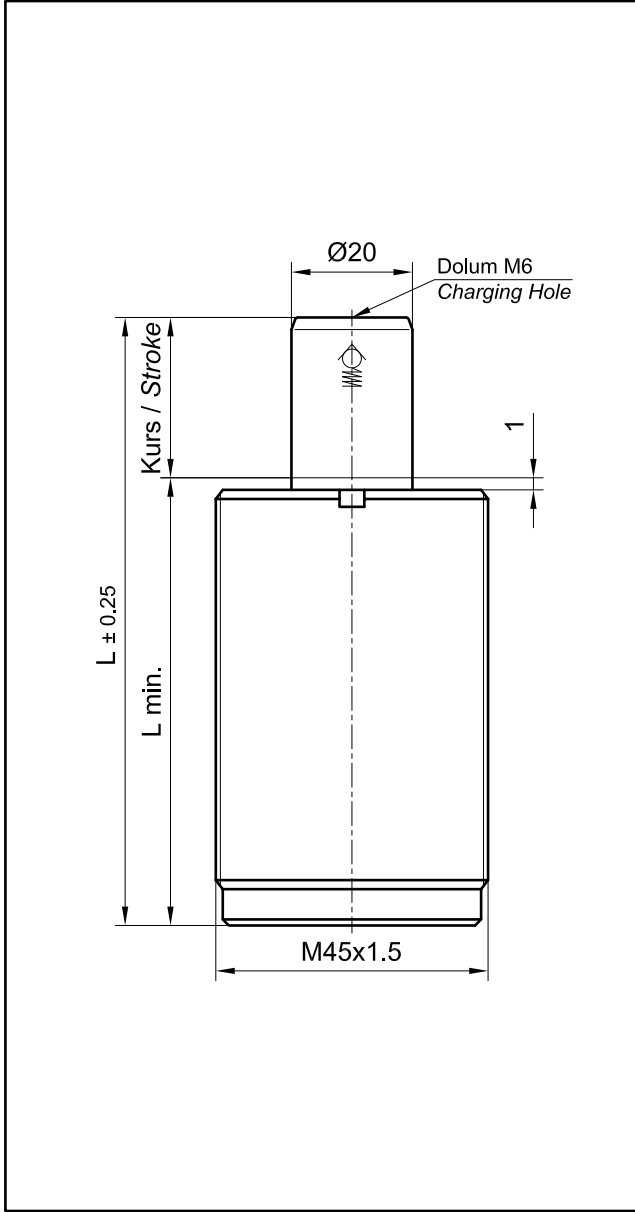
45

220 820 020

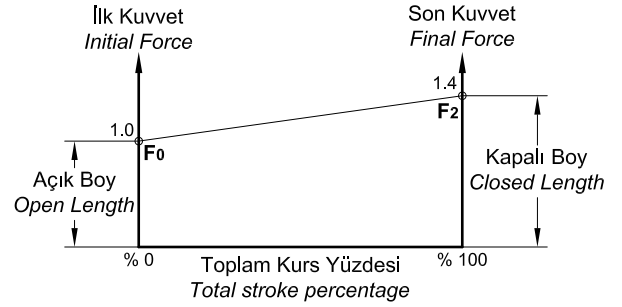


500 daN

Vidalı Gövde / Threaded Body



Dolum gaz	: Azot N2
Pressure medium	: Nitrogen N2
Maks. dolun basıncı	: 150 bar
Max. filling pressure	
Min. dolun basıncı	: 50 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 40÷80 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 40 to 80 (at 20 °C)

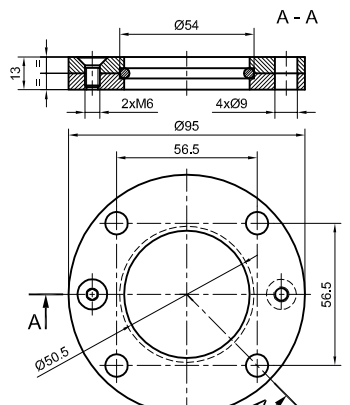
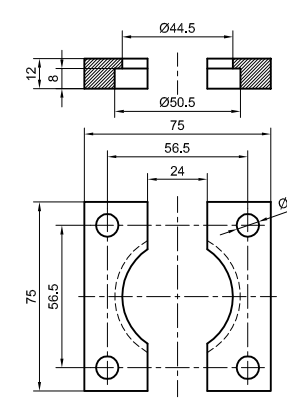
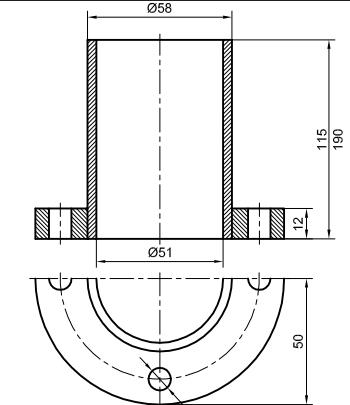
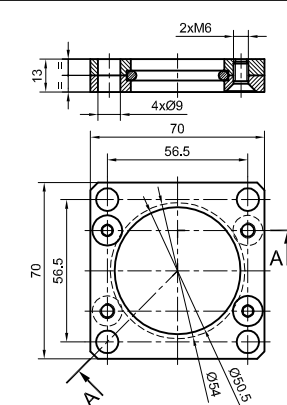
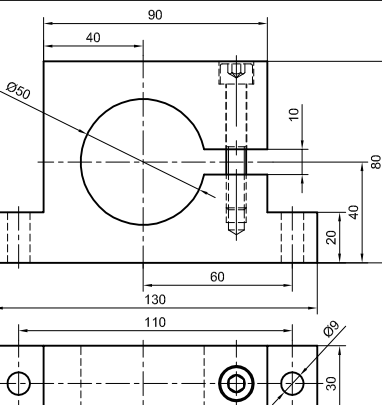
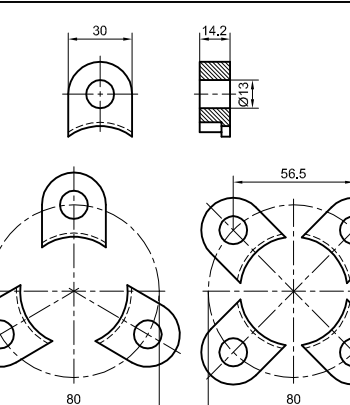
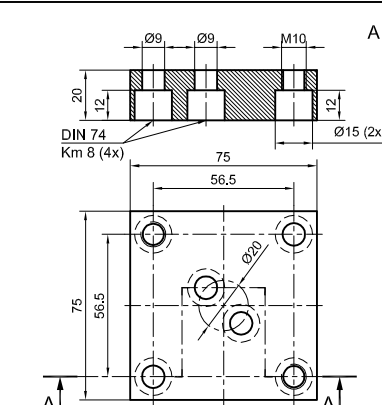


### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

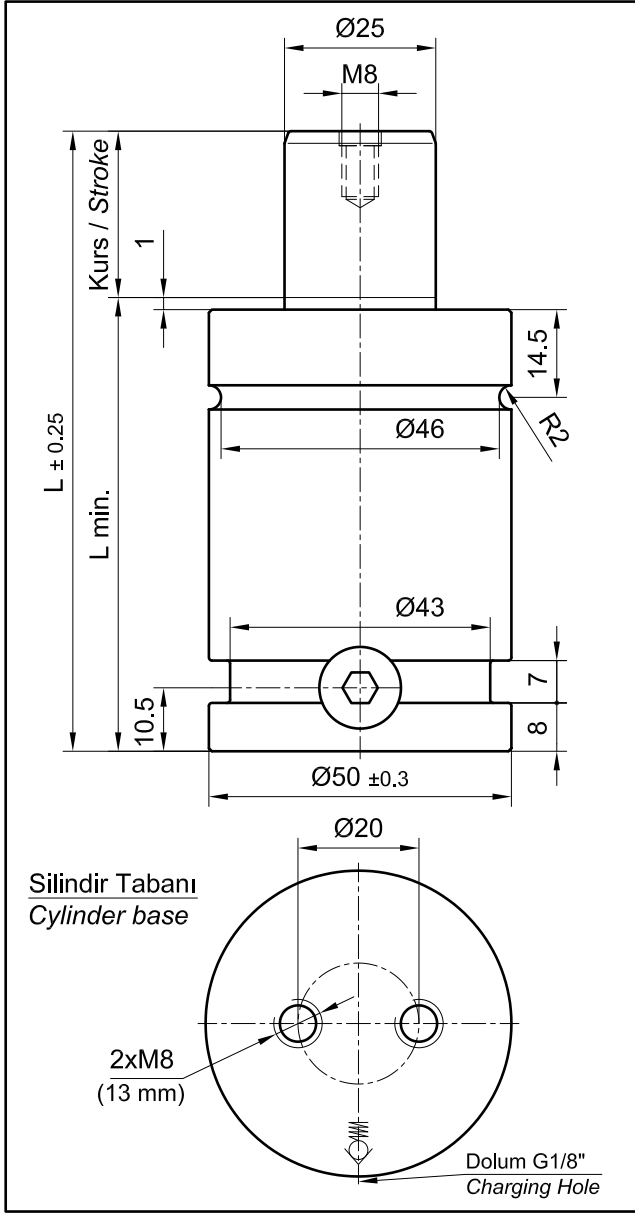
65 KBM 500 - 006

Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

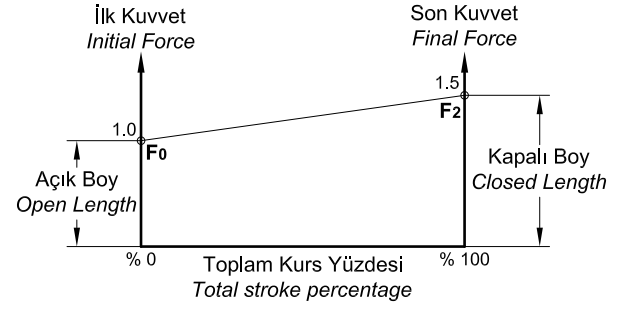
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 KBM 500 - 006	6	62	56	150 50	500	700
65 KBM 500 - 013	13	75.4	62.7			
65 KBM 500 - 019	19	88.1	69.1			
65 KBM 500 - 025	25	100	75			
65 KBM 500 - 038	38	126	88			
65 KBM 500 - 050	50	150	100			
65 KBM 500 - 063	63	177	113.5			
65 KBM 500 - 080	80	210	130			
65 KBM 500 - 100	100	250	150			
65 KBM 500 - 125	125	300	175			

<p>50 205 100 537</p>  <p>ISO 11901-2 TİP C</p>	<p>50 205 100 240</p>  <p>ISO 11901-2 TİP B</p>	
<p>50 205 101 320</p>  <p>ISO 11901-2 TİP C2</p>	<p>50 205 100 630</p>  <p>ISO 11901-2 TİP C2</p>	<p>50 205 100 840</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>50 205 101 530</p>  <p>ISO 11901-2 TİP C2</p>		<p>50 205 100 021</p>  <p>ISO 11901-2 TİP C2</p>

750 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) : approx. 15 to 40 (at 20 °C)



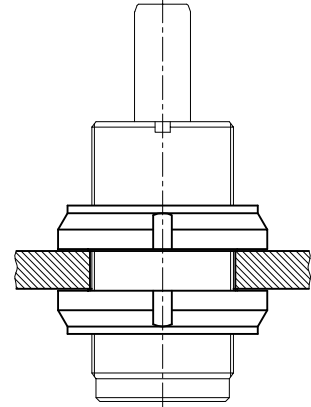
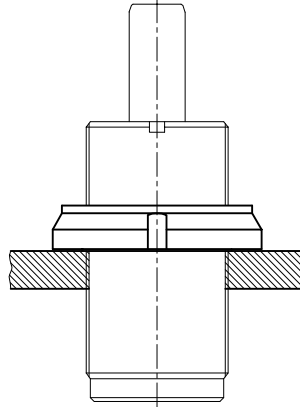
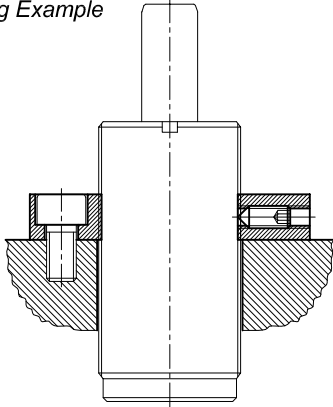
### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

65 KB 750 - 006

65 — Kurs (mm)  
KB — Stroke  
750 — F<sub>0</sub> (daN)  
— Tip  
006 — Type

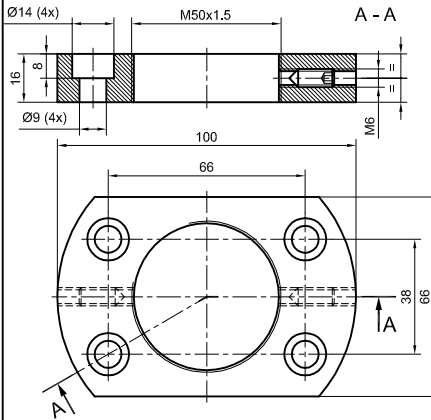
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KB 750 - 006	6	62	56	150 25	750	1125
65 KB 750 - 013	13	75.4	62.7			
65 KB 750 - 019	19	88.1	69.1			
65 KB 750 - 025	25	100	75			
65 KB 750 - 038	38	126	88			
65 KB 750 - 050	50	150	100			
65 KB 750 - 063	63	177	113.5			
65 KB 750 - 080	80	210	130			
65 KB 750 - 100	100	250	150			
65 KB 750 - 125	125	300	175			



Montaj Örneği  
 Mounting Example


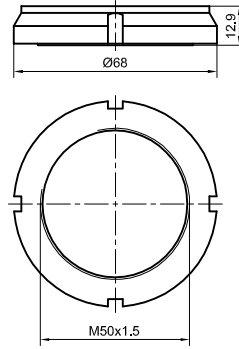
50

205 100 730

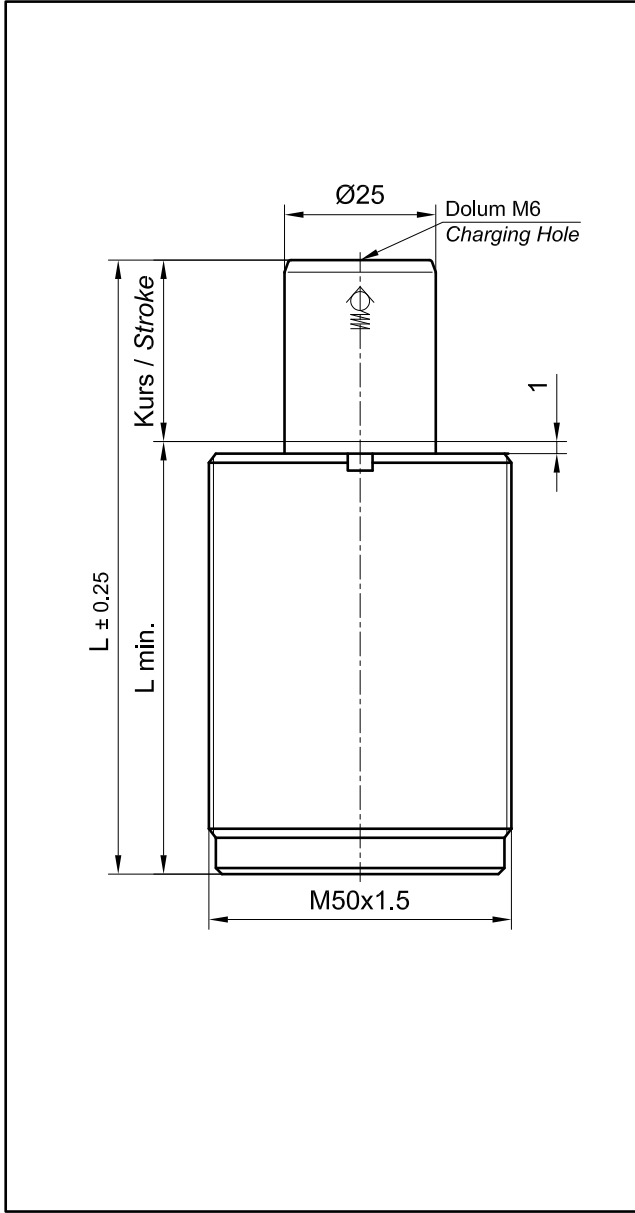


50

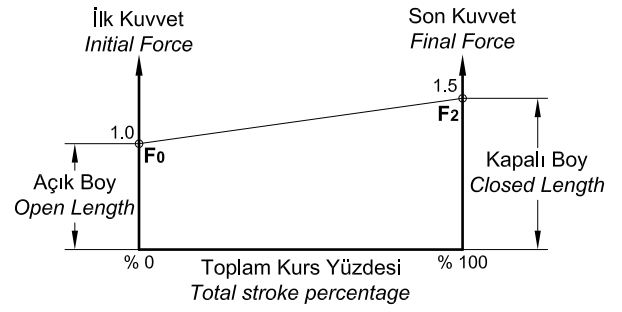
220 820 025



750 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) : approx. 15 to 40 (at 20 °C)

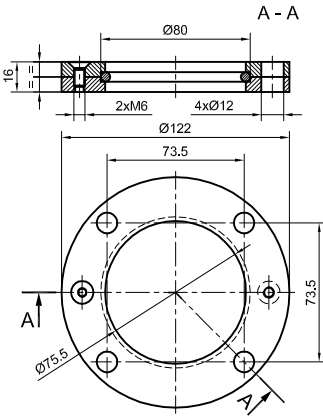
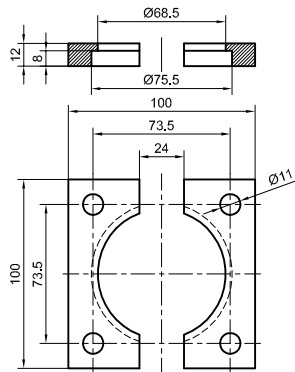
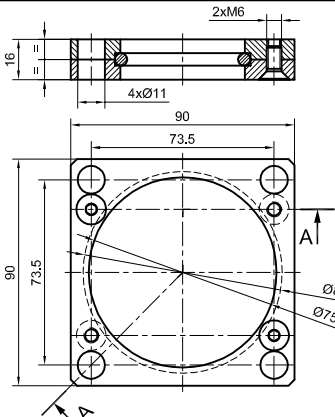
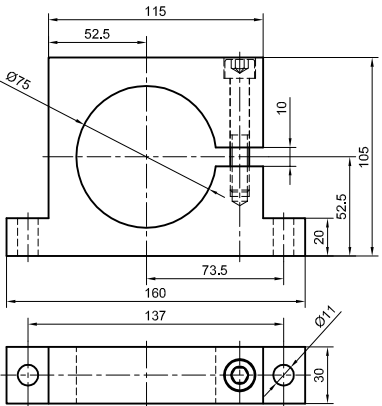
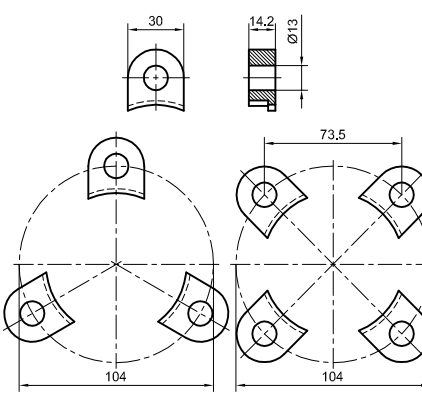
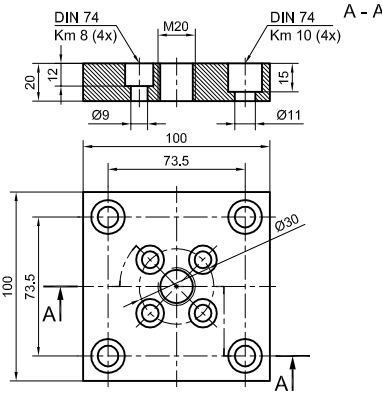


### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

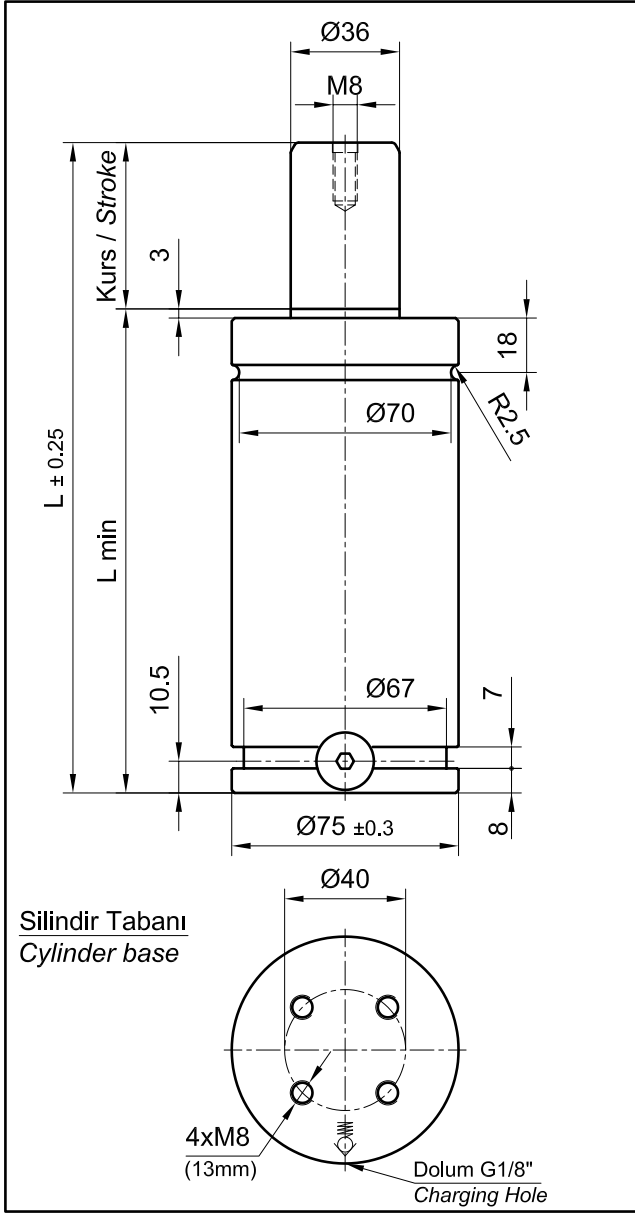
65 KBM 750 - 006

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

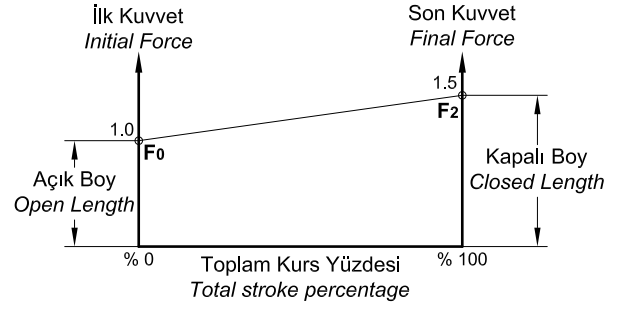
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KB 750 - 006	6	62	56	150 25	750	1125
65 KB 750 - 013	13	75.4	62.7			
65 KB 750 - 019	19	88.1	69.1			
65 KB 750 - 025	25	100	75			
65 KB 750 - 038	38	126	88			
65 KB 750 - 050	50	150	100			
65 KB 750 - 063	63	177	113.5			
65 KB 750 - 080	80	210	130			
65 KB 750 - 100	100	250	150			
65 KB 750 - 125	125	300	175			

<p>75 205 100 555</p>  <p>ISO 11901-2 TYP C</p>	<p>75 205 100 260</p>  <p>ISO 11901-2 TYP B</p>	
	<p>75 205 100 650</p>  <p>ISO 11901-2 TYP C2</p>	<p>75 205 100 860</p>  <p>ISO 11901-2-VDI 3003 TYP D</p>
<p>75 205 101 550</p>  <p>ISO 11901-2 TYP C</p>		<p>75 205 100 042</p>  <p>ISO 11901-2 TYP C</p>

1500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) : approx. 15 to 40 (at 20 °C)



### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

## 65 KB 1500 - 025

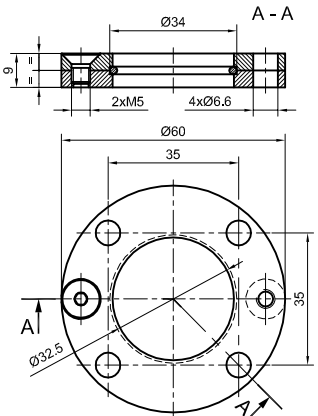
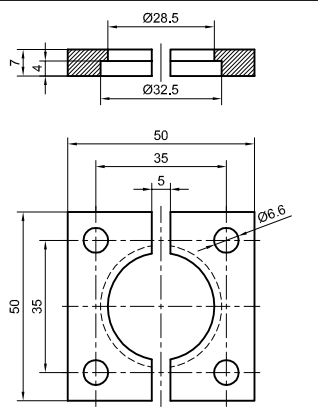
Kurs (mm)  
Stroke

F<sub>0</sub> (daN)

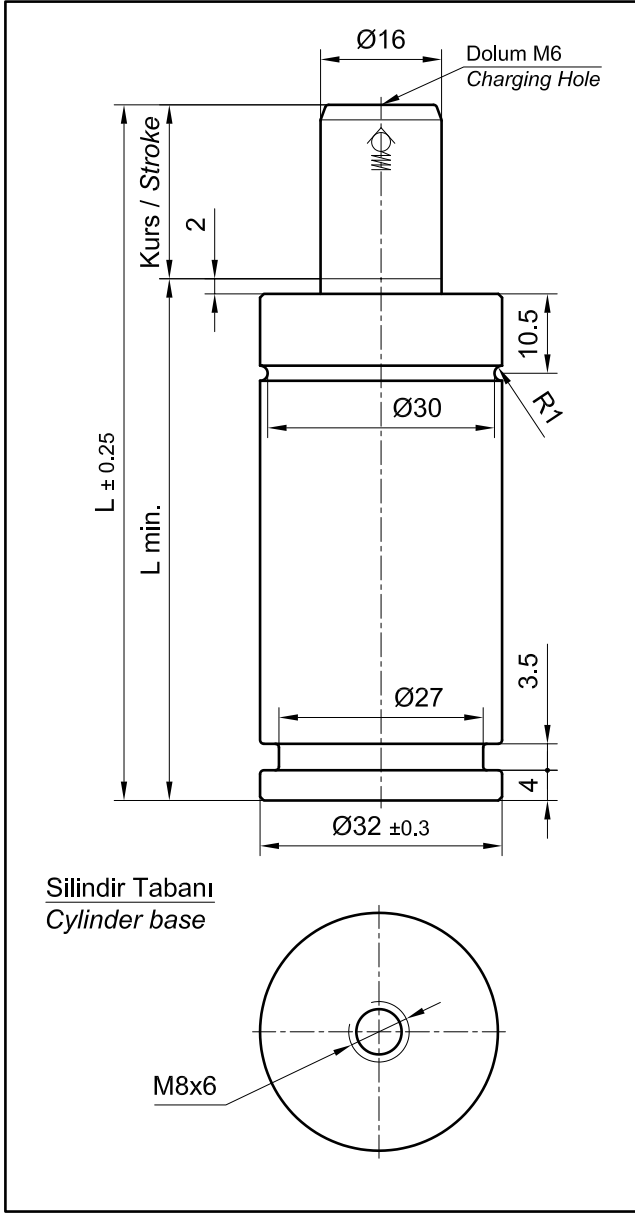
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KB 1500 - 025	25	110	85	150 25	1500	2250
65 KB 1500 - 038	38	136	98			
65 KB 1500 - 050	50	160	110			
65 KB 1500 - 063	63	187	123.5			
65 KB 1500 - 080	80	220	140			
65 KB 1500 - 100	100	260	160			

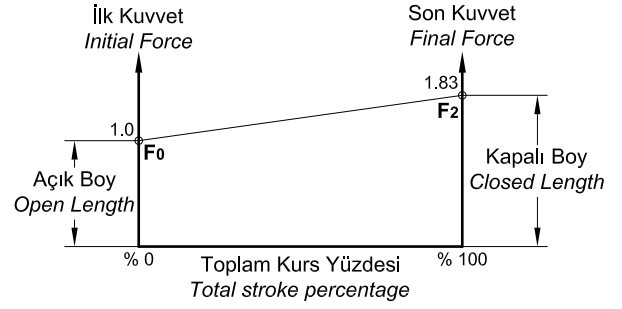


<p>32 205 100 510</p>  <p>ISO 11901-2 TYP C</p>		
<p>32 205 100 210</p>  <p>ISO 11901-2 TYP B</p>		

300 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)

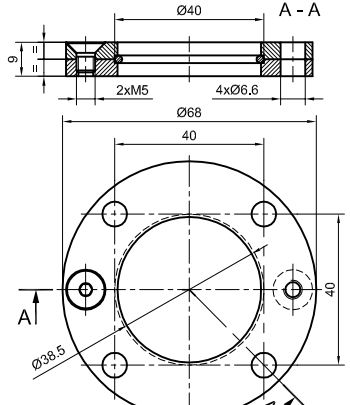
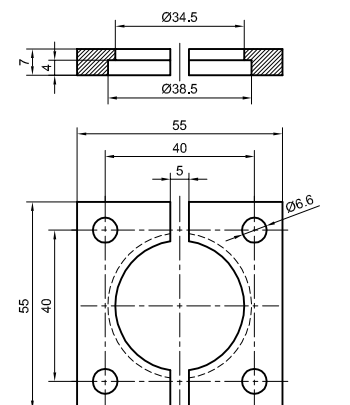
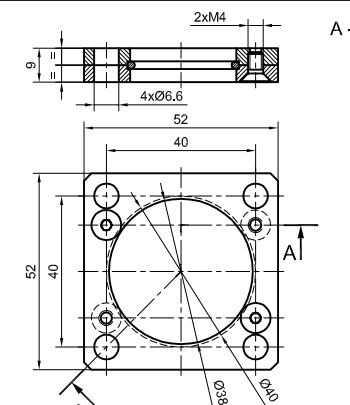


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

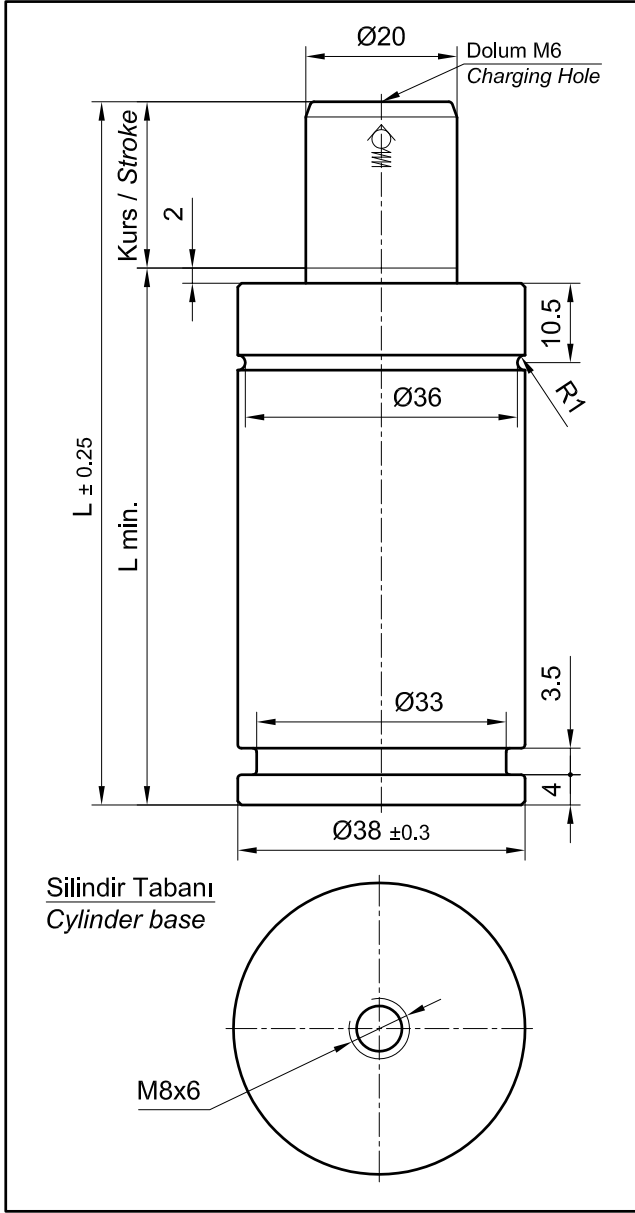
**65 KU 300 - 010**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

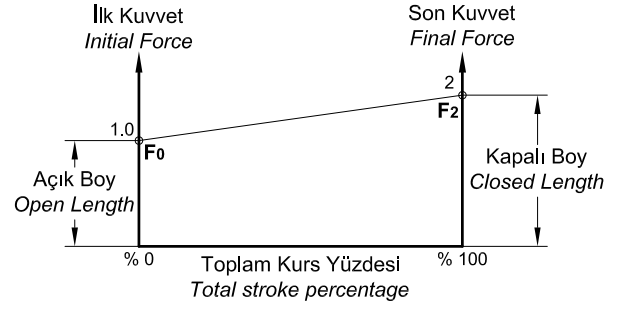
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 300 - 010	10	70	60	150 25	300	550
65 KU 300 - 013	13	75.4	62.7			
65 KU 300 - 016	16	82	66			
65 KU 300 - 025	25	100	75			
65 KU 300 - 038	38	126	88			
65 KU 300 - 050	50	150	100			
65 KU 300 - 063	63	177	113.5			
65 KU 300 - 080	80	210	130			
65 KU 300 - 100	100	250	150			
65 KU 300 - 125	125	300	175			

<p>38 205 100 519</p>  <p>ISO 11901-2 TİP C</p>	<p>38 205 100 220</p>  <p>ISO 11901-2 TİP B</p>	
	<p>38 205 100 610</p>  <p>ISO 11901-2 TİP C2</p>	

500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)

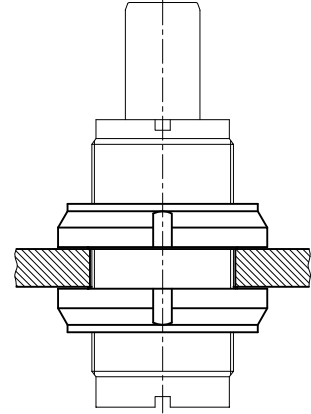
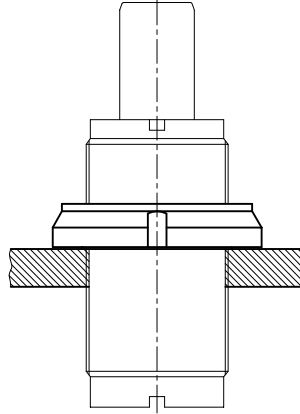
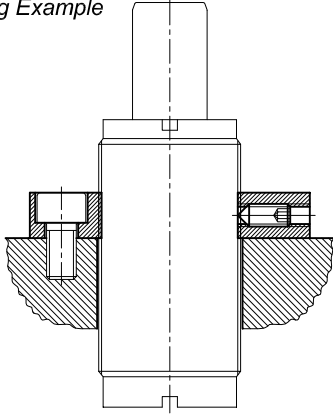


**SIPARIŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 KU 500 - 010**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

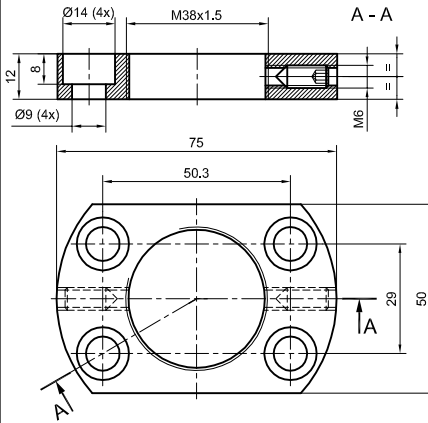
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 500 - 010	10	70	60	150 25	500	1000
65 KU 500 - 013	13	75.4	62.7			
65 KU 500 - 016	16	82	66			
65 KU 500 - 025	25	100	75			
65 KU 500 - 038	38	126	88			
65 KU 500 - 050	50	150	100			
65 KU 500 - 063	63	177	113.5			
65 KU 500 - 080	80	210	130			
65 KU 500 - 100	100	250	150			
65 KU 500 - 125	125	300	175			

Montaj Örneği  
Mounting Example



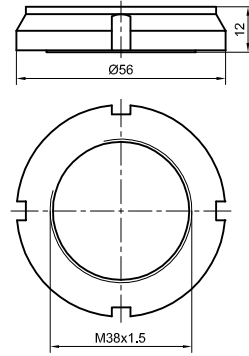
38

205 100 710



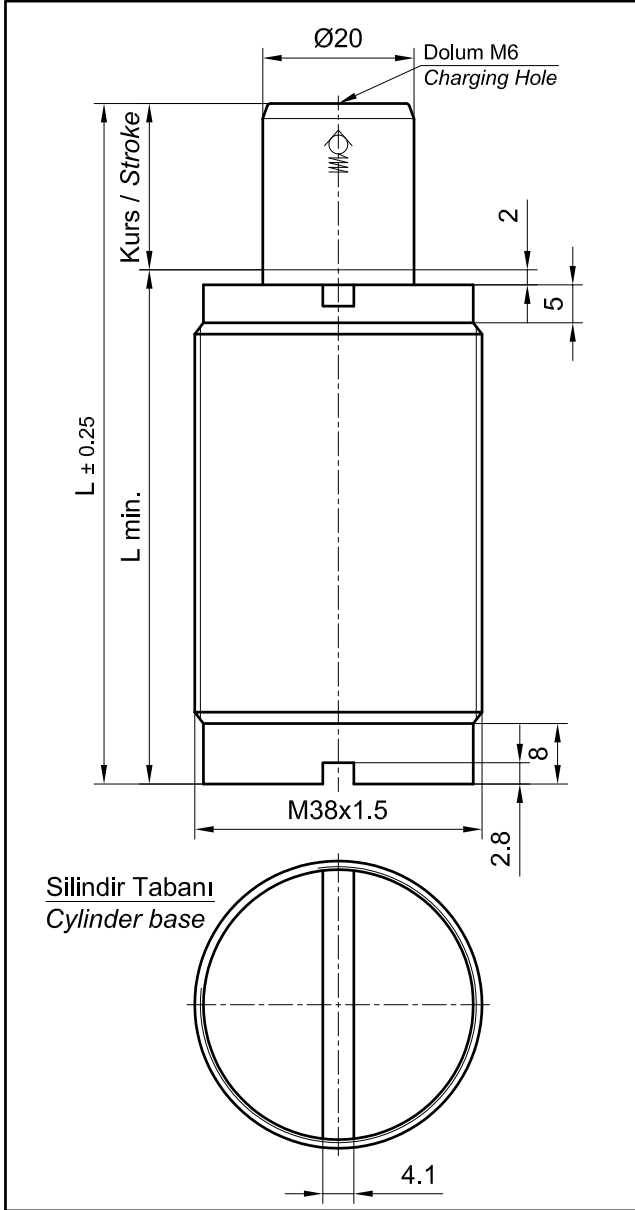
38

220 820 015

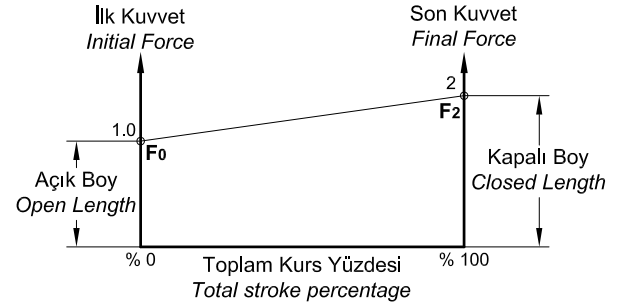


500 daN

Vidalı Gövde / Threaded Body

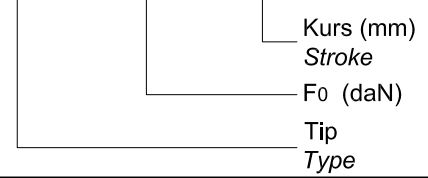


Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)

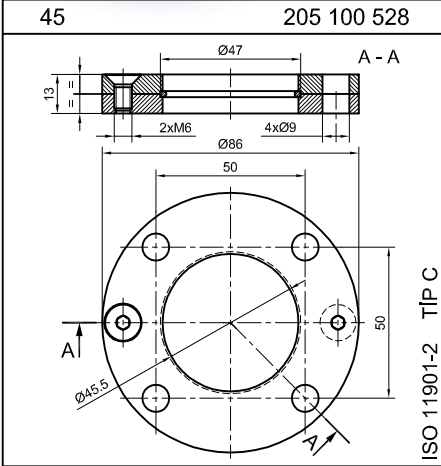
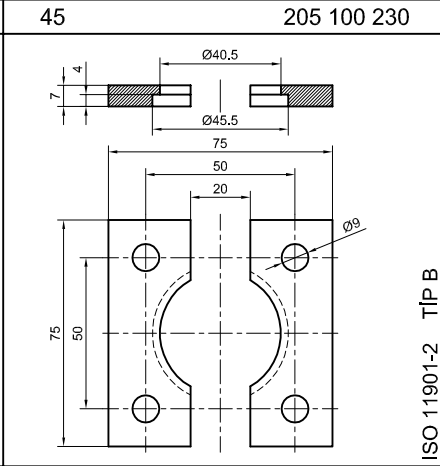
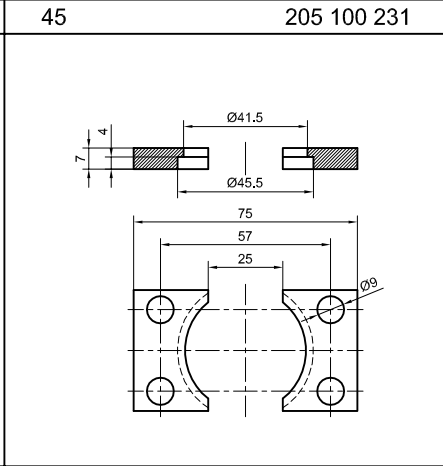
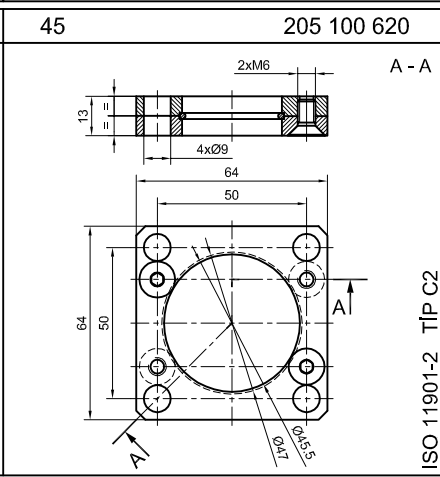
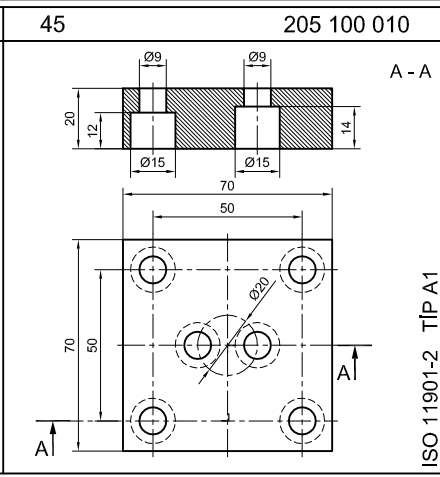
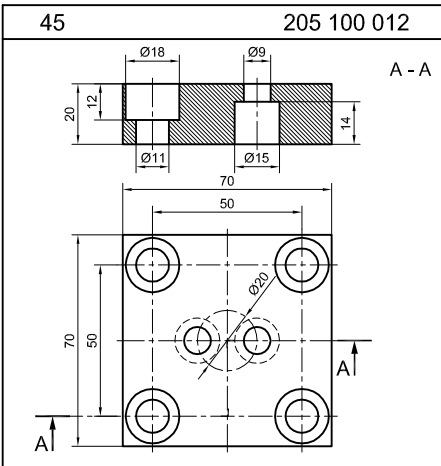


### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

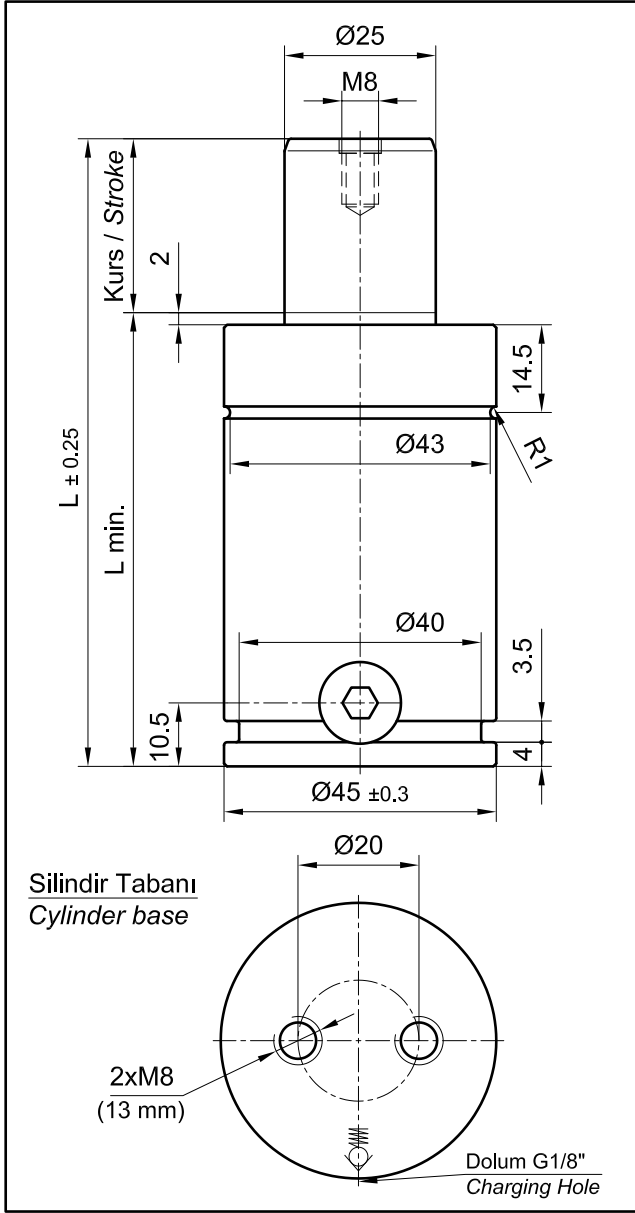
65 KUM 500 - 010


  
Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

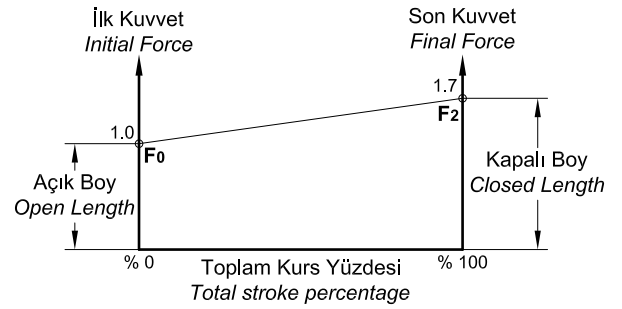
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 KUM 500 - 010	10	70	60	150 25	500	1000
65 KUM 500 - 013	13	75.4	62.7			
65 KUM 500 - 016	16	82	66			
65 KUM 500 - 025	25	100	75			
65 KUM 500 - 038	38	126	88			
65 KUM 500 - 050	50	150	100			
65 KUM 500 - 063	63	177	113.5			
65 KUM 500 - 080	80	210	130			
65 KUM 500 - 100	100	250	150			
65 KUM 500 - 125	125	300	175			

<p>45 205 100 528</p>  <p>ISO 11901-2 TYP C</p>	<p>45 205 100 230</p>  <p>ISO 11901-2 TYP B</p>	<p>45 205 100 231</p>  <p>ISO 11901-2 TYP B</p>
	<p>45 205 100 620</p>  <p>ISO 11901-2 TYP C2</p>	
	<p>45 205 100 010</p>  <p>ISO 11901-2 TYP A1</p>	
<p>45 205 100 012</p>  <p>ISO 11901-2 TYP A1</p>		

750 daN



Dolum gazı Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolma basıncı Max. filling pressure	: 150 bar
Min. dolma basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



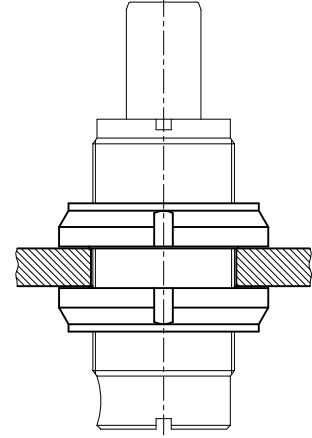
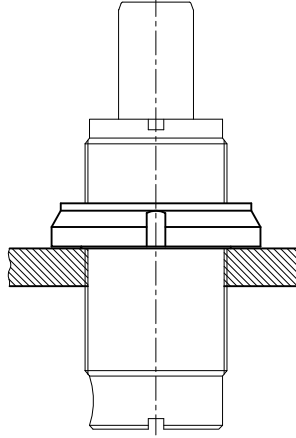
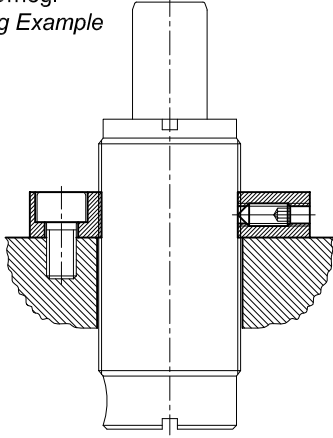
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 KU 750 - 013**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 750 - 013	13	110.4	97.7	150 25	750	1200
65 KU 750 - 025	25	135	110			
65 KU 750 - 038	38	161	123			
65 KU 750 - 050	50	185	135			
65 KU 750 - 063	63	212	148.5			
65 KU 750 - 080	80	245	165			
65 KU 750 - 100	100	285	185			
65 KU 750 - 125	125	335	210			
65 KU 750 - 160	160	405	245			

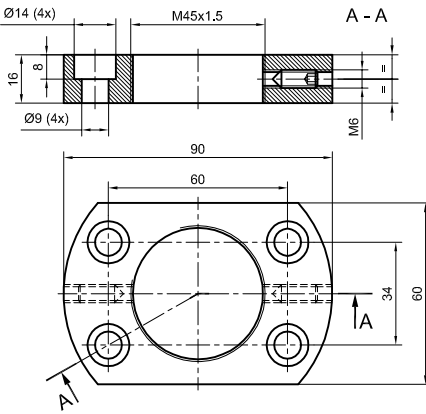


Montaj Örneği  
Mounting Example



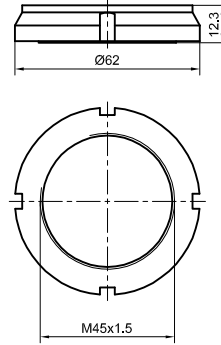
45

205 100 720



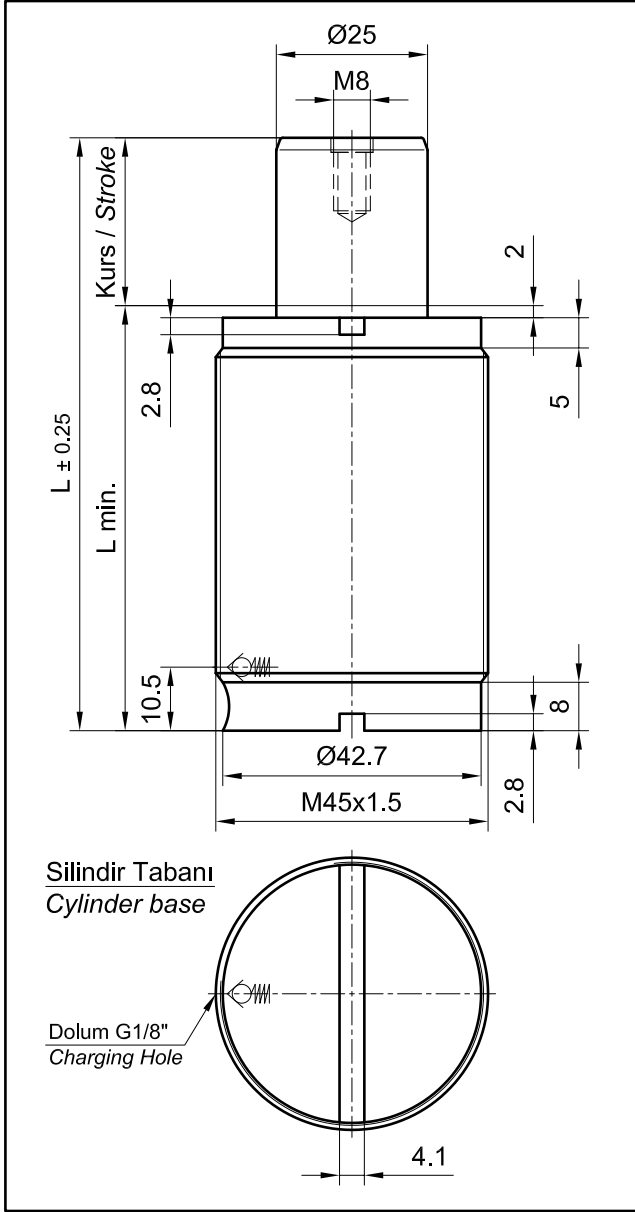
45

220 820 020

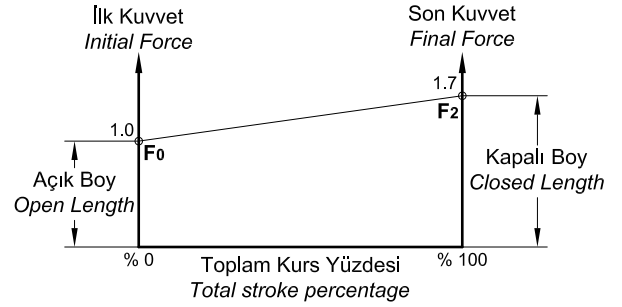


Vidalı Gövde / Threaded Body

750 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



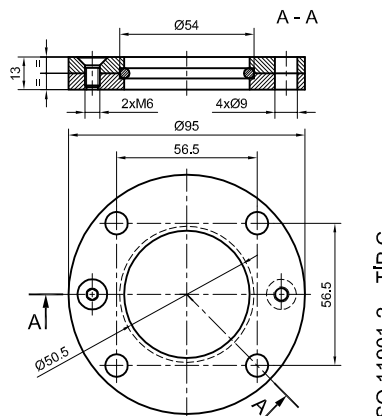
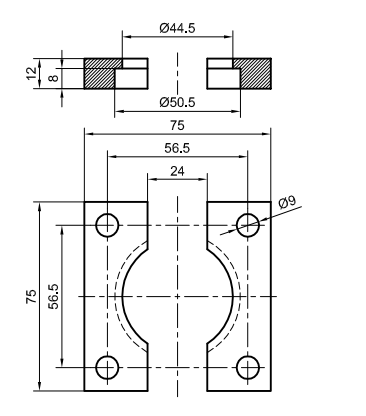
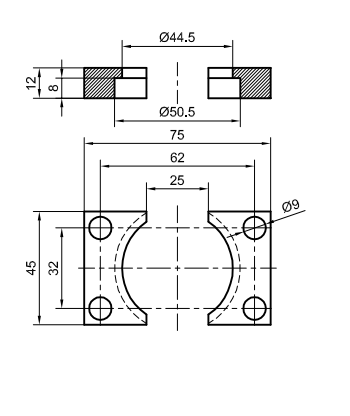
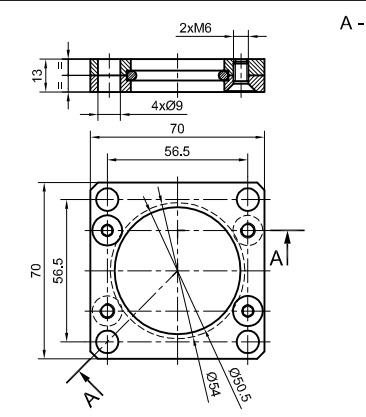
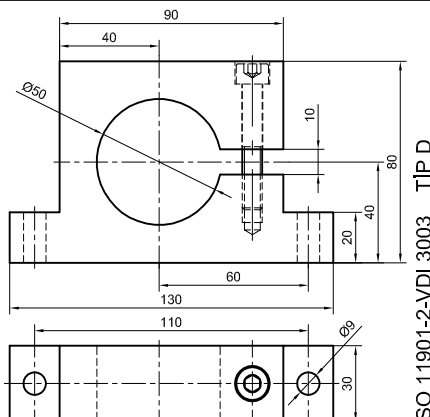
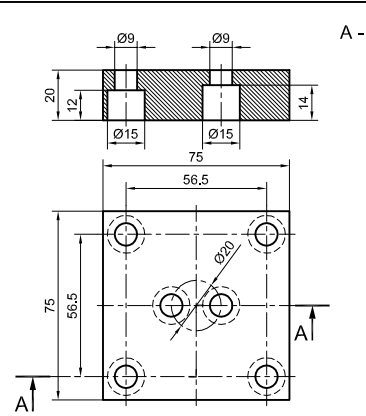
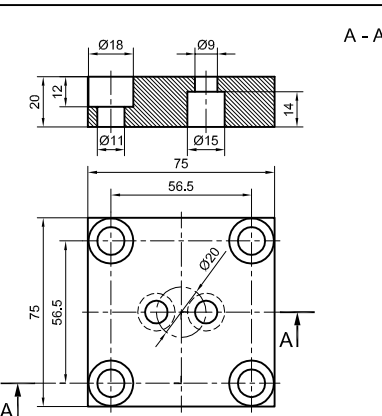
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 KUM 750 - 013**

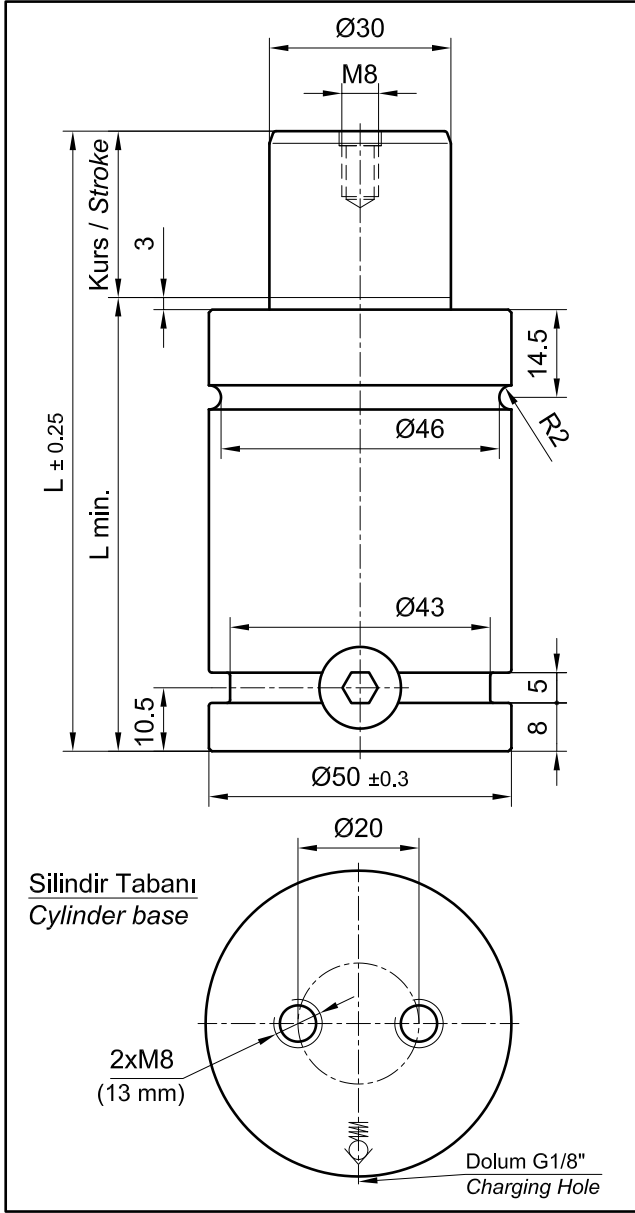
— Kurs (mm)  
— Stroke  
— F0 (daN)  
— Tip  
— Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 KUM 750 - 013	13	110.4	97.7	150 25	750	1200
65 KUM 750 - 025	25	135	110			
65 KUM 750 - 038	38	161	123			
65 KUM 750 - 050	50	185	135			
65 KUM 750 - 063	63	212	148.5			
65 KUM 750 - 080	80	245	165			
65 KUM 750 - 100	100	285	185			
65 KUM 750 - 125	125	335	210			
65 KUM 750 - 160	160	405	245			

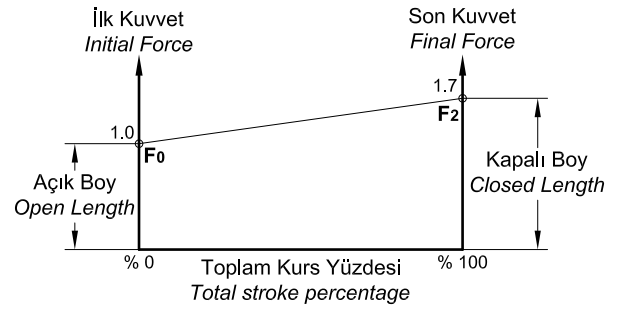


<p>50 205 100 537</p>  <p>ISO 11901-2 TYP C</p>	<p>50 205 100 240</p>  <p>ISO 11901-2 TYP B</p>	<p>50 205 100 241</p>  <p>ISO 11901-2 TYP B</p>
	<p>50 205 100 630</p>  <p>ISO 11901-2 TYP C2</p>	<p>50 205 100 840</p>  <p>ISO 11901-2-VDI 3003 TYP D</p>
	<p>50 205 100 020</p>  <p>ISO 11901-2 TYP A1</p>	
<p>50 205 100 022</p>  <p>ISO 11901-2 TYP A1</p>		

1000 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolun basıncı	: 150 bar
Max. filling pressure	
Min. dolun basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 20÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

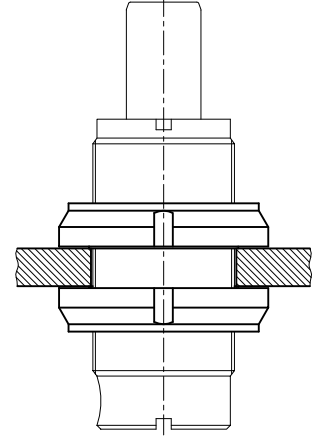
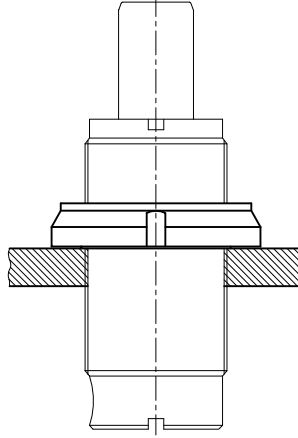
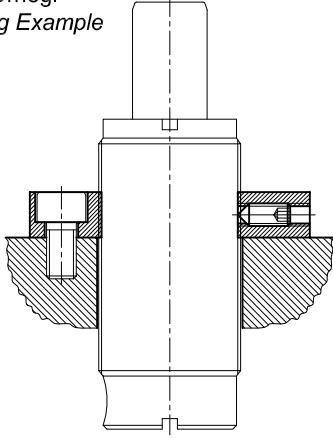
**65 KU 1000 - 013**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 1000 - 013	13	120.4	107.7	150 25	1000	1700
65 KU 1000 - 025	25	145	120			
65 KU 1000 - 038	38	171	133			
65 KU 1000 - 050	50	195	145			
65 KU 1000 - 063	63	222	158.5			
65 KU 1000 - 080	80	255	175			
65 KU 1000 - 100	100	295	195			
65 KU 1000 - 125	125	345	220			
65 KU 1000 - 160	160	415	255			
65 KU 1000 - 200	200	495	295			
65 KU 1000 - 250	250	595	345			
65 KU 1000 - 300	300	695	395			



Montaj Örneği  
Mounting Example

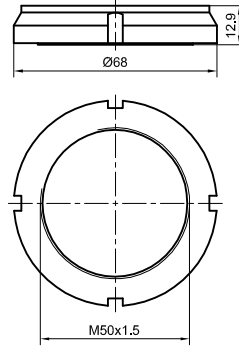
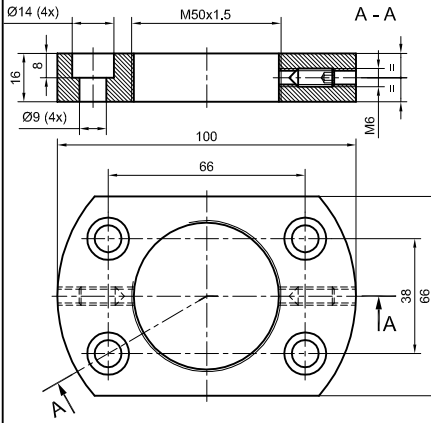


50

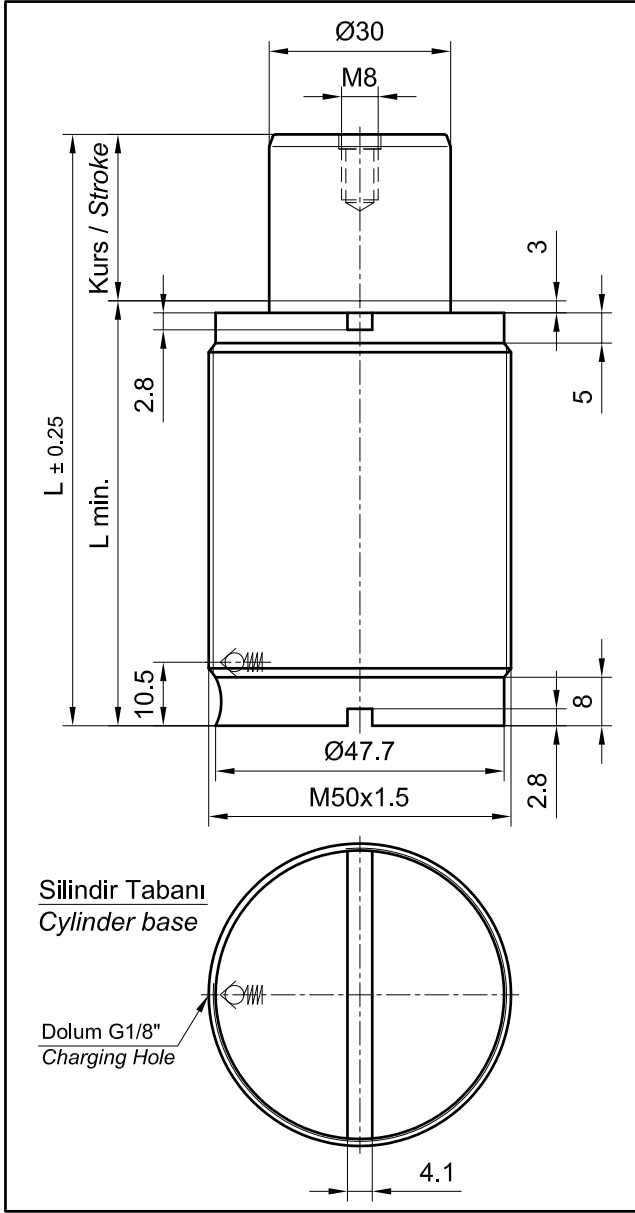
205 100 730

50

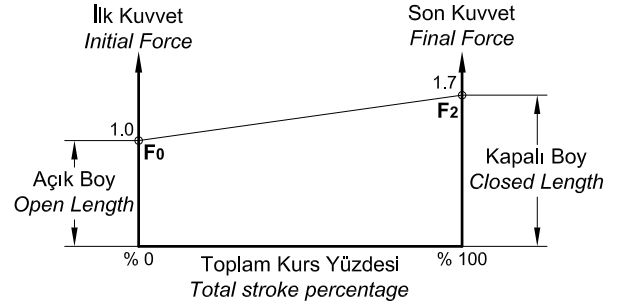
220 820 025



1000 daN



Dolum gazı Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



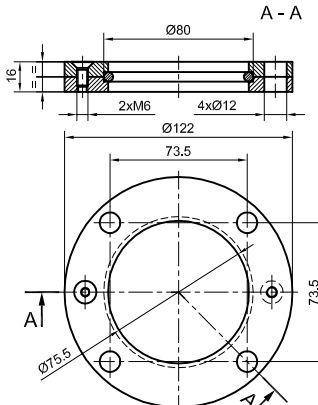
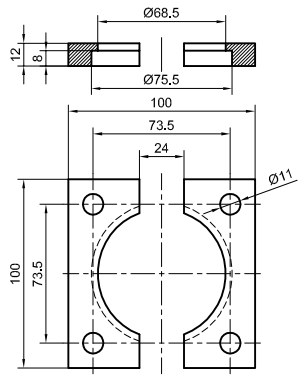
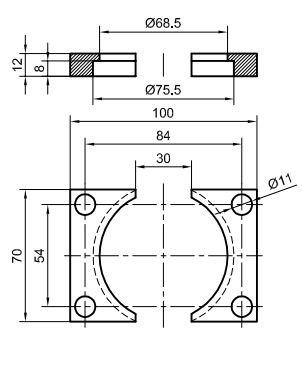
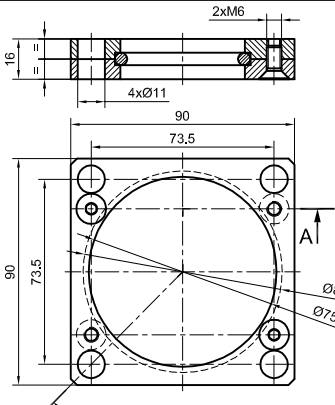
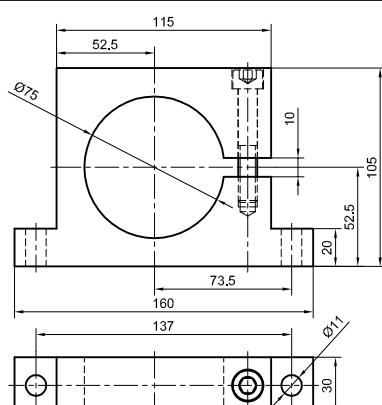
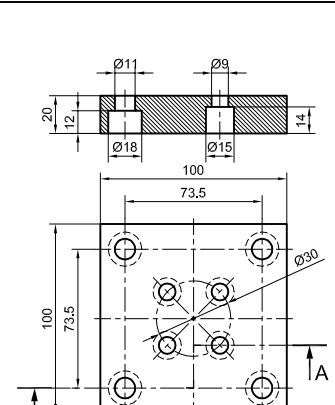
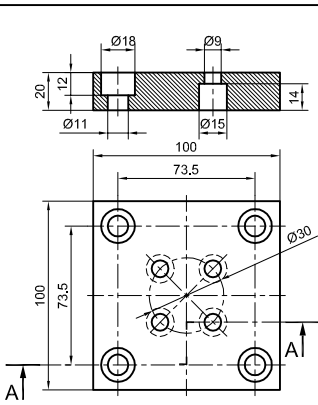
**SIPARIŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 KUM 1000 - 013**

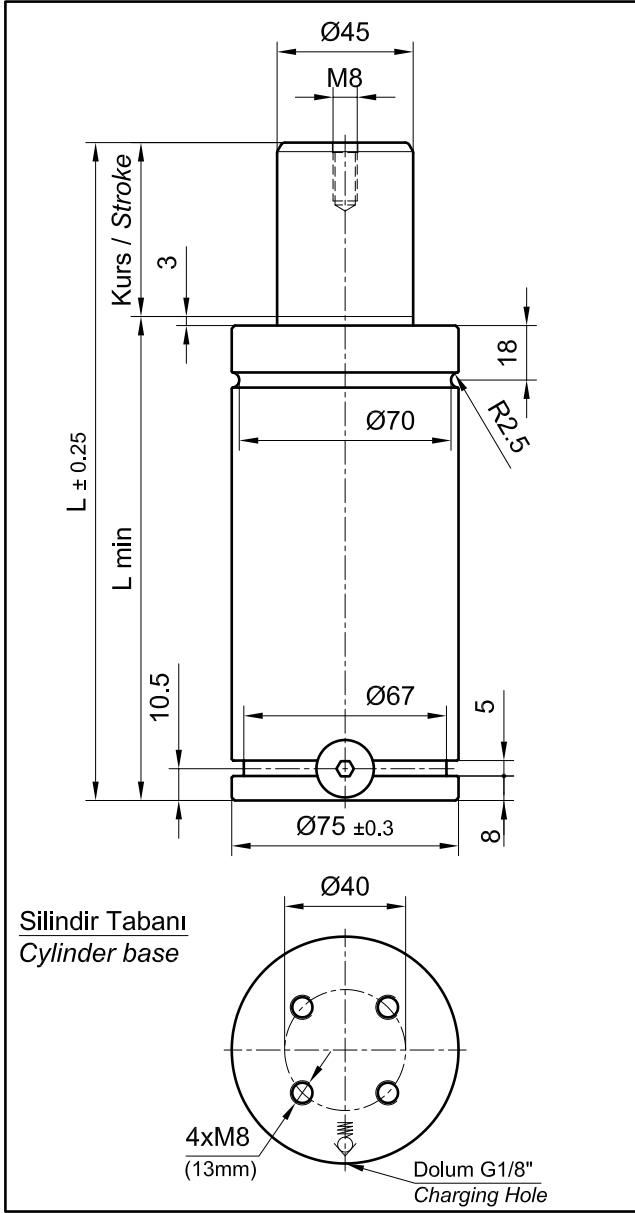
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KUM 1000 - 013	13	120.4	107.7	150 25	1000	1700
65 KUM 1000 - 025	25	145	120			
65 KUM 1000 - 038	38	171	133			
65 KUM 1000 - 050	50	195	145			
65 KUM 1000 - 063	63	222	158.5			
65 KUM 1000 - 080	80	255	175			
65 KUM 1000 - 100	100	295	195			
65 KUM 1000 - 125	125	345	220			
65 KUM 1000 - 160	160	415	255			
65 KUM 1000 - 200	200	495	295			
65 KUM 1000 - 250	250	595	345			
65 KUM 1000 - 300	300	695	395			

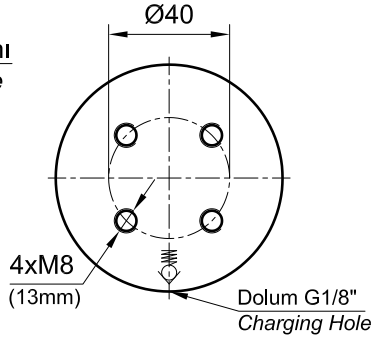


<p>75 205 100 555</p>  <p>ISO 11901-2 TİP C</p>	<p>75 205 100 260</p>  <p>ISO 11901-2 TİP B</p>	<p>75 205 100 261</p> 
	<p>75 205 100 650</p>  <p>ISO 11901-2 TİP C2</p>	<p>75 205 100 860</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
	<p>75 205 100 040</p>  <p>ISO 11901-2 TİP A2</p>	
<p>75 205 100 041</p> 		

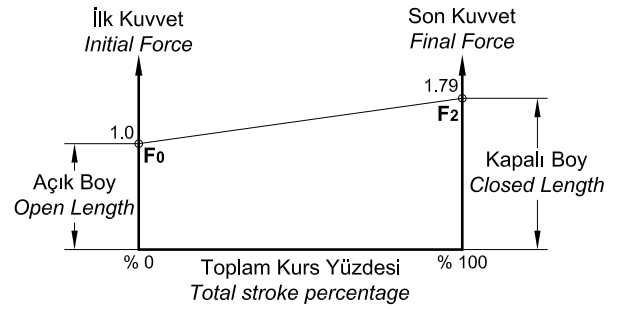
2400 daN



Silindir Tabanı  
Cylinder base



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



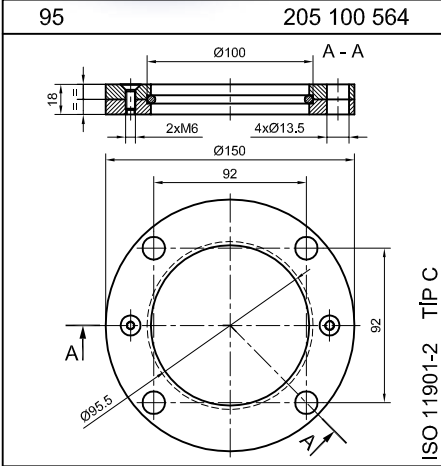
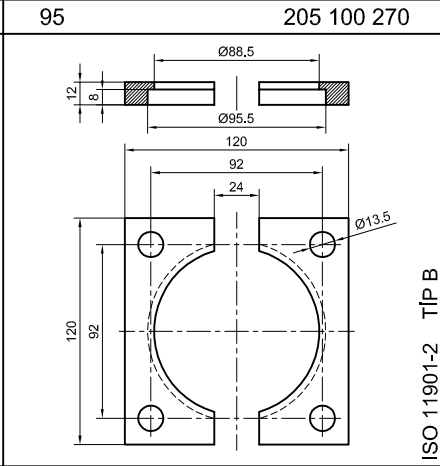
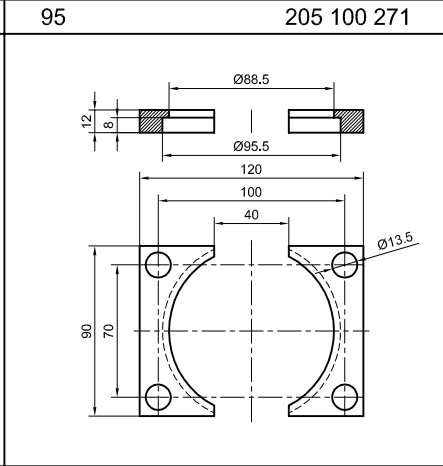
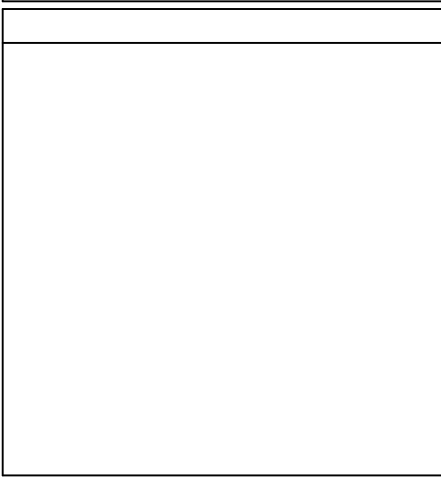
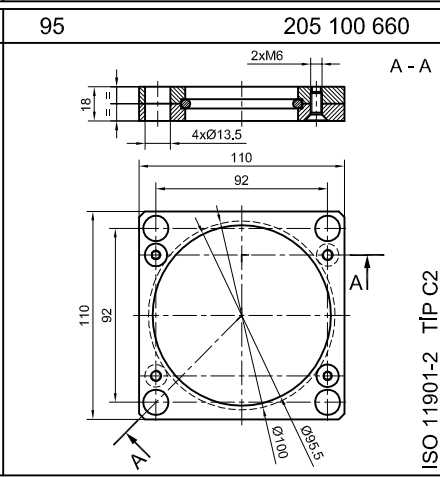
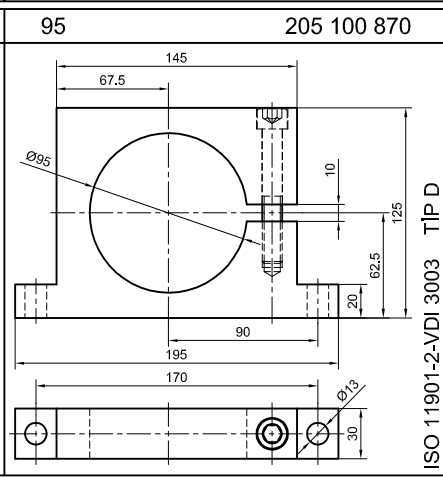
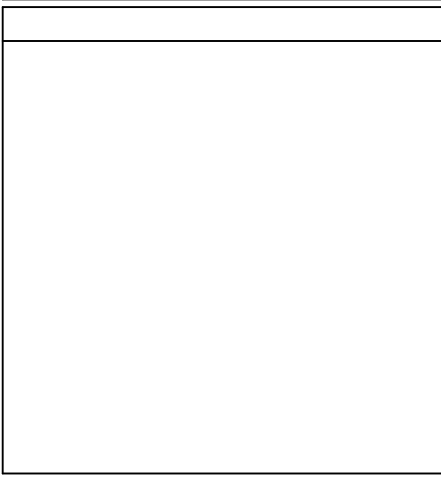
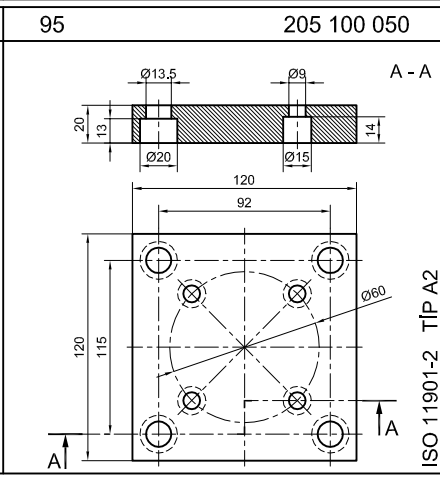
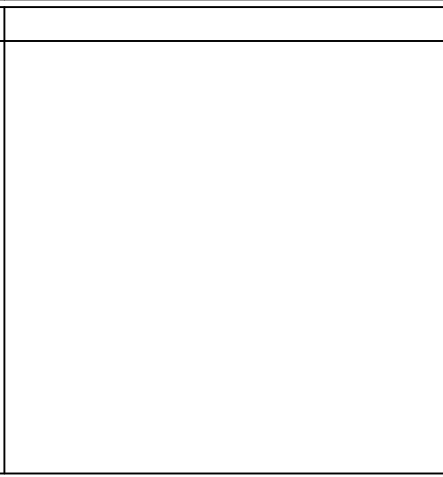
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 KU 2400 - 025**

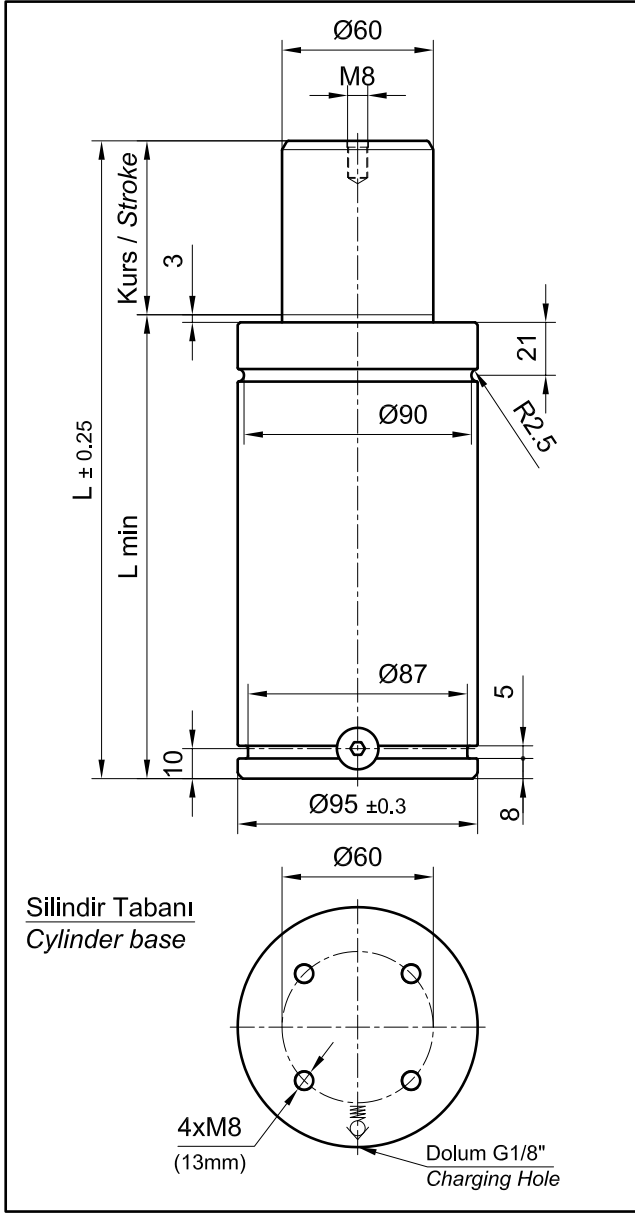
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 2400 - 025	25	160	135	150 25	2400	4300
65 KU 2400 - 038	38	186	148			
65 KU 2400 - 050	50	210	160			
65 KU 2400 - 063	63	237	173.5			
65 KU 2400 - 080	80	270	190			
65 KU 2400 - 100	100	310	210			
65 KU 2400 - 125	125	360	235			
65 KU 2400 - 160	160	430	270			
65 KU 2400 - 200	200	510	310			
65 KU 2400 - 250	250	610	360			
65 KU 2400 - 300	300	710	410			

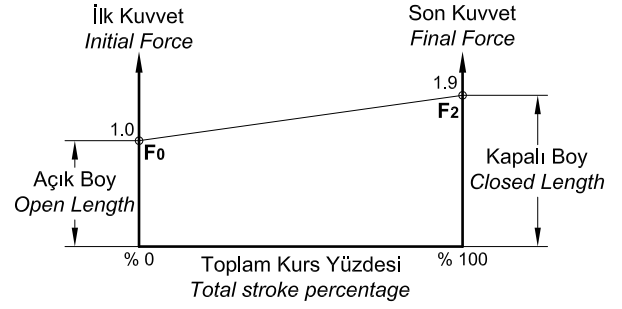


<p>95 205 100 564</p>  <p>ISO 11901-2 TİP C</p>	<p>95 205 100 270</p>  <p>ISO 11901-2 TİP B</p>	<p>95 205 100 271</p>  <p>ISO 11901-2 TİP B</p>
<p>95 205 100 660</p>  <p>ISO 11901-2 TİP C2</p>	<p>95 205 100 870</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>95 205 100 050</p>  <p>ISO 11901-2 TİP A2</p>
<p>95 205 100 051</p>  <p>ISO 11901-2 TİP A2</p>	<p>95 205 100 050</p>  <p>ISO 11901-2 TİP A2</p>	<p>95 205 100 051</p>  <p>ISO 11901-2 TİP A2</p>

4200 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolun basıncı	: 150 bar
Max. filling pressure	
Min. dolun basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 20÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 20 to 100 (at 20 °C)



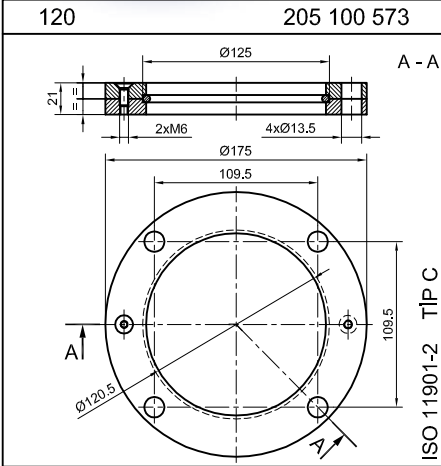
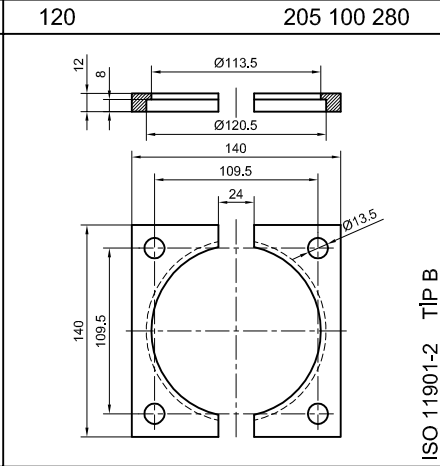
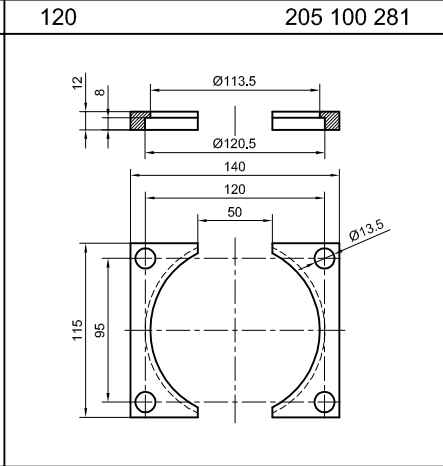
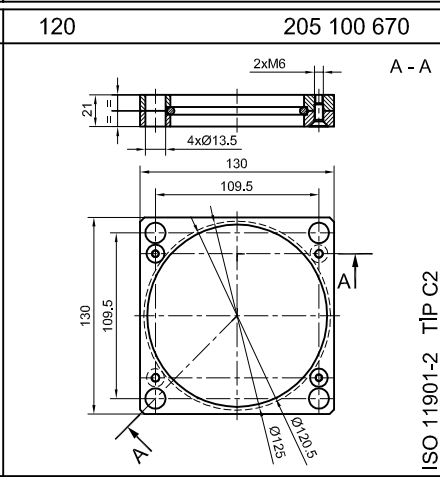
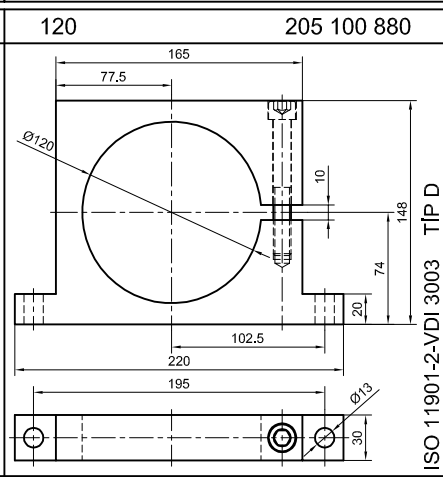
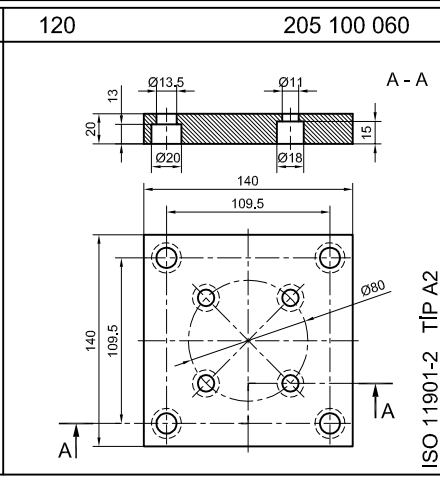
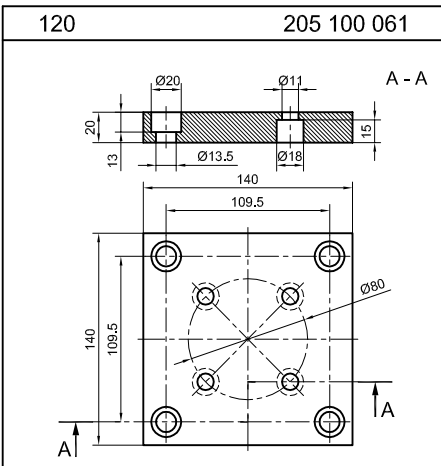
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 KU 4200 - 025**

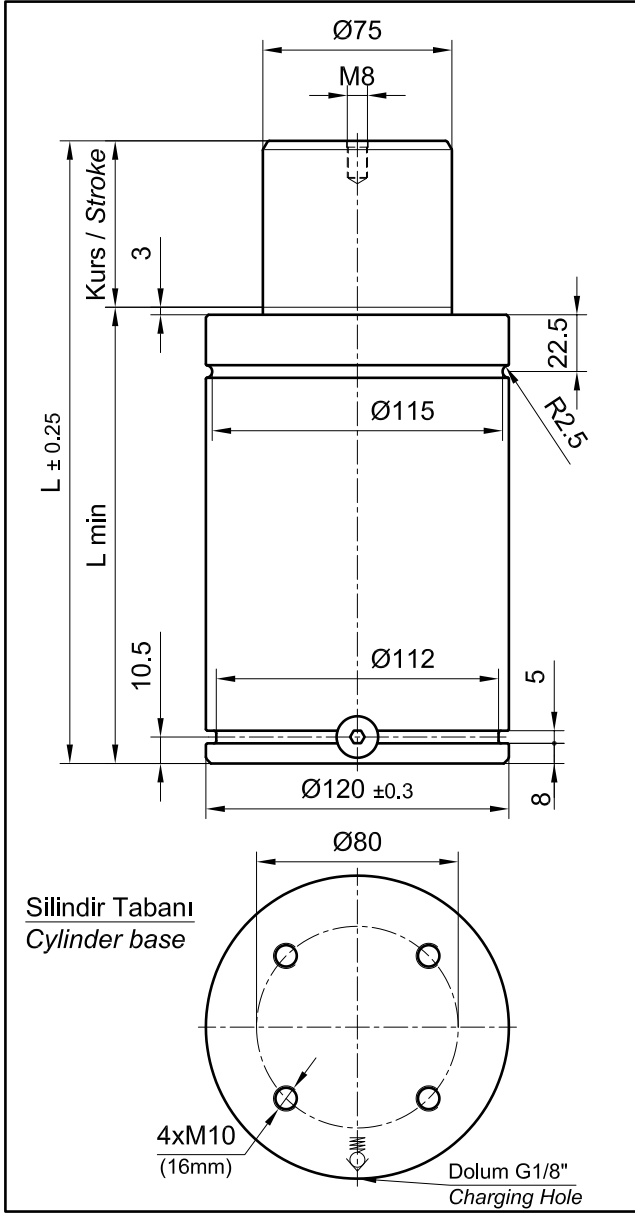
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 4200 - 025	25	170	145	150 25	4200	8000
65 KU 4200 - 038	38	196	158			
65 KU 4200 - 050	50	220	170			
65 KU 4200 - 063	63	247	183.5			
65 KU 4200 - 080	80	280	200			
65 KU 4200 - 100	100	320	220			
65 KU 4200 - 125	125	370	245			
65 KU 4200 - 160	160	440	280			
65 KU 4200 - 200	200	520	320			
65 KU 4200 - 250	250	620	370			
65 KU 4200 - 300	300	720	420			

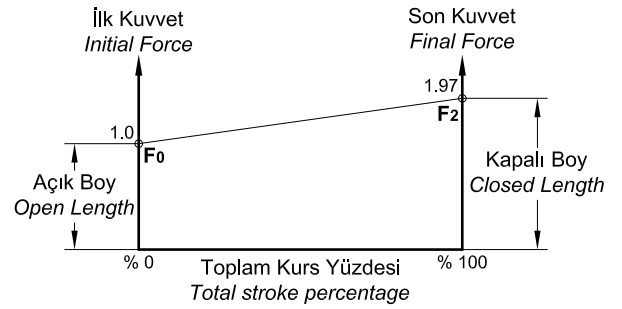


<p>120 205 100 573</p>  <p>ISO 11901-2 TIP C</p>	<p>120 205 100 280</p>  <p>ISO 11901-2 TIP B</p>	<p>120 205 100 281</p>  <p>ISO 11901-2 TIP B</p>
	<p>120 205 100 670</p>  <p>ISO 11901-2 TIP C2</p>	<p>120 205 100 880</p>  <p>ISO 11901-2-VDI 3003 TIP D</p>
	<p>120 205 100 060</p>  <p>ISO 11901-2 TIP A2</p>	
<p>120 205 100 061</p>  <p>ISO 11901-2 TIP A2</p>		

6600 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



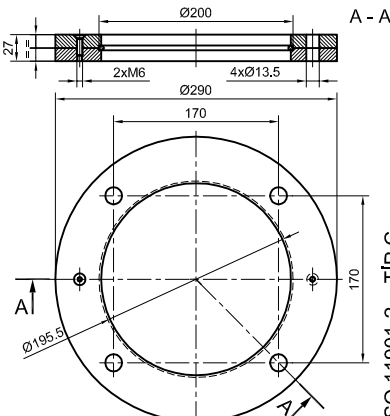
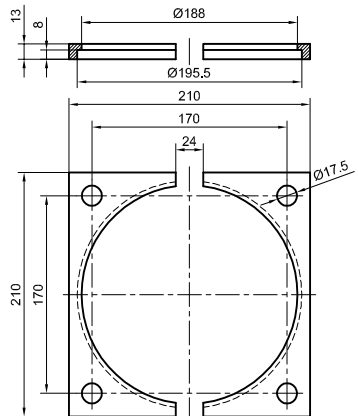
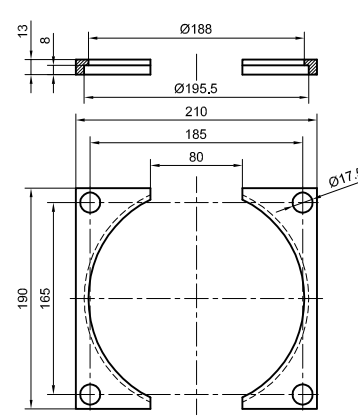
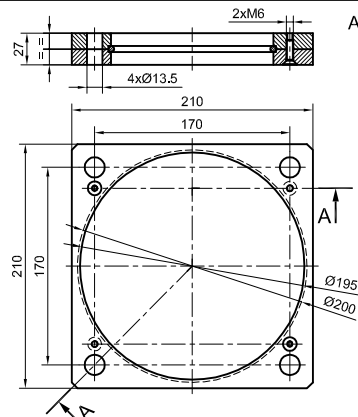
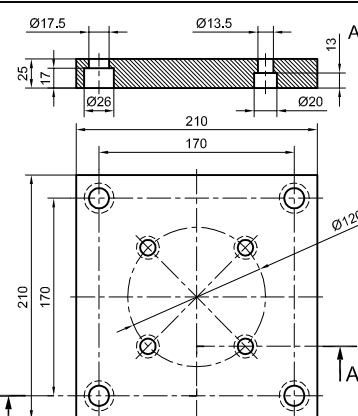
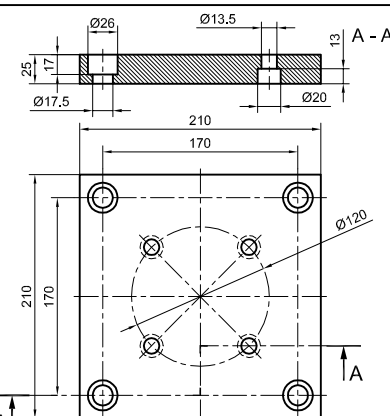
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 KU 6600 - 025**

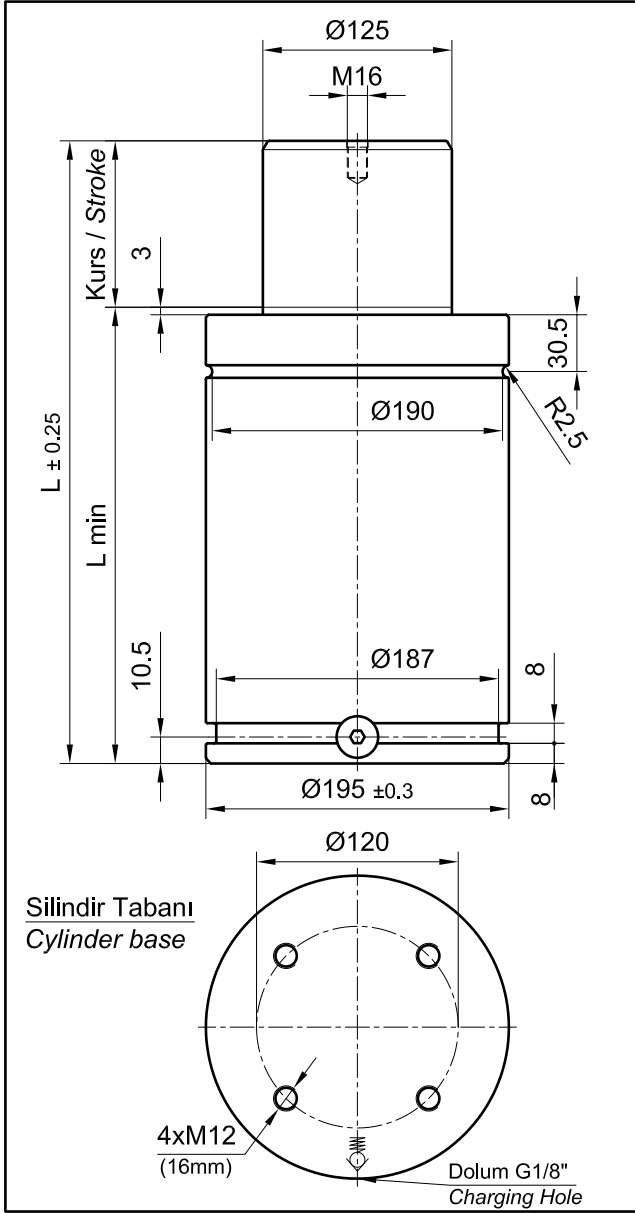
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 6600 - 025	25	190	165	150 25	6600	13000
65 KU 6600 - 038	38	216	178			
65 KU 6600 - 050	50	240	190			
65 KU 6600 - 063	63	267	203.5			
65 KU 6600 - 080	80	300	220			
65 KU 6600 - 100	100	340	240			
65 KU 6600 - 125	125	390	265			
65 KU 6600 - 160	160	460	300			
65 KU 6600 - 200	200	540	340			
65 KU 6600 - 250	250	640	390			
65 KU 6600 - 300	300	740	440			

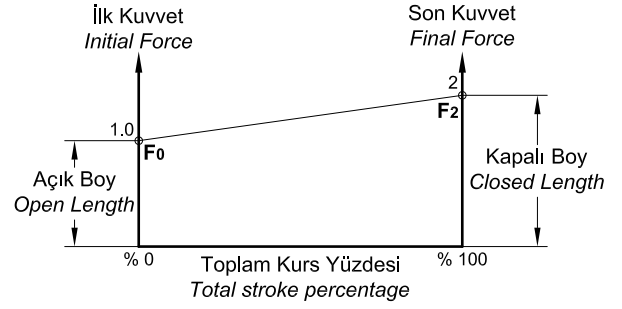


<p>195 205 100 591</p>  <p>ISO 11901-2 TİP C</p>	<p>195 205 100 300</p>  <p>ISO 11901-2 TİP B</p>	<p>195 205 100 301</p>  <p>ISO 11901-2 TİP B</p>
	<p>195 205 100 690</p>  <p>ISO 11901-2 TİP C2</p>	
	<p>195 205 100 080</p>  <p>ISO 11901-2 TİP A2</p>	
<p>195 205 100 081</p>  <p>ISO 11901-2 TİP A2</p>		

18500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

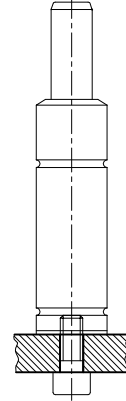
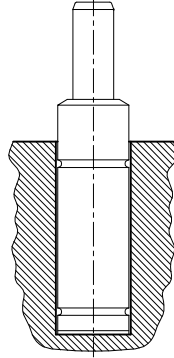
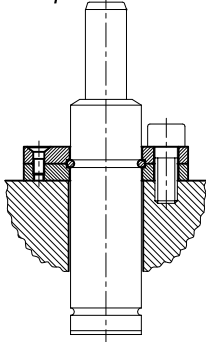
**65 KU 18500 - 025**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KU 18500 - 025	25	210	185	150 25	18500	37000
65 KU 18500 - 038	38	236	198			
65 KU 18500 - 050	50	260	210			
65 KU 18500 - 063	63	287	223.5			
65 KU 18500 - 080	80	320	240			
65 KU 18500 - 100	100	360	260			
65 KU 18500 - 125	125	410	285			
65 KU 18500 - 160	160	480	320			
65 KU 18500 - 200	200	560	360			
65 KU 18500 - 250	250	660	410			
65 KU 18500 - 300	300	760	460			

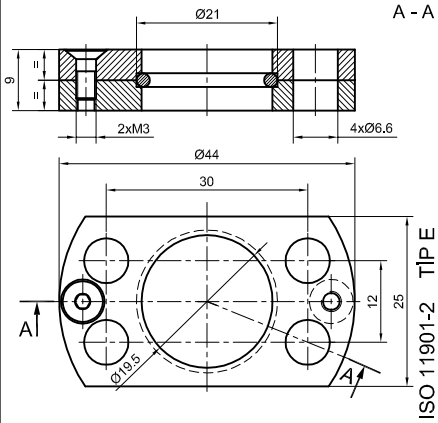


Montaj Örneği  
 Mounting Example

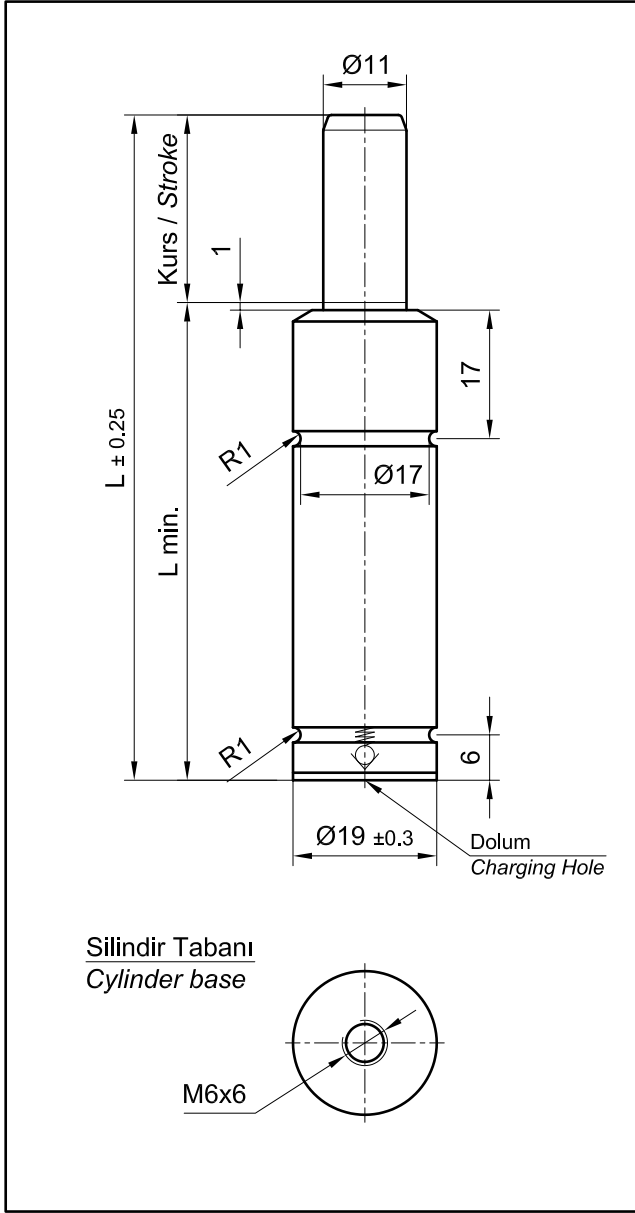


19

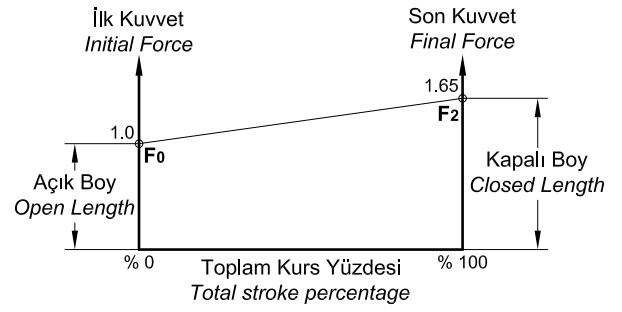
205 100 420



170 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 180 bar
Max. filling pressure	
Min. dolum basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 40 ÷ 100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 40 to 100 (at 20 °C)

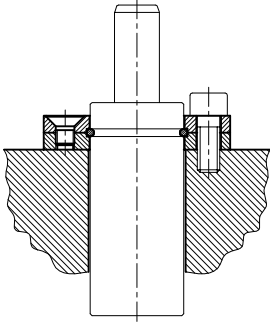


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 PS 170 - 007**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

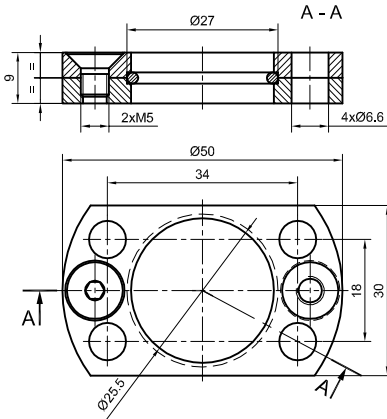
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 170 - 007	7	44	37	180 25	170	280
65 PS 170 - 010	10	50	40			
65 PS 170 - 015	15	60	45			
65 PS 170 - 019	19	68	49			
65 PS 170 - 025	25	80	55			
65 PS 170 - 038	38	106	68			
65 PS 170 - 050	50	130	80			
65 PS 170 - 063	63	156	93			
65 PS 170 - 075	75	185	110			
65 PS 170 - 080	80	195	115			
65 PS 170 - 100	100	235	135			
65 PS 170 - 125	125	285	160			

Montaj Örneği  
 Mounting Example



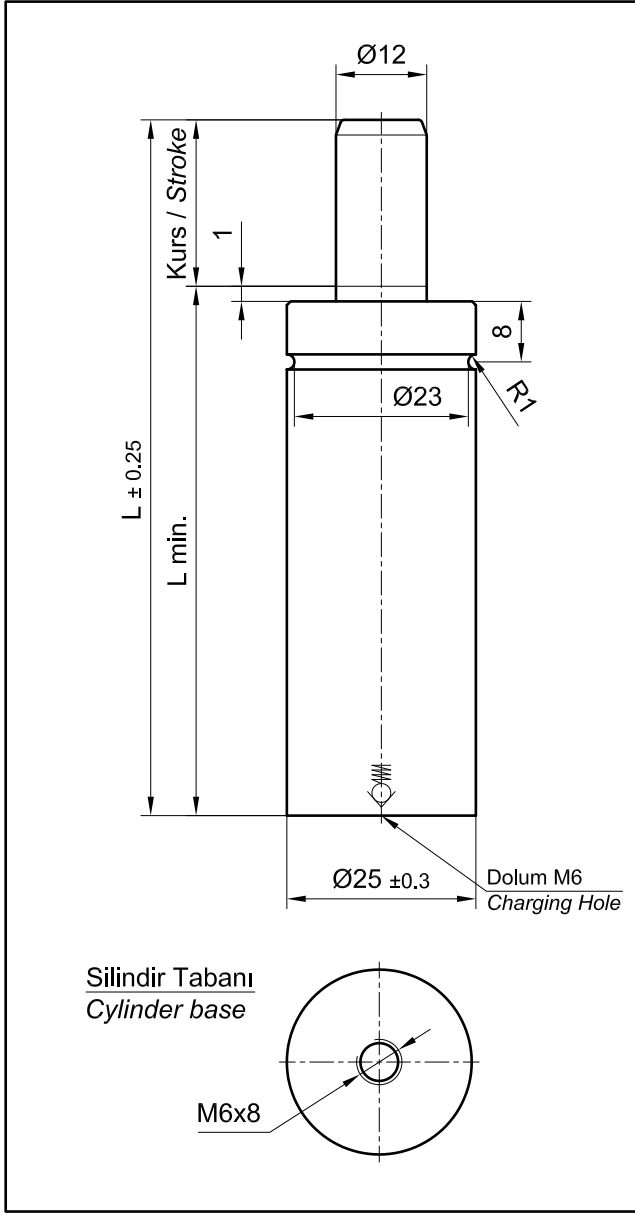
25

205 100 430

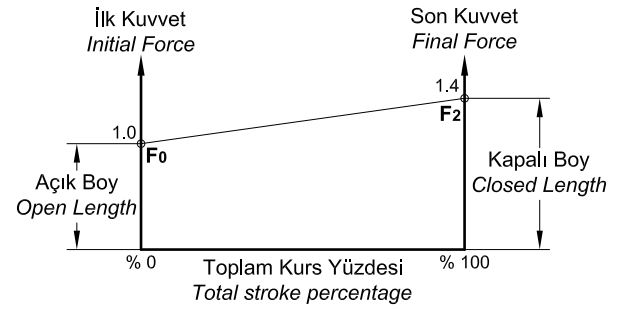


ISO 11901-2 T1PE

200 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 180 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 200 - 05**

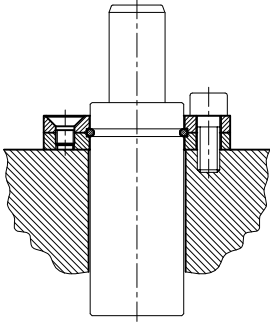
Kurs (mm)  
Stroke

F<sub>0</sub> (daN)

Tip  
Type

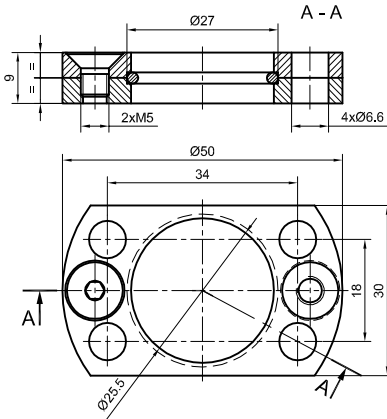
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 200 - 05	5	40	35	180 25	200	280
65 PS 200 - 10	10	50	40			
65 PS 200 - 13	13	56	43			
65 PS 200 - 16	16	62	46			
65 PS 200 - 19	19	68	49			
65 PS 200 - 25	25	80	55			
65 PS 200 - 32	32	94	62			

Montaj Örneği  
 Mounting Example



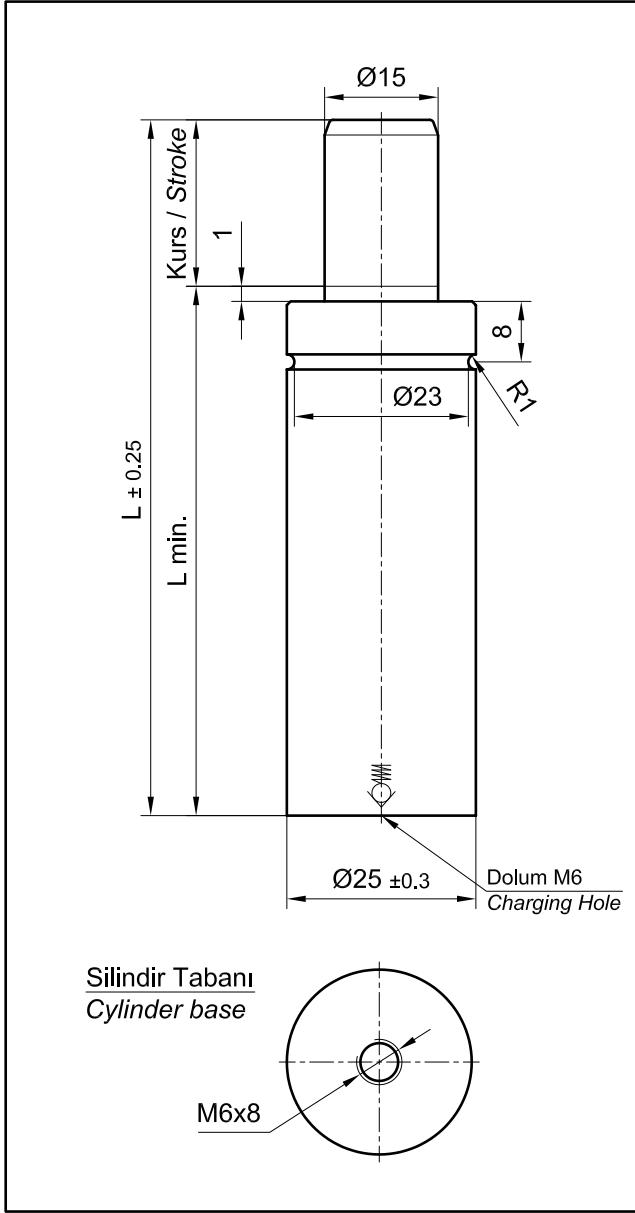
25

205 100 430

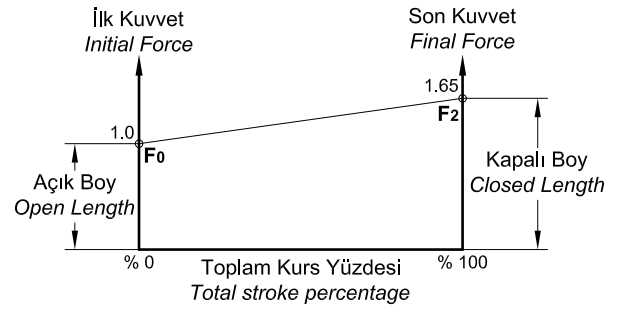


ISO 11901-2 T1PE

320 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 180 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 40 ÷ 100 tur/dak. (20 °C'de) : approx. 40 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

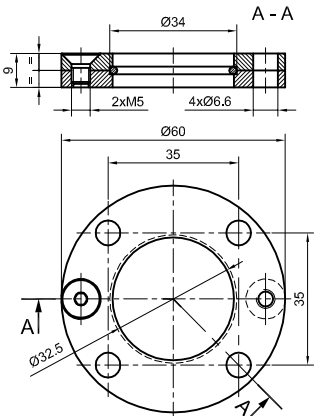
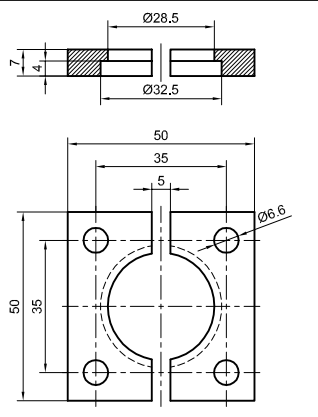
**65 PS 320 - 07**

Kurs (mm)  
Stroke

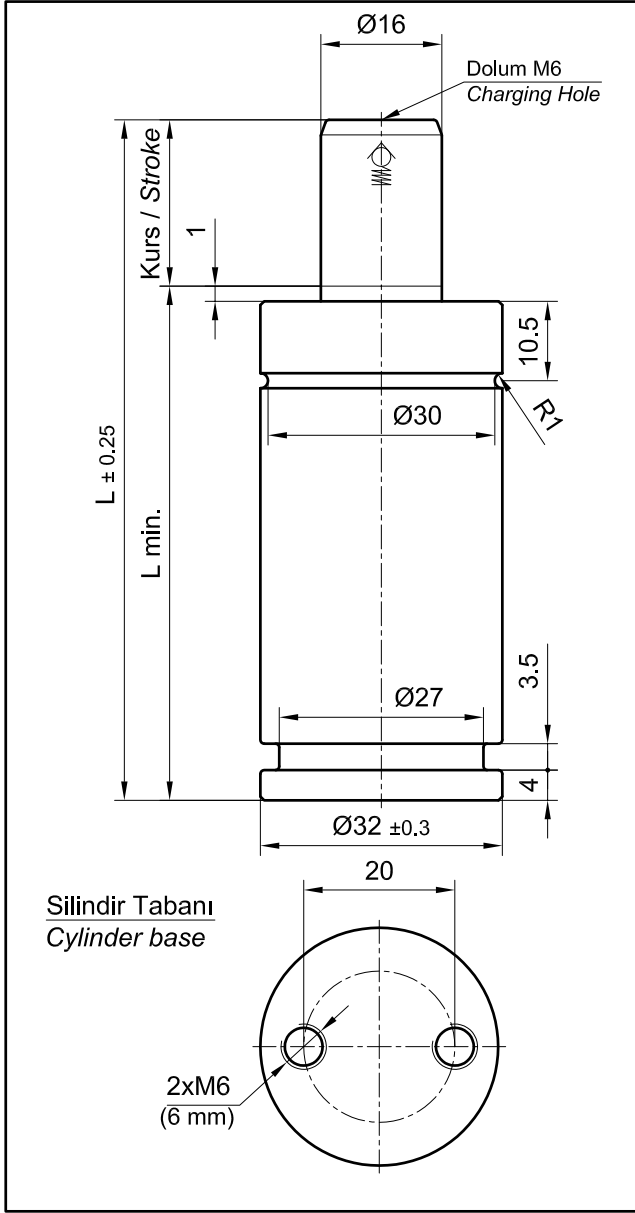
F<sub>0</sub> (daN)

Tip  
Type

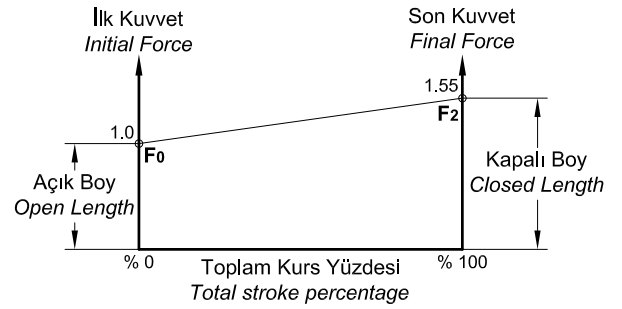
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 320 - 007	7	44	37	180 25	320	520
65 PS 320 - 010	10	50	40			
65 PS 320 - 015	15	60	45			
65 PS 320 - 019	19	68	49			
65 PS 320 - 025	25	80	55			
65 PS 320 - 038	38	106	68			
65 PS 320 - 050	50	130	80			
65 PS 320 - 063	63	156	93			
65 PS 320 - 075	75	185	110			
65 PS 320 - 080	80	195	115			
65 PS 320 - 100	100	235	135			
65 PS 320 - 125	125	285	160			

<p>32 205 100 510</p>  <p>ISO 11901-2 TİP C</p>		
<p>32 205 100 210</p>  <p>ISO 11901-2 TİP B</p>		

350 daN



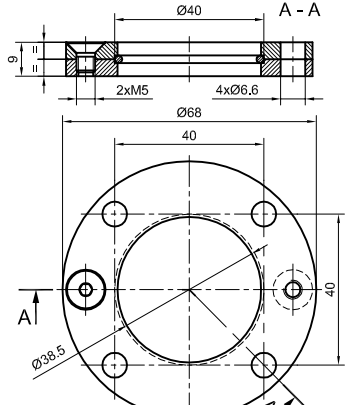
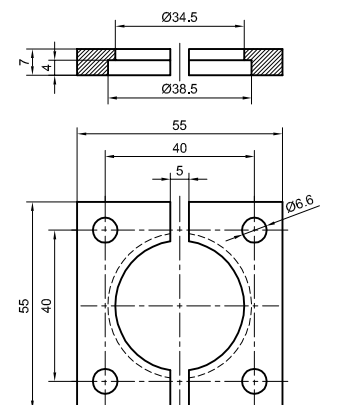
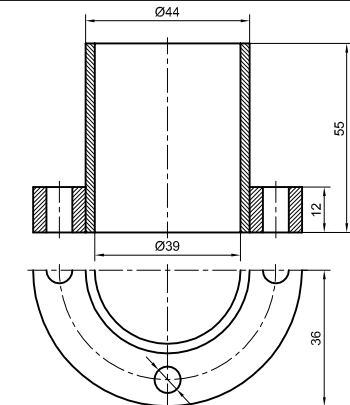
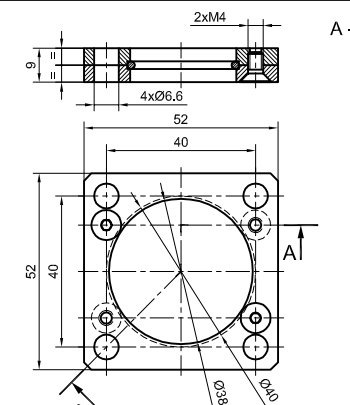
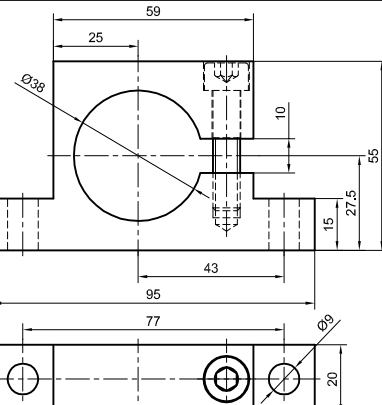
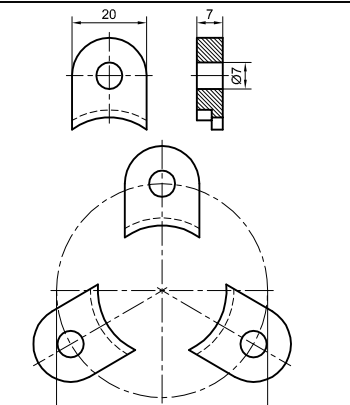
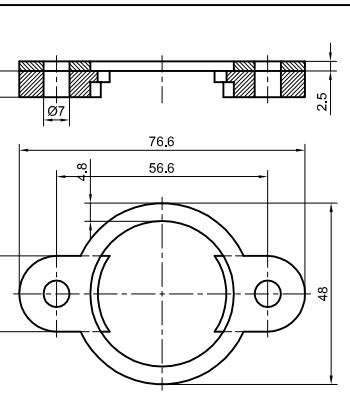
Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 180 bar
Max. filling pressure	
Min. dolum basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 20÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 20 to 100 (at 20 °C)



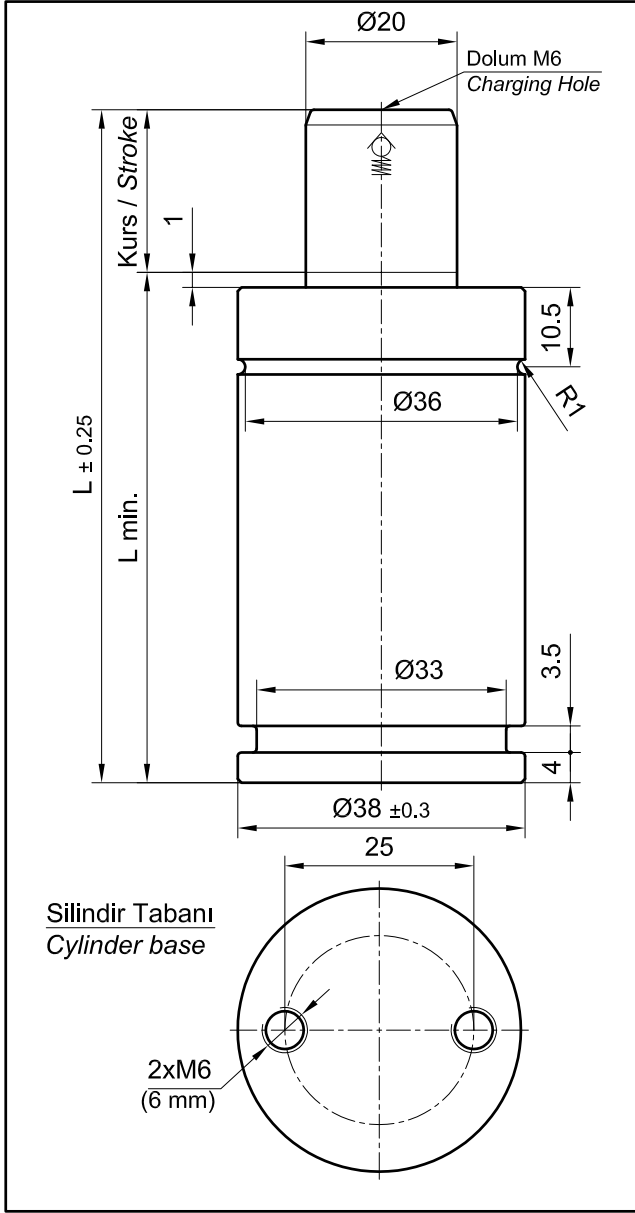
**SIPARIŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 PS 350 - 005**

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

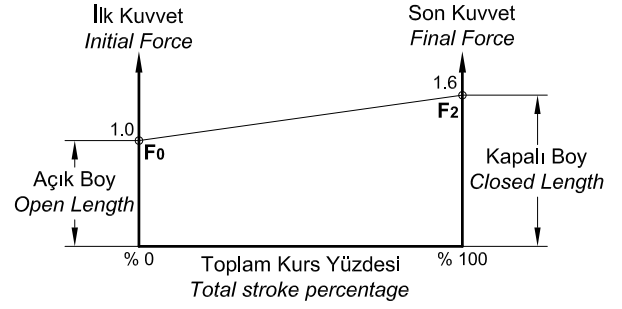
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 350 - 005	5	40	35	180 25	350	540
65 PS 350 - 010	10	50	40			
65 PS 350 - 013	13	56	43			
65 PS 350 - 016	16	62	46			
65 PS 350 - 019	19	68	49			
65 PS 350 - 025	25	80	55			
65 PS 350 - 032	32	94	62			
65 PS 350 - 038	38	106	68			
65 PS 350 - 050	50	130	80			
65 PS 350 - 063	63	156	93			
65 PS 350 - 075	75	180	105			
65 PS 350 - 080	80	190	110			
65 PS 350 - 100	100	230	130			
65 PS 350 - 125	125	280	155			

<p>38 205 100 519</p>  <p>ISO 11901-2 TİP C</p>	<p>38 205 100 220</p>  <p>ISO 11901-2 TİP B</p>	
<p>38 205 101 280</p>  <p>ISO 11901-2 TİP C2</p>	<p>38 205 100 610</p>  <p>ISO 11901-2 TİP C2</p>	<p>38 205 100 820</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>38 205 101 510</p>  <p>ISO 11901-2 TİP C2</p>		
<p>38 205 101 511</p>  <p>ISO 11901-2 TİP C2</p>		

500 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 20÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 20 to 100 (at 20 °C)

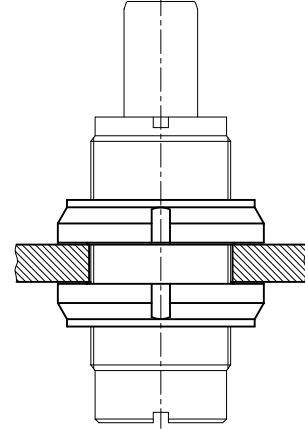
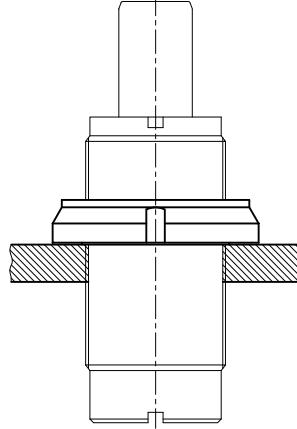
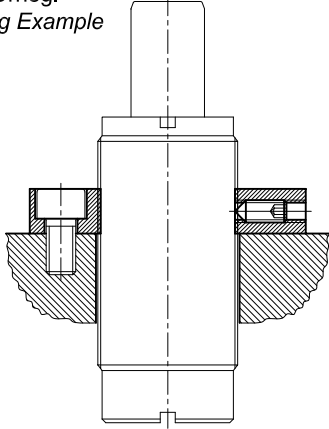


**SIPARIŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 PS 500 - 005**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

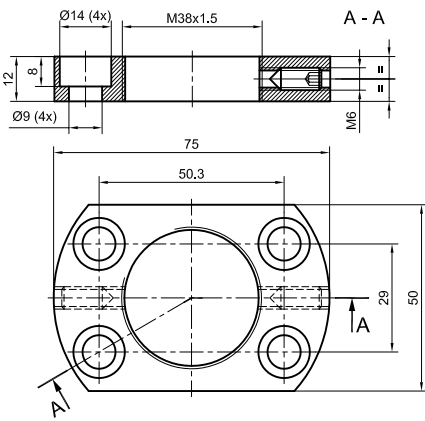
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 500 - 005	5	40	35	150 25	500	800
65 PS 500 - 010	10	50	40			
65 PS 500 - 013	13	56	43			
65 PS 500 - 016	16	62	46			
65 PS 500 - 019	19	68	49			
65 PS 500 - 025	25	80	55			
65 PS 500 - 032	32	94	62			
65 PS 500 - 038	38	106	68			
65 PS 500 - 050	50	130	80			
65 PS 500 - 063	63	156	93			
65 PS 500 - 075	75	180	105			
65 PS 500 - 080	80	190	110			
65 PS 500 - 100	100	230	130			
65 PS 500 - 125	125	280	155			

Montaj Örneği  
 Mounting Example



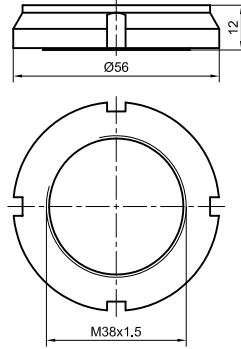
38

205 100 710

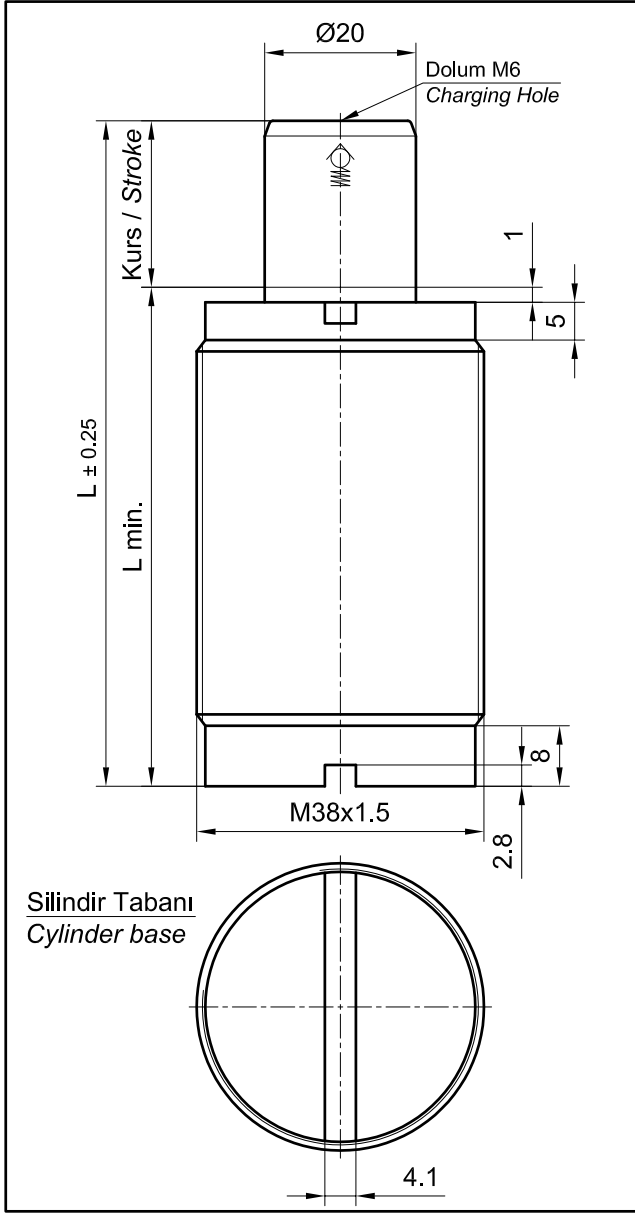


38

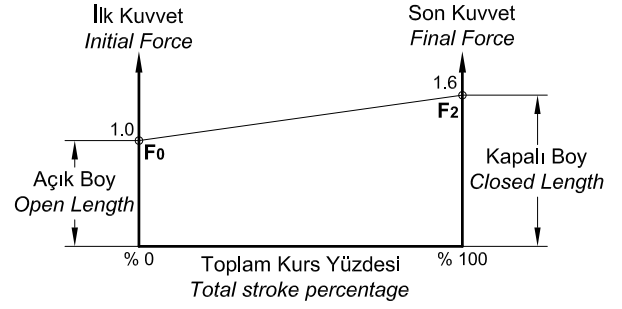
220 820 015



500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SIPARIŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

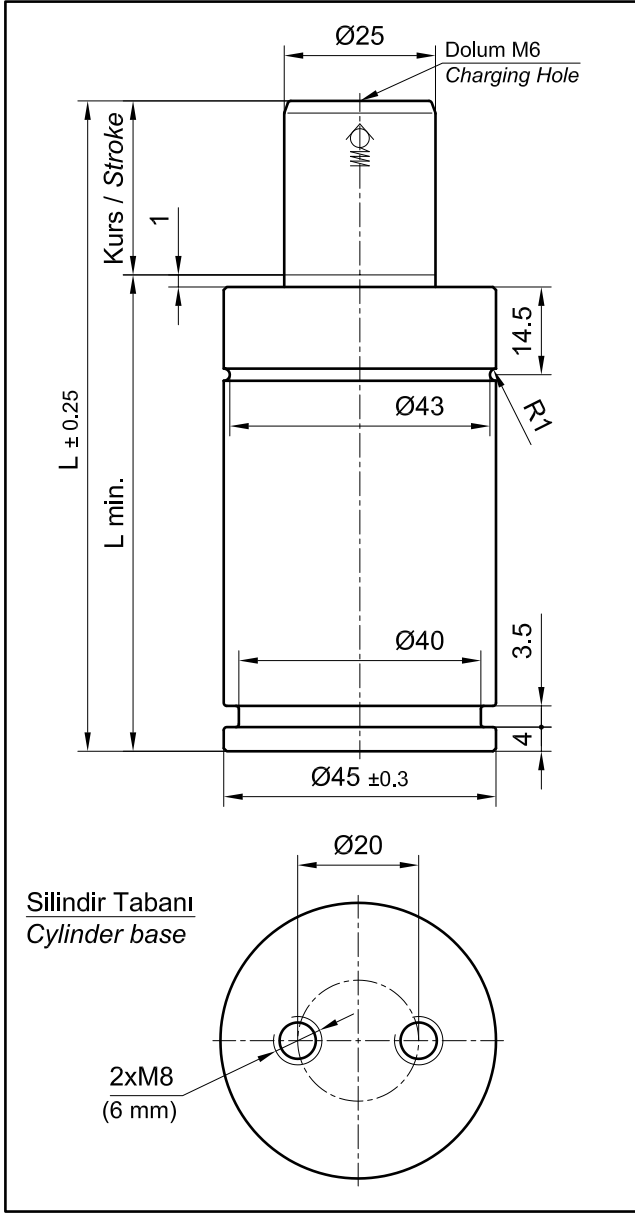
**65 PSM 500 - 005**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

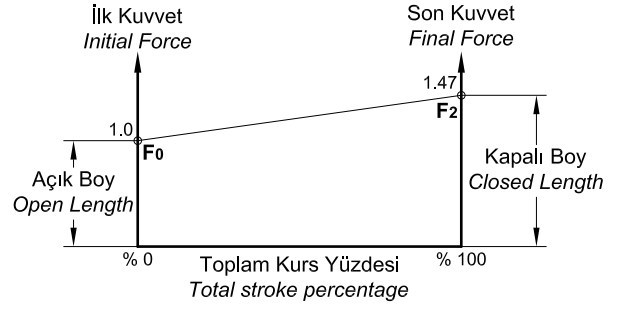
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PSM 500 - 005	5	40	35	150 25	500	800
65 PSM 500 - 010	10	50	40			
65 PSM 500 - 013	13	56	43			
65 PSM 500 - 016	16	62	46			
65 PSM 500 - 019	19	68	49			
65 PSM 500 - 025	25	80	55			
65 PSM 500 - 032	32	94	62			
65 PSM 500 - 038	38	106	68			
65 PSM 500 - 050	50	130	80			
65 PSM 500 - 063	63	156	93			
65 PSM 500 - 075	75	180	105			
65 PSM 500 - 080	80	190	110			
65 PSM 500 - 100	100	230	130			
65 PSM 500 - 125	125	280	155			

<p>45 205 100 528</p> <p>A - A</p> <p>ISO 11901-2 TİP C</p>	<p>45 205 100 230</p> <p>ISO 11901-2 TİP B</p>	<p>45 205 100 231</p> <p>ISO 11901-2 TİP B</p>
<p>45 205 101 300</p> <p>ISO 11901-2 TİP C</p>	<p>45 205 100 620</p> <p>A - A</p> <p>ISO 11901-2 TİP C2</p>	<p>45 205 100 830</p> <p>ISO 11901-2-VDI 3003 TİP D</p>
<p>45 205 101 520</p> <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 010</p> <p>A - A</p> <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 011</p> <p>A - A</p> <p>ISO 11901-2 TİP A1</p>
<p>45 205 101 521</p> <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 012</p> <p>A - A</p> <p>ISO 11901-2 TİP A1</p>	<p>45 205 100 013</p> <p>ISO 11901-2 TİP B</p>

750 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



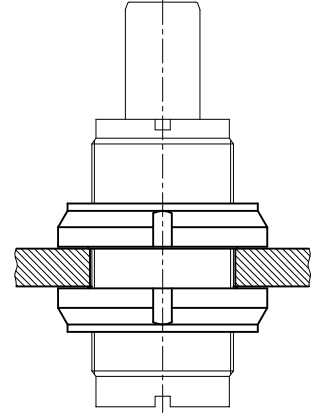
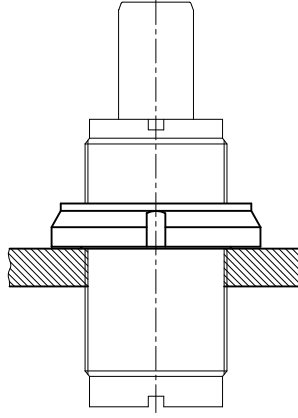
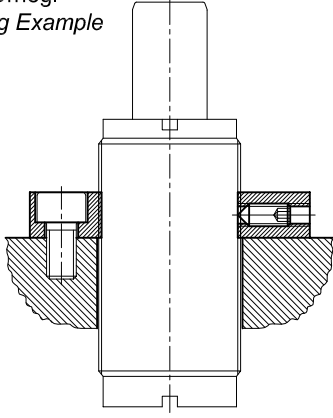
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 750 - 010**

— Kurs (mm)  
Stroke  
— F0 (daN)  
— Tip  
Type

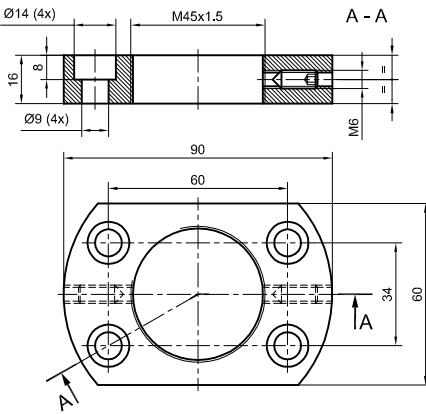
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 PS 750 - 010	10	52	42	150 25	750	1100
65 PS 750 - 013	13	58	45			
65 PS 750 - 016	16	64	48			
65 PS 750 - 019	19	70	51			
65 PS 750 - 025	25	82	57			
65 PS 750 - 032	32	96	64			
65 PS 750 - 038	38	108	70			
65 PS 750 - 050	50	132	82			
65 PS 750 - 063	63	158	95			
65 PS 750 - 075	75	182	107			
65 PS 750 - 080	80	192	112			
65 PS 750 - 100	100	232	132			
65 PS 750 - 125	125	282	157			

Montaj Örneği  
 Mounting Example



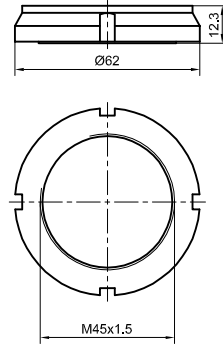
45

205 100 720

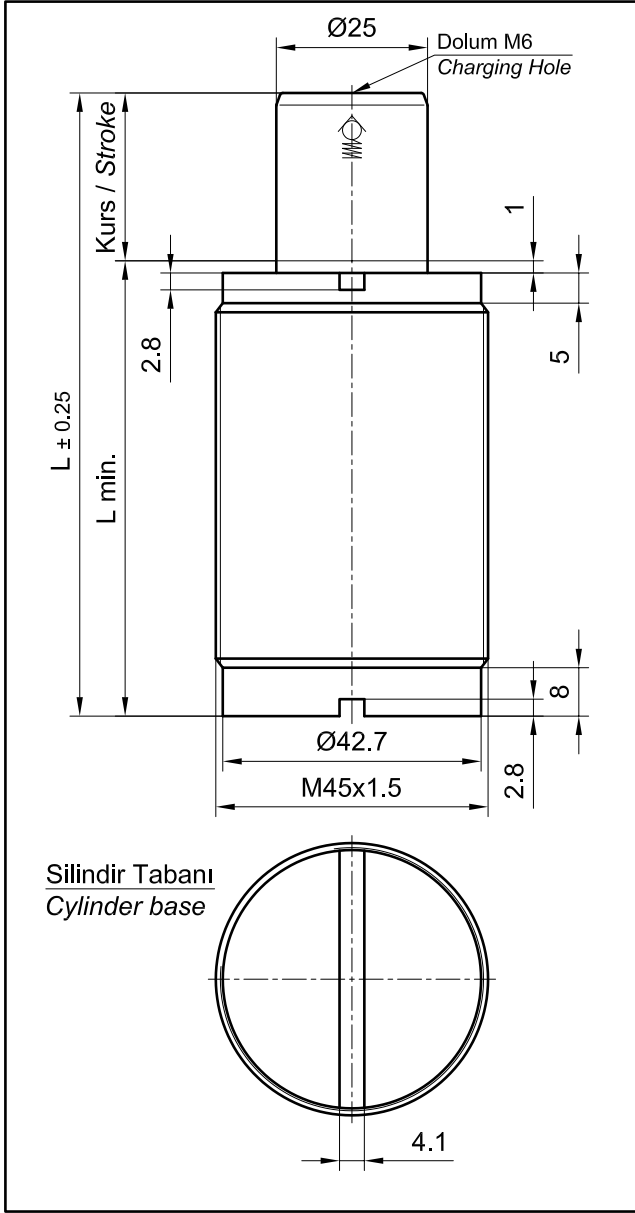


45

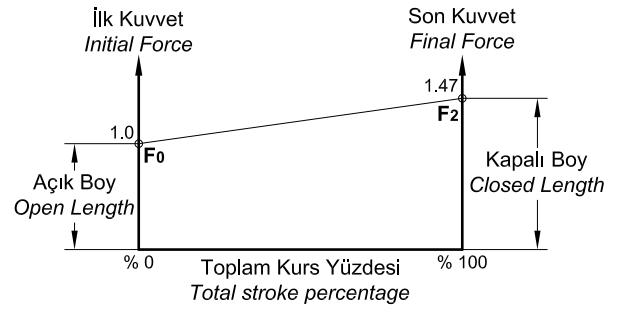
220 820 020



750 daN



Dolum gazı Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

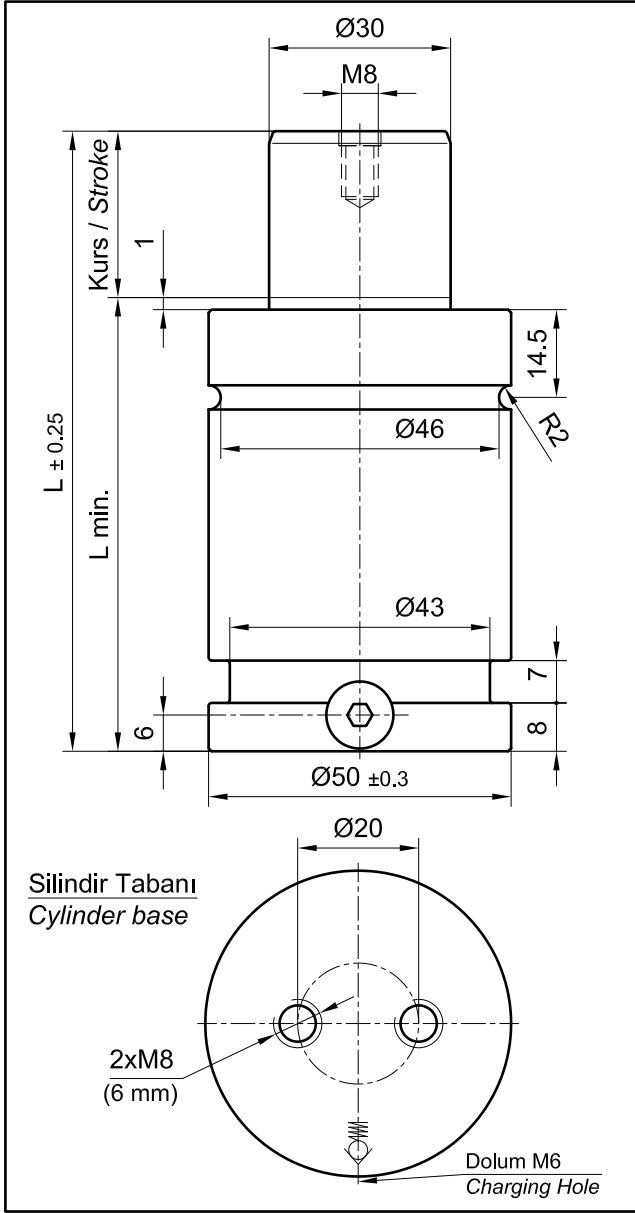
**65 PSM 750 - 010**

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

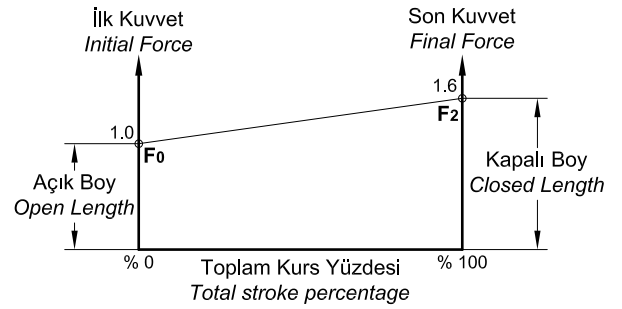
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PSM 750 - 010	10	52	42	150 25	750	1100
65 PSM 750 - 013	13	58	45			
65 PSM 750 - 016	16	64	48			
65 PSM 750 - 019	19	70	51			
65 PSM 750 - 025	25	82	57			
65 PSM 750 - 032	32	96	64			
65 PSM 750 - 038	38	108	70			
65 PSM 750 - 050	50	132	82			
65 PSM 750 - 063	63	158	95			
65 PSM 750 - 075	75	182	107			
65 PSM 750 - 080	80	192	112			
65 PSM 750 - 100	100	232	132			
65 PSM 750 - 125	125	282	157			

<p>50 205 100 240</p> <p>ISO 11901-2 TİP B</p>	<p>50 205 100 241</p> <p>ISO 11901-2 TİP B</p>	<p>50 205 101 320</p> <p>ISO 11901-2 TİP C2</p>	<p>50 205 100 630</p> <p>ISO 11901-2 TİP C2</p>
<p>50 205 100 537</p> <p>ISO 11901-2 TİP C</p>	<p>50 205 100 840</p> <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>50 205 101 530</p> <p>ISO 11901-2 TİP C</p>	
<p>50 205 101 531</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 100 020</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 100 021</p> <p>ISO 11901-2 TİP A1</p>	
<p>50 205 100 022</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 100 930</p> <p>ISO 11901-2 TİP A1</p>	<p>50 205 101 030</p> <p>ISO 11901-2 TİP A1</p>	

1000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 1000 - 010**

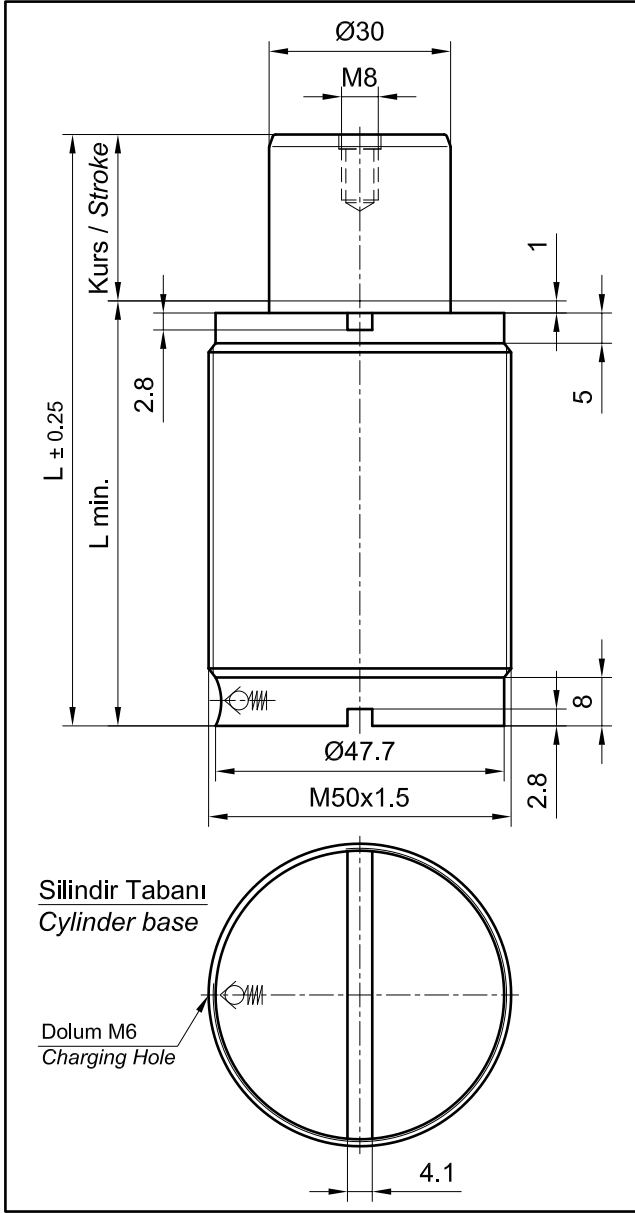
Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 1000 - 010	10	58	48	150 25	1000	1600
65 PS 1000 - 013	13	64	51			
65 PS 1000 - 016	16	70	54			
65 PS 1000 - 019	19	76	57			
65 PS 1000 - 025	25	88	63			
65 PS 1000 - 032	32	102	70			
65 PS 1000 - 038	38	114	76			
65 PS 1000 - 050	50	138	88			
65 PS 1000 - 063	63	164	101			
65 PS 1000 - 075	75	188	113			
65 PS 1000 - 080	80	198	118			
65 PS 1000 - 100	100	238	138			
65 PS 1000 - 125	125	288	163			

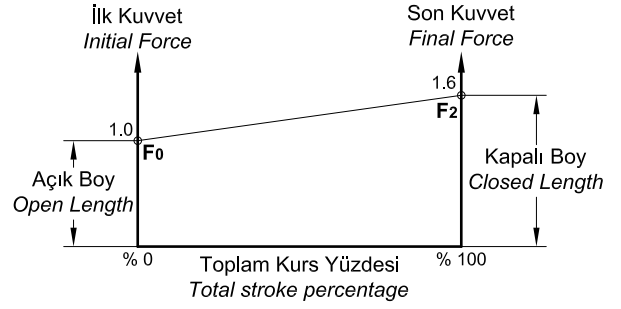




1000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

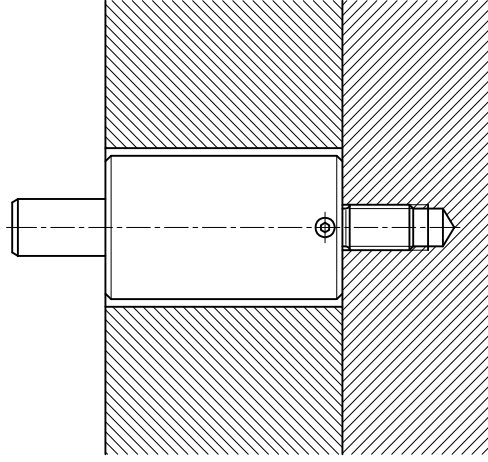
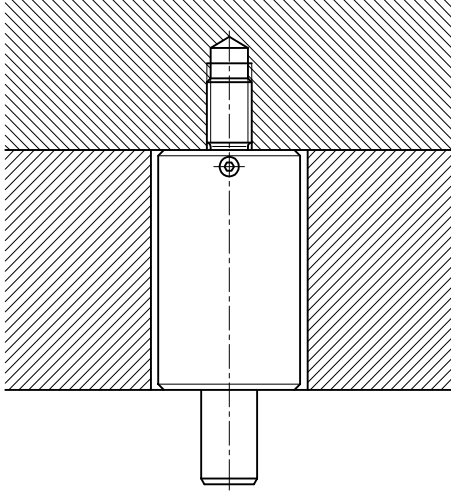
**65 PSM 1000 - 010**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PSM 1000 - 010	10	58	48	150 25	1000	1600
65 PSM 1000 - 013	13	64	51			
65 PSM 1000 - 016	16	70	54			
65 PSM 1000 - 019	19	76	57			
65 PSM 1000 - 025	25	88	63			
65 PSM 1000 - 032	32	102	70			
65 PSM 1000 - 038	38	114	76			
65 PSM 1000 - 050	50	138	88			
65 PSM 1000 - 063	63	164	101			
65 PSM 1000 - 075	75	188	113			
65 PSM 1000 - 080	80	198	118			
65 PSM 1000 - 100	100	238	138			
65 PSM 1000 - 125	125	288	163			

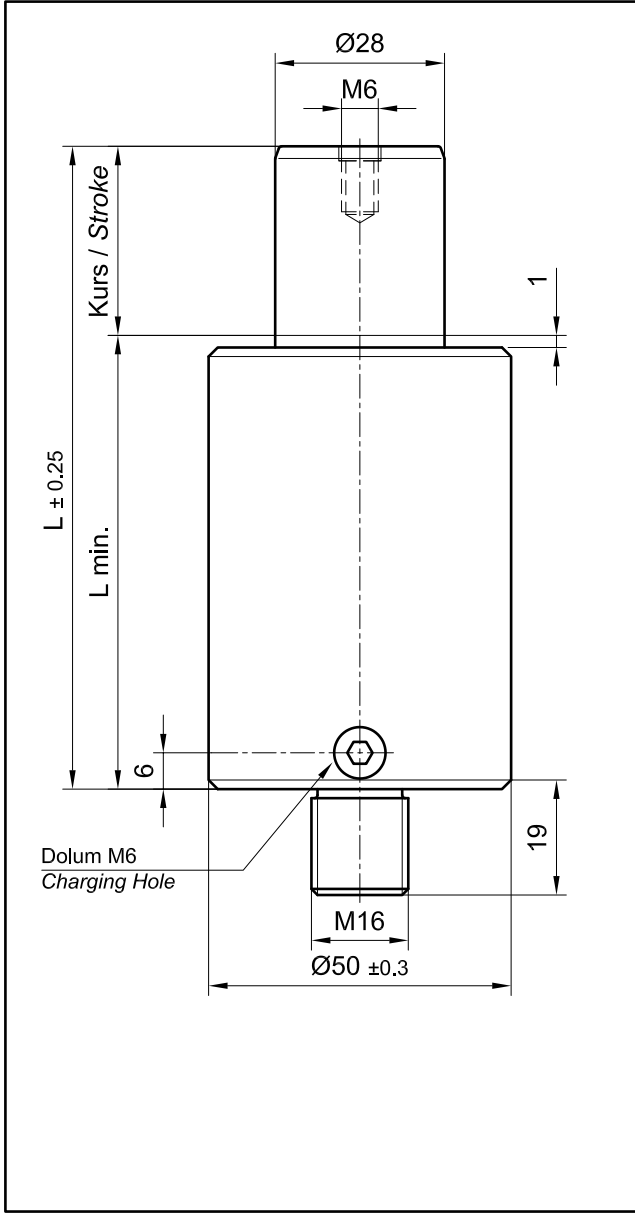


Montaj Örneği  
*Mounting Example*

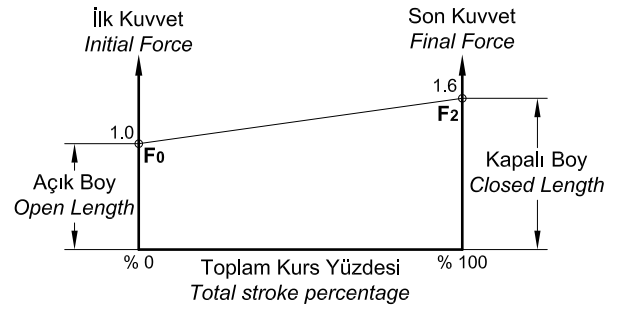




1000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)

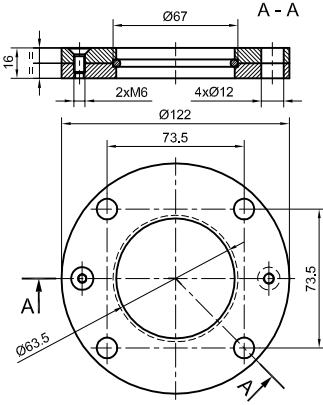
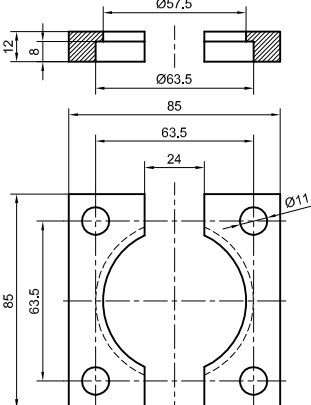
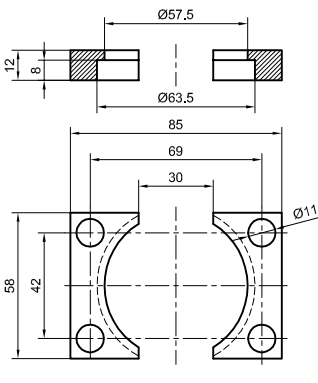
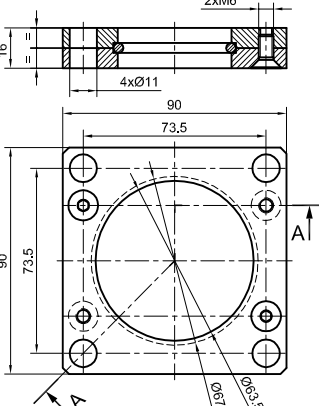
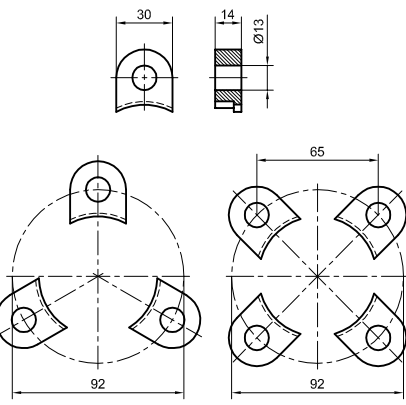
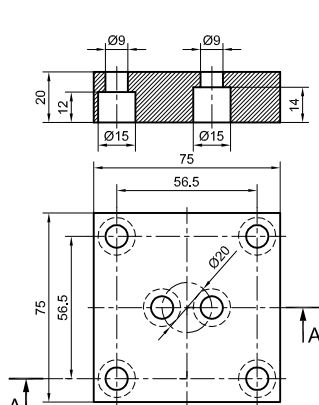
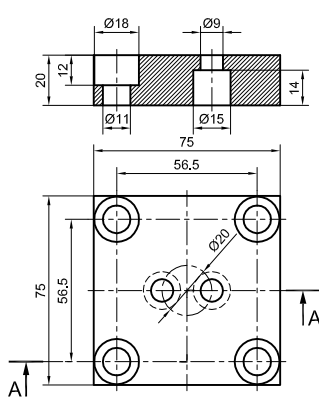


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

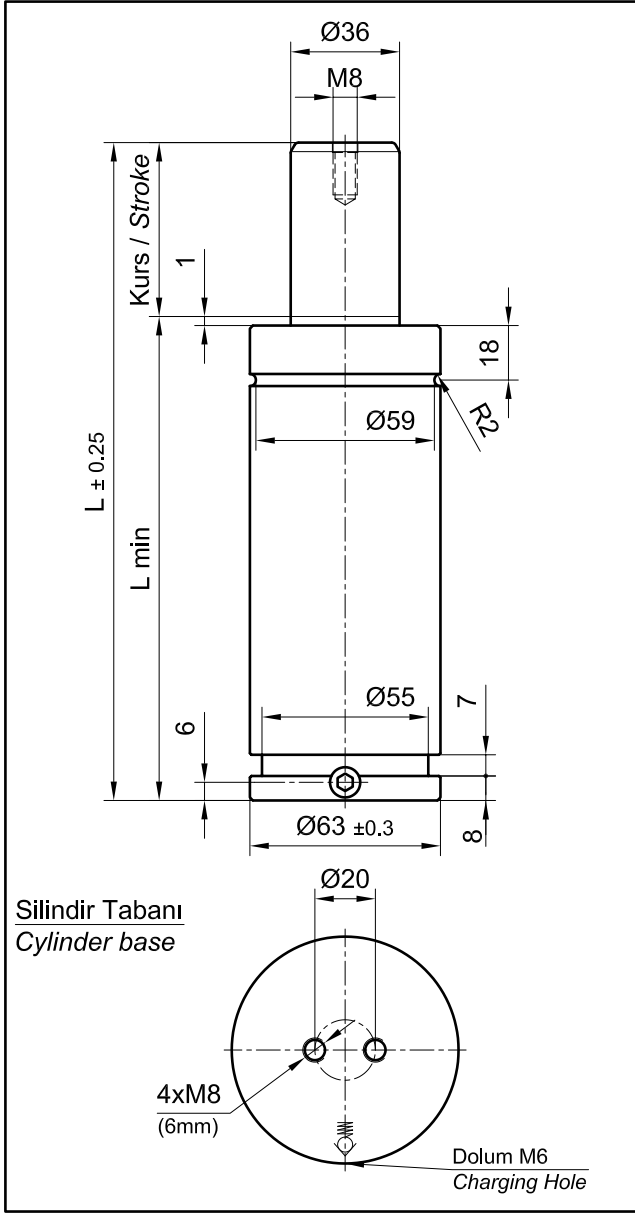
**65 PSE 1000 - 010**

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

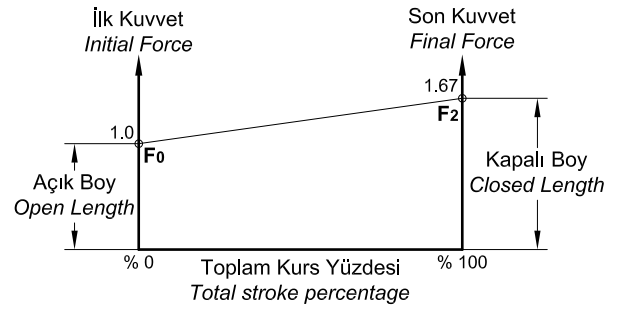
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PSE 1000 - 010	10	58	48	150 25	1000	1600
65 PSE 1000 - 013	13	64	51			
65 PSE 1000 - 016	16	70	54			
65 PSE 1000 - 019	19	76	57			
65 PSE 1000 - 025	25	88	63			
65 PSE 1000 - 032	32	102	70			
65 PSE 1000 - 038	38	114	76			
65 PSE 1000 - 050	50	138	88			
65 PSE 1000 - 063	63	164	101			
65 PSE 1000 - 075	75	188	113			
65 PSE 1000 - 080	80	198	118			
65 PSE 1000 - 100	100	238	138			
65 PSE 1000 - 125	125	288	163			

<p>63 205 100 546</p> 	<p>63 205 100 250</p> 	<p>63 205 100 251</p> 
	<p>63 205 100 640</p> 	
<p>63 205 101 540</p> 	<p>63 205 100 030</p>  <p>ISO 11901-2 T1PA1</p>	
	<p>63 205 100 031</p> 	

1500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 50 ÷ 100 tur/dak. (20 °C'de) : approx. 50 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 1500 - 010**

Kurs (mm)  
Stroke

F<sub>0</sub> (daN)

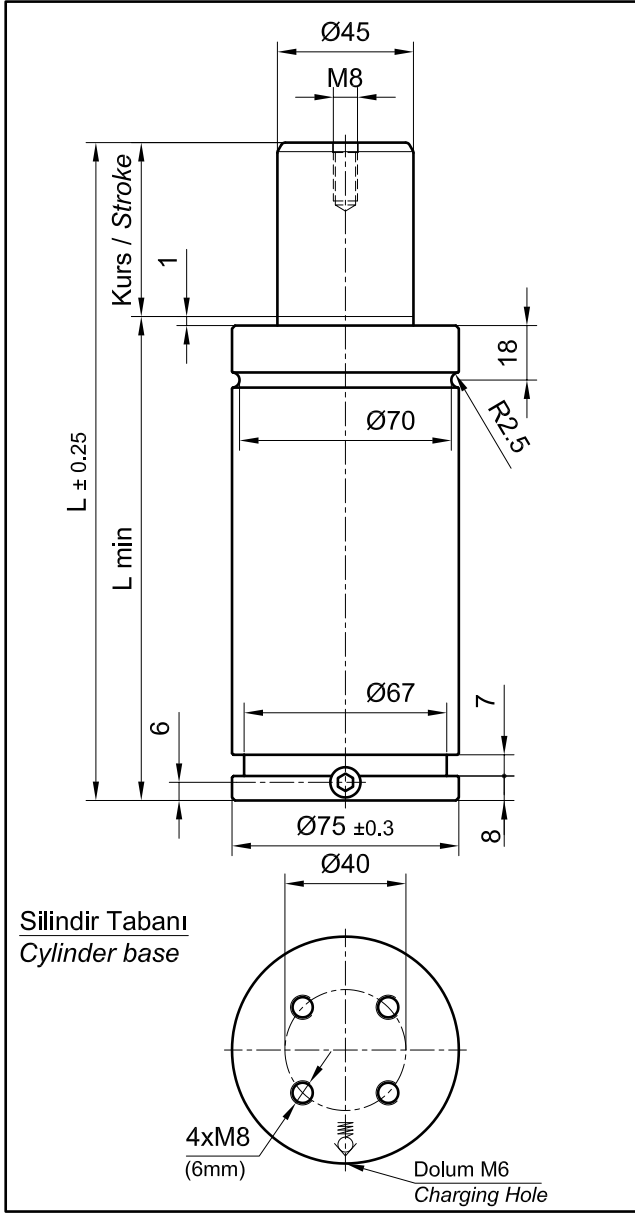
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 1500 - 010	10	64	54	150 25	1500	2500
65 PS 1500 - 013	13	70	57			
65 PS 1500 - 016	16	76	60			
65 PS 1500 - 019	19	82	63			
65 PS 1500 - 025	25	94	69			
65 PS 1500 - 032	32	108	76			
65 PS 1500 - 038	38	120	82			
65 PS 1500 - 050	50	144	94			
65 PS 1500 - 063	63	170	107			
65 PS 1500 - 075	75	194	119			
65 PS 1500 - 080	80	204	124			
65 PS 1500 - 100	100	244	144			
65 PS 1500 - 125	125	294	169			

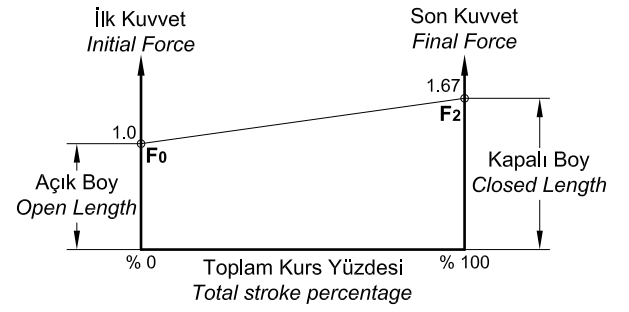


<p>75 205 100 260</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 100 261</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 101 360</p> <p>ISO 11901-2 TİP C2</p>	<p>75 205 100 650</p> <p>ISO 11901-2 TİP C2</p>
<p>75 205 100 555</p> <p>ISO 11901-2 TİP C</p>	<p>75 205 100 860</p> <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>75 205 101 550</p> <p>ISO 11901-2 TİP C2</p>	
<p>75 205 101 551</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 040</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 042</p> <p>ISO 11901-2 TİP A2</p>	
<p>75 205 100 041</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 950</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 101 050</p> <p>ISO 11901-2 TİP A2</p>	

2400 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 2400 - 010**

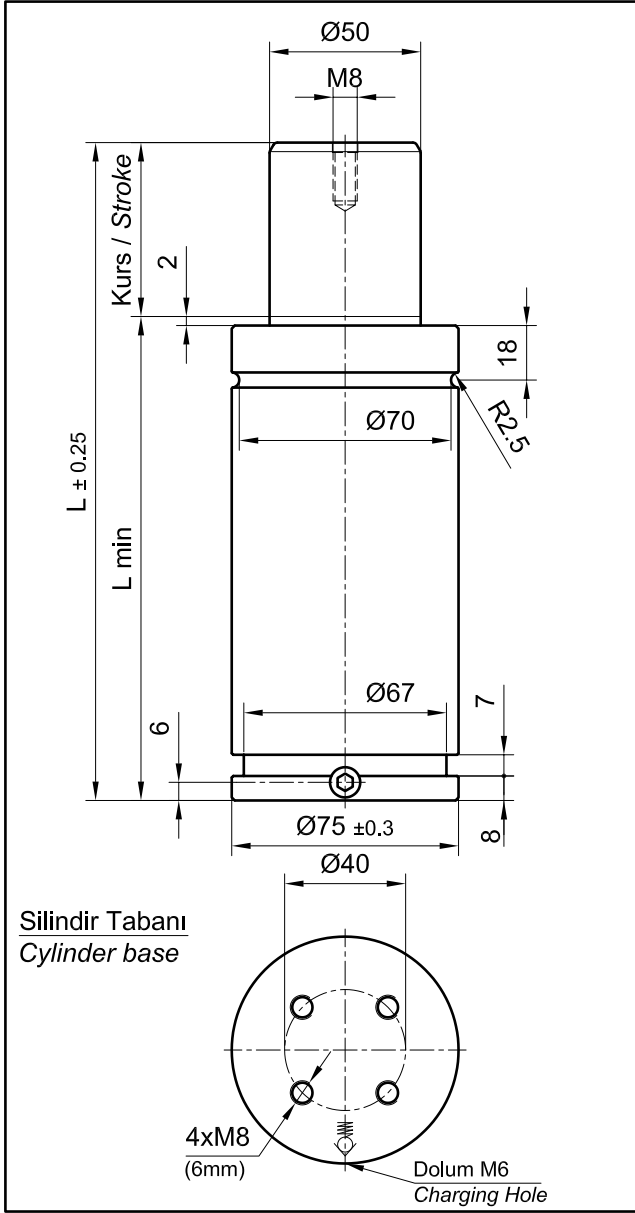
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 2400 - 010	10	65	55	150 25	2400	4000
65 PS 2400 - 013	13	71	58			
65 PS 2400 - 016	16	77	61			
65 PS 2400 - 019	19	83	64			
65 PS 2400 - 025	25	95	70			
65 PS 2400 - 032	32	109	77			
65 PS 2400 - 038	38	121	83			
65 PS 2400 - 050	50	145	95			
65 PS 2400 - 063	63	171	108			
65 PS 2400 - 075	75	195	120			
65 PS 2400 - 080	80	205	125			
65 PS 2400 - 100	100	245	145			
65 PS 2400 - 125	125	295	170			

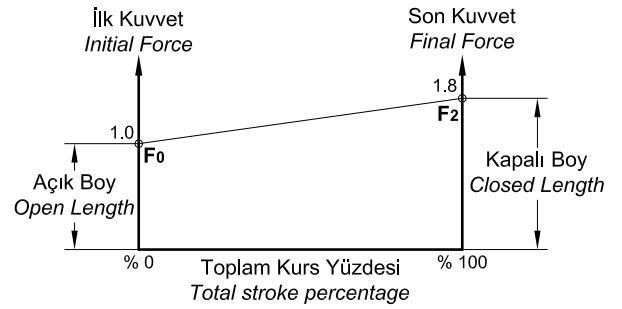


<p>75 205 100 260</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 100 261</p> <p>ISO 11901-2 TİP B</p>	<p>75 205 101 360</p> <p>ISO 11901-2 TİP C</p>	<p>75 205 100 650</p> <p>ISO 11901-2 TİP C2</p>
<p>75 205 100 555</p> <p>ISO 11901-2 TİP C</p>	<p>75 205 100 860</p> <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>75 205 101 550</p> <p>ISO 11901-2 TİP C</p>	
<p>75 205 101 551</p> <p>ISO 11901-2 TİP A</p>	<p>75 205 100 040</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 042</p> <p>ISO 11901-2 TİP A2</p>	
<p>75 205 100 041</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 100 950</p> <p>ISO 11901-2 TİP A2</p>	<p>75 205 101 050</p> <p>ISO 11901-2 TİP A2</p>	

3000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



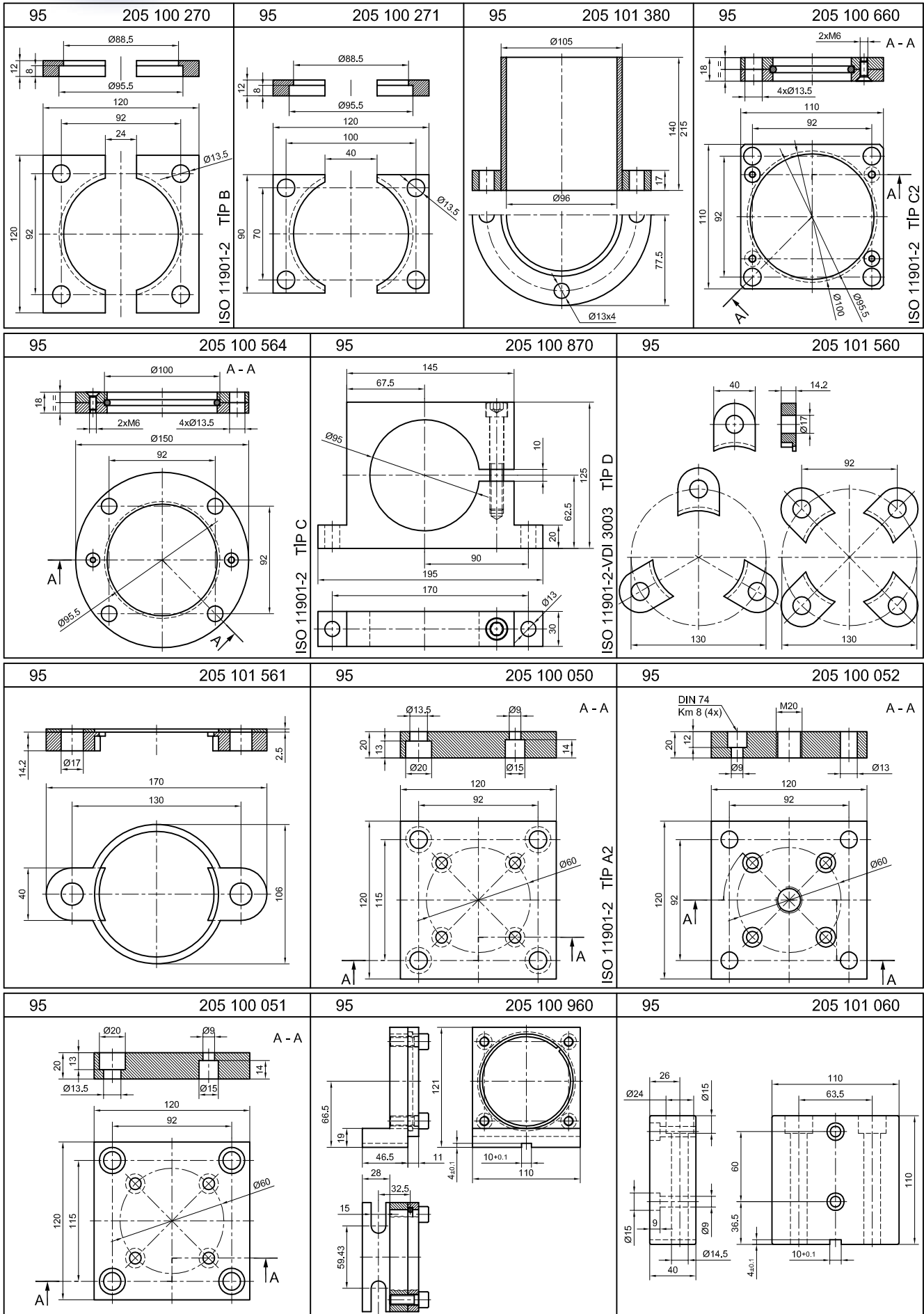
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 3000 - 012**

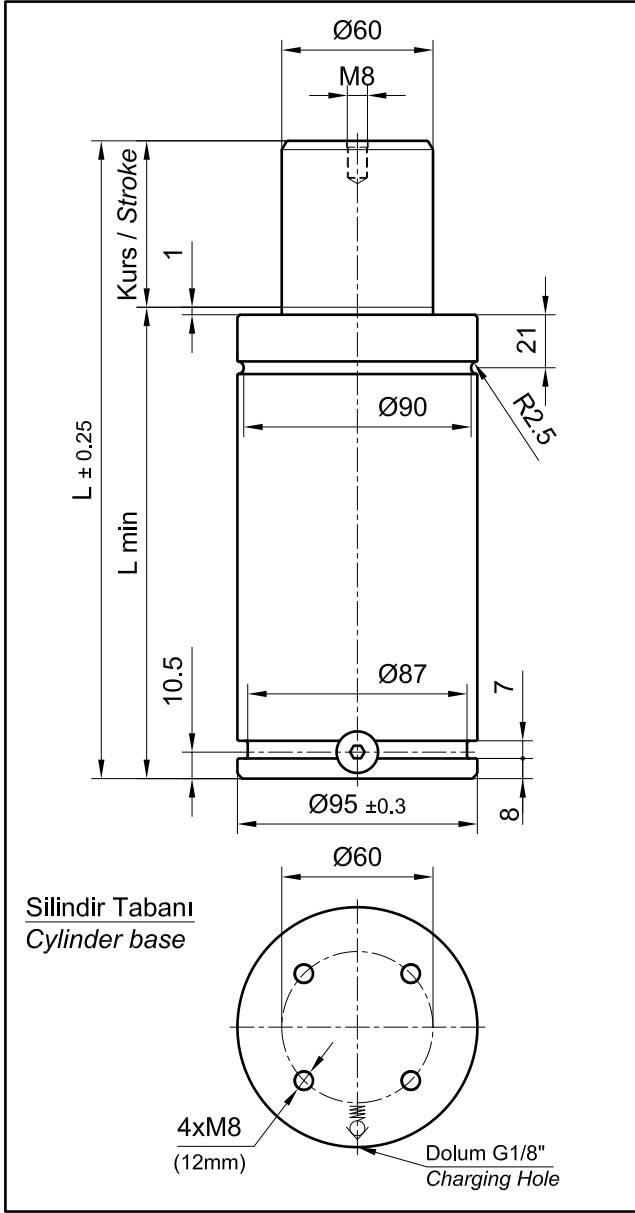
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 3000 - 012	12	78	64	150 25	3000	5400
65 PS 3000 - 019	19	92	71			
65 PS 3000 - 025	25	104	77			
65 PS 3000 - 038	38	130	90			
65 PS 3000 - 050	50	154	102			
65 PS 3000 - 063	63	180	115			
65 PS 3000 - 080	80	214	132			
65 PS 3000 - 100	100	254	152			
65 PS 3000 - 125	125	304	177			
65 PS 3000 - 160	160	374	212			
65 PS 3000 - 200	200	454	252			

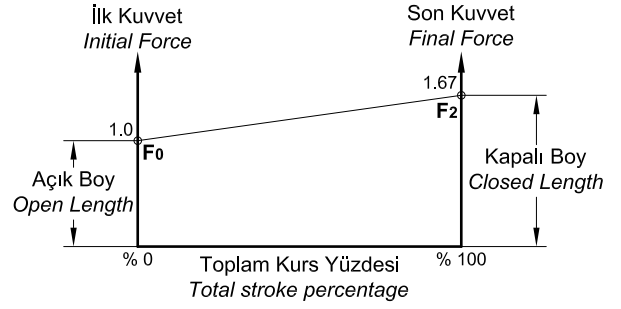




4200 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20 ÷ 100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 4200 - 016**

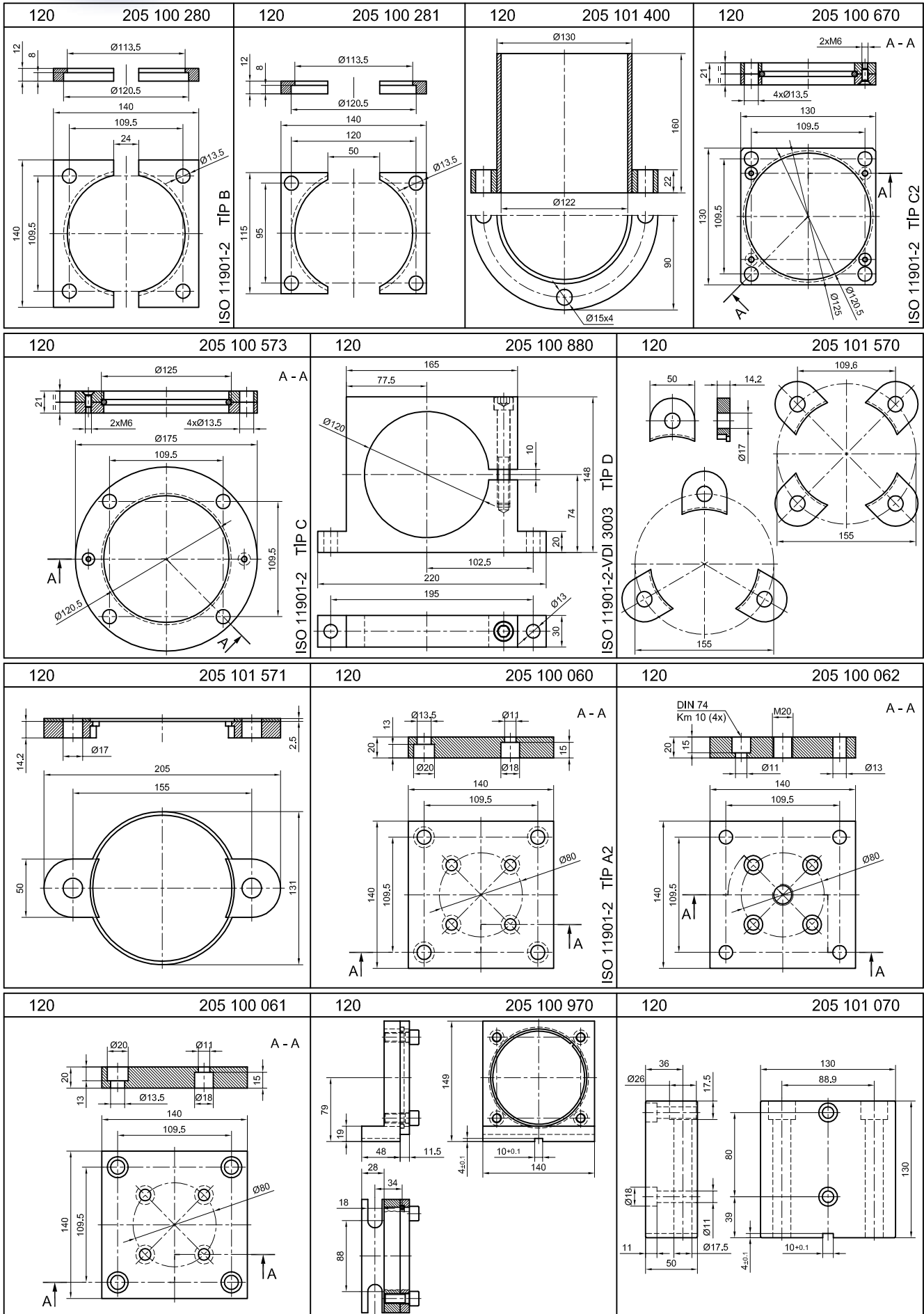
— Kurs (mm)  
Stroke

— F<sub>0</sub> (daN)

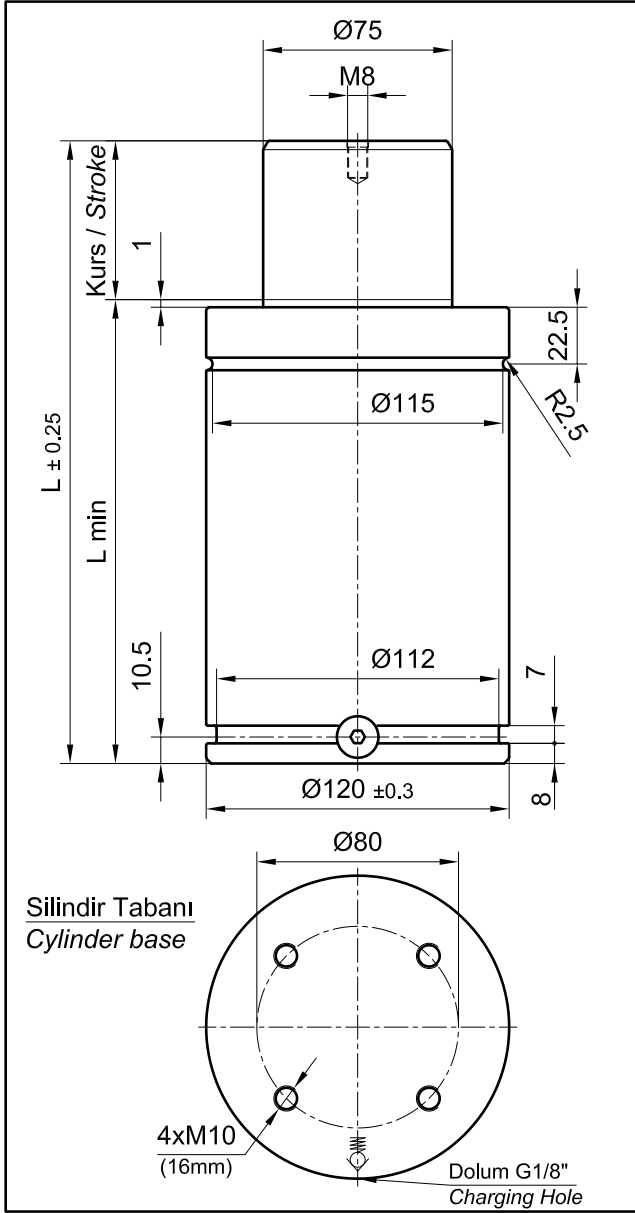
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 4200 - 016	16	90	74	150 25	4200	7000
65 PS 4200 - 019	19	96	77			
65 PS 4200 - 025	25	108	83			
65 PS 4200 - 032	32	122	90			
65 PS 4200 - 038	38	134	96			
65 PS 4200 - 050	50	158	108			
65 PS 4200 - 063	63	184	121			
65 PS 4200 - 075	75	208	133			
65 PS 4200 - 080	80	218	138			
65 PS 4200 - 100	100	258	158			
65 PS 4200 - 125	125	308	183			

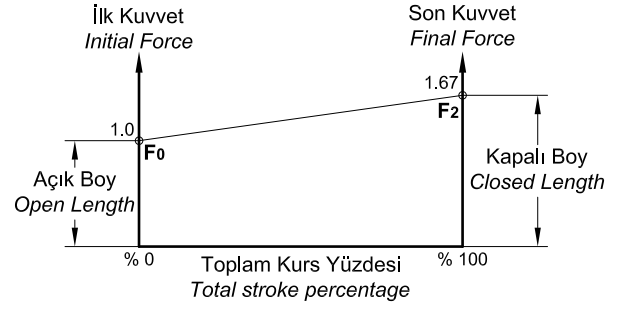




6600 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 PS 6600 - 016**

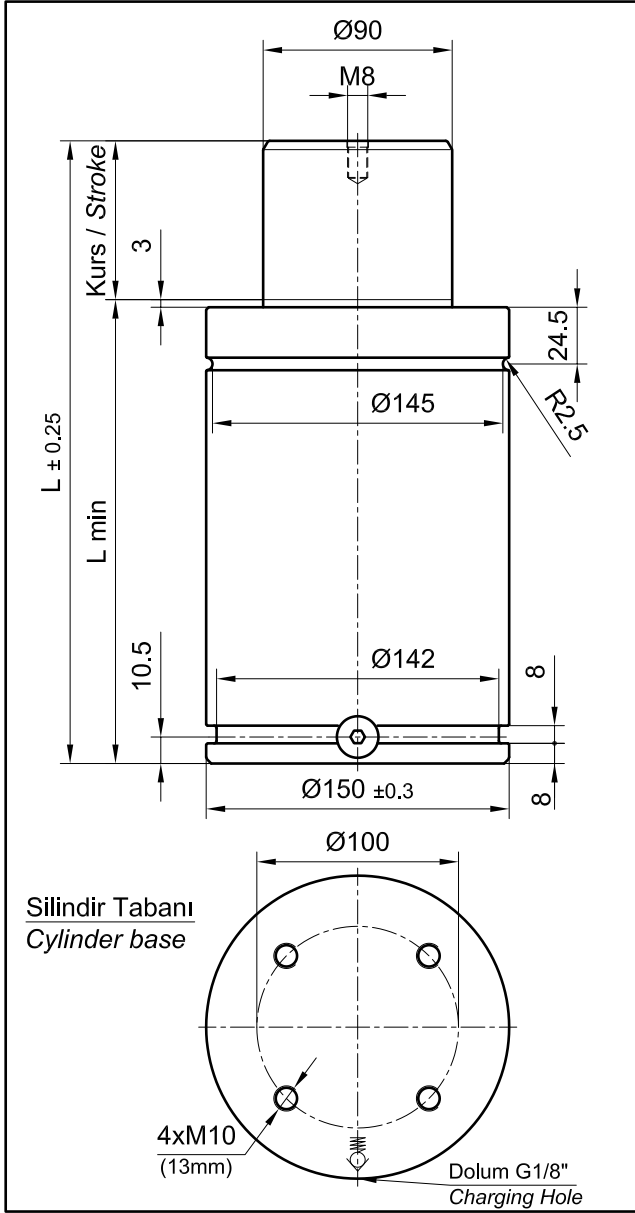
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 6600 - 016	16	100	84	150 25	6600	11000
65 PS 6600 - 019	19	106	87			
65 PS 6600 - 025	25	118	93			
65 PS 6600 - 032	32	132	100			
65 PS 6600 - 038	38	144	106			
65 PS 6600 - 050	50	168	118			
65 PS 6600 - 063	63	194	131			
65 PS 6600 - 075	75	218	143			
65 PS 6600 - 080	80	228	148			
65 PS 6600 - 100	100	268	168			
65 PS 6600 - 125	125	318	193			

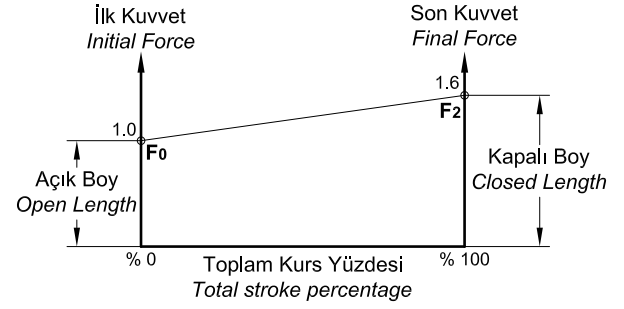


<p>150 205 100 582</p> <p>A - A</p> <p>ISO 11901-2 TİP C</p>	<p>150 205 100 290</p> <p>A - A</p> <p>ISO 11901-2 TİP B</p>	<p>150 205 100 291</p> <p>A - A</p> <p>ISO 11901-2 TİP B</p>
<p>150 205 100 680</p> <p>A - A</p> <p>ISO 11901-2 TİP C2</p>	<p>150 205 100 890</p> <p>A - A</p> <p>ISO 11901-2-VDI 3003 TİP D</p>	<p>150 205 101 580</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>
<p>150 205 100 070</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 100 072</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 101 581</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>
<p>150 205 100 071</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 100 071</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>	<p>150 205 100 071</p> <p>A - A</p> <p>ISO 11901-2 TİP A2</p>

9500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)

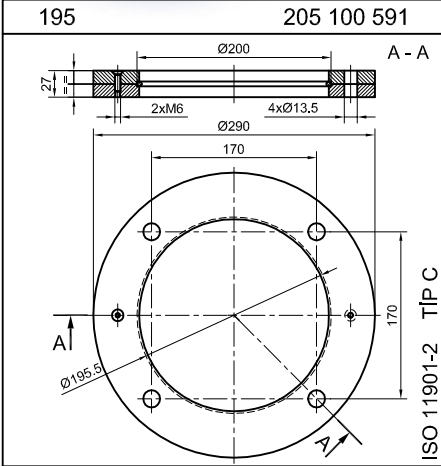
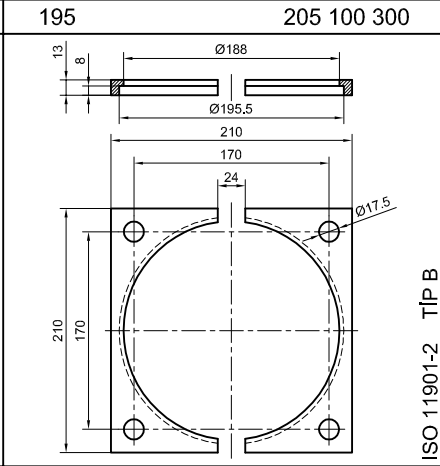
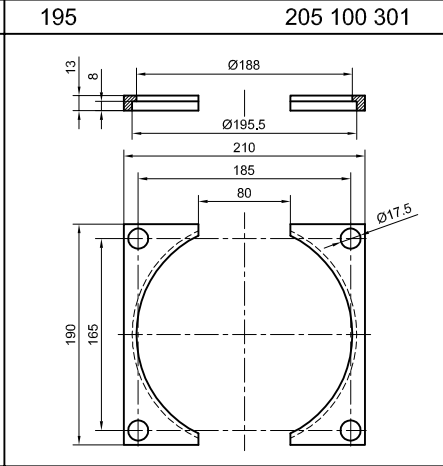
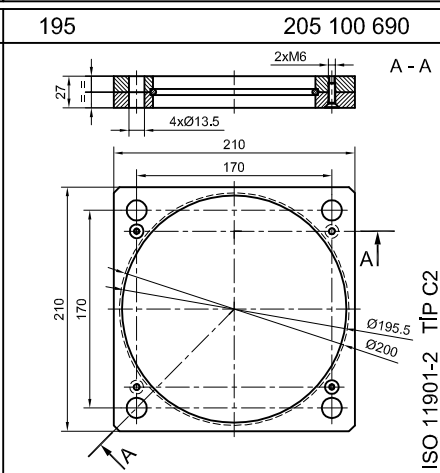
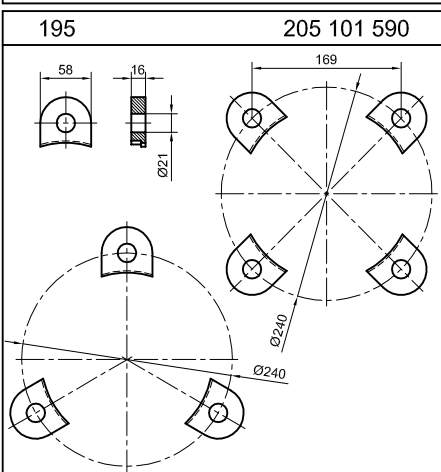
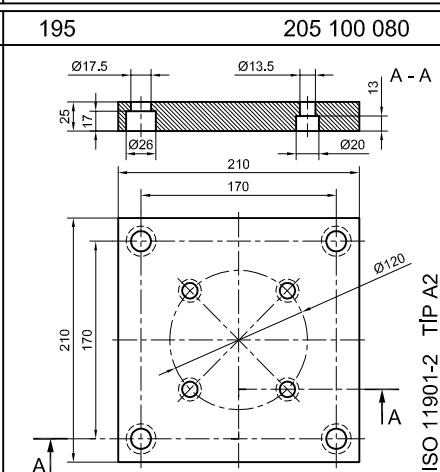
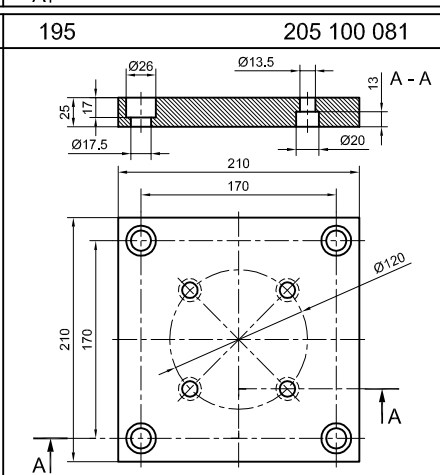


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 PS 9500 - 019**

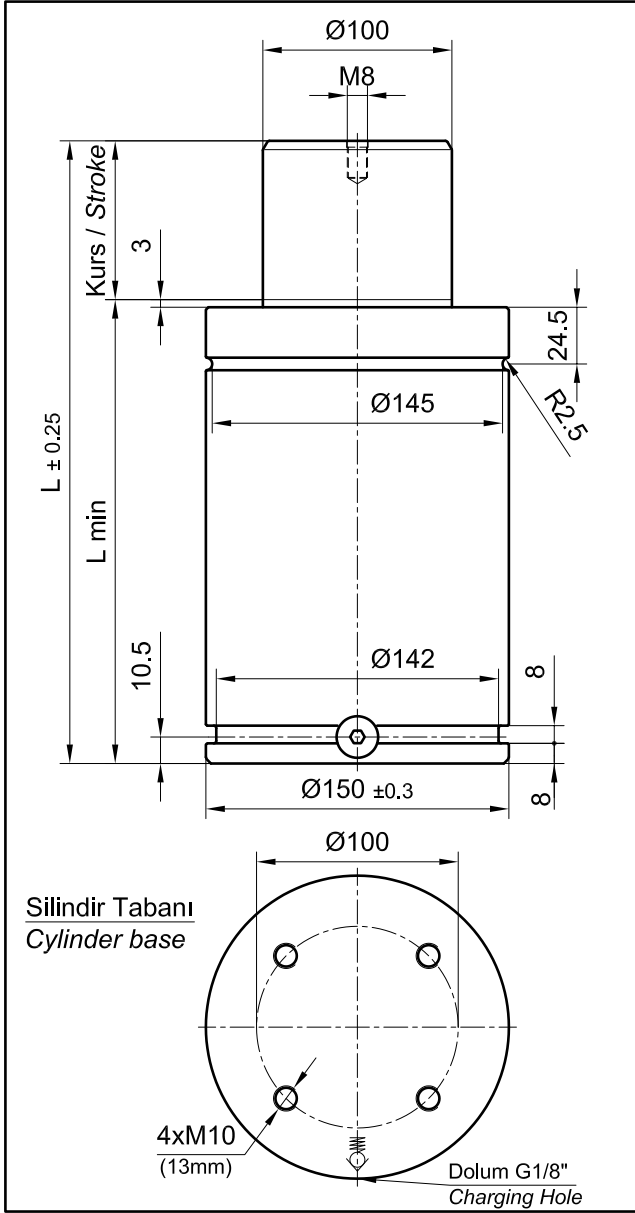
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 PS 9500 - 019	19	116	97	150 25	9500	15200
65 PS 9500 - 025	25	128	103			
65 PS 9500 - 032	32	142	110			
65 PS 9500 - 038	38	154	116			
65 PS 9500 - 050	50	178	128			
65 PS 9500 - 063	63	204	141			
65 PS 9500 - 075	75	228	153			
65 PS 9500 - 080	80	238	158			
65 PS 9500 - 100	100	278	178			
65 PS 9500 - 125	125	328	203			

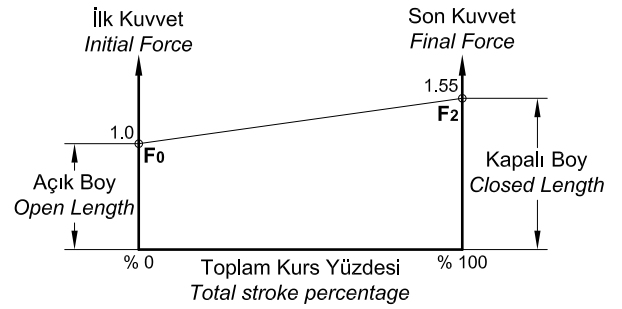


<p>195 205 100 591</p>  <p>ISO 11901-2 TİP C</p>	<p>195 205 100 300</p>  <p>ISO 11901-2 TİP B</p>	<p>195 205 100 301</p>  <p>ISO 11901-2 TİP B</p>
	<p>195 205 100 690</p>  <p>ISO 11901-2 TİP C2</p>	
<p>195 205 101 590</p>  <p>ISO 11901-2 TİP A2</p>	<p>195 205 100 080</p>  <p>ISO 11901-2 TİP A2</p>	
	<p>195 205 100 081</p>  <p>ISO 11901-2 TİP A2</p>	

11800 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 20÷100 tur/dak. (20 °C'de) : approx. 20 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

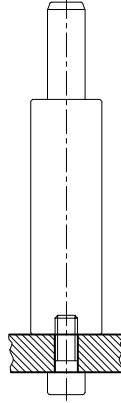
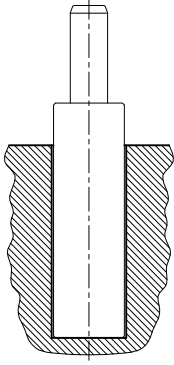
**65 PS 11800 - 019**

— Kurs (mm)  
Stroke  
— F0 (daN)  
— Tip  
Type

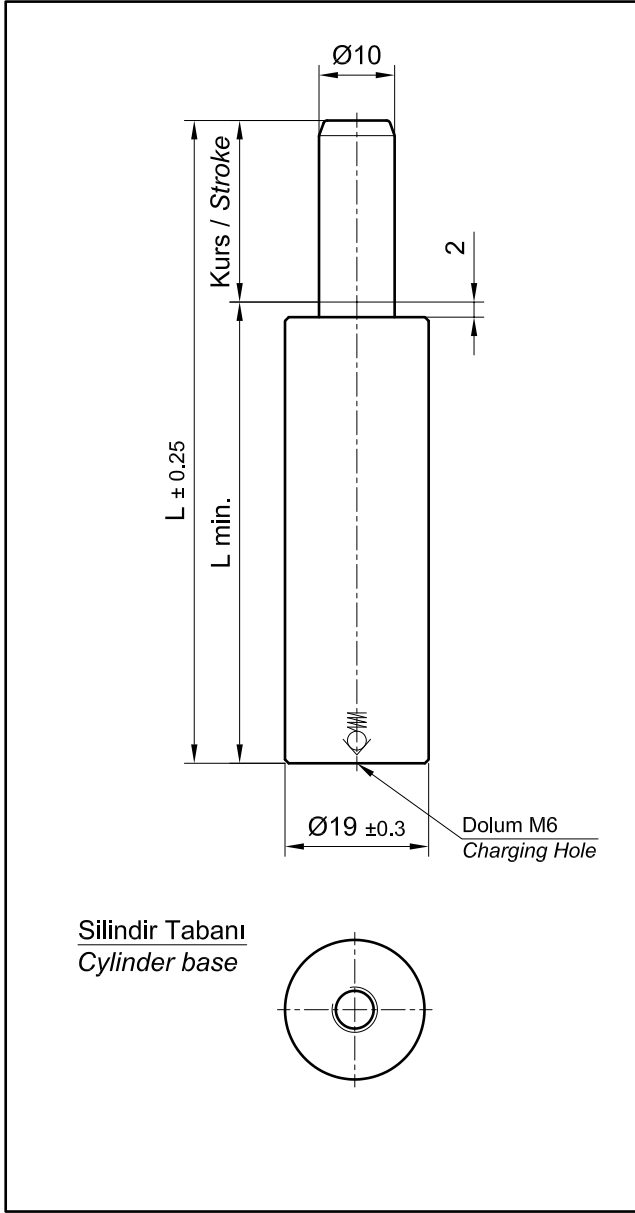
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 PS 11800 - 019	19	116	97	150 25	11800	18300
65 PS 11800 - 025	25	128	103			
65 PS 11800 - 032	32	142	110			
65 PS 11800 - 038	38	154	116			
65 PS 11800 - 050	50	178	128			
65 PS 11800 - 063	63	204	141			
65 PS 11800 - 075	75	228	153			
65 PS 11800 - 080	80	238	158			
65 PS 11800 - 100	100	278	178			
65 PS 11800 - 125	125	328	203			



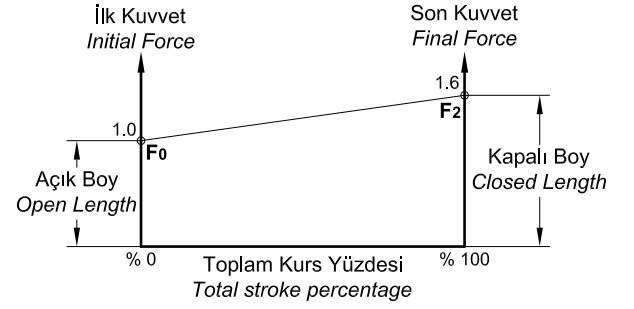
Montaj Örneği  
Mounting Example



150 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 190 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



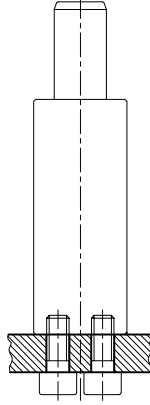
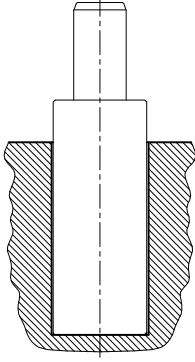
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 MA 150 - 10**

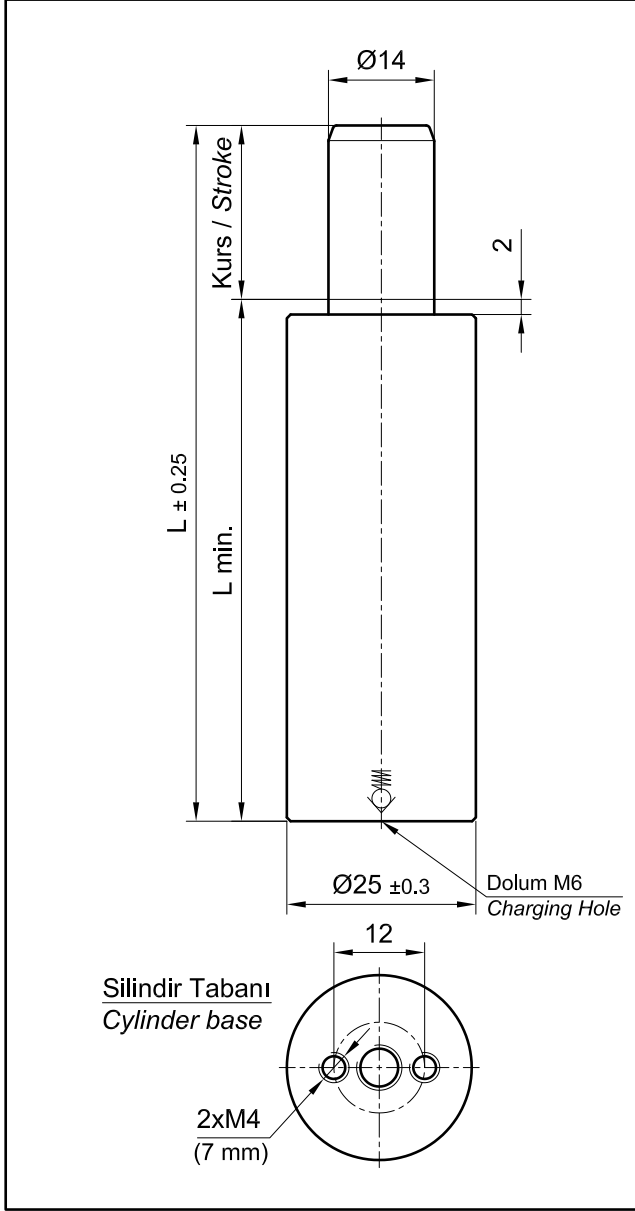
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 150 - 10	10	75	65	190 25	150	240
65 MA 150 - 15	15	85	70			
65 MA 150 - 25	25	105	80			
65 MA 150 - 38	38	135	97			
65 MA 150 - 50	50	160	110			
65 MA 150 - 63	63	190	127			
65 MA 150 - 80	80	220	140			

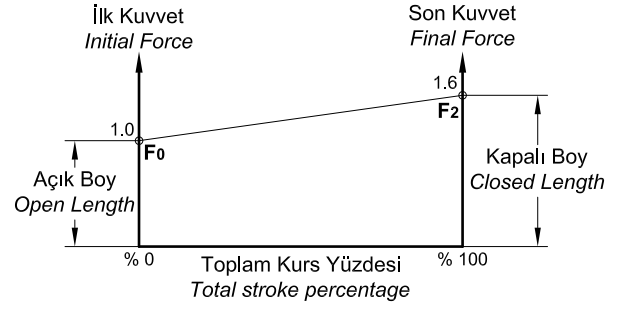
Montaj Örneği  
*Mounting Example*



300 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolun basıncı	: 200 bar
Max. filling pressure	
Min. dolun basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 80÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 80 to 100 (at 20 °C)



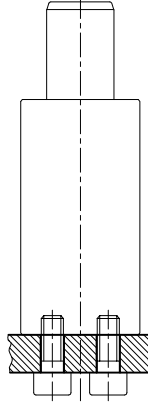
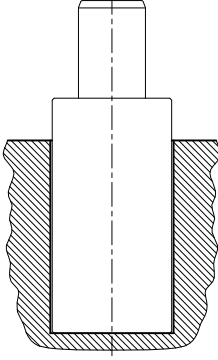
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 MA 300 - 10**

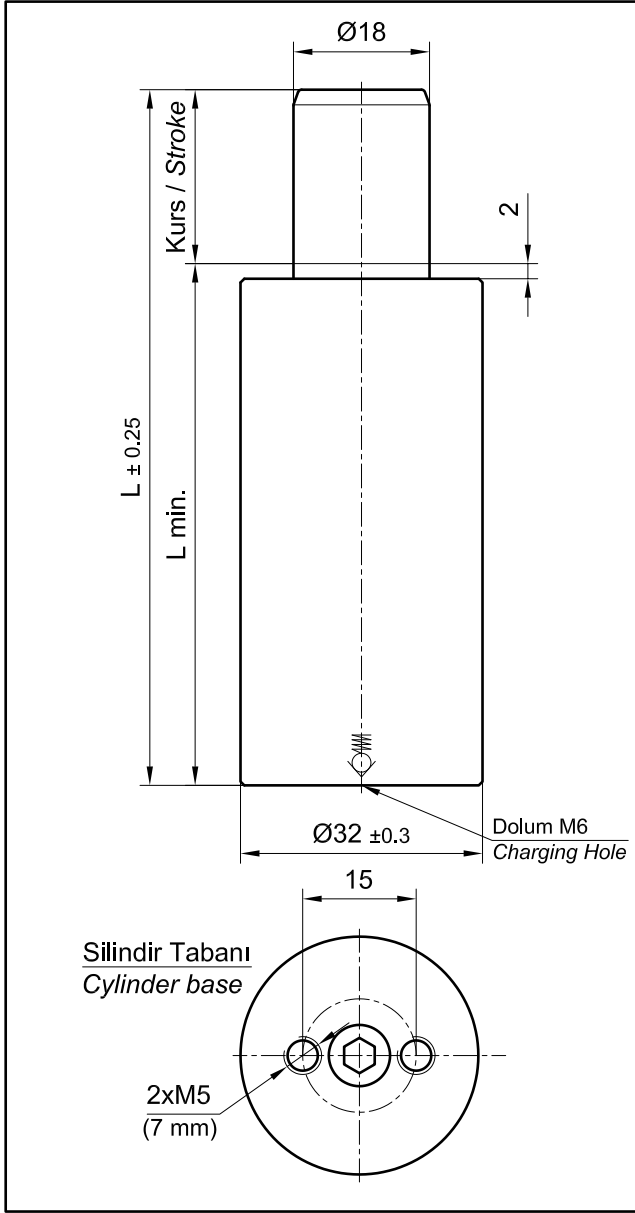
— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 300 - 10	10	75	65	200 25	300	480
65 MA 300 - 15	15	85	70			
65 MA 300 - 25	25	105	80			
65 MA 300 - 38	38	130	92			
65 MA 300 - 50	50	155	105			
65 MA 300 - 63	63	185	122			
65 MA 300 - 80	80	220	140			

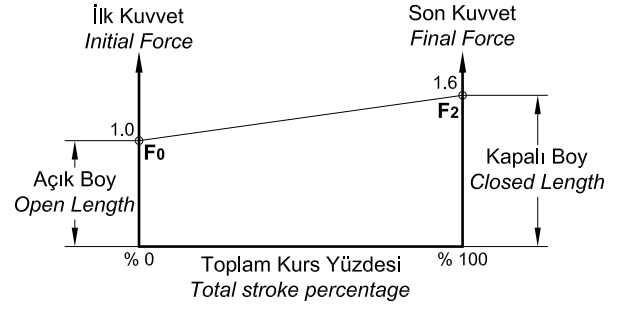
Montaj Örneği  
*Mounting Example*



500 daN



Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolun basıncı / Max. filling pressure	: 200 bar
Min. dolun basıncı / Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 80÷100 tur/dak. (20 °C'de) / approx. 80 to 100 (at 20 °C)



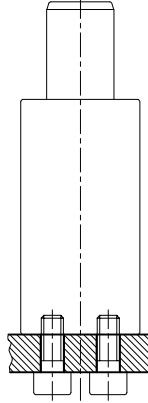
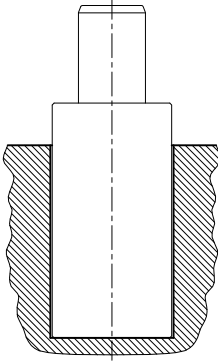
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 MA 500 - 10**

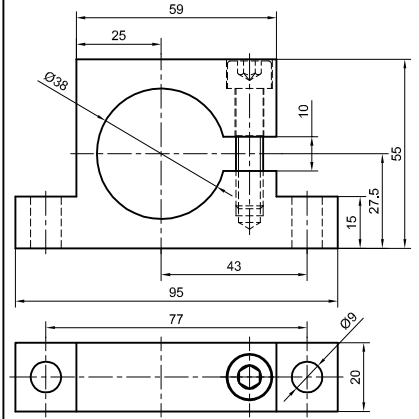
— Kurs (mm) / Stroke  
— F<sub>0</sub> (daN)  
— Tip / Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 500 - 10	10	75	65	200 25	500	800
65 MA 500 - 15	15	85	70			
65 MA 500 - 25	25	105	80			
65 MA 500 - 38	38	130	92			
65 MA 500 - 50	50	155	105			
65 MA 500 - 63	63	190	127			
65 MA 500 - 80	80	225	145			

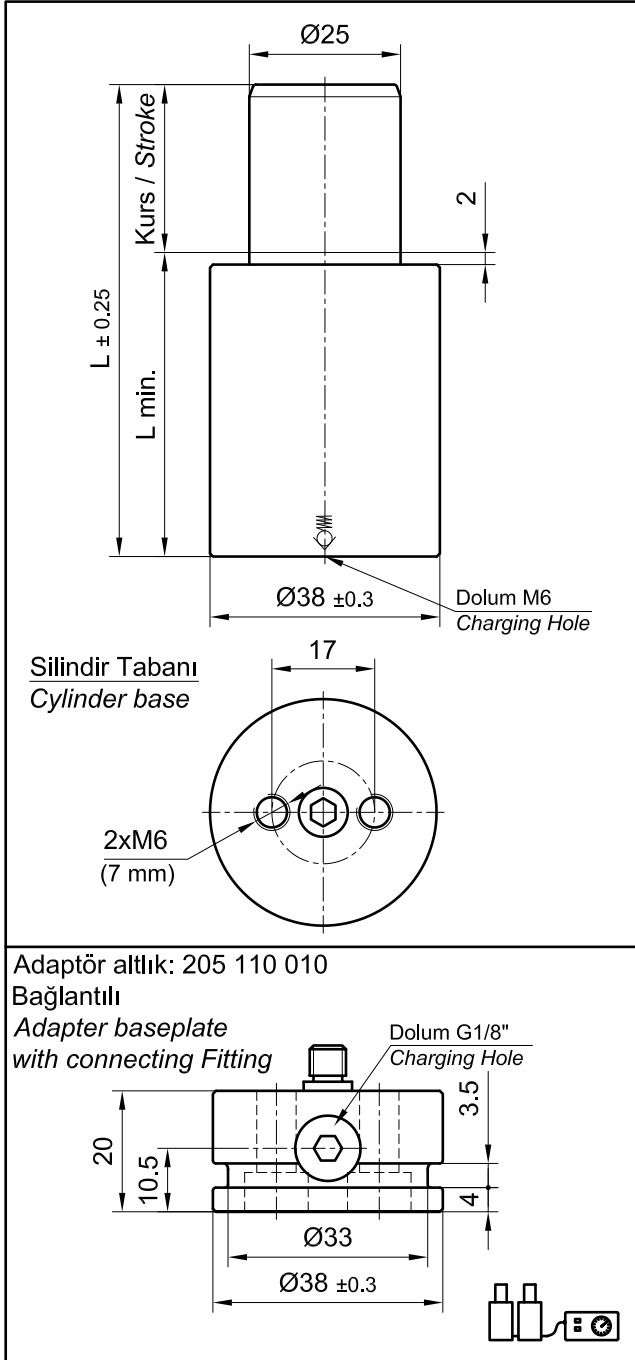
Montaj Örneği  
 Mounting Example



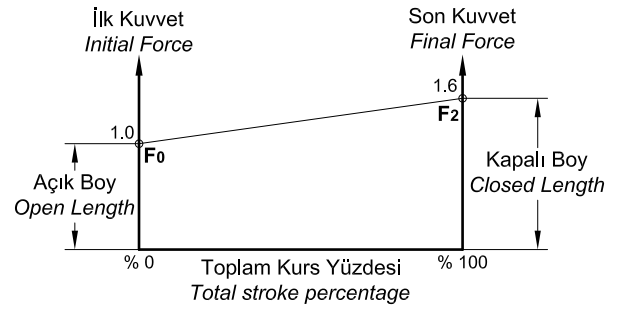
38 205 100 820



1000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 205 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

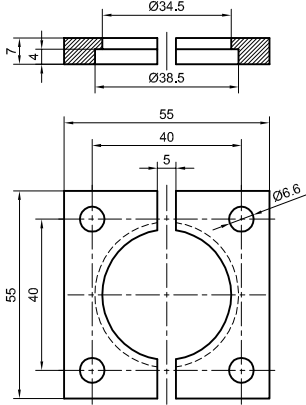
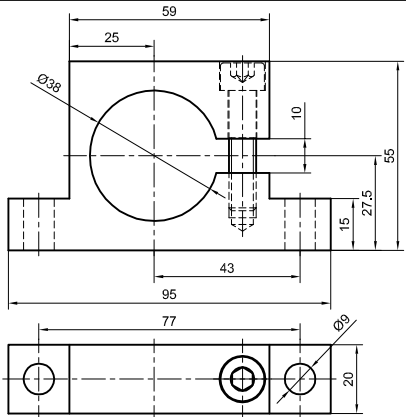
**65 MA 1000 - 10**

Kurs (mm)  
Stroke

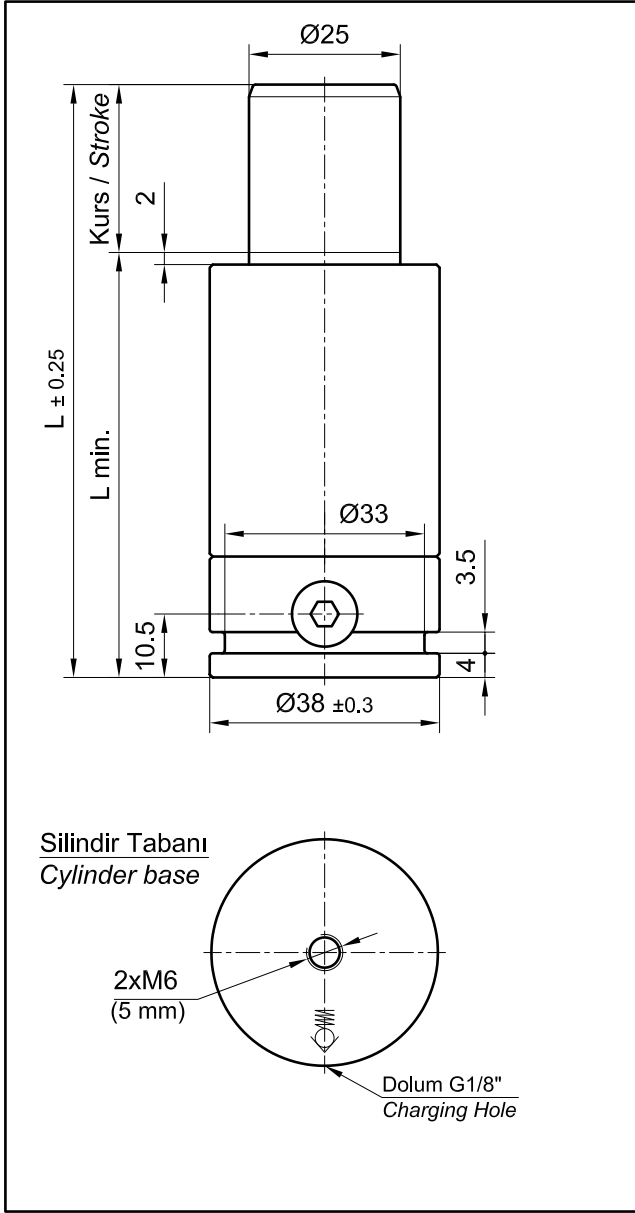
F<sub>0</sub> (daN)

Tip  
Type

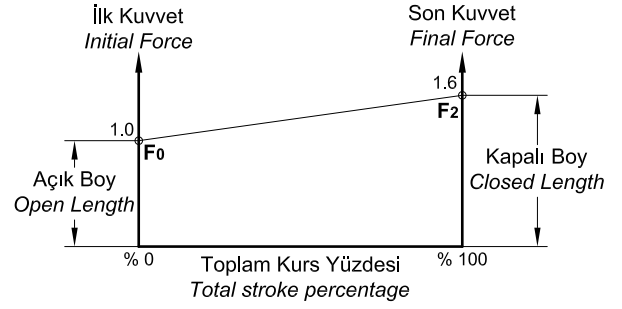
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 1000 - 10	10	75	65	205 25	1000	1600
65 MA 1000 - 15	15	85	70			
65 MA 1000 - 25	25	105	80			
65 MA 1000 - 38	38	135	97			
65 MA 1000 - 50	50	160	110			
65 MA 1000 - 63	63	205	142			
65 MA 1000 - 80	80	240	160			

	<p>38 205 100 220</p>  <p>ISO 11901-2 TYP B</p>	
		<p>38 205 100 820</p>  <p>ISO 11901-2-VDI 3003 TYP D</p>

1000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 205 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 MAB 1000 - 10**

Kurs (mm)  
Stroke

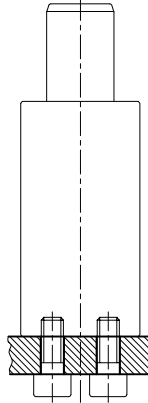
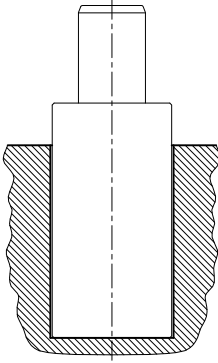
F<sub>0</sub> (daN)

Tip  
Type

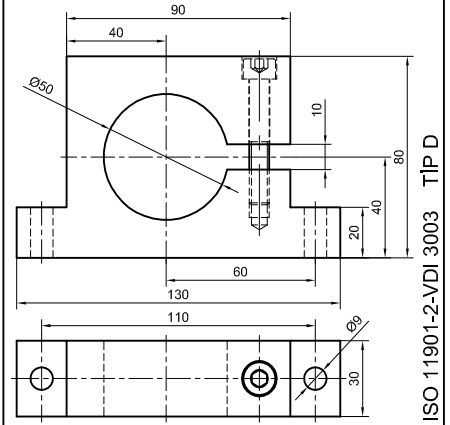
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MAB 1000 - 10	10	95	85	205 25	1000	1600
65 MAB 1000 - 15	15	105	90			
65 MAB 1000 - 25	25	125	100			
65 MAB 1000 - 38	38	155	117			
65 MAB 1000 - 50	50	180	130			
65 MAB 1000 - 63	63	225	162			
65 MAB 1000 - 80	80	260	180			



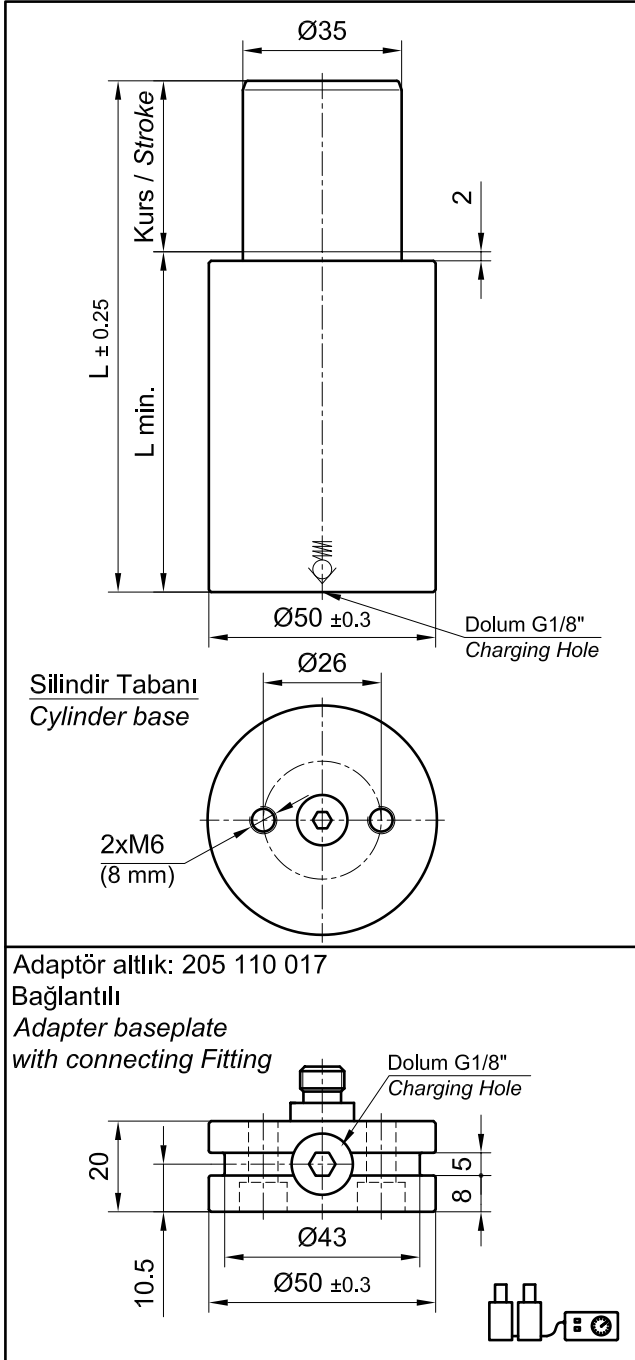
Montaj Örneği  
 Mounting Example



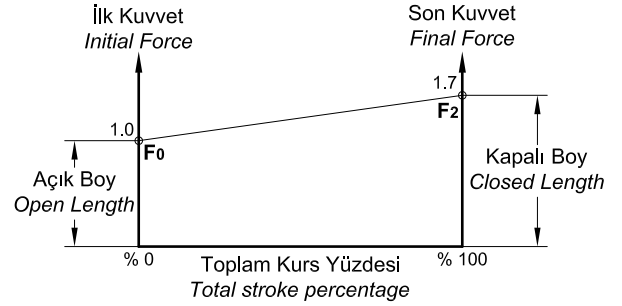
50 205 100 840



1900 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolum basıncı Max. filling pressure	: 200 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

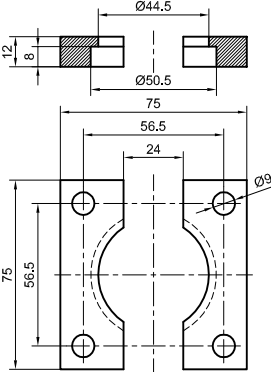
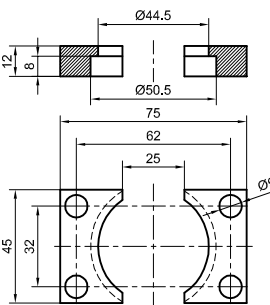
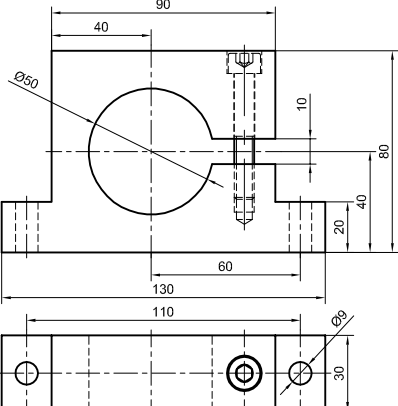


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

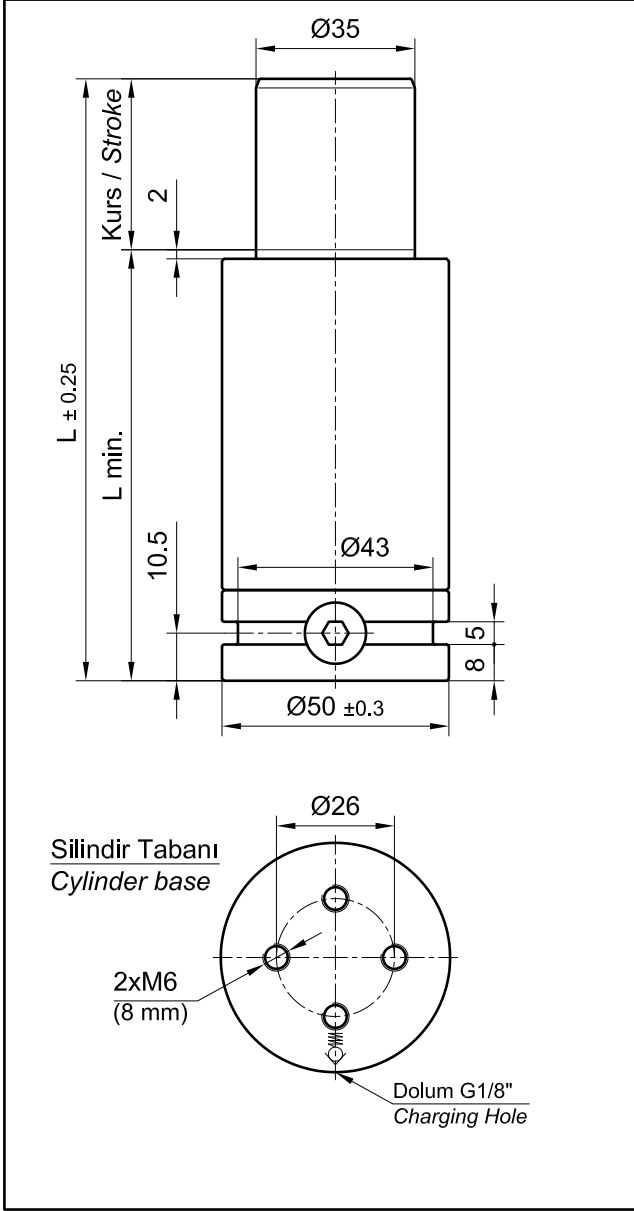
**65 MA 1900 - 10**

Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

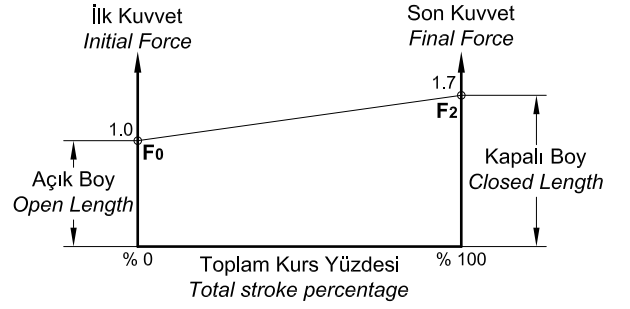
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 MA 1900 - 10	10	85	75	200 25	1900	3250
65 MA 1900 - 15	15	95	80			
65 MA 1900 - 25	25	115	90			
65 MA 1900 - 38	38	150	112			
65 MA 1900 - 50	50	175	125			
65 MA 1900 - 63	63	205	142			
65 MA 1900 - 80	80	245	165			

	<p>50 205 100 240</p>  <p>ISO 11901-2 TİP B</p>	<p>50 205 100 241</p> 
		<p>50 205 100 840</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>

1900 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 200 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 MAB 1900 - 10**

Kurs (mm)  
Stroke

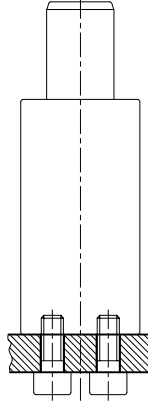
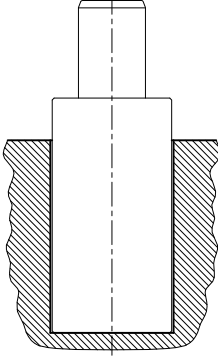
F0 (daN)

Tip  
Type

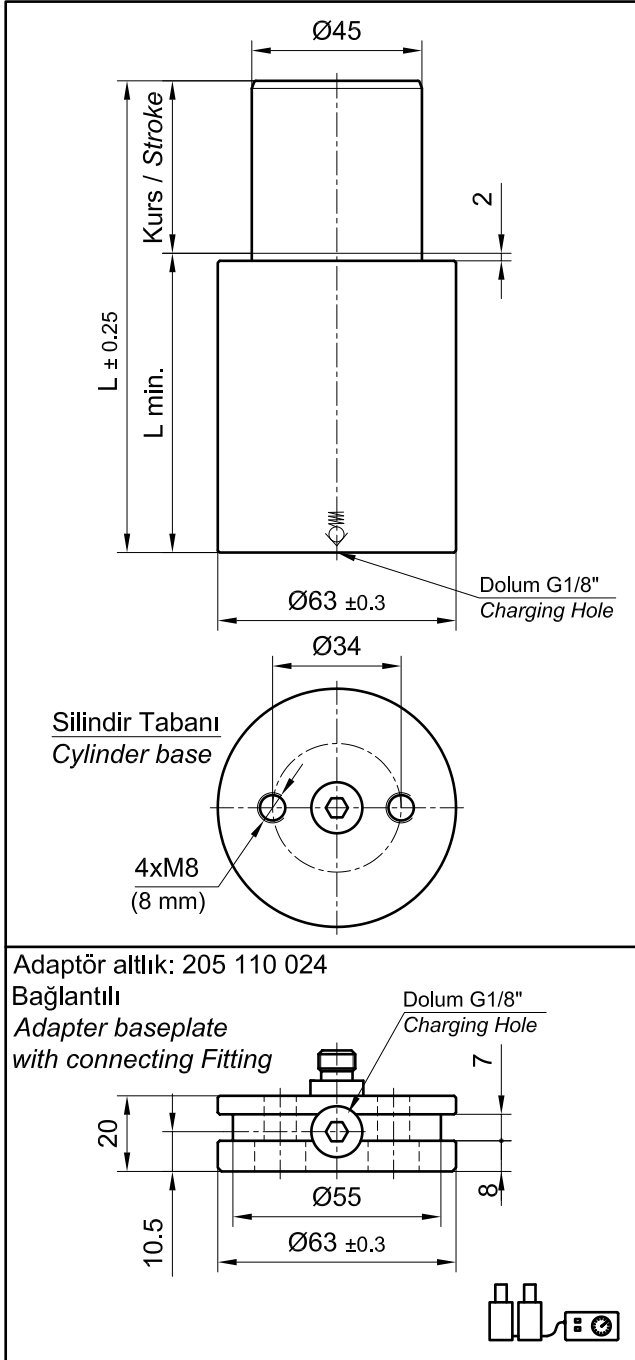
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 MAB 1900 - 10	10	105	95	200 25	1900	3250
65 MAB 1900 - 15	15	115	100			
65 MAB 1900 - 25	25	135	110			
65 MAB 1900 - 38	38	170	132			
65 MAB 1900 - 50	50	195	145			
65 MAB 1900 - 63	63	225	162			
65 MAB 1900 - 80	80	265	185			



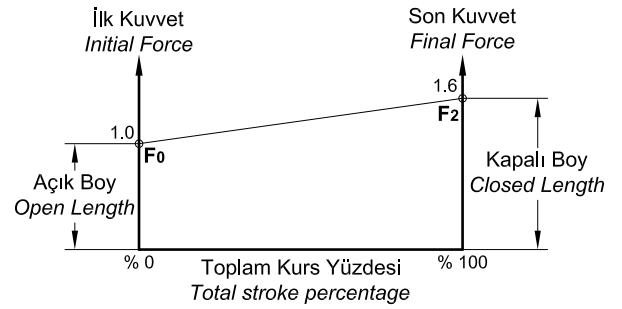
Montaj Örneği  
*Mounting Example*



3000 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 192 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

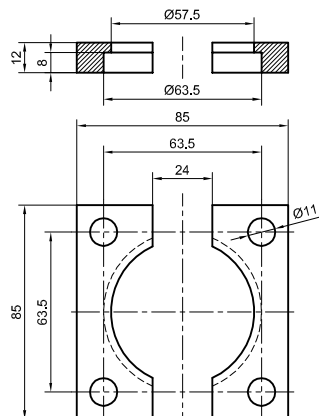
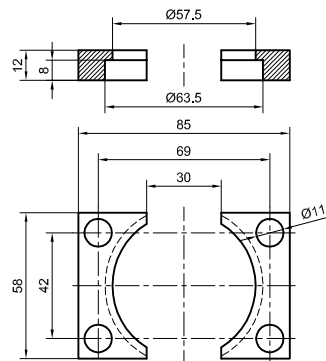


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

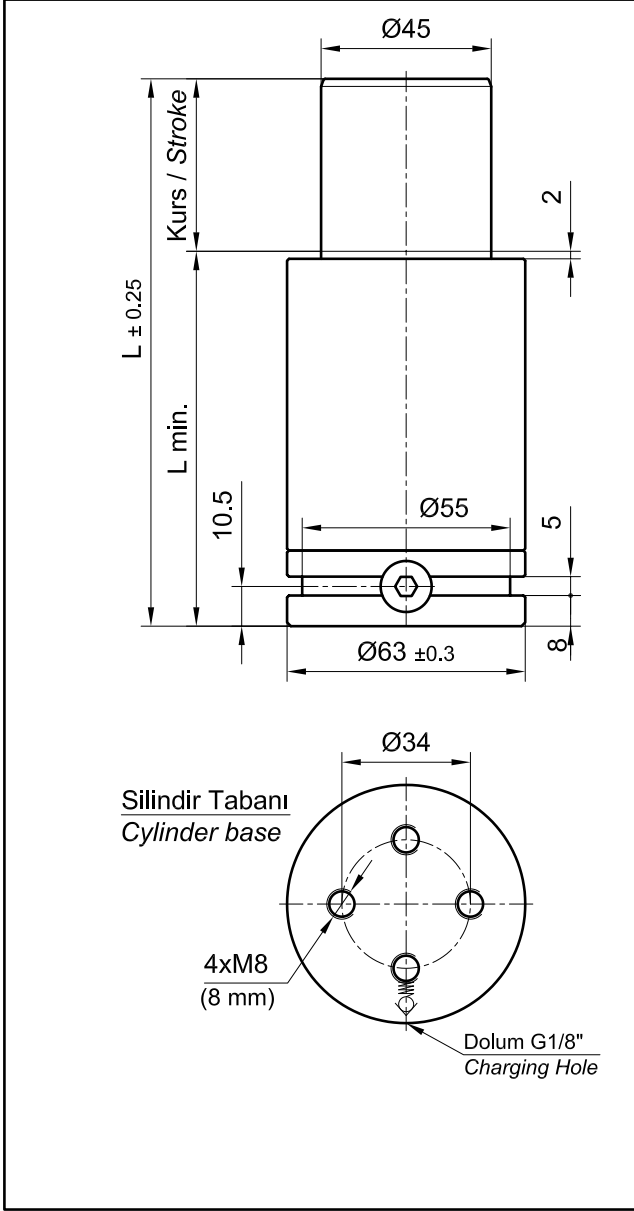
**65 MA 3000 - 10**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

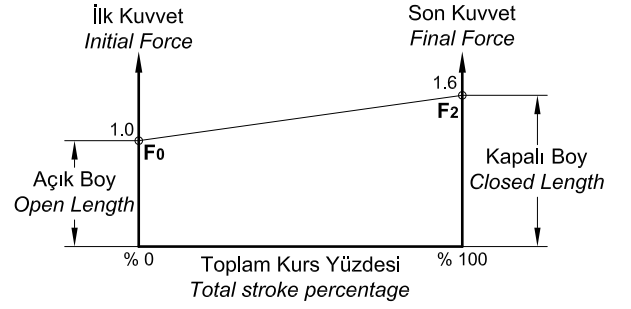
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 3000 - 10	10	95	85	192 25	3000	4800
65 MA 3000 - 15	15	115	100			
65 MA 3000 - 25	25	135	110			
65 MA 3000 - 38	38	165	127			
65 MA 3000 - 50	50	190	140			
65 MA 3000 - 63	63	230	167			
65 MA 3000 - 80	80	255	175			

	63	205 100 250	63	205 100 251
				

3000 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 192 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

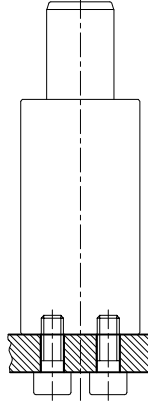
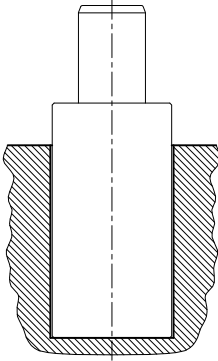
**65 MAB 3000 - 10**

Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

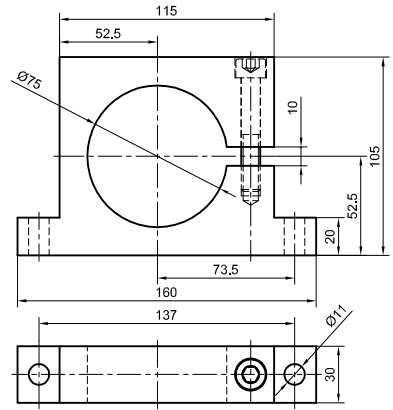
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 MAB 3000 - 10	10	115	105	192 25	3000	4800
65 MAB 3000 - 15	15	135	120			
65 MAB 3000 - 25	25	155	130			
65 MAB 3000 - 38	38	185	147			
65 MAB 3000 - 50	50	210	160			
65 MAB 3000 - 63	63	240	177			
65 MAB 3000 - 80	80	275	195			



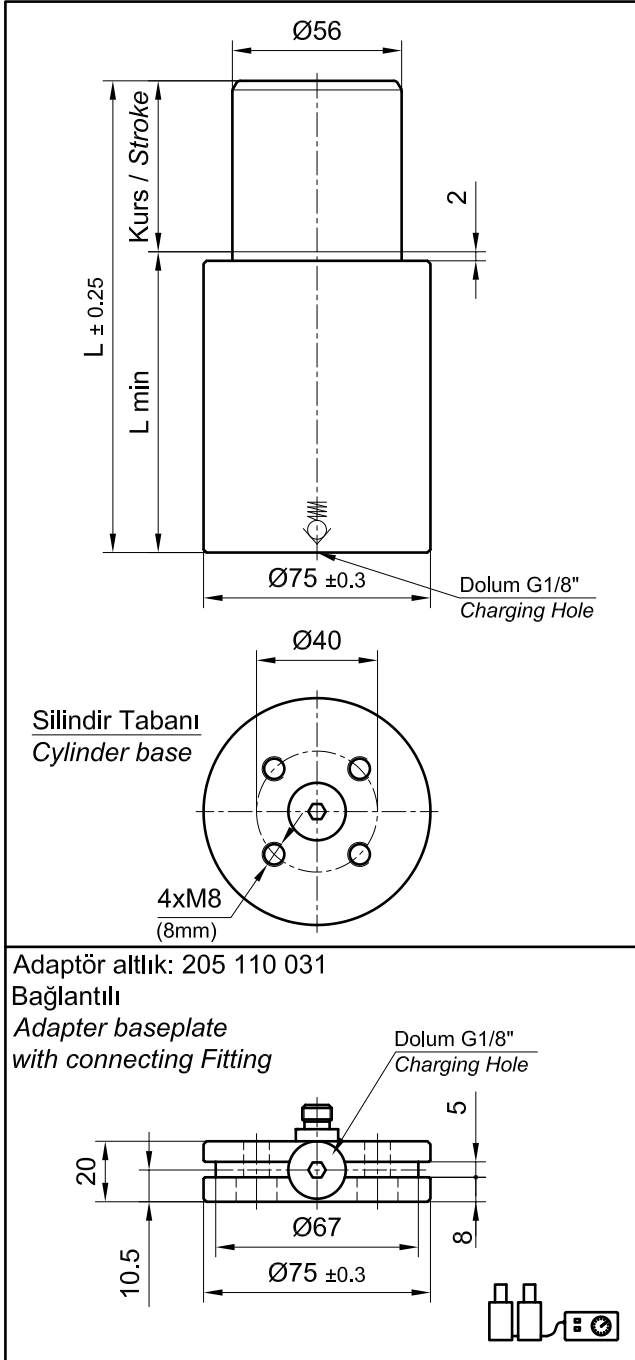
Montaj Örneği  
 Mounting Example



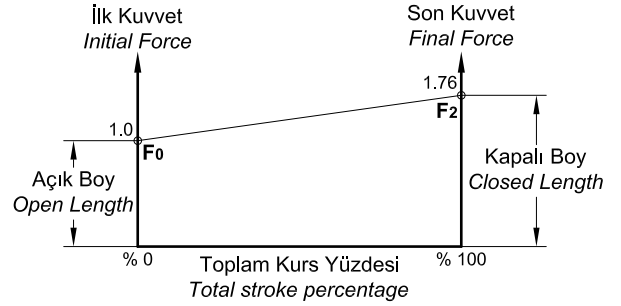
75 205 100 860



4900 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 200 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

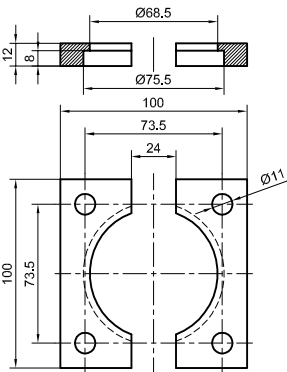
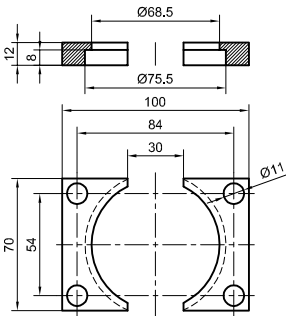
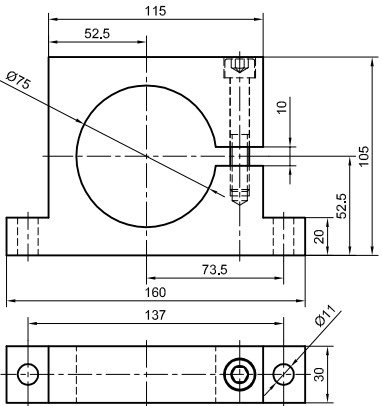
**65 MA 4900 - 15**

Kurs (mm)  
Stroke

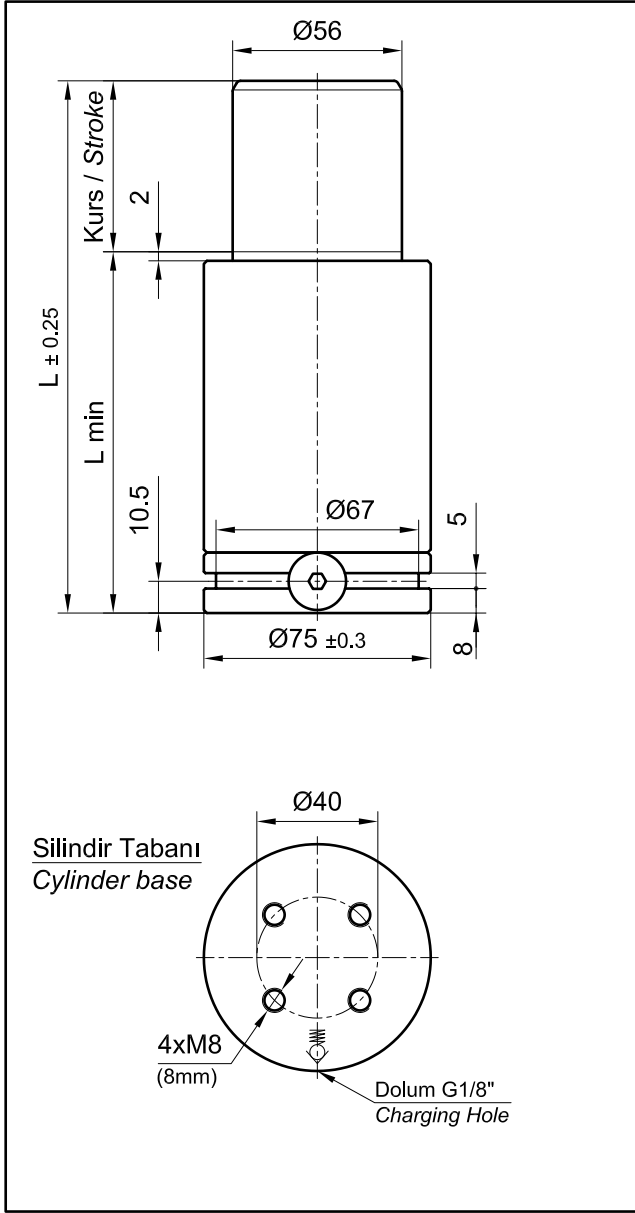
F<sub>0</sub> (daN)

Tip  
Type

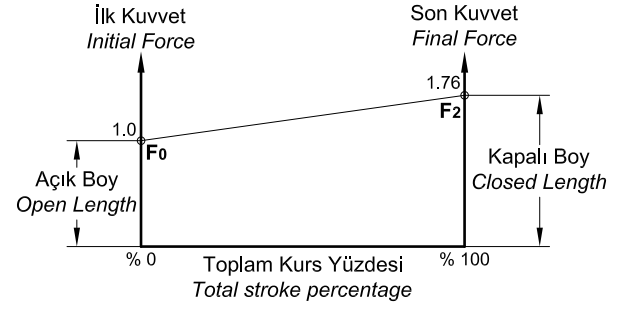
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 4900 - 15	15	100	85	200 25	4900	8650
65 MA 4900 - 25	25	120	95			
65 MA 4900 - 38	38	150	112			
65 MA 4900 - 50	50	180	130			
65 MA 4900 - 63	63	210	147			
65 MA 4900 - 80	80	250	170			

	75 205 100 260	75 205 100 261
	 <p>ISO 11901-2 TYP B</p>	
		<p>75 205 100 860</p>  <p>ISO 11901-2-VDI 3003 TYP D</p>

4900 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 200 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80÷100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

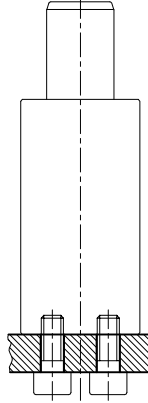
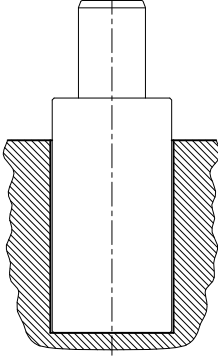
**65 MAB 4900 - 15**

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

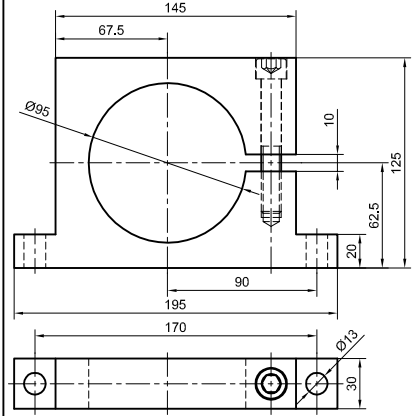
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MAB 4900 - 15	15	120	105	200 25	4900	8650
65 MAB 4900 - 25	25	140	115			
65 MAB 4900 - 38	38	170	132			
65 MAB 4900 - 50	50	200	150			
65 MAB 4900 - 63	63	230	167			
65 MAB 4900 - 80	80	270	190			



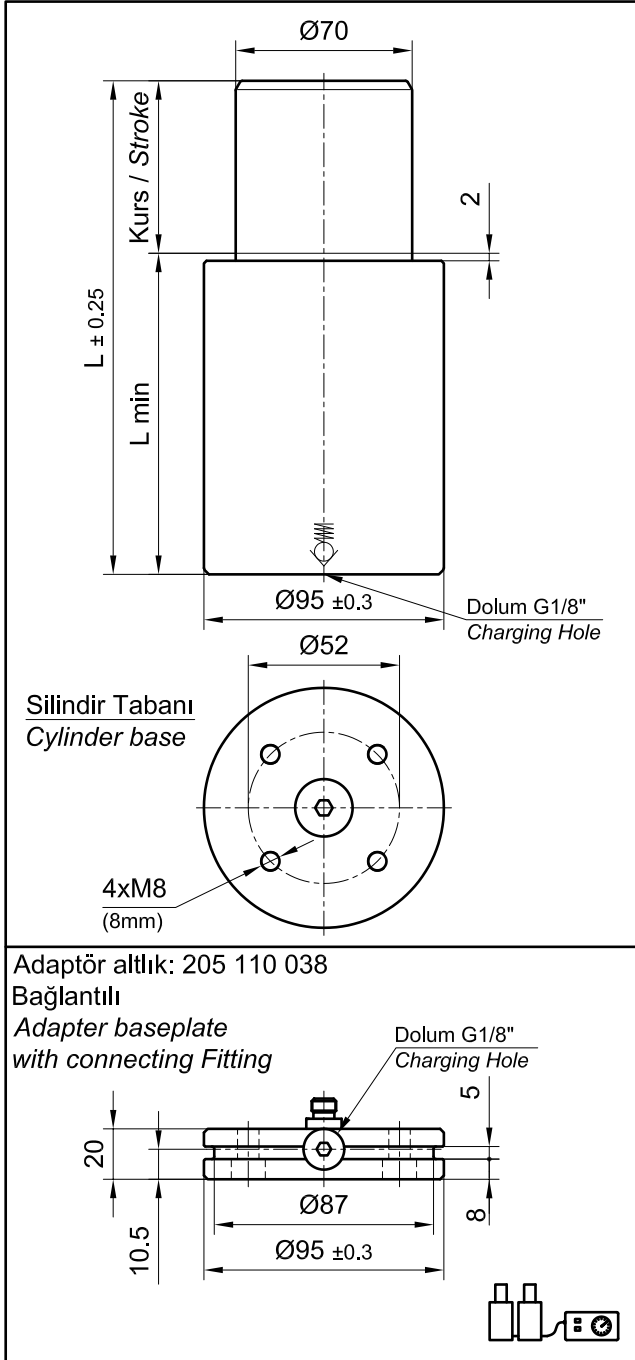
Montaj Örneği  
 Mounting Example



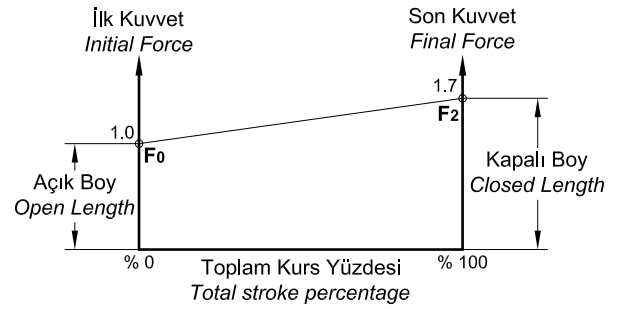
95 205 100 870



7500 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 199 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80÷100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

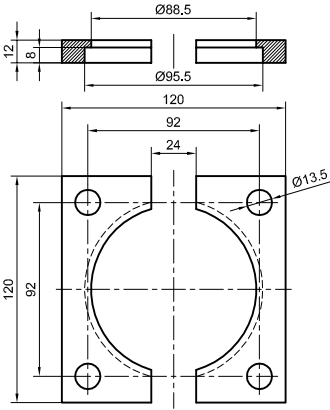
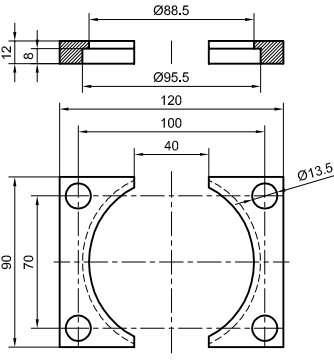
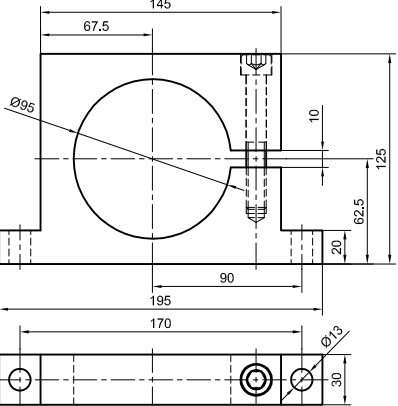


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

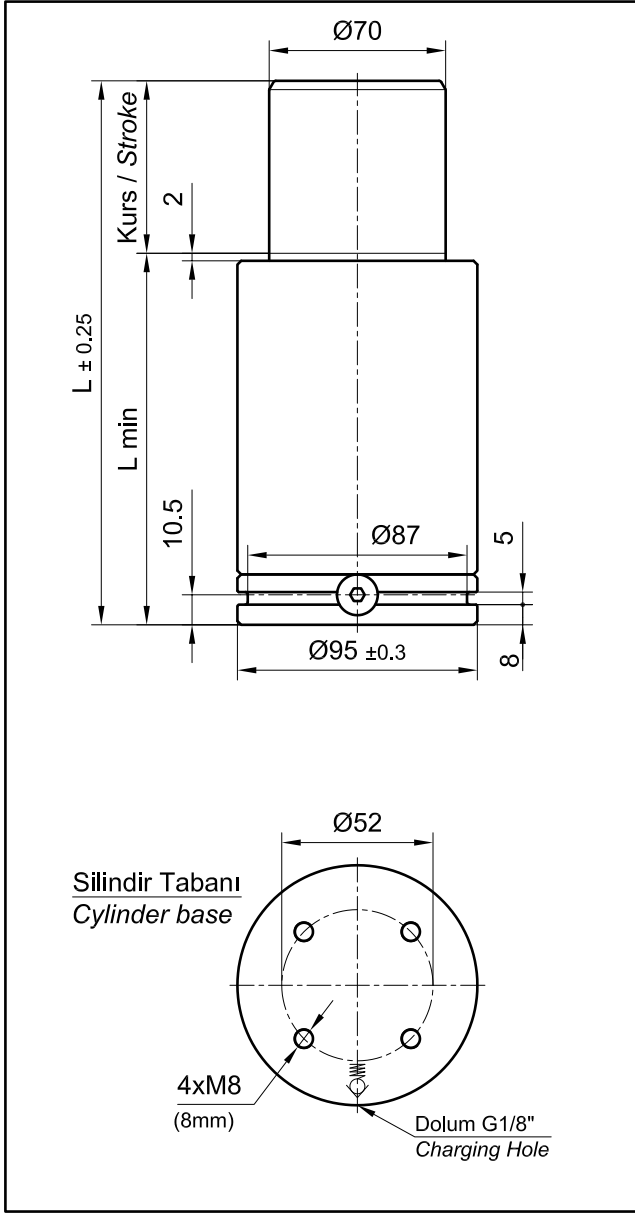
**65 MA 7500 - 15**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
Tip  
Type

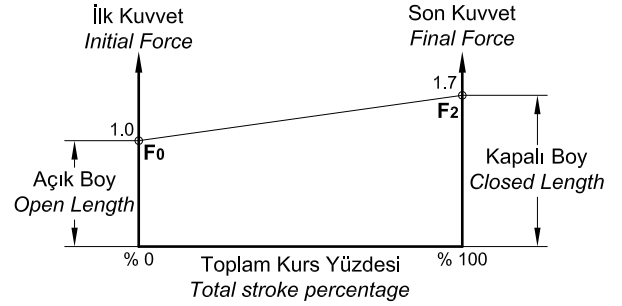
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 7500 - 15	15	115	100	199 25	7500	12750
65 MA 7500 - 25	25	135	110			
65 MA 7500 - 38	38	165	127			
65 MA 7500 - 50	50	190	140			
65 MA 7500 - 63	63	220	157			
65 MA 7500 - 80	80	260	180			

	<p>95 205 100 270</p>  <p>ISO 11901-2 TYP B</p>	<p>95 205 100 271</p> 
		<p>95 205 100 870</p>  <p>ISO 11901-2-VDI 3003 TYP D</p>

7500 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolun basıncı Max. filling pressure	: 199 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

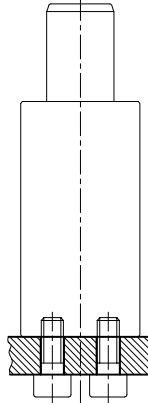
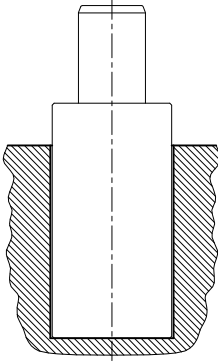
**65 MAB 7500 - 15**

Kurs (mm)  
Stroke  
F0 (daN)  
Tip  
Type

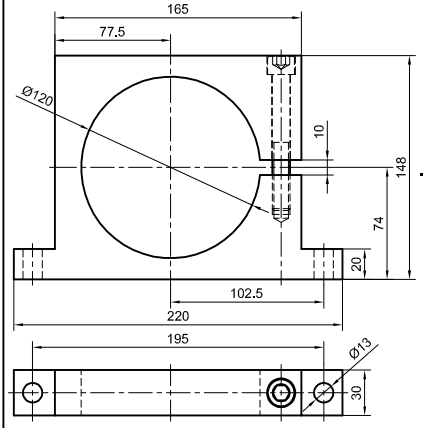
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 MAB 7500 - 15	15	135	120	199 25	7500	12750
65 MAB 7500 - 25	25	155	130			
65 MAB 7500 - 38	38	185	147			
65 MAB 7500 - 50	50	210	160			
65 MAB 7500 - 63	63	240	177			
65 MAB 7500 - 80	80	280	200			



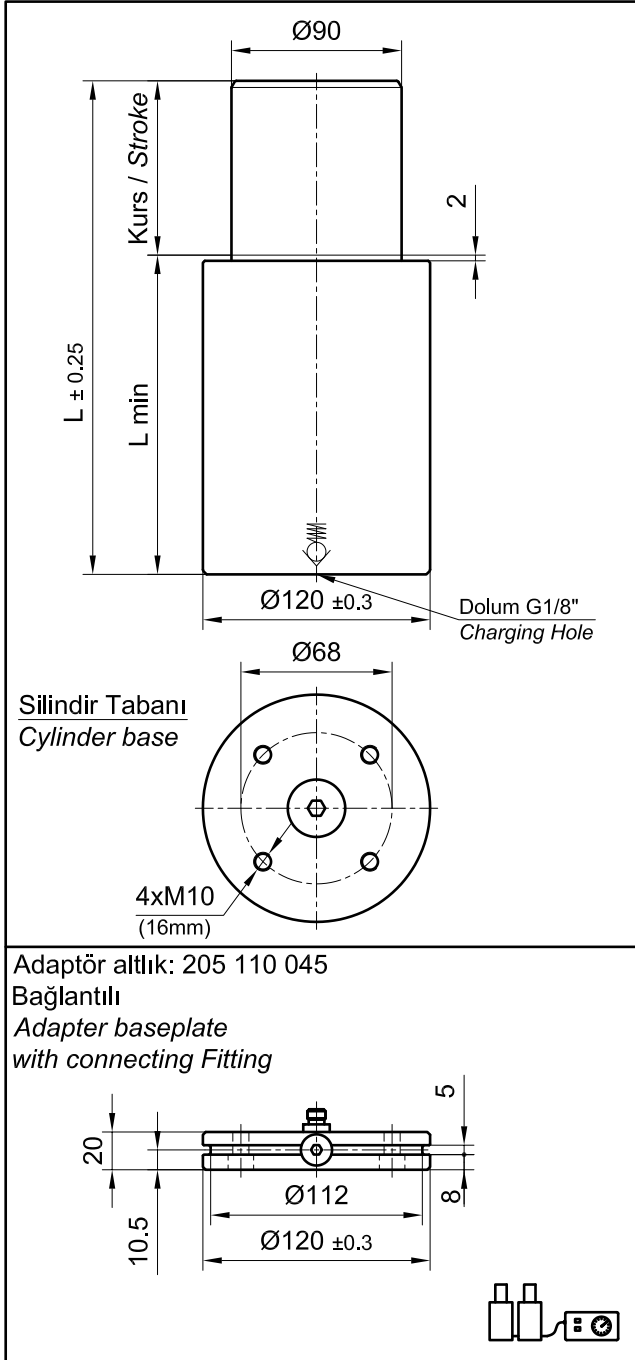
Montaj Örneği  
 Mounting Example



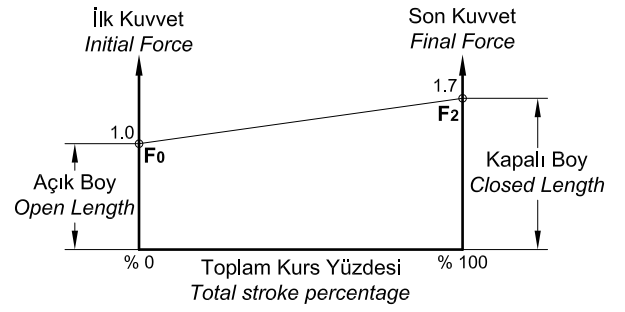
120 205 100 880



12700 daN



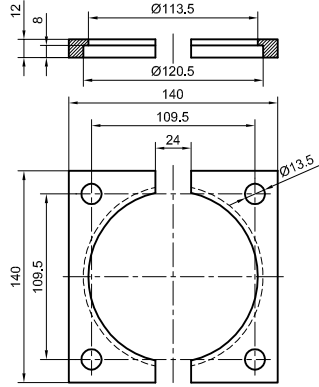
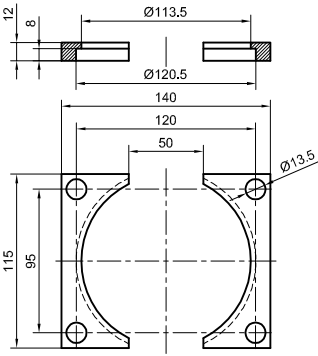
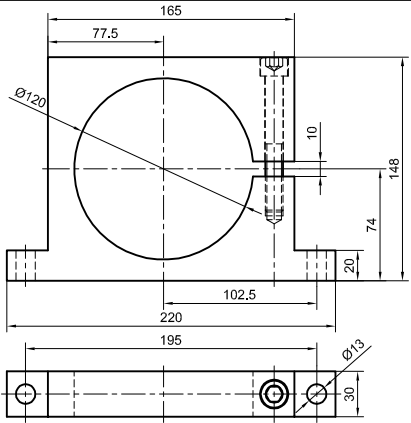
Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 200 bar
Max. filling pressure	
Min. dolum basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 80÷100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 80 to 100 (at 20 °C)



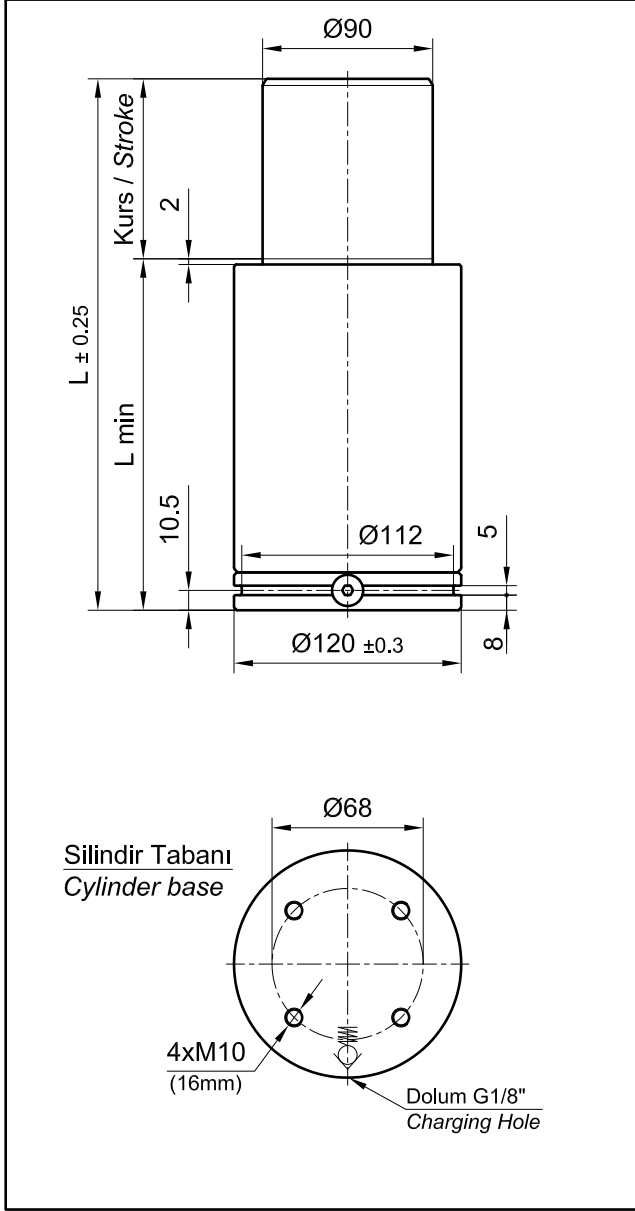
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**  
**65 MA 12700 - 15**

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

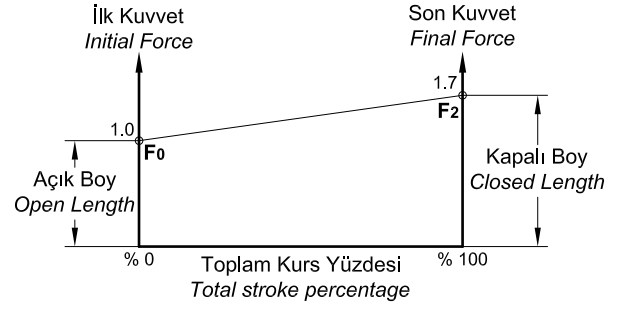
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MA 12700 - 15	15	115	100	200 25	12720	21720
65 MA 12700 - 25	25	135	110			
65 MA 12700 - 38	38	165	127			
65 MA 12700 - 50	50	195	145			
65 MA 12700 - 63	63	225	162			
65 MA 12700 - 80	80	265	185			

	120	205 100 280	120	205 100 281
				
				

12700 daN



Dolum gazı Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 200 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

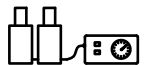


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

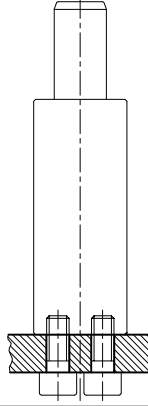
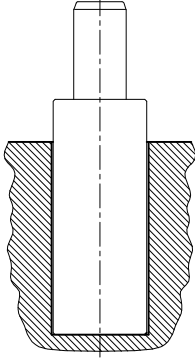
**65 MAB 12700 - 15**

Kurs (mm)  
Stroke  
F<sub>0</sub> (daN)  
Tip  
Type

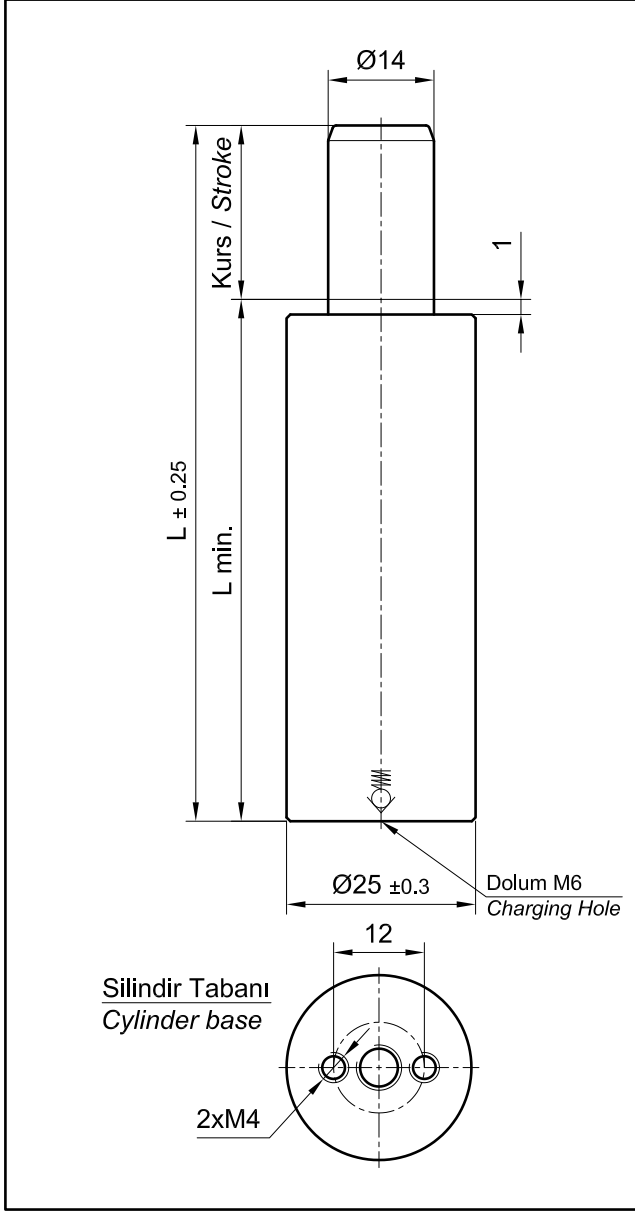
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 MAB 12700 - 15	15	135	120	200 25	12720	21720
65 MAB 12700 - 25	25	155	130			
65 MAB 12700 - 38	38	185	147			
65 MAB 12700 - 50	50	215	165			
65 MAB 12700 - 63	63	245	182			
65 MAB 12700 - 80	80	285	205			



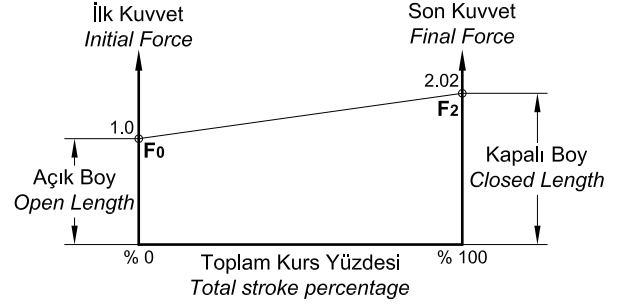
Montaj Örneği  
*Mounting Example*



420 daN



Dolum gaz Pressure medium	: Azot N2 : Nitrogen N2
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 100 tur/dak. (20 °C'de) : approx. 100 (at 20 °C)



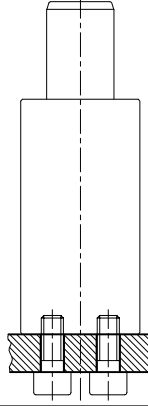
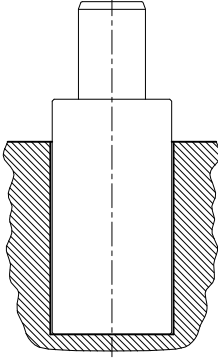
**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 KO 420 - 06**

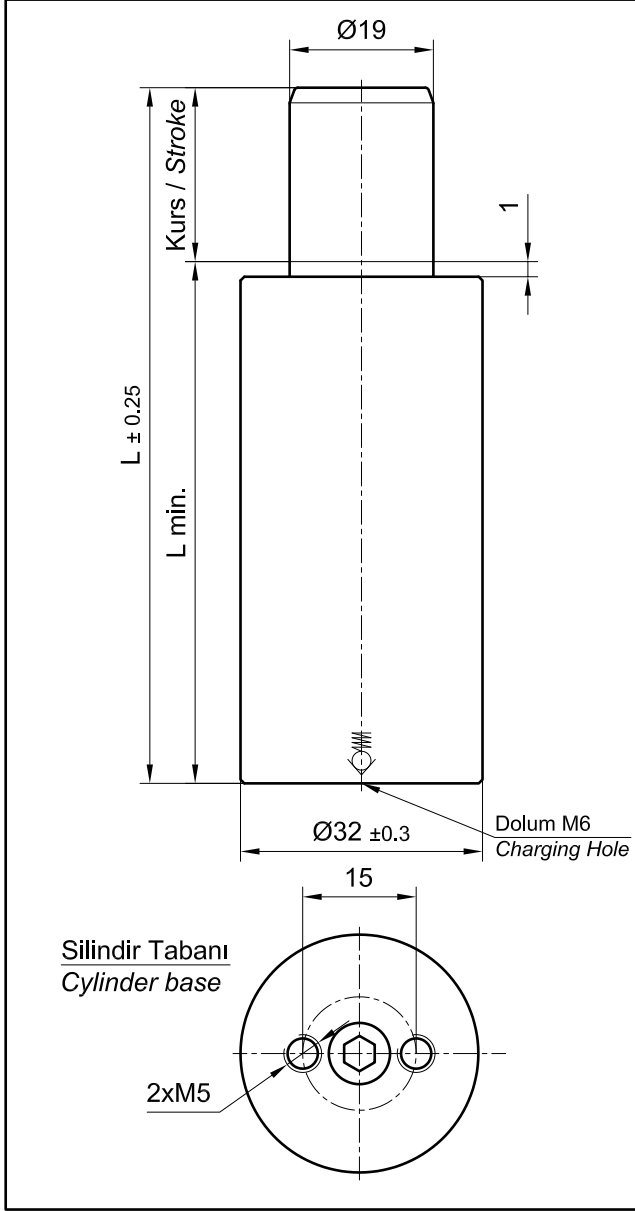
— Kurs (mm)  
Stroke  
— F0 (daN)  
Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F0 daN-max.	F2 daN
65 KO 420 - 06	6	56	50	150 25	420	850
65 KO 420 - 10	10	70	60			
65 KO 420 - 16	16	91	75			
65 KO 420 - 25	25	120	95			
65 KO 420 - 32	32	144	112			
65 KO 420 - 40	40	165	120			
65 KO 420 - 50	50	195	145			

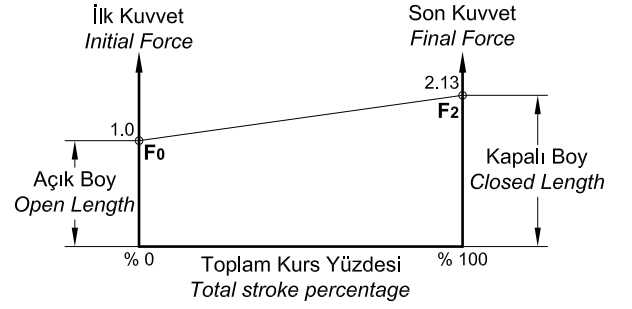
Montaj Örneği  
*Mounting Example*



750 daN



Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolun basıncı / Max. filling pressure	: 150 bar
Min. dolun basıncı / Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 100 tur/dak. (20 °C'de) / approx. 100 (at 20 °C)

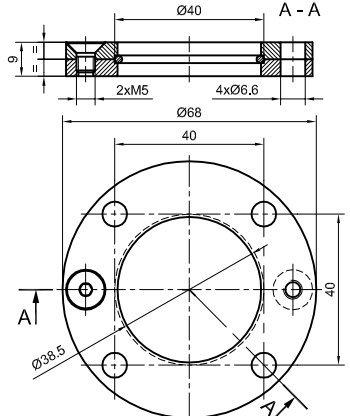
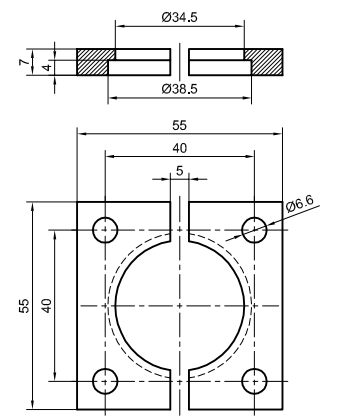
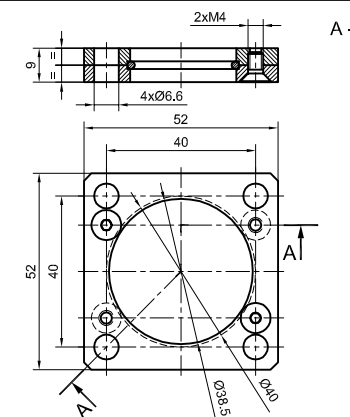
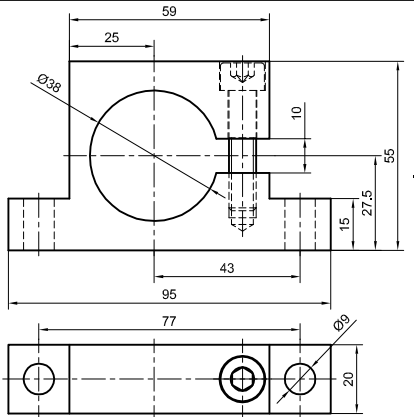


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

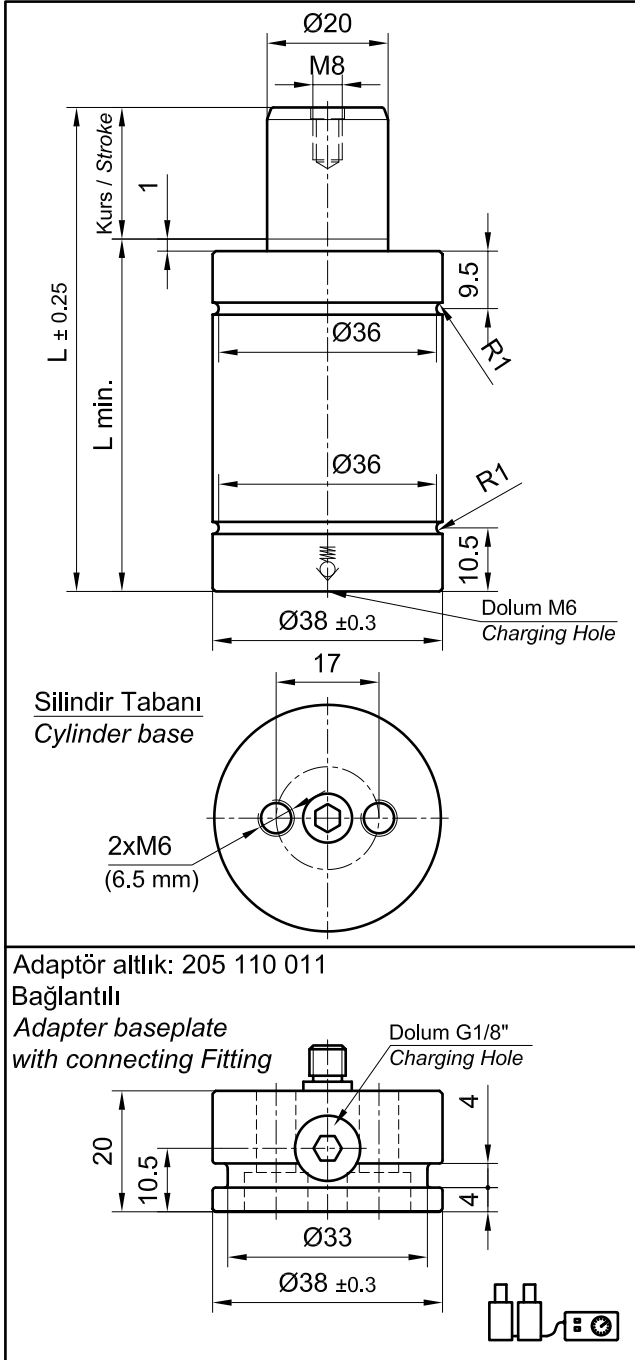
**65 KO 750 - 06**

— Kurs (mm) / Stroke  
— F<sub>0</sub> (daN)  
— Tip / Type

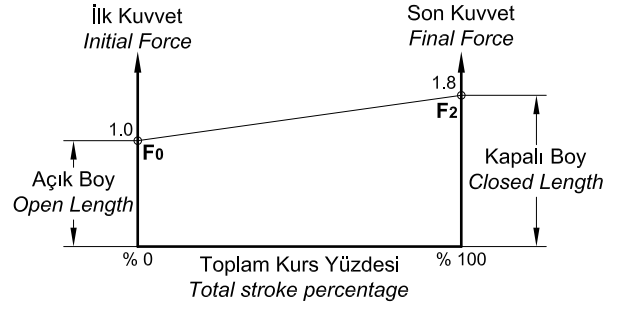
Kod No. / Part Nr.	Kurs mm / Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 750 - 06	6	60	54	150 25	750	1600
65 KO 750 - 10	10	75	65			
65 KO 750 - 16	16	91	75			
65 KO 750 - 25	25	120	95			
65 KO 750 - 32	32	144	112			
65 KO 750 - 40	40	165	120			
65 KO 750 - 50	50	195	145			

<p>38 205 100 519</p>  <p>ISO 11901-2 TİP C</p>	<p>38 205 100 220</p>  <p>ISO 11901-2 TİP B</p>	
	<p>38 205 100 610</p>  <p>ISO 11901-2 TİP C2</p>	<p>38 205 100 820</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>

1000 daN



Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 25 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 100 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 100 (at 20 °C)

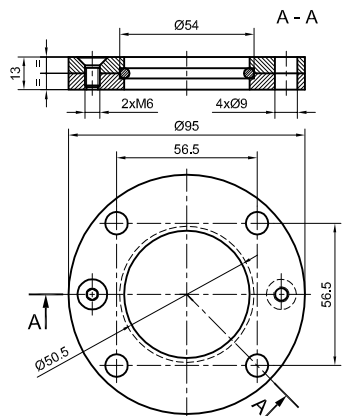
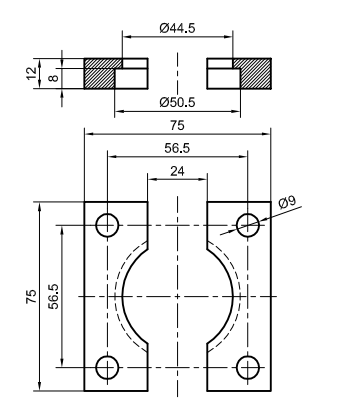
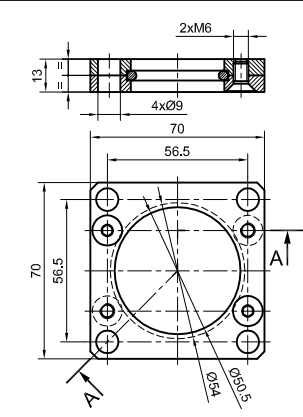
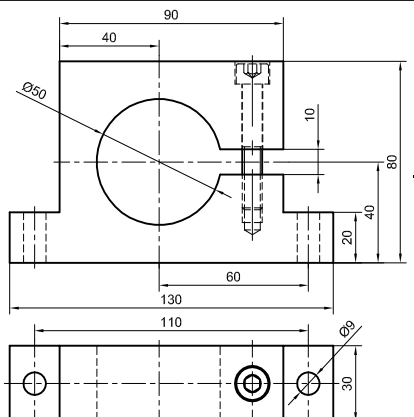


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

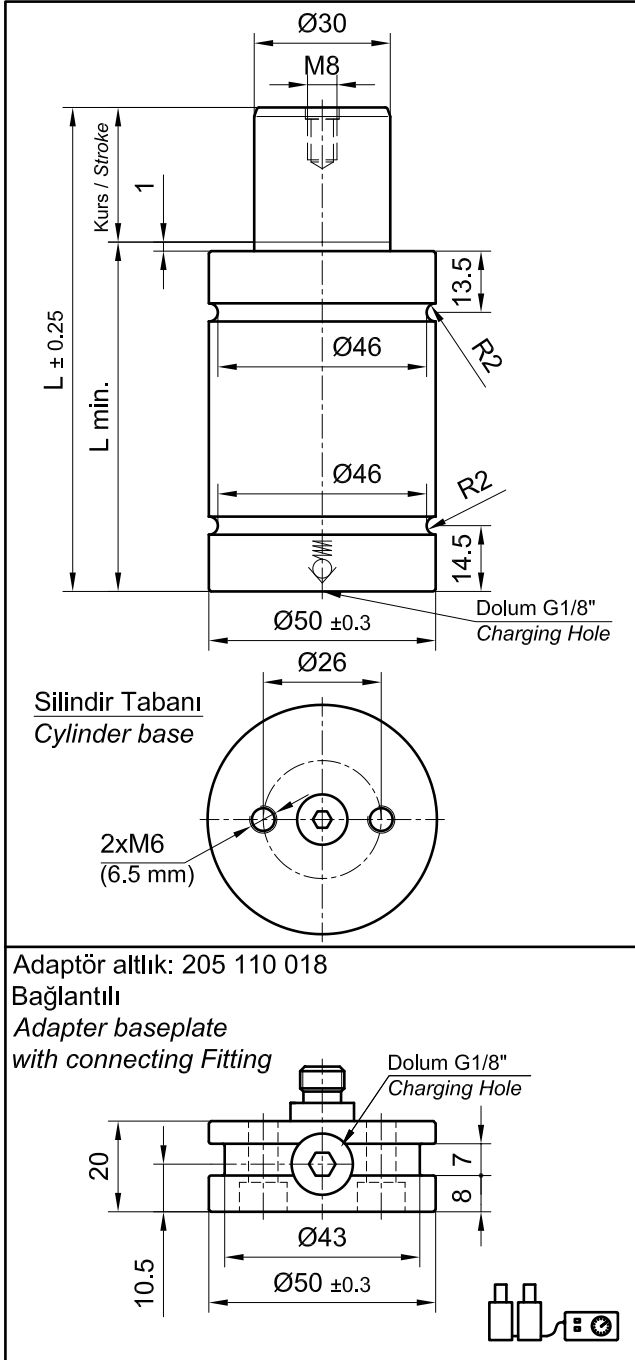
**65 KO 1000 - 06**

— Kurs (mm)  
Stroke  
— F<sub>0</sub> (daN)  
— Tip  
Type

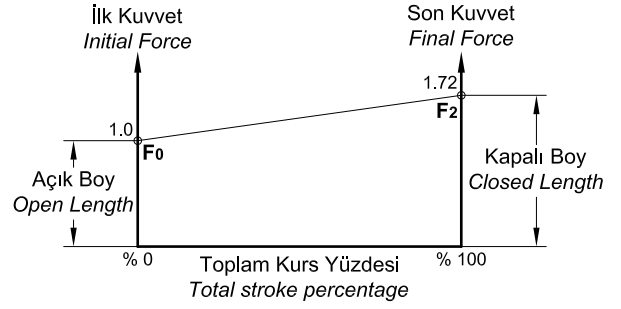
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 1000 - 06	6	61	55	150 25	1000	1800
65 KO 1000 - 10	10	78	68			
65 KO 1000 - 16	16	100	84			
65 KO 1000 - 25	25	135	110			
65 KO 1000 - 32	32	167	135			
65 KO 1000 - 40	40	195	155			
65 KO 1000 - 50	50	230	180			

<p>50 205 100 537</p>  <p>ISO 11901-2 TİP C</p>	<p>50 205 100 240</p>  <p>ISO 11901-2 TİP B</p>	
	<p>50 205 100 630</p>  <p>ISO 11901-2 TİP C2</p>	<p>50 205 100 840</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>

1800 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)



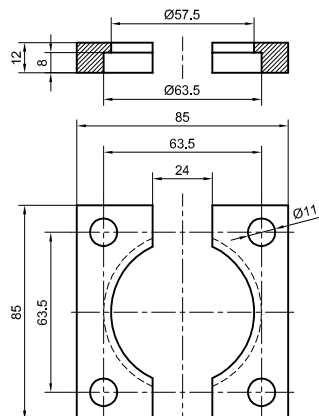
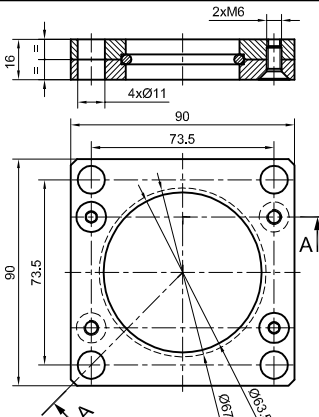
### SİPARİŞ ÖRNEĞİ

### ORDERING EXAMPLE

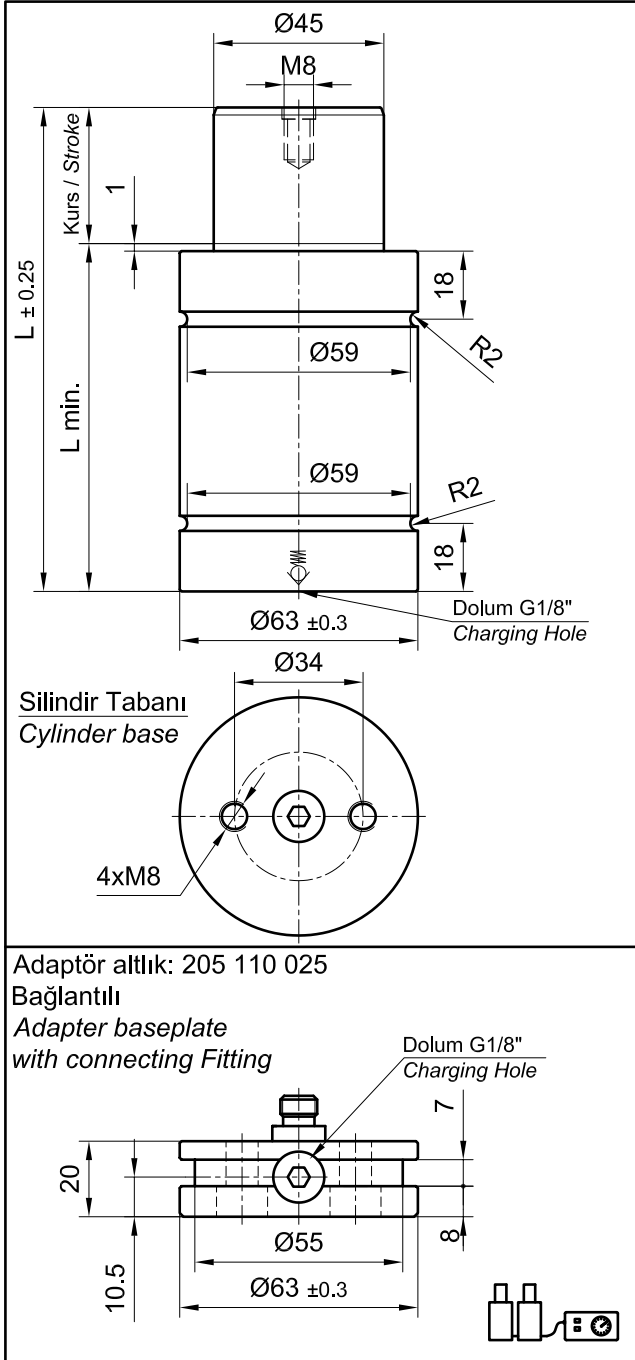
65 KO 1800 - 06

Kurs (mm)  
StrokeF<sub>0</sub> (daN)Tip  
Type

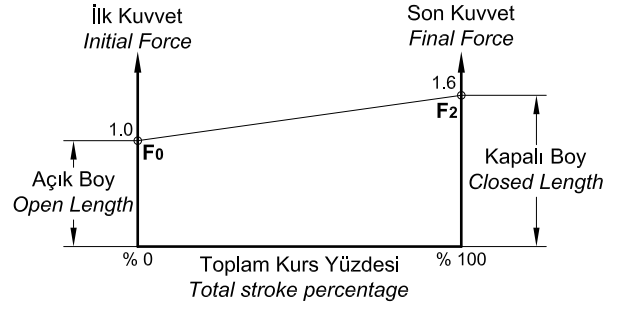
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 1800 - 06	6	66	60	150 25	1800	3100
65 KO 1800 - 10	10	80	70			
65 KO 1800 - 16	16	106	90			
65 KO 1800 - 25	25	135	110			
65 KO 1800 - 32	32	162	130			
65 KO 1800 - 40	40	190	150			
65 KO 1800 - 50	50	220	170			

	<p>63 205 100 250</p> 	
	<p>63 205 100 640</p> 	

3000 daN



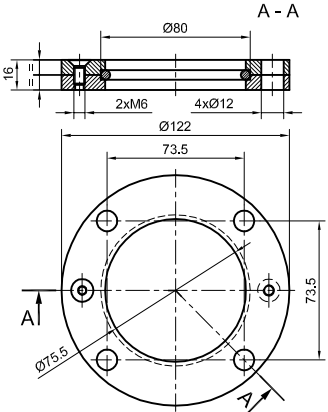
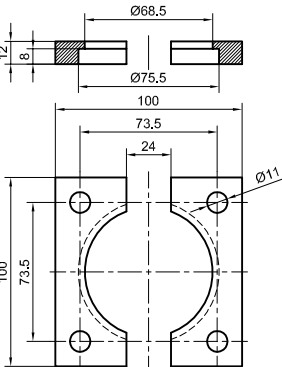
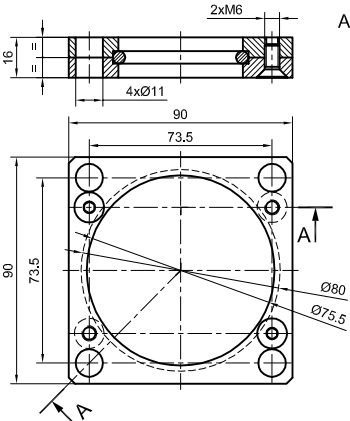
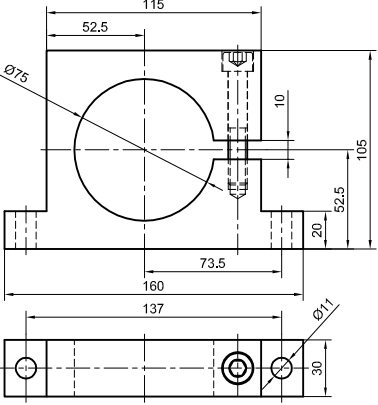
Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)


**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

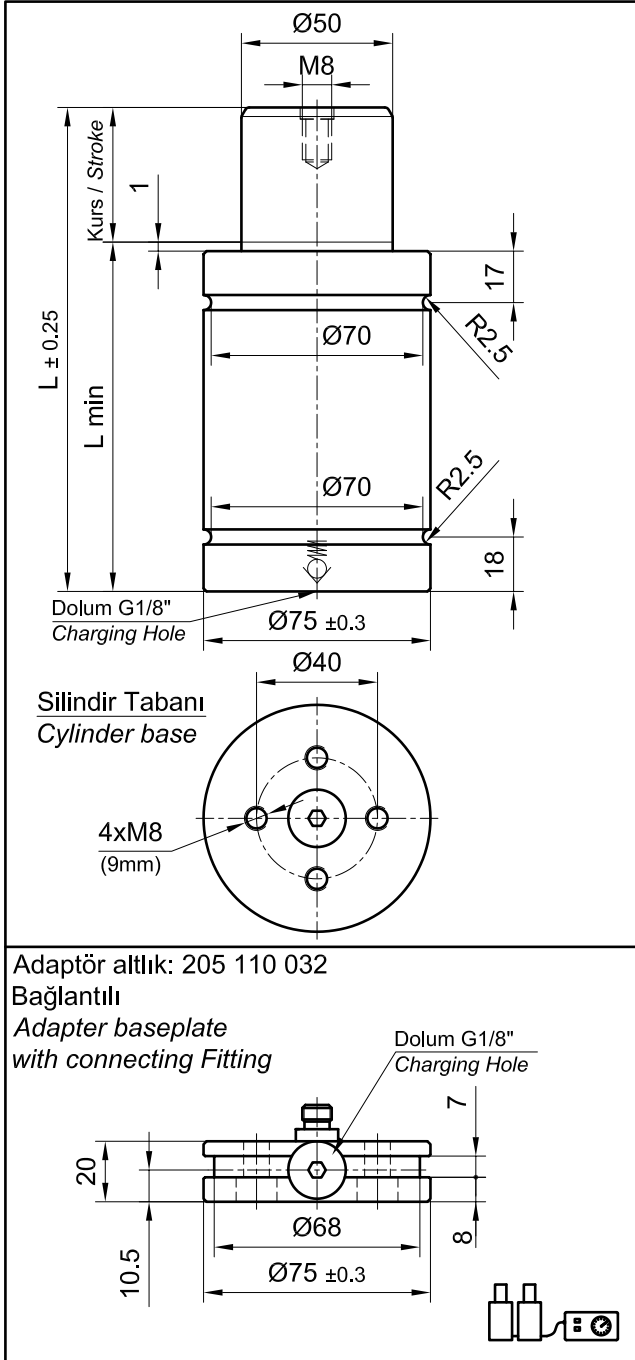
65 KO 3000 - 10

Kurs (mm)  
StrokeF<sub>0</sub> (daN)Tip  
Type

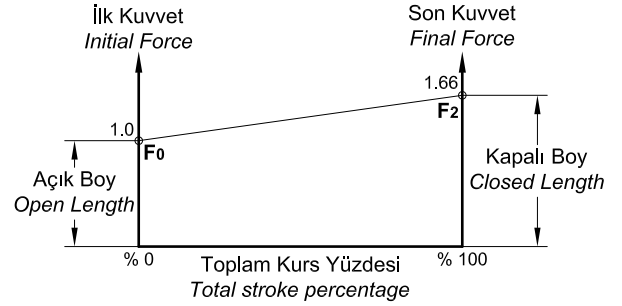
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 3000 - 10	10	85	75	150 25	3000	4800
65 KO 3000 - 16	16	103	87			
65 KO 3000 - 25	25	130	105			
65 KO 3000 - 32	32	150	118			
65 KO 3000 - 40	40	175	135			
65 KO 3000 - 50	50	205	155			

<p>75 205 100 555</p>  <p>ISO 11901-2 TIP C</p>	<p>75 205 100 260</p>  <p>ISO 11901-2 TIP B</p>	
	<p>75 205 100 650</p>  <p>ISO 11901-2 TIP C2</p>	<p>75 205 100 860</p>  <p>ISO 11901-2-VDI 3003 TIP D</p>

## 4700 daN



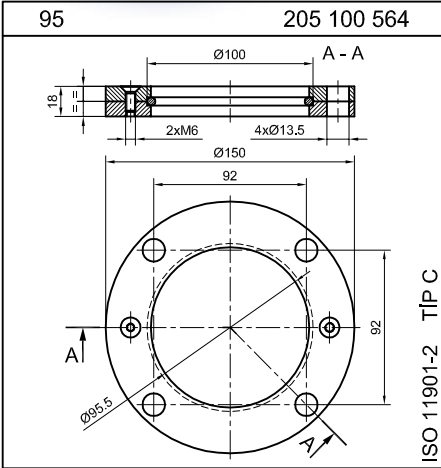
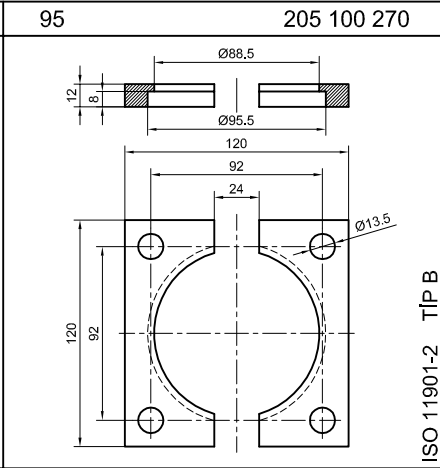
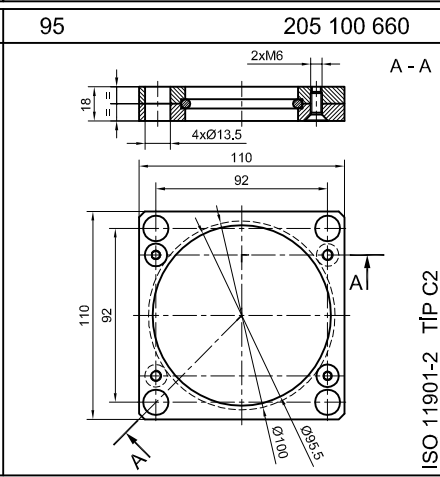
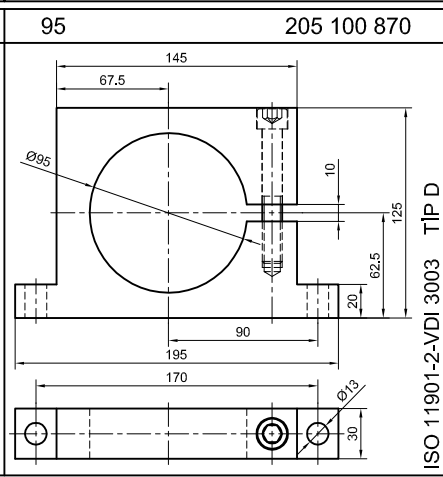
Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

SIPARIŞ ÖRNEĞİ  
ORDERING EXAMPLE

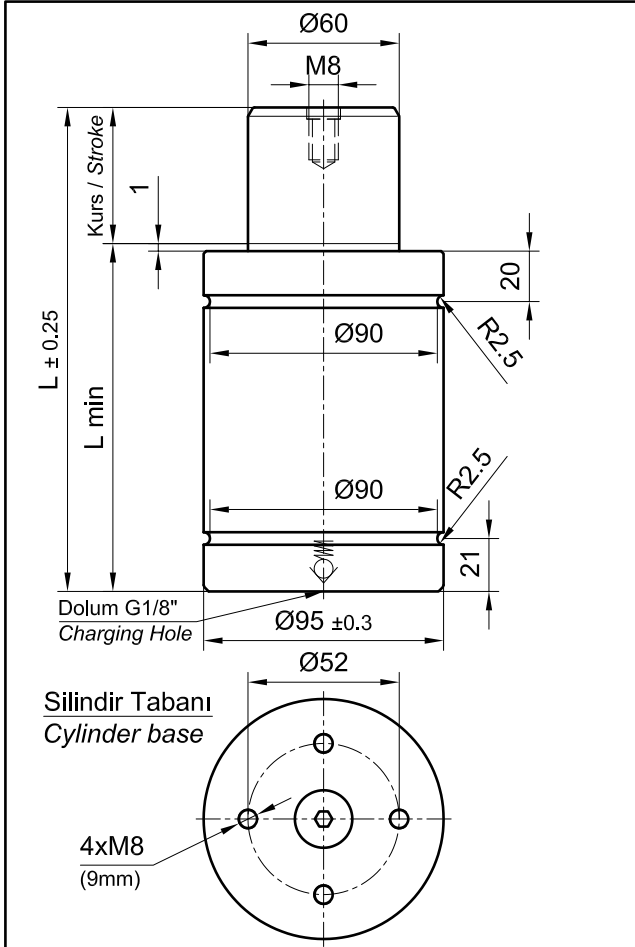
65 KO 4700 - 10

Kurs (mm)  
StrokeF<sub>0</sub> (daN)Tip  
Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 4700 - 10	10	80	70	150 25	4700	7800
65 KO 4700 - 16	16	106	90			
65 KO 4700 - 25	25	135	110			
65 KO 4700 - 32	32	167	135			
65 KO 4700 - 40	40	200	160			
65 KO 4700 - 50	50	240	190			

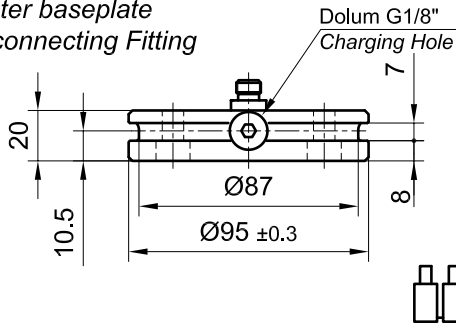
<p>95 205 100 564</p>  <p>ISO 11901-2 TIP C</p>	<p>95 205 100 270</p>  <p>ISO 11901-2 TIP B</p>	
	<p>95 205 100 660</p>  <p>ISO 11901-2 TIP C2</p>	<p>95 205 100 870</p>  <p>ISO 11901-2-VDI 3003 TIP D</p>

7500 daN

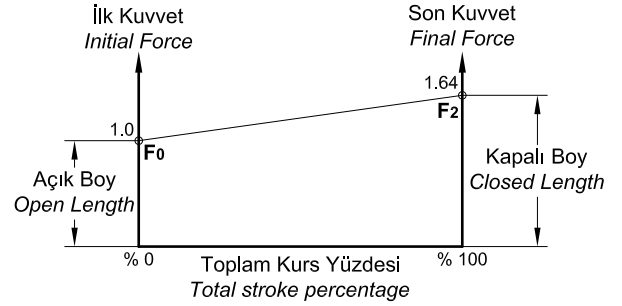


Adaptör altlık: 205 110 039

Bağlantılı

Adapter baseplate  
with connecting fitting

Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolum basıncı Max. filling pressure	: 150 bar
Min. dolum basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

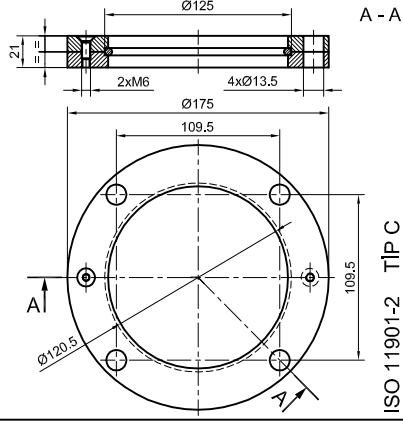
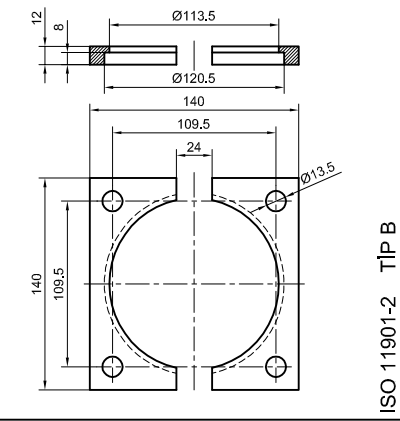
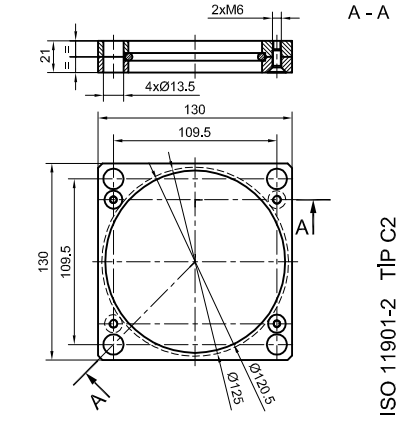
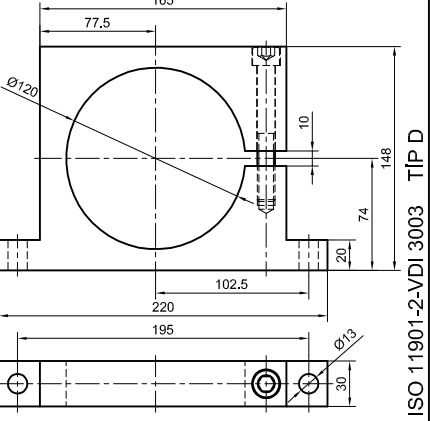


### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

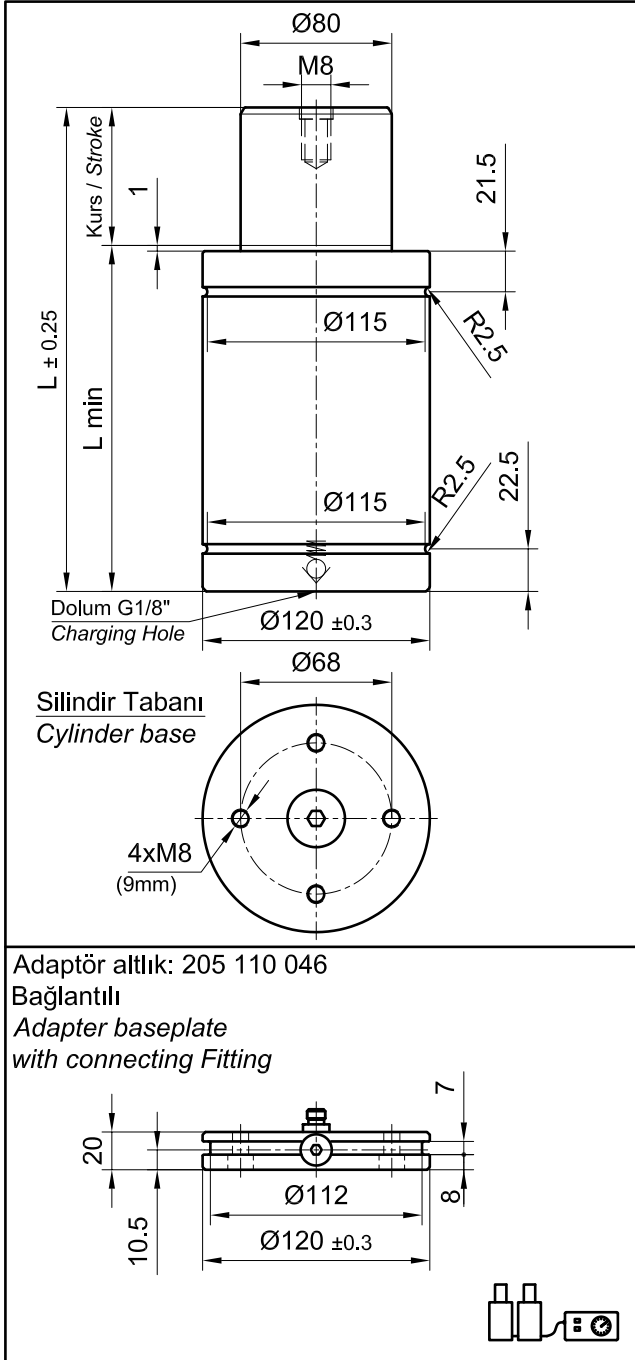
65 KO 7500 - 10

Kurs (mm)  
StrokeF<sub>0</sub> (daN)Tip  
Type

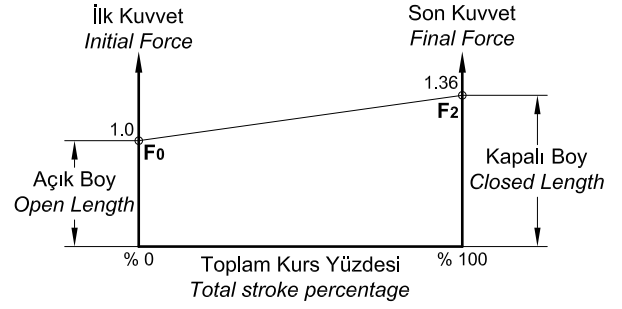
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 7500 - 10	10	90	80	150 25	7500	12300
65 KO 7500 - 16	16	116	100			
65 KO 7500 - 25	25	145	120			
65 KO 7500 - 32	32	182	150			
65 KO 7500 - 40	40	210	170			
65 KO 7500 - 50	50	255	205			

<p>120 205 100 573</p>  <p>ISO 11901-2 TYP C</p>	<p>120 205 100 280</p>  <p>ISO 11901-2 TYP B</p>	
	<p>120 205 100 670</p>  <p>ISO 11901-2 TYP C2</p>	<p>120 205 100 880</p>  <p>ISO 11901-2-VDI 3003 TYP D</p>

11800 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

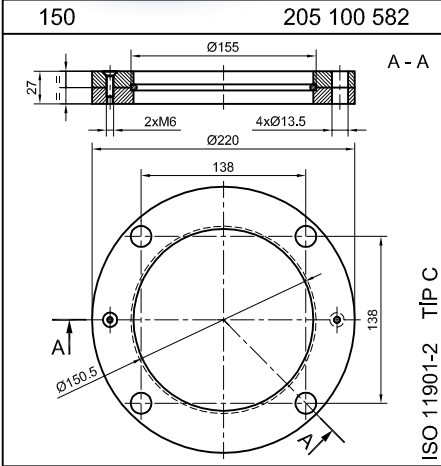
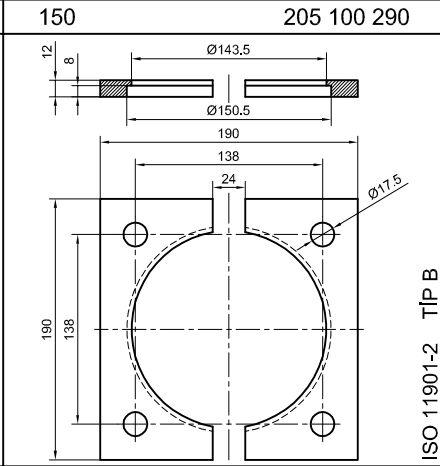
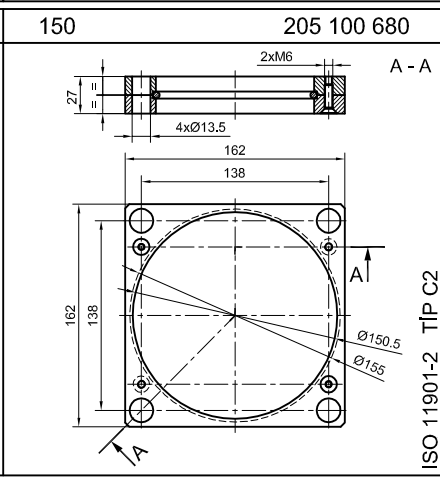
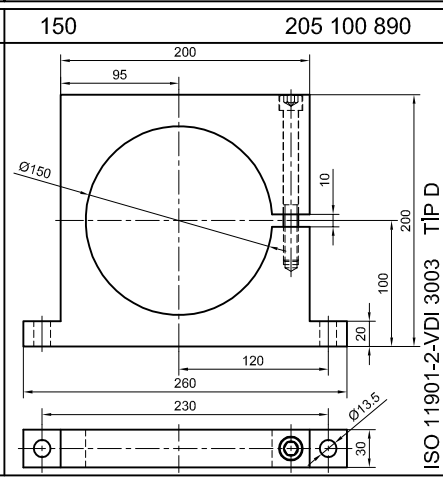


### SİPARİŞ ÖRNEĞİ ORDERING EXAMPLE

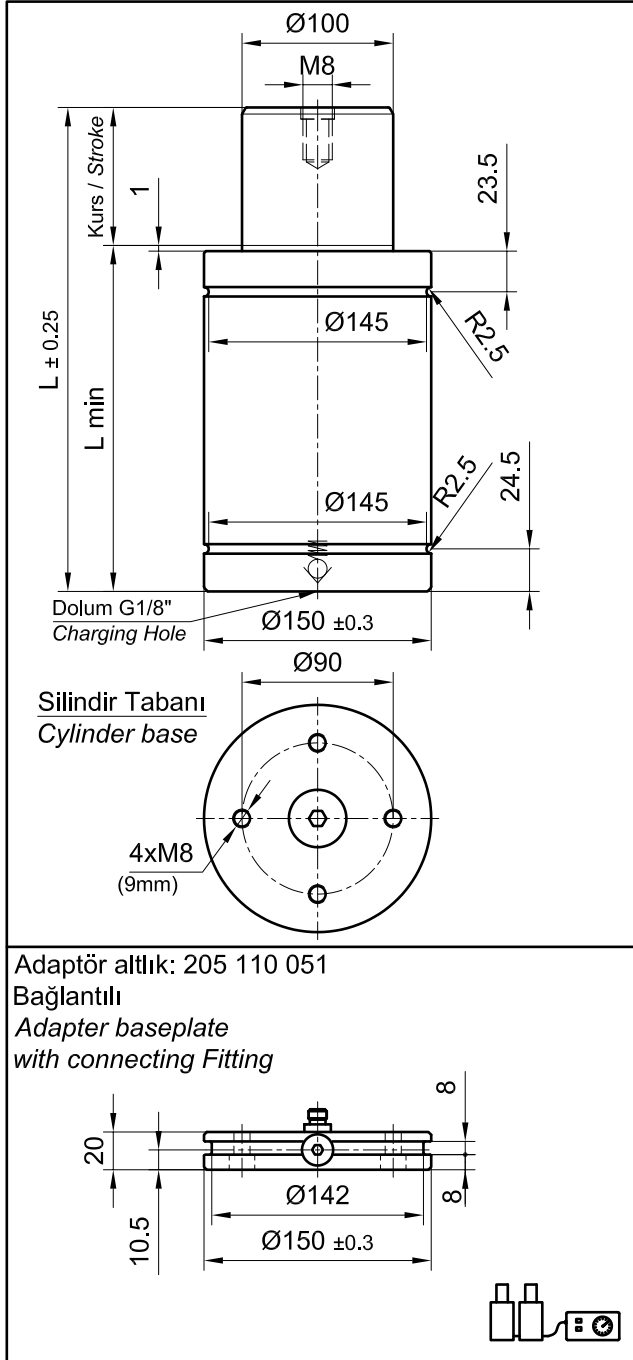
65 KO 11800 - 10

Kurs (mm)  
StrokeF<sub>0</sub> (daN)Tip  
Type

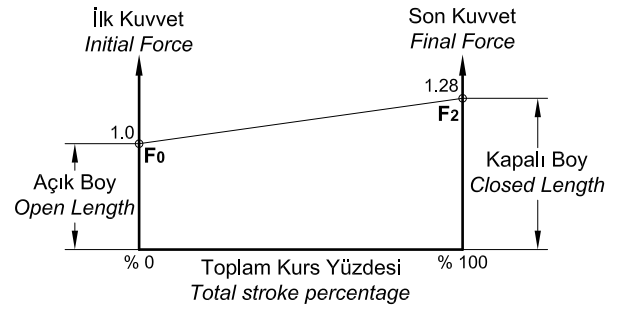
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 11800 - 10	10	100	90	150 25	11800	16000
65 KO 11800 - 16	16	126	110			
65 KO 11800 - 25	25	155	130			
65 KO 11800 - 32	32	187	155			
65 KO 11800 - 40	40	220	180			
65 KO 11800 - 50	50	260	210			

<p>150 205 100 582</p>  <p>A - A</p> <p>ISO 11901-2 TİP C</p>	<p>150 205 100 290</p>  <p>ISO 11901-2 TİP B</p>	
	<p>150 205 100 680</p>  <p>A - A</p> <p>ISO 11901-2 TİP C2</p>	<p>150 205 100 890</p>  <p>ISO 11901-2-VDI 3003 TİP D</p>

## 18300 daN



Dolum gaz Pressure medium	: Azot N <sub>2</sub> : Nitrogen N <sub>2</sub>
Maks. dolun basıncı Max. filling pressure	: 150 bar
Min. dolun basıncı Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) Max. recommended cycles per minute	: 80 ÷ 100 tur/dak. (20 °C'de) : approx. 80 to 100 (at 20 °C)

SİPARİŞ ÖRNEĞİ  
ORDERING EXAMPLE

65 KO 18300 - 10

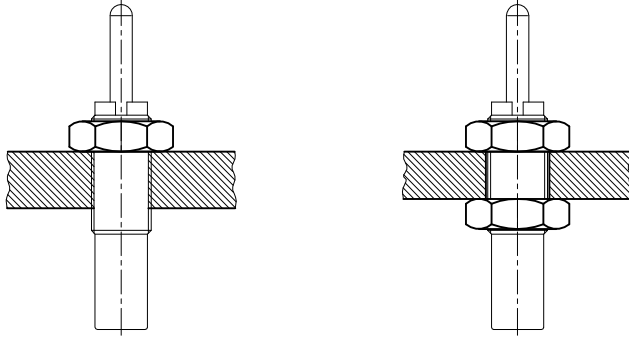
— Kurs (mm)  
Stroke

— F<sub>0</sub> (daN)

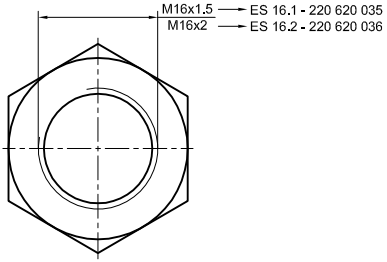
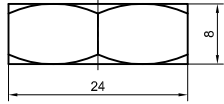
— Tip  
Type

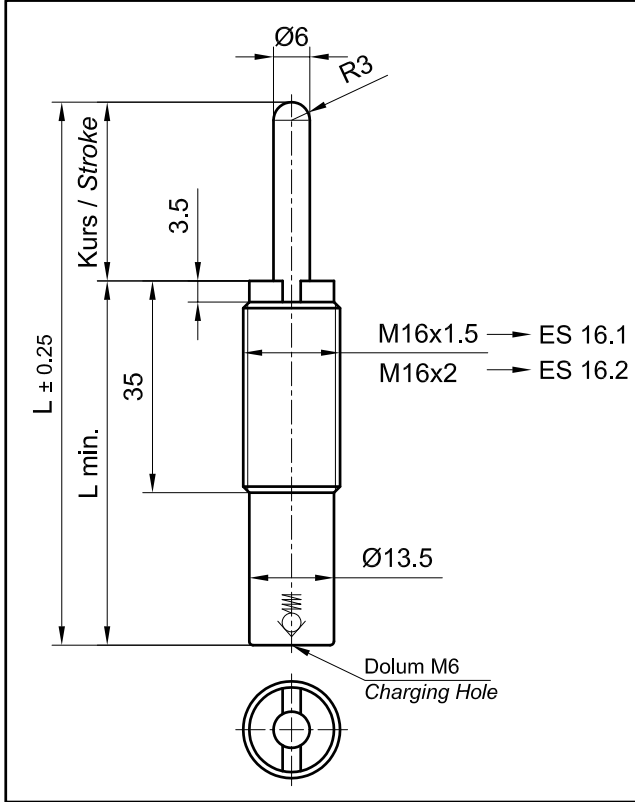
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	P-bar max./min.	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
65 KO 18300 - 10	10	110	100	150 25	18300	23500
65 KO 18300 - 16	16	136	120			
65 KO 18300 - 25	25	165	140			
65 KO 18300 - 32	32	197	165			
65 KO 18300 - 40	40	235	195			
65 KO 18300 - 50	50	270	220			

Montaj Örneği  
 Mounting Example



16





Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolun basıncı / Max. filling pressure	: 180 bar
Min. dolun basıncı / Min. filling pressure	: 20 bar
Çalışma ortam sıcaklığı / Working temperature	: 0 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variation	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 100 tur/dak. (20 °C'de) / approx. 100 (at 20 °C)

**SİPARİŞ ÖRNEĞİ**  
**ORDERING EXAMPLE**

**65 ES 16.1 - 03 - 06**

— Kurs (mm) / Stroke  
— F<sub>0</sub> (daN)  
— Tip / Type

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 ES 16.1 - . . - 010	10	80	70
65 ES 16.1 - . . - 020	20	100	80
65 ES 16.1 - . . - 030	30	120	90
65 ES 16.1 - . . - 040	40	140	100
65 ES 16.1 - . . - 050	50	160	110
65 ES 16.1 - . . - 060	60	180	120
65 ES 16.1 - . . - 070	70	200	130
65 ES 16.1 - . . - 080	80	220	140
65 ES 16.1 - . . - 100	100	260	160

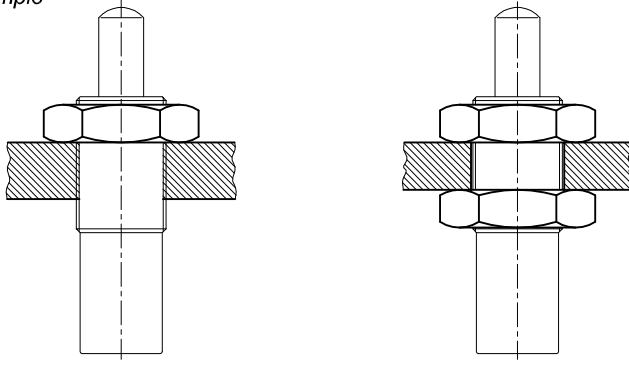
Yay kuvveti / Spring force

P bar	F <sub>0</sub> daN					Müşteri talep ederse, SIFIR basınçta gönderilir On request without pressure
10	3	6	11	21	42	
20						
40						
75						
150						
0						
	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black
	03	06	11	21	42	00

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 ES 16.2 - . . - 010	10	80	70
65 ES 16.2 - . . - 020	20	100	80
65 ES 16.2 - . . - 030	30	120	90
65 ES 16.2 - . . - 040	40	140	100
65 ES 16.2 - . . - 050	50	160	110
65 ES 16.2 - . . - 060	60	180	120
65 ES 16.2 - . . - 070	70	200	130
65 ES 16.2 - . . - 080	80	220	140
65 ES 16.2 - . . - 100	100	260	160

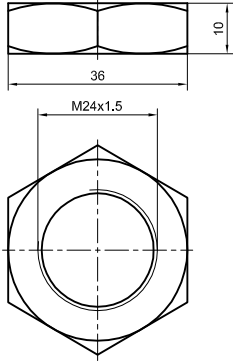
P bar	F <sub>0</sub> daN					Müşteri talep ederse, SIFIR basınçta gönderilir On request without pressure
10	3	6	11	21	42	
20						
40						
75						
150						
0						
	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black
	03	06	11	21	42	00

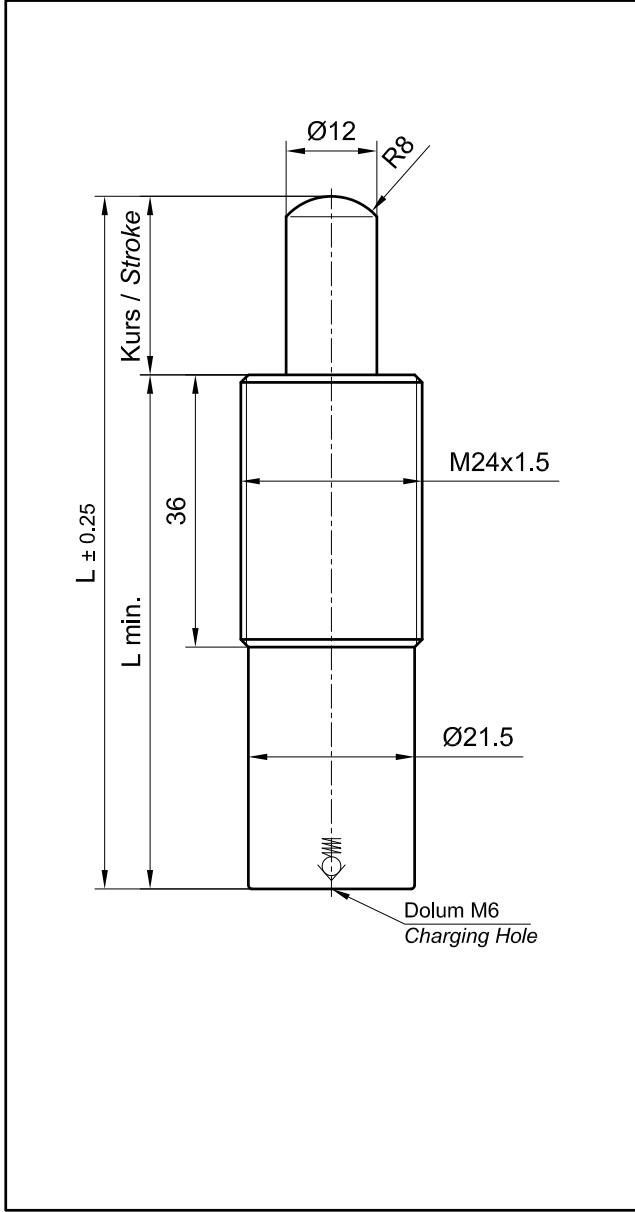
Montaj Örneği  
 Mounting Example



24

220 620 055





Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 10 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 30÷80 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 30 to 80 (at 20 °C)

SIPARIŞ ÖRNEĞİ	
ORDERING EXAMPLE	
65 ES 24 - 010 - 007	
	Kurs (mm)
	Stroke
	F <sub>0</sub> (daN)
	Tip
	Type

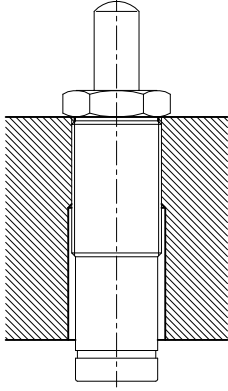
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 ES 24 - . . . - 010	10	80	70
65 ES 24 - . . . - 020	20	100	80
65 ES 24 - . . . - 030	30	120	90
65 ES 24 - . . . - 040	40	140	100
65 ES 24 - . . . - 050	50	160	110
65 ES 24 - . . . - 060	60	180	120
65 ES 24 - . . . - 070	70	200	130
65 ES 24 - . . . - 080	80	220	140
65 ES 24 - . . . - 100	100	260	160

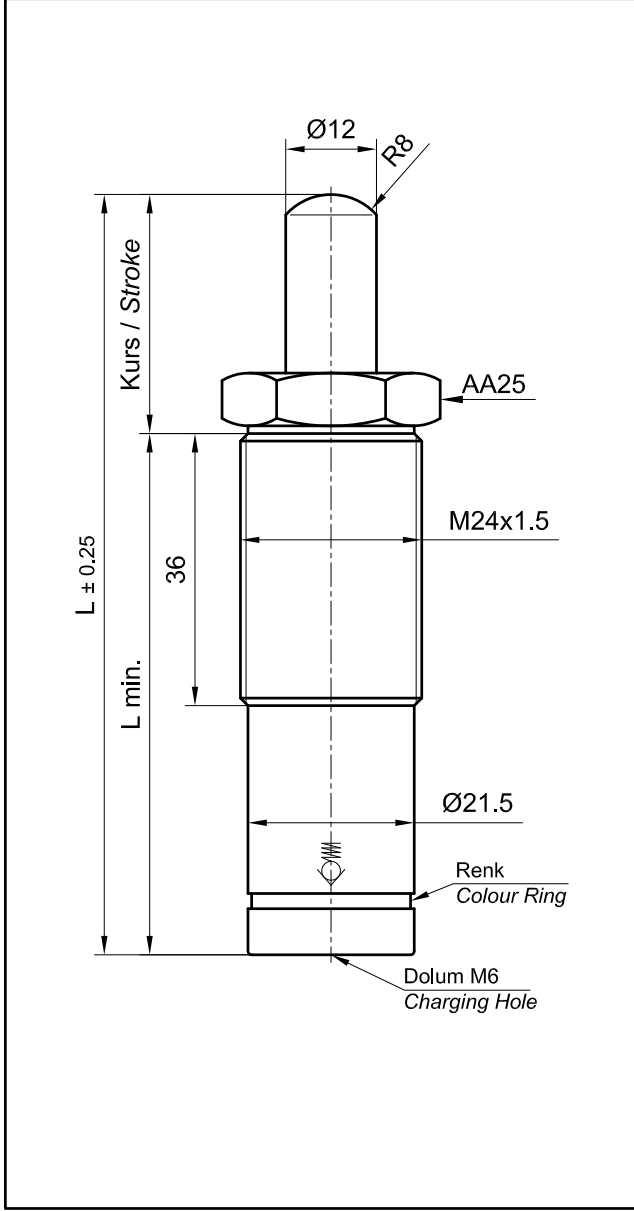
Yay kuvveti / Spring force

P bar	F <sub>0</sub> daN					Müşteri talep ederse, SIFIR basınçta gönderilir On request without pressure
10	11					
20		23				
40			45			
75				85		
150					170	
0						
	Pembe Pink	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

011	023	045	085	170	000
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Montaj Örneği  
Mounting Example





Dolum gaz	: Azot N <sub>2</sub>
Pressure medium	: Nitrogen N <sub>2</sub>
Maks. dolum basıncı	: 150 bar
Max. filling pressure	
Min. dolum basıncı	: 10 bar
Min. filling pressure	
Çalışma ortam sıcaklığı	: 0 °C ile +80 °C
Working temperature	
Sıcaklığa bağlı kuvvet değişimi	: ± % 0.3 / °C
Temperature related force variation	
Tavsiye edilen çalışma (maks.)	: 30 ÷ 80 tur/dak. (20 °C'de)
Max. recommended cycles per minute	: approx. 30 to 80 (at 20 °C)

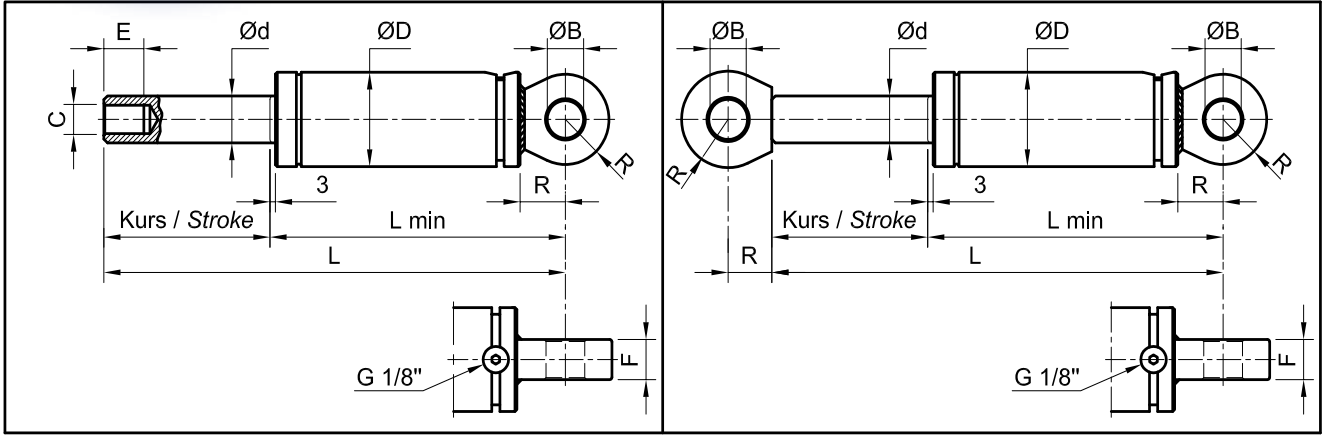
<b>SİPARİŞ ÖRNEĞİ</b>	
<b>ORDERING EXAMPLE</b>	
<b>65 ES 24A - 010 - 007</b>	
Kurs (mm)	Stroke
F <sub>0</sub> (daN)	Tip
Type	

Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm
65 ES 24A - . . - 010	10	80	70
65 ES 24A - . . - 016	16	92	76
65 ES 24A - . . - 020	20	100	80
65 ES 24A - . . - 025	25	110	85
65 ES 24A - . . - 030	30	120	90
65 ES 24A - . . - 038	38	136	98
65 ES 24A - . . - 040	40	140	100
65 ES 24A - . . - 050	50	160	110
65 ES 24A - . . - 060	60	180	120
65 ES 24A - . . - 070	70	200	130
65 ES 24A - . . - 080	80	220	140
65 ES 24A - . . - 100	100	260	160

**Yay kuvveti / Spring force**

P bar	F <sub>0</sub> daN				Müşteri talep ederse, SIFIR basıncıta gönderilir On request without pressure
20	23	45	85	170	
40					
75					
150					
0					
	Yeşil Green	Mavi Blue	Kırmızı Red	Sarı Yellow	Siyah Black

023	045	085	170	000
-----	-----	-----	-----	-----

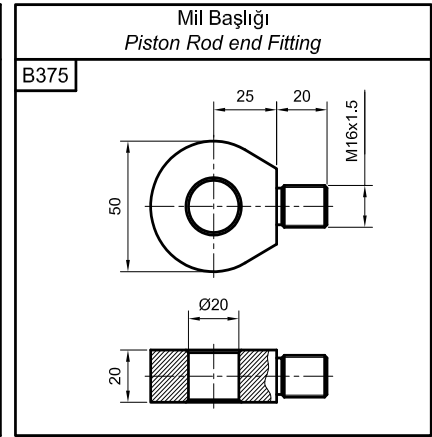


**SİPARİŞ ÖRNEĞİ / ORDERING EXAMPLE**  
LKD1 750 - 013

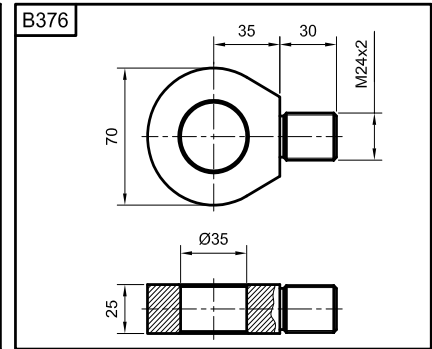
**SİPARİŞ ÖRNEĞİ / ORDERING EXAMPLE**  
LKD1 750 - 013 - B375

Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolun basıncı / Max. filling pressure	: 150 bar
Min. dolun basıncı / Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı / Working temperature	: 20 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variati	: ± % 0.3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) / approx. 15 to 40 (at 20 °C)

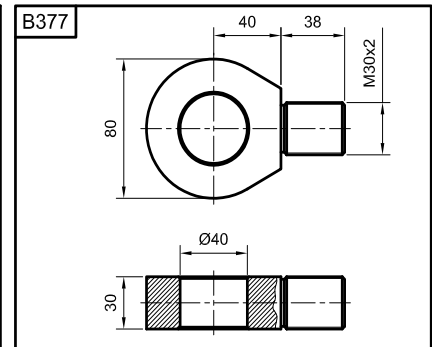
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	Ød	ØD	ØB	C	E	F	R	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
LKD1 750-013	13	145.4	132.7									1200
LKD1 750-025	25	170	145									1200
LKD1 750-038	38	196	158									1200
LKD1 750-050	50	220	170									1200
LKD1 750-063	63	247	183.5									1200
LKD1 750-080	80	280	200									1200
LKD1 750-100	100	320	220	25	50	20	M16x1.5	22	20	25	740	1200
LKD1 750-125	125	370	245									1210
LKD1 750-160	160	440	280									1210
LKD1 750-200	200	520	320									1210
LKD1 750-250	250	620	370									1210
LKD1 750-300	300	720	420									1210

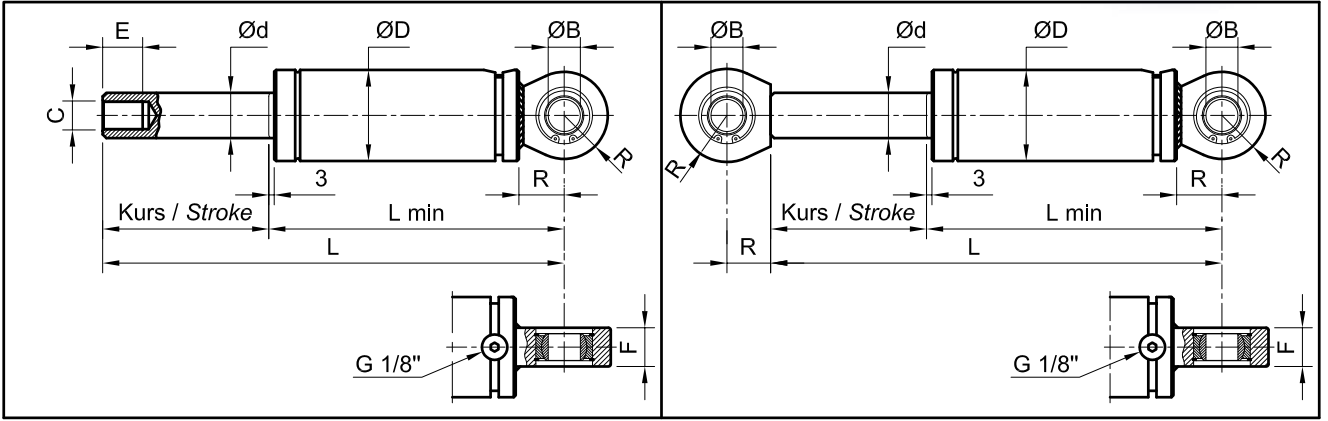


LKD1 1500-025	25	195	170									2300
LKD1 1500-038	38	221	183									2300
LKD1 1500-050	50	245	195									2300
LKD1 1500-063	63	272	208.5									2300
LKD1 1500-080	80	305	225									2300
LKD1 1500-100	100	345	245	36	75	35	M24x2	32	25	35	1500	2300
LKD1 1500-125	125	395	270									2300
LKD1 1500-160	160	465	305									2300
LKD1 1500-200	200	545	345									2300
LKD1 1500-250	250	645	395									2300
LKD1 1500-300	300	745	445									2300



LKD1 3000-025	25	210	185									4200
LKD1 3000-038	38	236	198									4300
LKD1 3000-050	50	260	210									4400
LKD1 3000-063	63	287	223.5									4500
LKD1 3000-080	80	280	240									4600
LKD1 3000-100	100	360	260	50	95	40	M30x2	40	30	40	3000	4700
LKD1 3000-125	125	410	285									4700
LKD1 3000-160	160	480	320									4700
LKD1 3000-200	200	560	360									4800
LKD1 3000-250	250	660	410									4800
LKD1 3000-300	300	760	460									4800



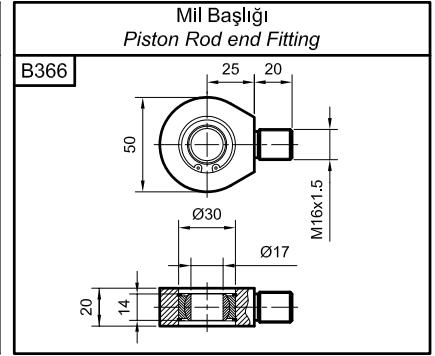


**SİPARİŞ ÖRNEĞİ / ORDERING EXAMPLE**  
LKD2 750 - 013

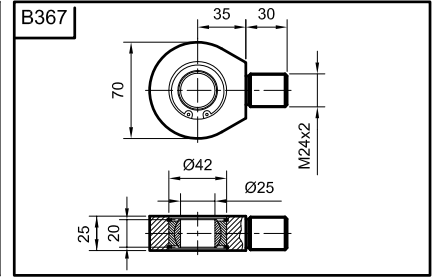
**SİPARİŞ ÖRNEĞİ / ORDERING EXAMPLE**  
LKD2 750 - 013 - B366

Dolum gaz / Pressure medium	: Azot N <sub>2</sub> / Nitrogen N <sub>2</sub>
Maks. dolum basıncı / Max. filling pressure	: 150 bar
Min. dolum basıncı / Min. filling pressure	: 25 bar
Çalışma ortam sıcaklığı / Working temperature	: 20 °C ile +80 °C
Sıcaklığa bağlı kuvvet değişimi / Temperature related force variatio	: ± % 0,3 / °C
Tavsiye edilen çalışma (maks.) / Max. recommended cycles per minute	: 15÷40 tur/dak. (20 °C'de) / approx. 15 to 40 (at 20 °C)

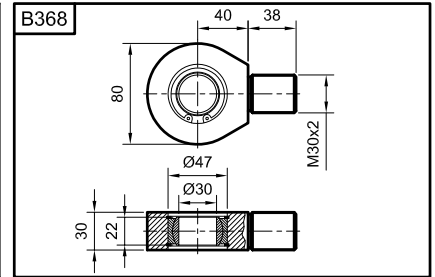
Kod No. Part Nr.	Kurs mm Stroke	L mm	L min. mm	Ød	ØD	ØB	C	E	F	R	F <sub>0</sub> daN-max.	F <sub>2</sub> daN
LKD2 750-013	13	145.4	132.7	25	50	20	M16x1.5	22	20	25	740	1200
LKD2 750-025	25	170	145									1200
LKD2 750-038	38	196	158									1200
LKD2 750-050	50	220	170									1200
LKD2 750-063	63	247	183.5									1200
LKD2 750-080	80	280	200									1200
LKD2 750-100	100	320	220									1200
LKD2 750-125	125	370	245									1210
LKD2 750-160	160	440	280									1210
LKD2 750-200	200	520	320									1210
LKD2 750-250	250	620	370									1210
LKD2 750-300	300	720	420									1210



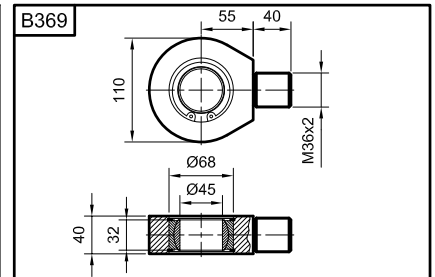
LKD2 1500-025	25	195	170	36	75	35	M24x2	32	25	35	1500	2300
LKD2 1500-038	38	221	183									2300
LKD2 1500-050	50	245	195									2300
LKD2 1500-063	63	272	208.5									2300
LKD2 1500-080	80	305	225									2300
LKD2 1500-100	100	345	245									2300
LKD2 1500-125	125	395	270									2300
LKD2 1500-160	160	465	305									2300
LKD2 1500-200	200	545	345									2300
LKD2 1500-250	250	645	395									2300
LKD2 1500-300	300	745	445									2300



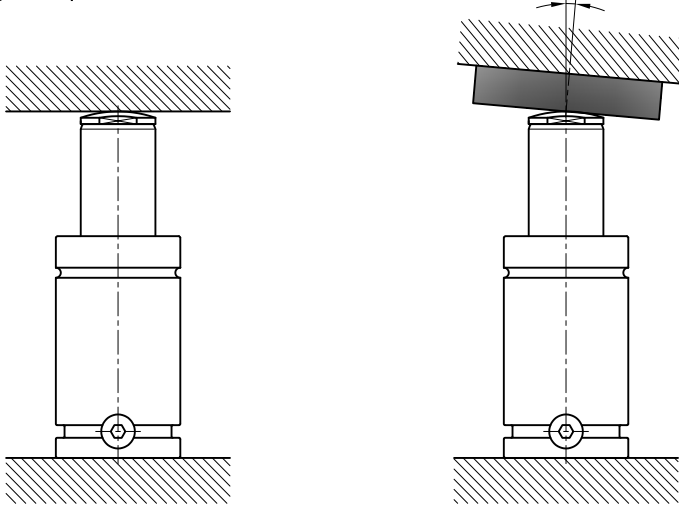
LKD2 3000-025	25	210	185	50	95	40	M30x2	40	30	40	3000	4200
LKD2 3000-038	38	236	198									4300
LKD2 3000-050	50	260	210									4400
LKD2 3000-063	63	287	223.5									4500
LKD2 3000-080	80	280	240									4600
LKD2 3000-100	100	360	260									4700
LKD2 3000-125	125	410	285									4700
LKD2 3000-160	160	480	320									4700
LKD2 3000-200	200	560	360									4800
LKD2 3000-250	250	660	410									4800
LKD2 3000-300	300	760	460									4800



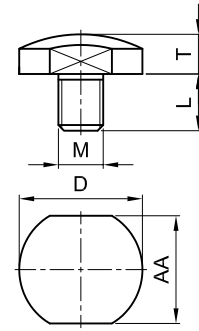
LKD2 5000-025	25	245	220	65	120	45	M36x2	43	40	55	5000	7100
LKD2 5000-038	38	271	233									7500
LKD2 5000-050	50	295	245									7700
LKD2 5000-063	63	322	258.5									8000
LKD2 5000-080	80	355	275									8100
LKD2 5000-100	100	395	295									8200
LKD2 5000-125	125	445	320									8200
LKD2 5000-160	160	515	355									8300
LKD2 5000-200	200	595	395									8400
LKD2 5000-250	250	695	445									8400
LKD2 5000-300	300	795	495									8400



Montaj Örneği  
Mounting Example

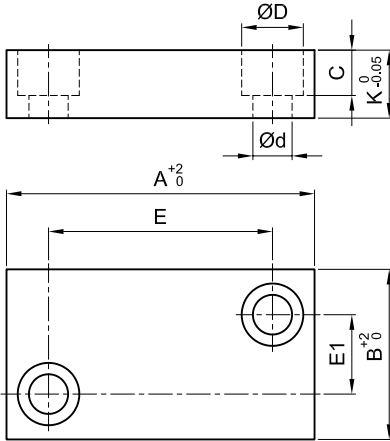


Sert Başlık / Impact Unit

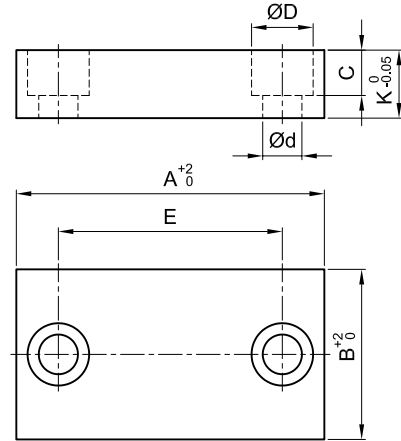


Kod No. Part Nr.	L	T	D	AA	M
205 101 700	9	6	Ø20	17	M6
205 101 710	11	6	Ø22.5	19	M8
205 101 720	10	5	Ø15	12	M8
205 101 730	13	10	Ø30	26	M8
205 101 740	16	10	Ø40	36	M8

Sert Plaka / Thrust Plate



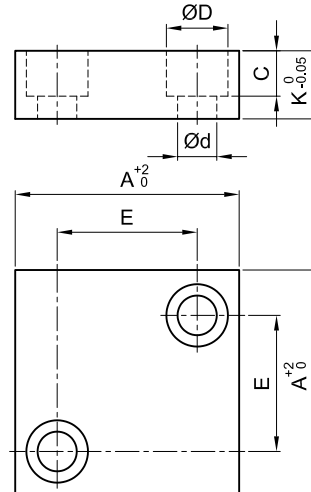
Kod No. Part Nr.	Mil Ø Rod Ø (max.)	A	B	K	E	E1	ØD	Ød	C
205 101 800	Ø15	50	25	12	32	8	11	7	8
205 101 805	Ø20	55	30	12	40	14	11	7	8
205 101 810	Ø25	70	35	15	48	14	15	9	10
205 101 815	Ø36	75	50	15	56	30	15	9	10
205 101 820	Ø50	85	60	15	66	40	15	9	10
205 101 825	Ø65	100	80	20	72	56	18	11	12
205 101 830	Ø80	110	100	20	85	75	18	11	12



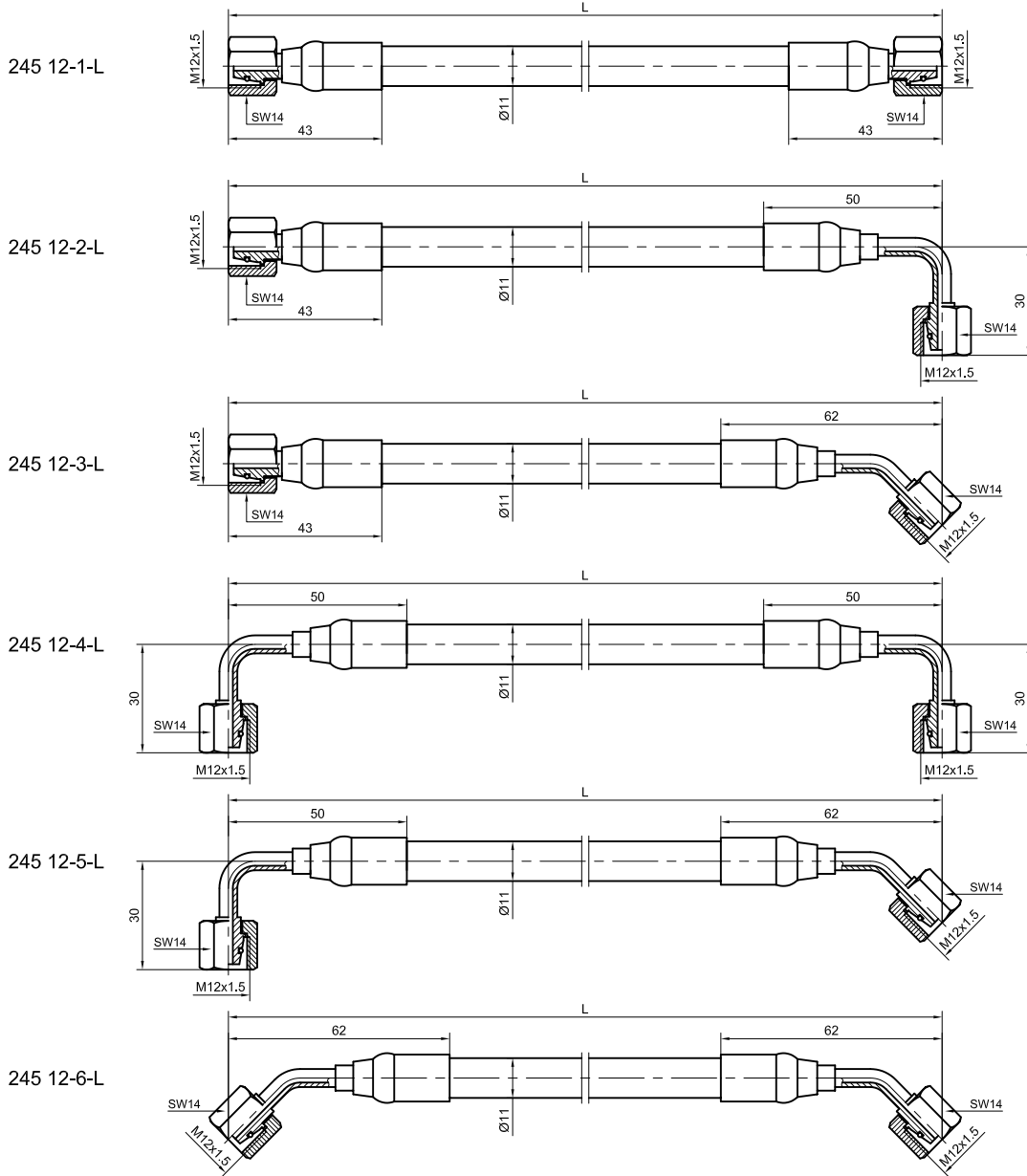
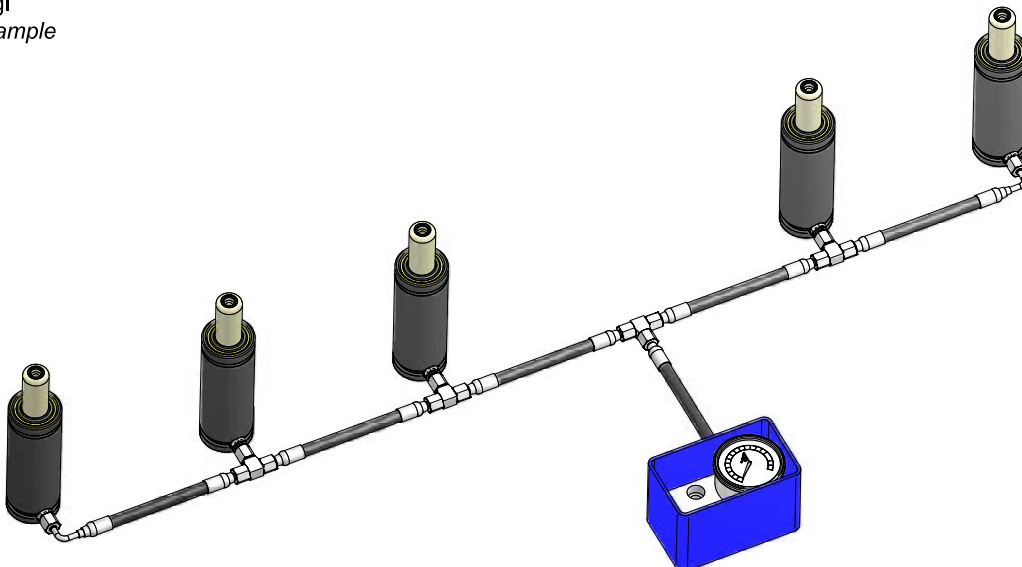
Kod No. Part Nr.	Mil Ø Rod Ø (max.)	A	B	K	E	ØD	Ød	C
205 101 850	Ø20	55	32	16	37	15	9	10
205 101 855	Ø36	65	50	16	47	15	9	10
205 101 860	Ø50	80	60	16	62	15	9	10
205 101 865	Ø65	80	80	16	62	15	9	10
205 101 870	Ø80	100	100	16	82	15	9	10

Kod No. Part Nr.	Mil Ø Rod Ø (max.)	A	K	E	ØD	Ød	C
205 101 890	Ø15	40	15	21	15	9	10
* 205 101 895	Ø15	40	15	24	11	7	7
205 101 900	Ø25	56	20	32	18	11	13
205 101 905	Ø50	71	20	48	18	11	13
* 205 101 910	Ø50	70	15	50	15	9	9
205 101 915	Ø65	90	12	64	15	9	9
205 101 920	Ø80	90	20	67	18	11	13
* 205 101 925	Ø80	90	15	70	15	9	9
205 101 930	Ø100	140	20	110	18	11	13

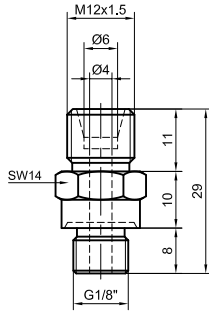
\* VDI 3003



## Hortum Bağlantı 24° Konik Rekor / Connecting Hoses With 24° Cone

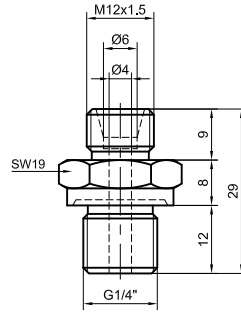
Montaj Örneği  
Mounting Example

Nipel G1/8"  
*Threaded Joint G1/8"*



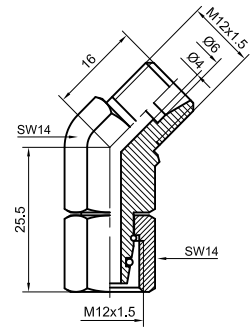
245 311 020

Nipel G1/4"  
*Threaded Joint G1/4"*



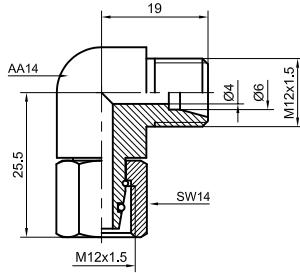
245 311 030

Somunlu DİRsek 45°  
*Swivelling Threaded Joint 45°*



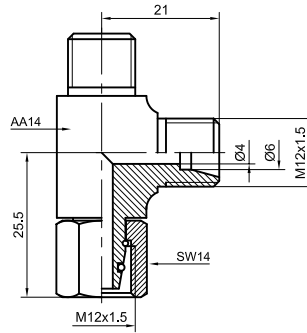
245 313 320

Somunlu DİRsek 90°  
*Swivelling Threaded Joint 90°*



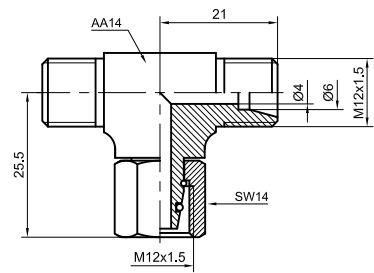
245 313 350

Somunlu L Bağlantı  
*Swivelling L-Coupling*



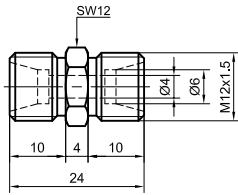
245 313 820

Somunlu T Bağlantı  
*Swivelling T-Coupling*



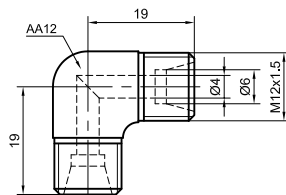
245 313 720

Ara Nipel - Hortumdan Hortuma  
*Adapter Hose to Hose*



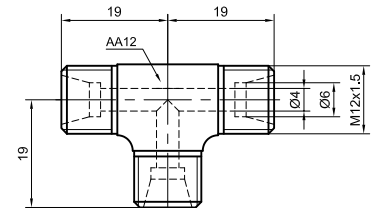
245 311 300

DİRsek 90° - Hortumdan Hortuma  
*Adapter 90° Hose to Hose*



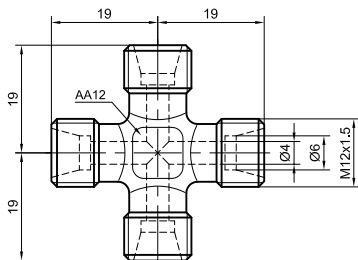
245 313 020

T Bağlantı - Hortumdan Hortuma  
*Adapter T Hose to Hose*



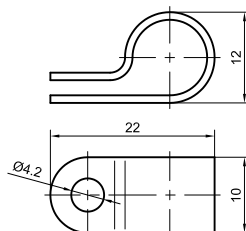
245 313 520

Kruva-K Hortumdan Hortuma  
*Adapter Kruva Hose to Hose*



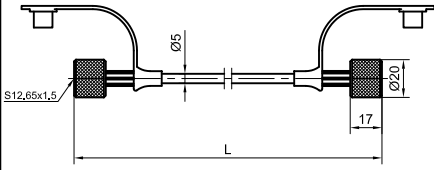
245 313 820

Hortum Kelepçesi Ø11  
*Hose Clamp Ø11*

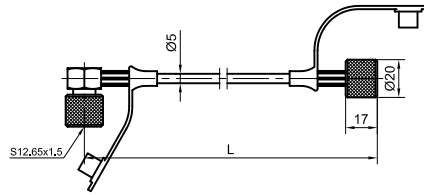


245 400 120

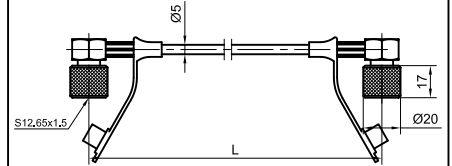
Minimes Hortum / Minimes Hose



Kod No. Part Nr.	L
245 110 050	200
245 110 070	300
245 110 090	400
245 110 110	500
245 110 130	630
245 110 150	800
245 110 170	1000
245 110 190	1200
245 110 210	1500
245 110 230	2000
245 110 250	2500
245 110 270	3000

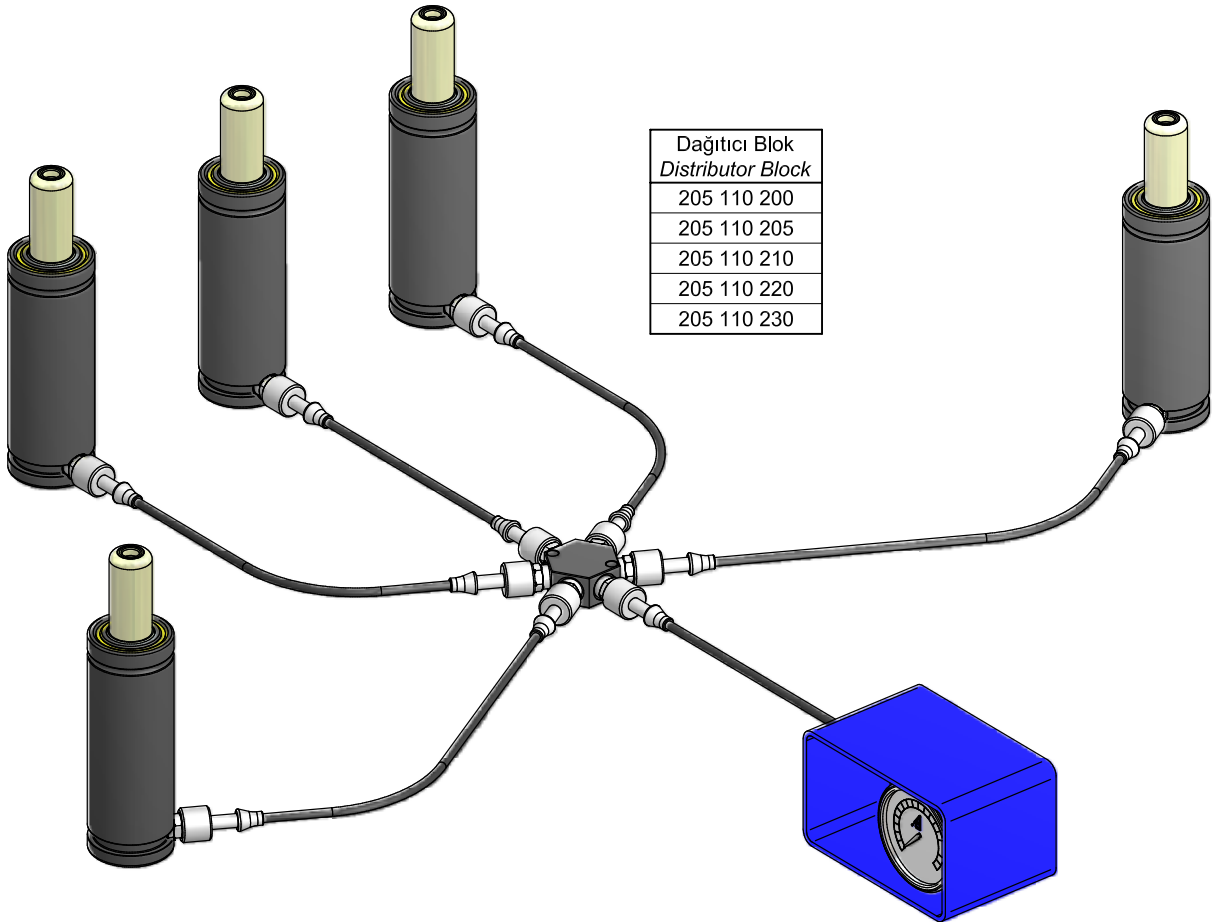


Kod No. Part Nr.	L
245 111 050	200
245 111 070	300
245 111 090	400
245 111 110	500
245 111 130	630
245 111 150	800
245 111 170	1000
245 111 190	1200
245 111 210	1500
245 111 230	2000
245 111 250	2500
245 111 270	3000



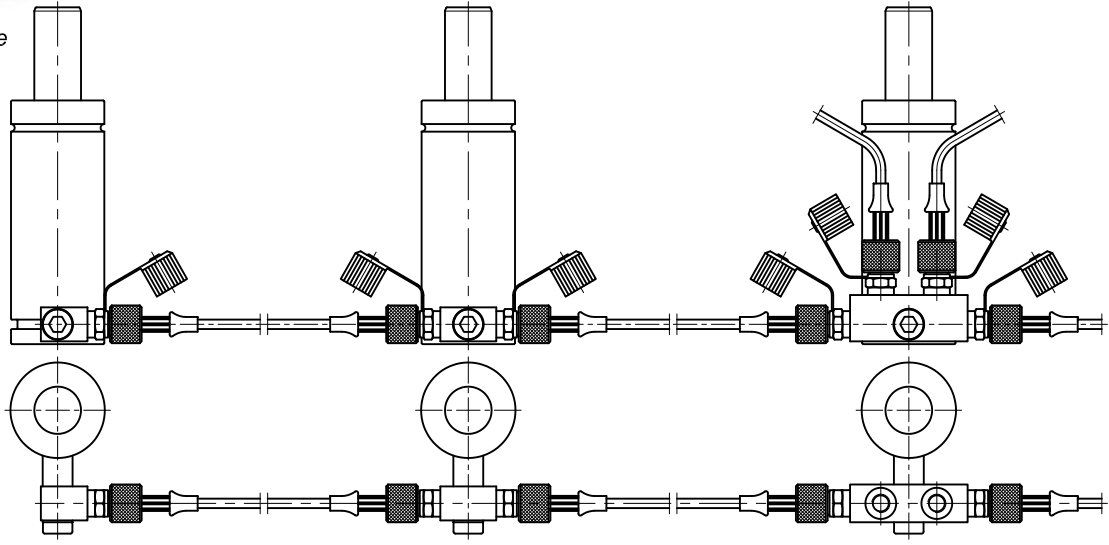
Kod No. Part Nr.	L
245 112 050	200
245 112 070	300
245 112 090	400
245 112 110	500
245 112 130	630
245 112 150	800
245 112 170	1000
245 112 190	1200
245 112 210	1500
245 112 230	2000
245 112 250	2500
245 112 270	3000

Montaj Örneği  
Mounting Example

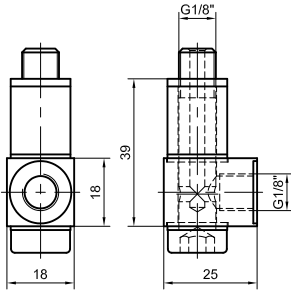


Dağıtıcı Blok Distributor Block
205 110 200
205 110 205
205 110 210
205 110 220
205 110 230

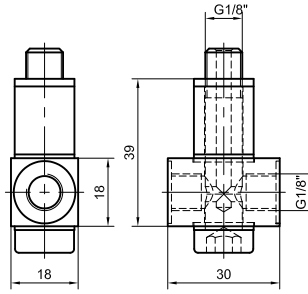
Montaj Örneği  
 Mounting Example



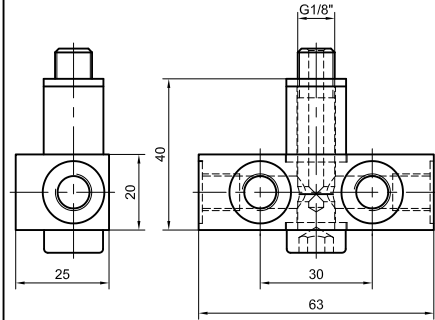
Adaptör / Adapter 205 110 350



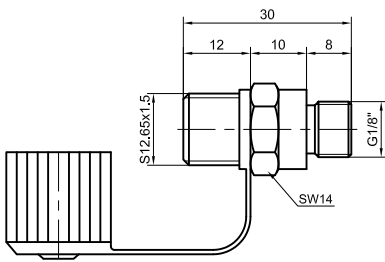
Adaptör / Adapter 205 110 360



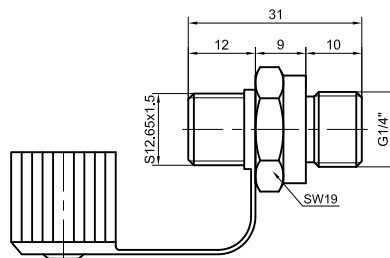
Adaptör / Adapter 205 110 370



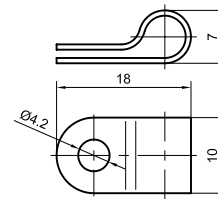
Ölçme Rekoru - Valfli 245 310 800  
 Gauging Coupling With Valve



Ölçme Rekoru - Valfli 245 310 810  
 Gauging Coupling With Valve



Hortum Keleçesi Ø5 245 400 100  
 Hose Clamp Ø5

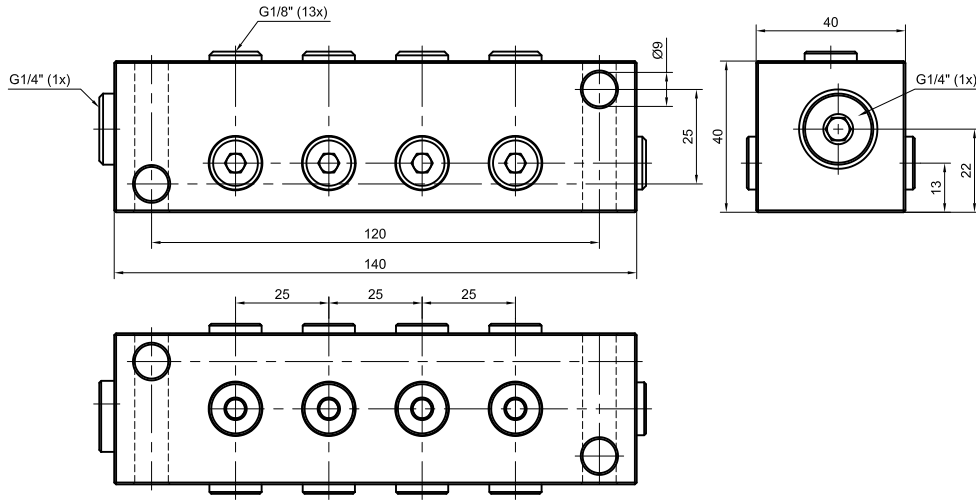


Ölçme Rekoru - Valfsiz 245 310 850  
 Valveless Gauging Coupling

Ölçme Rekoru - Valfsiz 245 310 860  
 Valveless Gauging Coupling

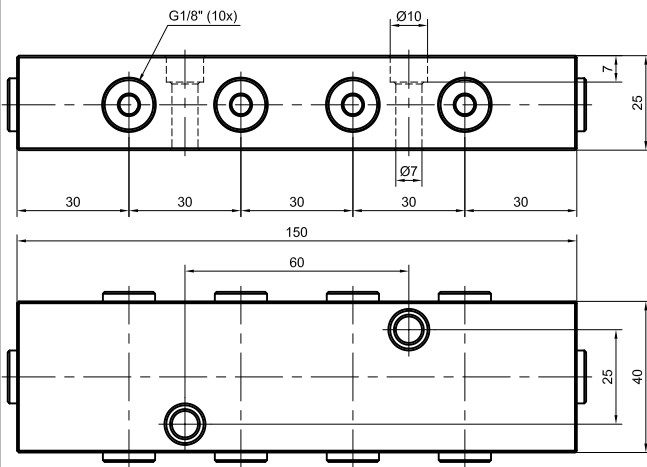
Dağıtıcı Blok / Distributor Block

205 110 200



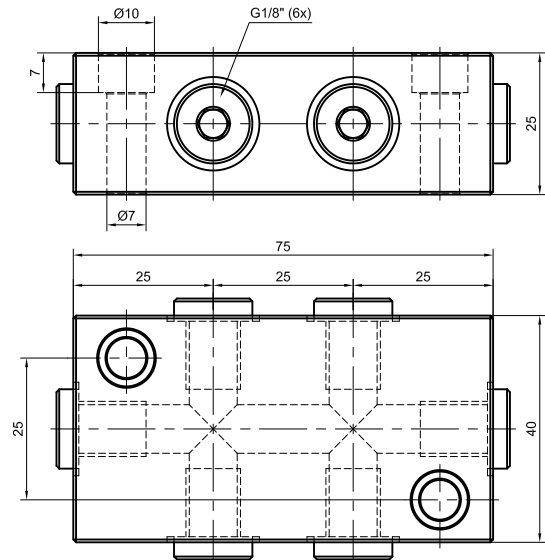
Dağıtıcı Blok / Distributor Block

205 110 205



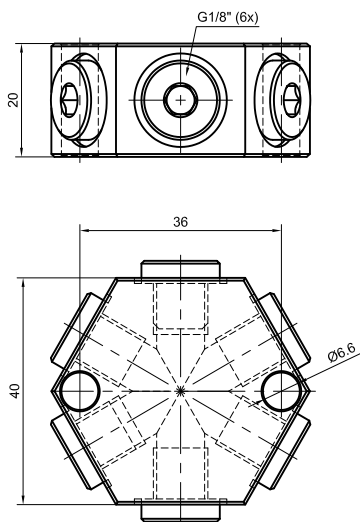
Dağıtıcı Blok / Distributor Block

205 110 210



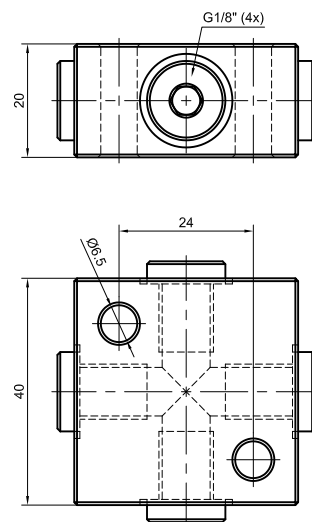
Dağıtıcı Blok / Distributor Block

205 110 220



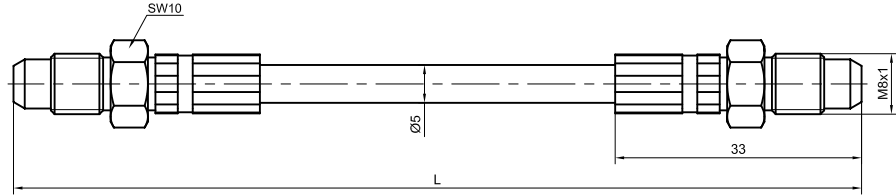
Dağıtıcı Blok / Distributor Block

205 110 230



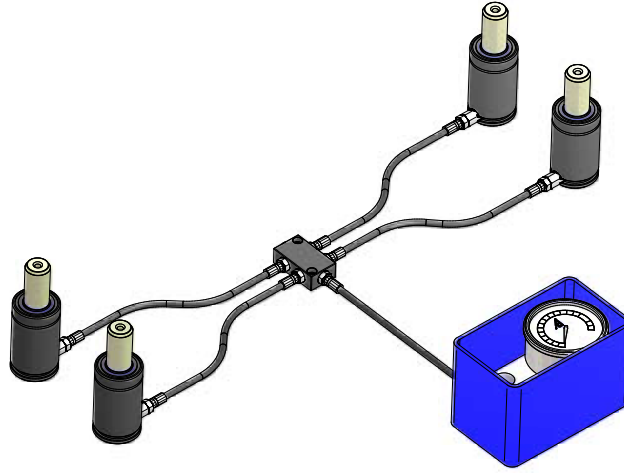
Vidalı Mini Bağlantı Elemanı / Mini With Threaded Joints

Kod No. Part Nr.	L
245 100 050	200
245 100 075	300
245 100 100	400
245 100 125	500
245 100 150	630
245 100 175	800
245 100 200	1000
245 100 225	1200
245 100 250	1500
245 100 275	2000
245 100 300	2500
245 100 325	3000



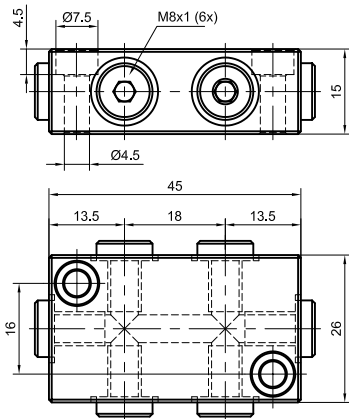
Montaj Örneği  
Mounting Example

Dağıtıcı Blok Distributor Block
205 110 215
205 110 225
205 110 235
205 110 240



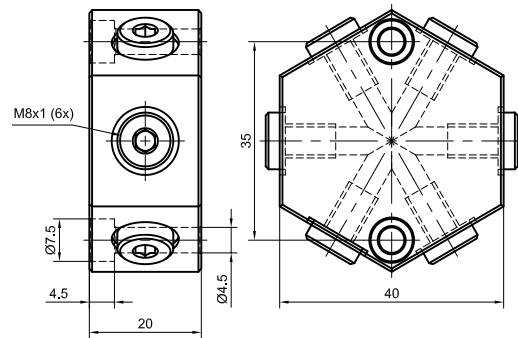
Dağıtıcı Blok / Distributor Block

205 110 215



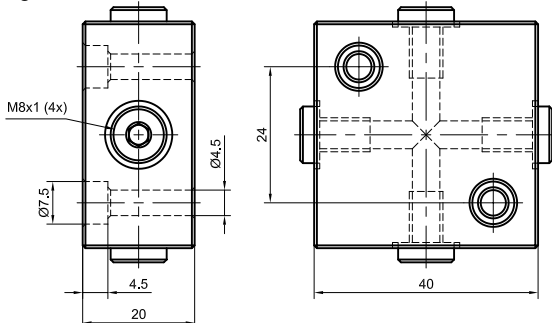
Dağıtıcı Blok / Distributor Block

205 110 225



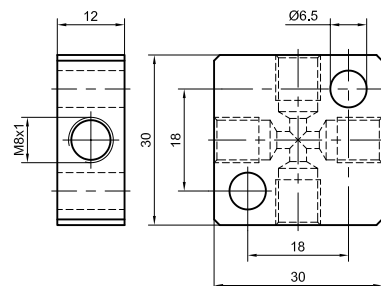
Dağıtıcı Blok / Distributor Block

205 110 235

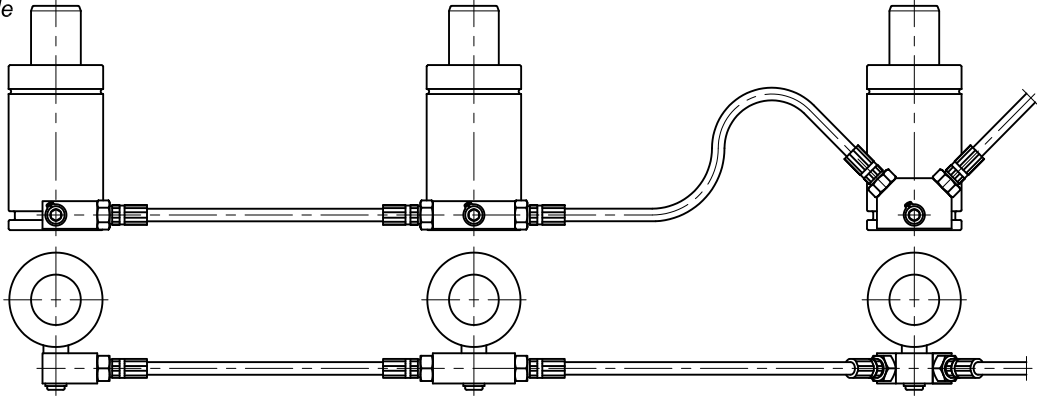


Dağıtıcı Blok / Distributor Block

205 110 240

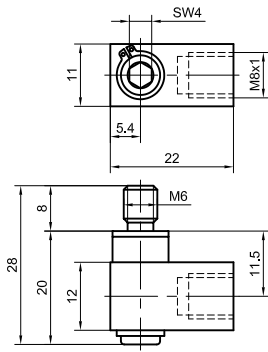


Montaj Örneği  
Mounting Example



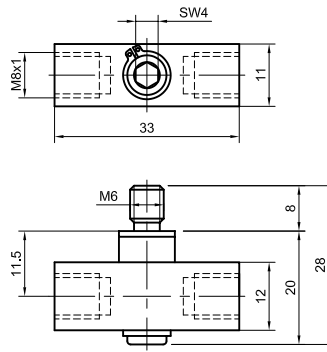
Adaptör / Adapter

205 110 300



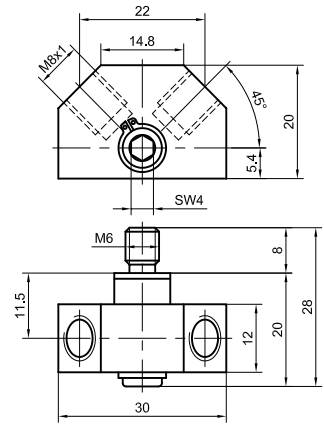
Adaptör / Adapter

205 110 310



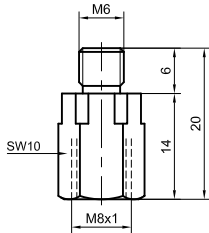
Adaptör / Adapter

205 110 320



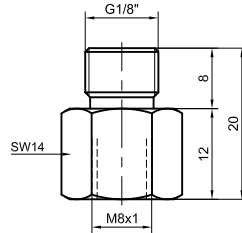
Mini Adaptör  
Mini Adapter

205 110 330



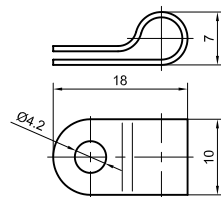
Mini Adaptör  
Mini Adapter

205 110 340

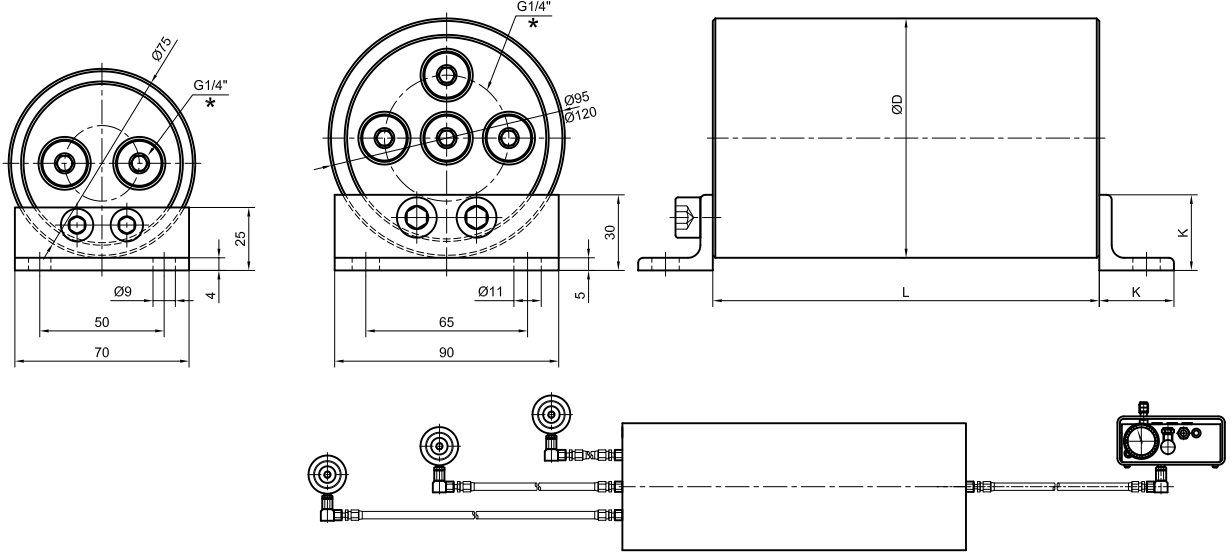


Hortum Keleçesi Ø5  
Hose Clamp Ø5

245 400 100



Akümülatör Tank  
Accumulator Tank



\* Farklı ölçü ve adetler için sorunuz. Please ask for alternative dimension and quantities.

Kod No. Part Nr.	ØD	L	K	Hacim (lt.) Volume
205 110 500	Ø75	170	25	0.25
205 110 510	Ø75	250	25	0.50
205 110 520	Ø75	410	25	1
205 110 530	Ø95	300	30	1
205 110 540	Ø95	500	30	2
205 110 550	Ø95	700	30	3
205 110 560	Ø95	900	30	4
205 110 570	Ø120	360	30	2
205 110 580	Ø120	615	30	4
205 110 590	Ø120	1125	30	8

F <sub>0</sub> daN	150 bar Piston Alanı (dm <sup>2</sup> ) 150 Bar Piston Rod Area
500	0.03
750	0.05
1500	0.10
3000	0.20
5000	0.33
7500	0.50
10000	0.67



#### Akümülatör tankı şu amaçlar için önerilir:

- ▶ Sıkışma oranının düşürülmesi.  $F0/F2 \approx 1$  e yaklaştırılır.
- ▶ Sıkışma oranı düştüğünden çalışma sıcaklığı düşer.
- ▶ Toplam hacim arttığında basınç kaybı azalır ve çalışma ömrü uzar.

Sabit sıcaklıkta tank kullanımı ile Sıkışma Oranı arasındaki ilişki aşağıdaki gibi hesaplanır:

$F0$  = Gazlı yay başlangıç kuvveti (N)

$F2$  = Kurs sonunda gazlı yay kuvveti (N)

$Va$  = Akümülatör tank hacmi (lt) (yukarıda tabloda verilmiştir)

$Vg$  = Gazlı Yay dolun hacmi (lt) (katalog tan bakabilir yada servisimize sorabilirsiniz.)

$n$  = Tanka bağlı aynı tip gazlı yay sayısı

$Str$  = Çalışan kurs (dm)

$A$  = Efektif piston mili alanı (dm<sup>2</sup>) (yukarıda tabloda verilmiştir , katalog tan bakabilir yada servisimize sorabilirsiniz.)

Bu formülasyonda gazlı yayların aynı tip olduğu öngörülmüştür. Sistemde boru ve bağlantı elemanlarının hacimleri küçük olduğundan dikkate alınmamıştır. Bu hacimler  $Vg$  hacmini artı yönde etki ederler.

$$F0/F2 \approx \frac{Va + (n * Vg)}{Va + [n * (Vg - Str * A)]}$$



#### Accumulator tanks are suggested for following purposes.

- ▶ To reduce progression. Progression becomes almost  $F0/F2 \approx 1$
- ▶ As the progression reduces the working temperature reduces as well.
- ▶ As the total volume increases loss of pressure reduces and service-life of gas spring increases.

Connection of Progression Rate and usage of accumulator tank (at constant temperature) can be calculated as shown above.

$F0$  = Initial force of gas spring (N)

$F2$  = Final force of gas spring (N)

$Va$  = Volume of accumulator tank (lt) (given in a.m. table)

$Vg$  = Filling volume of gas spring (lt) (can be found in our catalogue)

$N$  = Number of same type gas springs connected to the tank

$Str$  = Working stroke (dm)

$A$  = effective piston rod area (dm<sup>2</sup>) (given in a.m. table and can be found in our catalogue)

At this formulation all gas springs are considered to be the same type. As the volumes of the connection parts are small these are not considered in the calculation. These volumes will effect the volume of  $Vg$  in positive way.

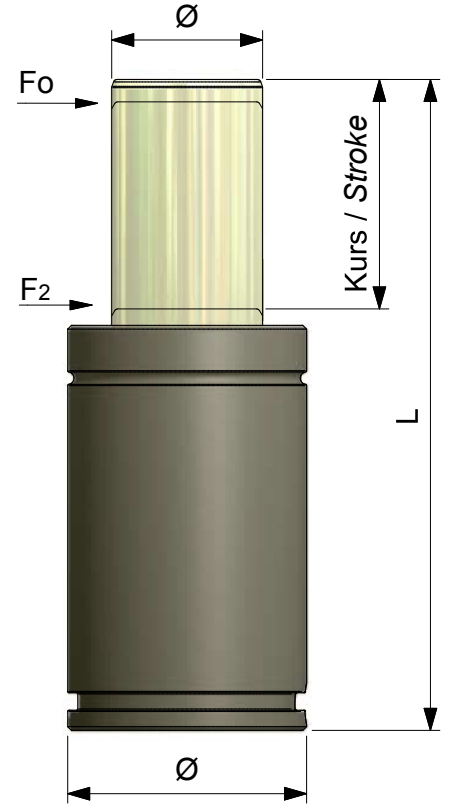
## ÖZEL TALEP FORMU / INQUIRY SHEET

Destek uygulamanız için gerekli özel tasarım yapabilir. Bunun için mühendislerimizin ihtiyacı olan uygulamanıza yönelik aşağıdaki bilgileri doldurunuz. Bu formu faks veya e-mail ile satış departmanınıza ulaştırabilirsiniz.

On request we will be glad to custom design you a Destek Nitrogen Gas Spring for your individual application. For this, fill in the information required below and simply fax or e-mail the completed form to our sales department.

**Destek Satış Departmanı / Destek Sales Department**  
**Fax: (+90) 224-242 35 40 email: destek@desteklift.com**

Şirket / Company :.....  
Adres / Address :.....  
Şehir /City :.....  
Ülke / Country :.....  
İlgili / Attn :.....  
Telefon / Phone :.....  
Faks /Fax :.....  
e-mail :.....



Kullanım alanı ile ilgili bilgiler / Information regarding application

Tek Başına / Self Contained:	Bağlantılı Grup / Hosed Uniforce:
Yıllık Miktar / Annual Quantity	:.....
Sipariş Miktarı / Lot Quantity	:.....
Kanal Çapı / Available Hole Size (Ø)	Max:..... Min:.....
Toplam Serbest Yükseklik / Available Total Height (L)	Max:..... Min:.....
Maksimum kurs / Maximum Stroke(K)	Max:..... Min:.....
Çalışma Kursu / Working Stroke (KW)	Max:..... Min:.....
Minimum Kursta Yük / Load at Minimum Stroke	F0:..... Kurs:.....
Maksimum Kursta Yük / Load at Maximum Stroke	F2:..... Kurs:.....
Temas Yüğü / Load on Contact	Max:..... Min:.....
Mil Ucu Tipi / Rod End Type:.....	
.....	
.....	

Taban Bağlantı Tipi / Base Mounting Type:.....  
.....  
.....

(Uzunluk Ölçüleri / Linear Dimension : mm) (Açısal Ölçüler / Angular Dimensions: X°) (Kuvvet Ölçüleri / Force and Loads : Newton)  
Varsa Tolerans Bilgilerini ekleyebilirsiniz / Possible to add if your tolerans requirements.





# Ürün yelpazemiz / Product variety



## Lift / Lift

Kontrollü kaldırma, indirme, ağırlıkların hareket ettirilmesi ve farklı kullanım alanlarındaki kapaklarınız için sizlere dünyanın en geniş ürün yelpazesinden birini sunuyoruz.

*Controlled lifting, lowering and moving of weights and flaps on various applications. Offering one of the widest product range worldwide.*



## Bloklift / Blocklift

Farklı kullanım alanlarınızda çeşitli konum ve yükseklik ayarlarınız için sizlere dünyanın en geniş ürün yelpazesinden birini sunuyoruz.

*Variable positioning and height adjustment for various applications. Offering one of the widest product range worldwide.*



## Hidrolik Amortisör / Damper

Otomotiv ve endüstriyel kullanım alanlarınız için titreşim sönmüleyici hidrolik amortisörler.

*For hydraulic dampening of vibrations.  
For automotive and industrial applications.*



## Hidrolik Lift / Hydraulic Lift

Bir pedal kullanımıyla rahat bir yükseklik ayarı uygulamaları içindir. Endüstriyel platform ve masa, kuaför koltukları, medikal ekipmanlar gibi alanlarda dikey ve yatay kullanıma uygundur.

*Comfortable height adjustment by usage of a pedal.  
Available for vertical and horizontal installations on platforms, tables, hospital beds, hairdresser chair, etc.*



**DESTEK Otomotiv Yan Sanayi ve Ticaret A.Ş.**

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