



## AZOL GAZLI YAYLARI ÖZELLİKLERİ VE KARŞILAŞTIRMA TABLOSU

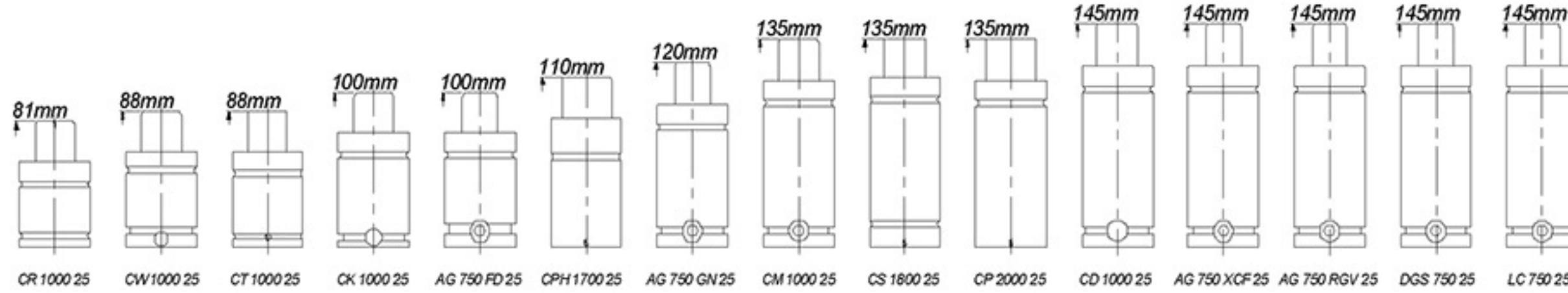
1daN=0,98kg

SERİ	CR	CW	CT	CK	AG-FD	CPH	AG-GN	CM	CS	CP	CD	AG-XCF	AG-RGV	DGS	LC	VAM	AG-TB	AF	AS AG250	EF
N <sub>2</sub> Basıncı (bar)	20 – 150	20 – 150	20 – 150	20 – 150	20 – 150	20 – 180	20 – 150	20 – 150	20 – 150	20 – 180	20 – 150	20 – 150	20 – 150	20 – 150	20 – 150	20 – 150*	20 – 150	20 – 180	20 – 150	20 – 150
Çalışma Sıcaklığı (°C)	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 100	0 – 110	0 – 110	0 – 110	0 – 80	0 – 110	0 – 110	0 – 100	0 – 100	0 – 100
Maks. Piston Hızı (m/s)	1,6	1,6	1,6	1,6	1,6	0,6	1,6	1,6	0,5	0,6	1,6	2,0	4,0	1,6	0,8	0,5	2,0	1,6	1,6	0,5
Dolum/Tamir İmkani	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET
Tesisata Uygunluk	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	EVET	HAYIR	HAYIR	HAYIR

### ÖRNEK KARŞILAŞTIRMA Çap: Ø50mm – Strok: 25mm

1daN=0,98kg

Boy(mm)	81	88	88	100	100	110	120	135	135	135	145	145	145	145	145	-	-	-	-	-
Kuvvet (daN)	1000	1000	750/1000	1000	750	1700	750	1000	1800	2000	1000	750	750	750	750	-	-	-	-	-



\* VAM – Hız kontrollü gazlı yaylarda, farklı kuvvetlerde farklı maksimum basınç değerleri kullanılır. Katalog değerleri esastır.

## **BÖLÜM 1**

### **GAZLI YAYLAR VE AKSESUARLARI**

- 1 GAZLI YAYLAR HAKKINDA GENEL BİLGİLER
- 2 KOMPAKT SERİ GAZLI YAYLAR
- 3 ISO SERİSİ GAZLI YAYLAR
- 4 MİKRO SERİ GAZLI YAYLAR
- 5 GÖVDESİ DİŞLİ SERİ GAZLI YAYLAR
- 6 ÇIKARICILAR (İTİCİ PİMLER)
- 7 TESİSAT EKİPMANLARI
- 8 GAZLI YAY BAĞLANTI FLANŞLARI

## GAZLI YAYLARIN AVANTAJLARI

AYNI KUVVET, STROK VE ÖMÜR İÇİN, DAHA KÜÇÜK HACİM

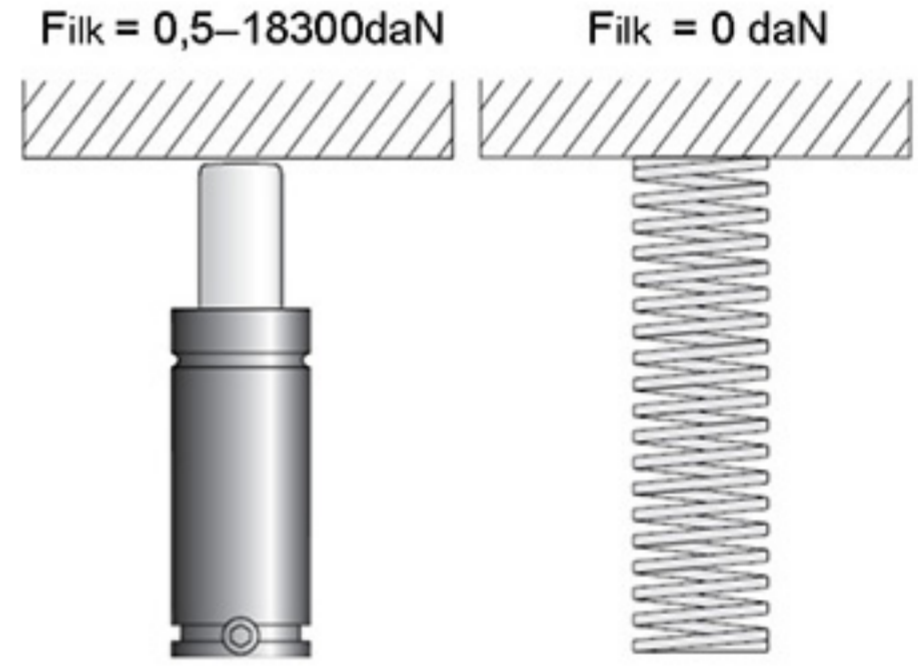
	GAZLI YAY	ÇELİK YAY
KULLANILAN ELEMAN	CW 2400 25	CXF 51 x 203
ÇALIŞMA STROKU	25mm	25mm
ÇALIŞMA ÖMRÜ	1.500.000 strok	1.500.000 strok
TOPLAM İLK KUVVET	2400daN	2394daN (16mm ön yüklemeli)

KAZANÇ

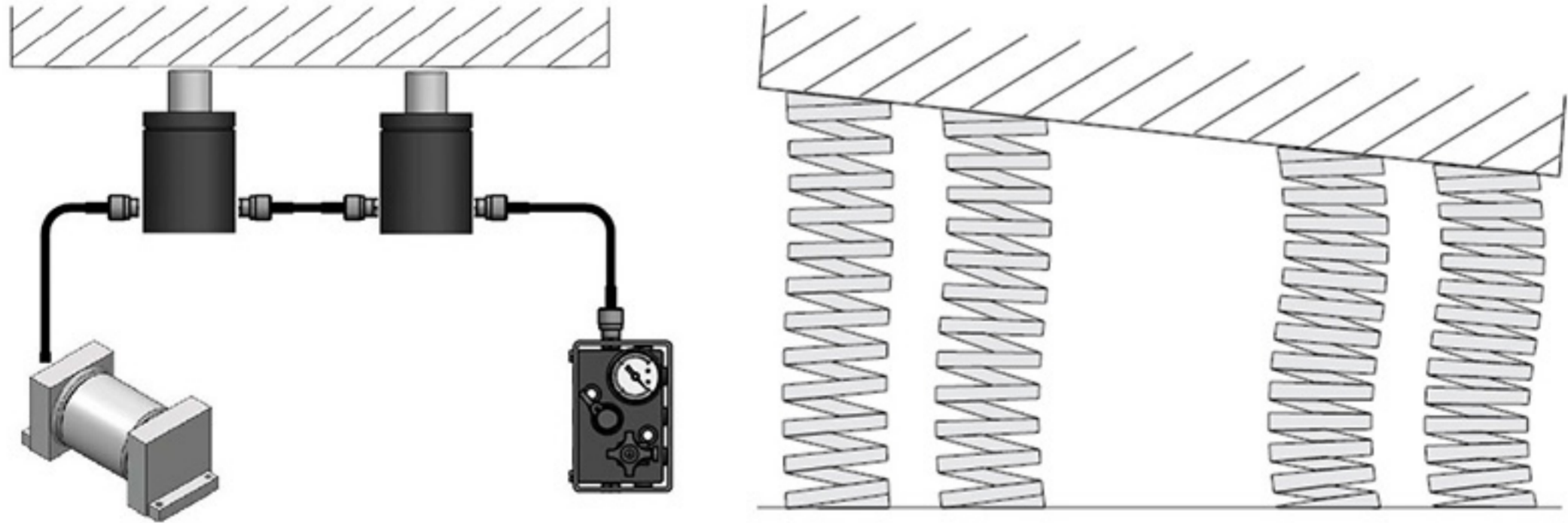
			KAZANÇ
ELEMAN ADEDİ	1 adet	8 adet	%87
KULLANILAN ALAN	4416mm <sup>2</sup>	15700mm <sup>2</sup>	%72
GEREKLİ YÜKSEKLİK	95mm	203mm	%53

## ÖNYÜKLEMESİZ, KOLAY KURULUM

ÖN YÜKLEME İHTİYACI YOK  
ÇOK ÇEŞİTLİ BAĞLANTI FLANŞI OPSİYONLARI  
KOLAY VE ÇABUK MONTAJ İMKANI



## DENGELİ VE KONTROL EDİLEBİLİR KUVVET



HORTUMLAR İLE BİRBİRİNE BAĞLANMIŞ TESİSATLI GAZLI YAYLAR, ŞU AVANTAJLARI SAĞLAR:

- HER SİLİNDİRDE AYNI KUVVET SAYESİNDE DENGELİ HAREKET
- İSTENEN NOKTADA İSTENEN KUVVET ELDE EDEBİLME
- OPERASYON BOYUNCA BASINÇ/KUVVET İZLEYEBİLME
- BASINÇ DEĞİŞİKLİĞİ İLE KUVVET AYARI YAPABİLME
- OPSİYONEL DENGELEME TANKI KULLANIMI İLE STROK BOYUNCA İHMAL EDİLEBİLİR KUVVET ARTIŞI

## GAZLI YAYLARDA GÜVENLİK VE KULLANIM KURALLARI

Gazlı yaylar, maksimum 180bar basınçlı azot gazı doldurulmuş silindirlerdir.

Gazlı yayların içindeki basınçlı gazın tamamen boşaldığına kesin emin olmadıkça, ya da gerekli eğitimi almadıkça, hiçbir parçasına müdahale etmeyiniz.

Tüm Azol gazlı yaylar, Basınçlı Gazlar Talimatı (PED – Pressure Equipment Directive) ile ilgili Avrupa Komitesi Talimatı (97/23/CE) gerekliliklerini sağlar. CE Mark işareti, belirtilen talimata uygun olarak tüm ürünlerin üzerine lazer ile işlenmiştir.

Gerekli eğitimi almamış personel, gazlı yaylara kesinlikle müdahale etmemelidir. Her zaman kullanma kılavuzlarındaki talimatlara uyulmalıdır.

### MONTAJ

Gazlı yaylar, altlarındaki vidalar ile veya önerilen flanşlar ile, kalıba sıkıca bağlanmalıdır.

Gazlı yayın kalıpta bir delik içine monte edilmesi durumunda, delik, gazlı yaya yanal kuvvet gelmeyecek şekilde (delik boyu, gazlı yay gövdesi ile aynı olmalı) tasarlanmalıdır. Delik çapının, gazlı yay çapından 1mm'den daha geniş olması durumunda, bir plastik bilezik ile merkezlenmelidir. Bilezik kullanılmayacak durumlarda çap farkı 1mm'yi aşmamalıdır.

Piston başındaki vida kesinlikle gazlı yayın montajı için kullanılmamalıdır. Bu vida sadece bakım amaçlıdır. Yanlış kılavuzlama, sızdırmazlık elemanlarında aşınma ve çalışma ömründe kısalmaya yol açar.

Gazlı yay, uygulanacak kuvvete paralel monte edilmelidir. Gövde tabanı, veya tutucu flanş, kuvvete tam dik olarak konumlanmalıdır. Kalıpta, gövde tabanı ve piston başına değecek yüzeyler sertleştirilmelidir.

Gazlı yaylara, kesinlikle yanal kuvvetler uygulanmamalıdır. Pres aşağı inerken, kalıptan gelebilecek yanal kuvvetler ve titreşimlere karşı dikkatli olunmalıdır.

### MAKSİMUM DOLUM BASINCI

Tüm gazlı yay serilerinde, katalogda belirtilen basınç değerlerinden daha fazla yüksek değerlerde dolum yapılmamalıdır. Nominal değer 20°C'de 150bar olup, katalogda belirtilen değerler esastır.

### KİRLİLİK VE SIVILAR

Gazlı yayları sıvılardan ve kirden korumak gerekir. Birçok gazlı yayda sıvı ve kir önlemek için sıyrıcı contalar mevcuttur, ancak en iyi koruma gazlı yay yüzeylerinin temiz kalmasıdır. Delik içine montaj durumunda, deliğin içi sıvı ile dolabilir. Alt kısımdan sıvı tahliyesine izin verecek şekilde kanallar açılmalıdır.

### ÇALIŞMA SICAKLIĞI

Yüksek sıcaklık, keçe ve contaların elastikiyetlerini kaybetmelerine ve çalışamaz duruma gelmelerine yol açar. Genellikle gazlı yaylar 110°C üzerinde çalıştırılmamalıdır. Özel serilerde bu değer 200°C'ye kadar çıkabilir.

### STROK UZUNLUĞU

Gazlı yay çalışırken, kontrolsüzce en üst konuma gelmesi önlenmelidir. Bu, parçalarda hasara yol açabilir. Boy hesabında %10 emniyet payı ile çalışmak önerilir.

### MAKSİMUM PİSTON HIZI

Tüm gazlı yay serilerinde, katalogda belirtilen çalışma hızı değerleri göz önüne alınmalıdır. Birçok seride bu değer 2,0m/s iken, RGV serilerinde 4,0m/s dir.

### BAKIM

Azol gazlı yaylarının, 2.000.000 çevrim veya 10 yıl çalıştıktan sonra değiştirilmesi önerilir. Çalışma ömrü beklentisi, şu durumlarda geçerli değildir:

Piston yüzeyinde izler (ısı veya sürtünme ile oluşan çizikler)

Dengesiz veya eğik kuvvet / piston yüzeyleri

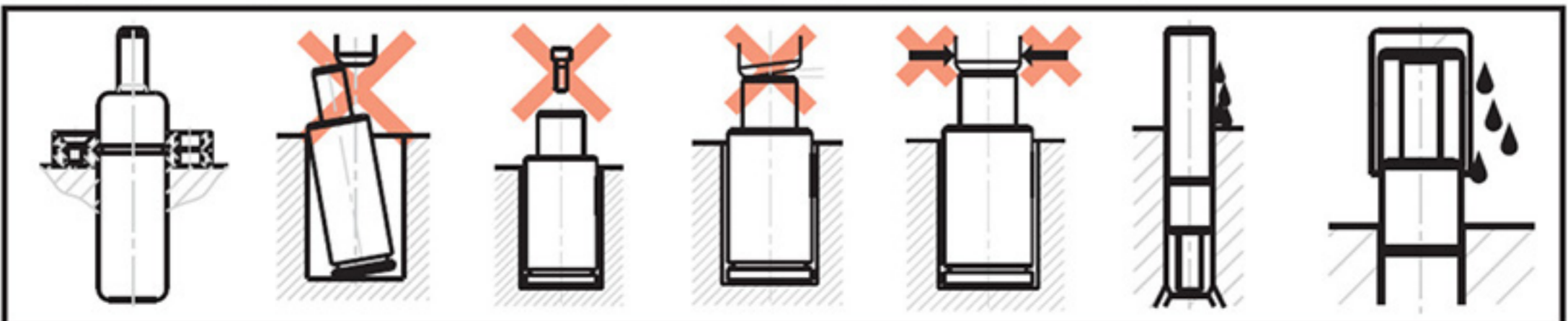
Gazlı yay gövdesinin sabitlenmediği durumlar

Sıvı dolu deliklere monte edilme

Gazlı yay gövde çapından çok büyük deliklerde çalıştığı durumlar çalışma

Yanlış veya ehliyetsiz müdahale

Katalog bilgi ve değerlerinin dışında, herhangi bir ihtiyaç veya uygulama için Azol yetkili servisine danışınız.



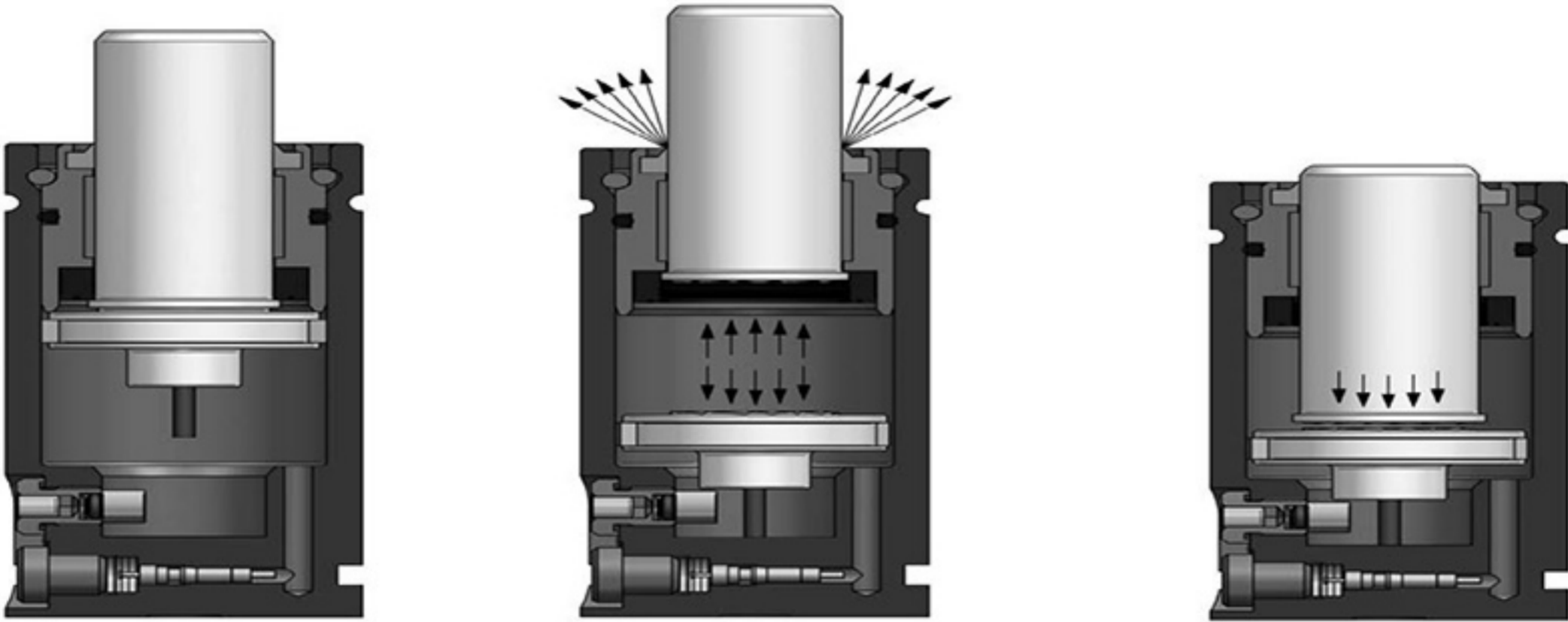
## AZOL GAZLI YAYLARDA EMNİYET SİSTEMLERİ

### 1. DİNAMİK EMNİYET

Gazlı silindirlerle çalışırken, aşırı basınç, hatalı uygulama veya malzeme hatasına bağlı olarak, piston dibi kırılabilir. Kırılan piston, silindir içindeki basınçlı gazın etkisi ile, büyük risk oluşturacak veya kazaya yol açacak şekilde yüksek hızda dışarı çıkmaya çalışabilir.

Bu güvenlik riskini önlemek için özel bir piston tasarımı kullanılmaktadır. Piston dibi kırıldığı zaman devreye girecek bir emniyet faturası sayesinde, silindir içindeki basınçlı gaz emniyetli bir şekilde tahliye edilerek, olası kazalar önlenmiş olur. Bu emniyet sistemi, çoğu seride mevcuttur.

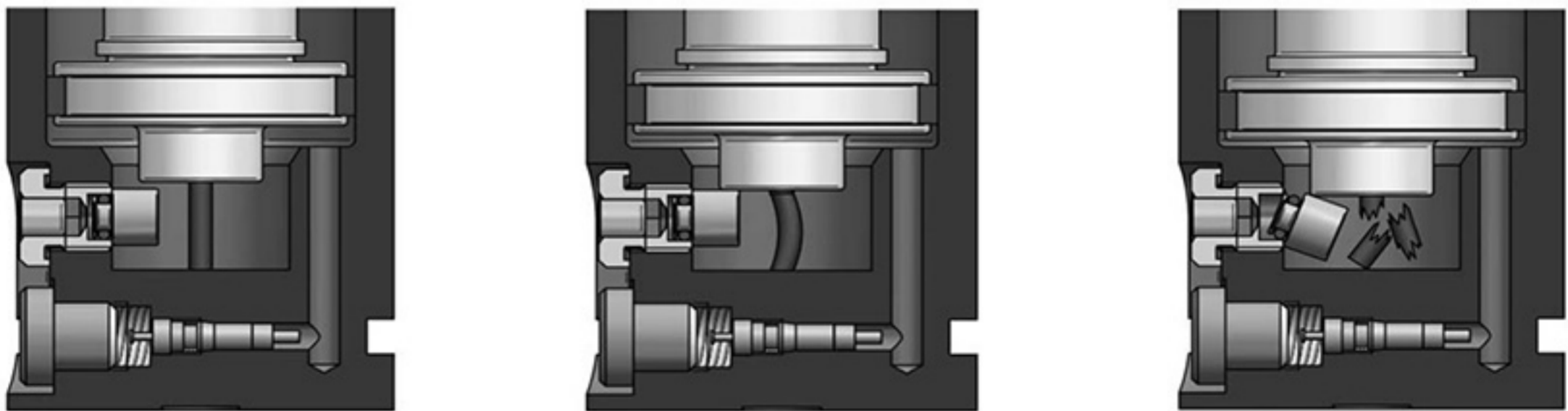
1. Silindir normal çalışıyor
2. Piston dipten kırılarak gaz basıncı ile emniyet faturası, bileziğe çarpana kadar hızla dışarı hareket etmeye başlar. Bu sırada emniyet faturası, contaya hasar vererek gazın tahliyesini sağlar.
3. Piston, basınçlı gazın tahliyesinden sonra emniyetli bir şekilde, silindirin alt noktasına döner.



### 2. STATİK EMNİYET

ISO standardı serileri olan AG-XCF, AG-RGV ve AG-CB modellerinde, aşırı kurs hatalarının yaratacağı riske karşılık, ikinci bir emniyet sistemi, opsiyon olarak bulunmaktadır. Bu sistemde, aşırı kurs durumunda, silindir içindeki basınçlı gaz, insan ve makineleri herhangi bir hasardan korumak için, güvenli bir şekilde tahliye edilir.

1. Piston, maksimum stroktan 1mm daha fazla hareket ederse, piston göbeğine bağlı pim, silindir tabanına çarpar.
2. Pres inmeye devam ederse, pim deforme olur ve piston, emniyet valfine çarpar.
3. 2-3mm sonra valfin kafası kırılır ve gaz emniyetli bir şekilde boşalmış olur. Silindir zarar görmez ve küçük bir tamirden sonra tekrar kullanılabilir.



Bu statik emniyet sisteminin, piyasadaki diğer sistemlerinden farkları:

- RİSK SIFIRLAMA: Aşırı kurs sonrası silindir içindeki gazın tamamen boşalması, böylece, hasarlı bölgede yapılacak müdahalelerde hiçbir riskin bulunmaması
- KOLAY TAMİRAT: Aşırı kurs sonrası silindir gövdesinde hiçbir deformasyon meydana gelmez. Bu sayede özellikle kalıbın seri imalat öncesi ilk denemelerinde, hatalı strok ayarları sonucu gazlı yayların deforme olup değiştirilmesine gerek kalmaz. Sadece basit tamiratlar ile aynı gazlı yaylar tekrar kullanılabilir.

## CW SERİSİ

STOK  
AVANTAJI

### KOMPAKT SERİ ÖZELLİKLERİ

KÜÇÜK HACİMDE YÜKSEK KUVVET

KALIP MALİYETİNDE AZALMA

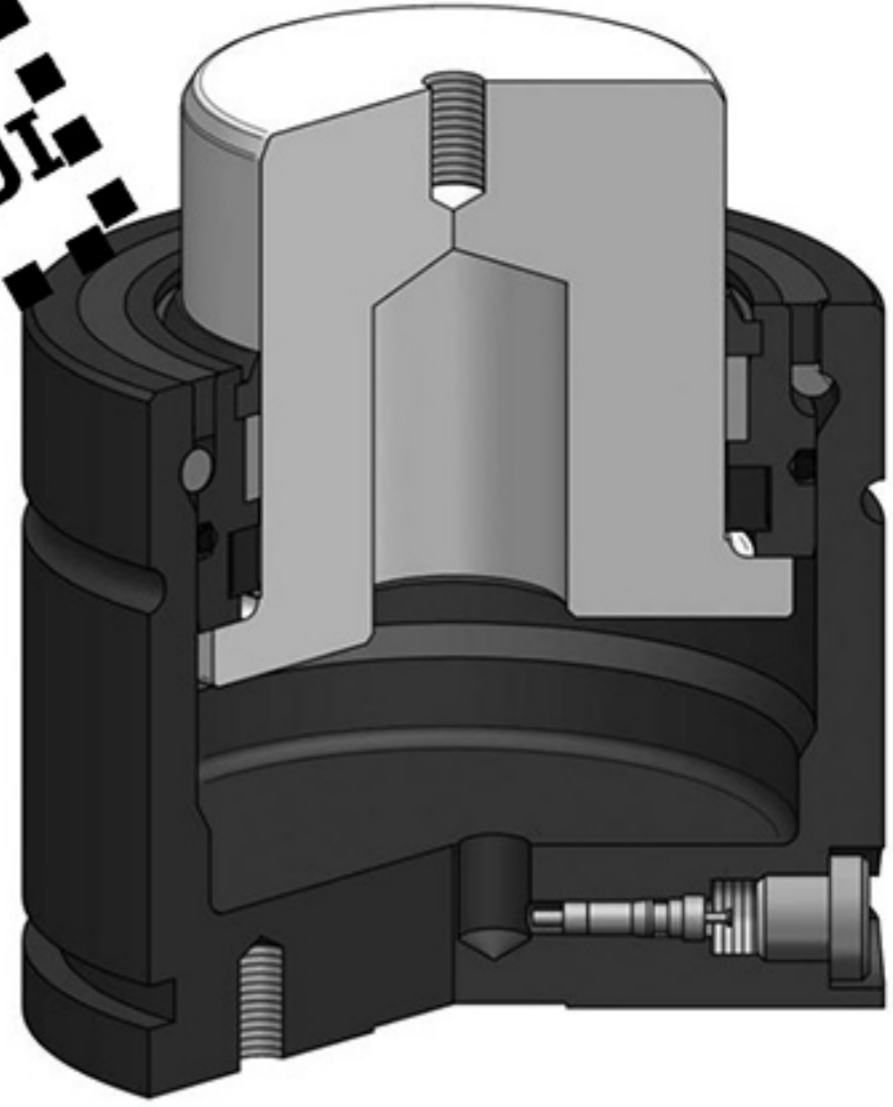
OPTİMUM YATAKLAMA

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

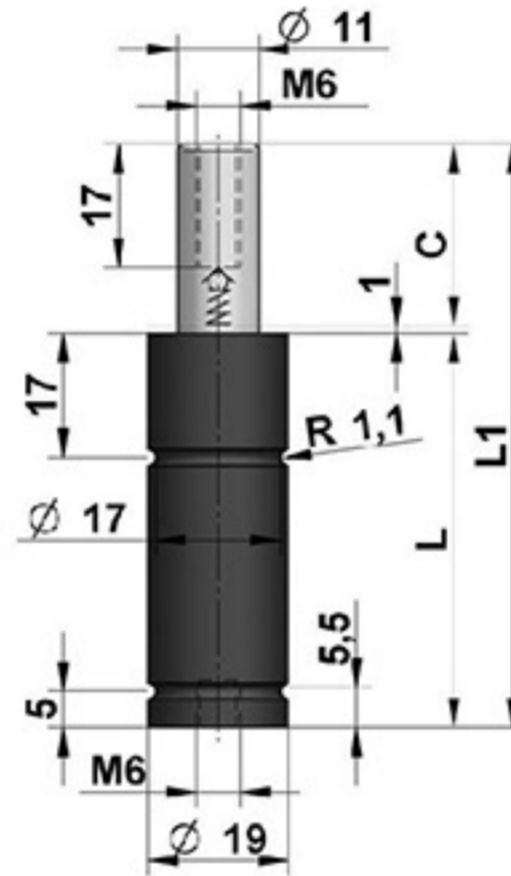
Dolum imkanı : EVET

Tesisat imkanı : EVET



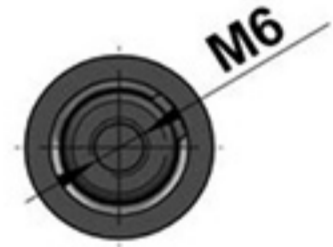
### CW 170

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
7	44	37	170	255
10	50	40		
13	56	43		
15	60	45		
19	68	49		
25	80	55		
38	106	68		
50	130	80		
63	156	93		
75	185	110		
80	195	115		
100	235	135		
125	285	160		



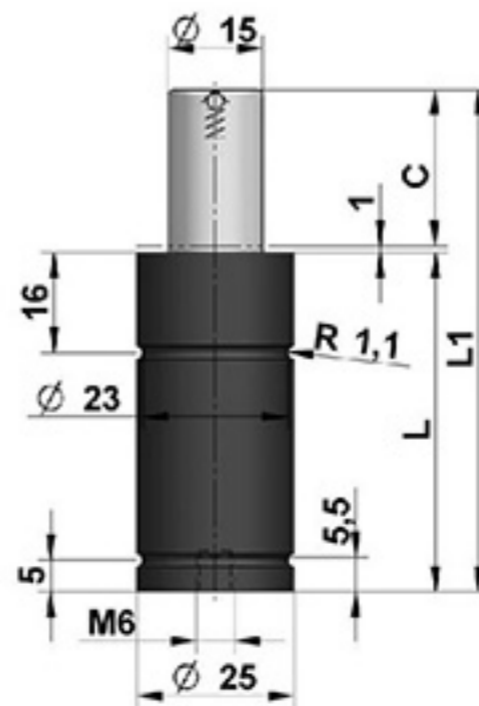
UYGUN FLANŞLAR

A04-019 / A44-019



### CW 320

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
7	44	37	320	480
10	50	40		
12	54	43		
15	60	45		
19	68	49		
25	80	55		
38	106	68		
50	130	80		
63	156	93		
75	185	110		
80	195	115		
100	235	135		
125	285	160		



UYGUN FLANŞLAR

A04-025 / A09-025  
D02-025

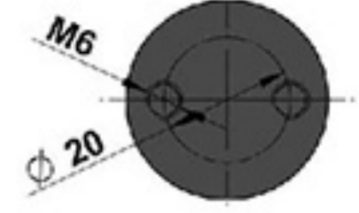
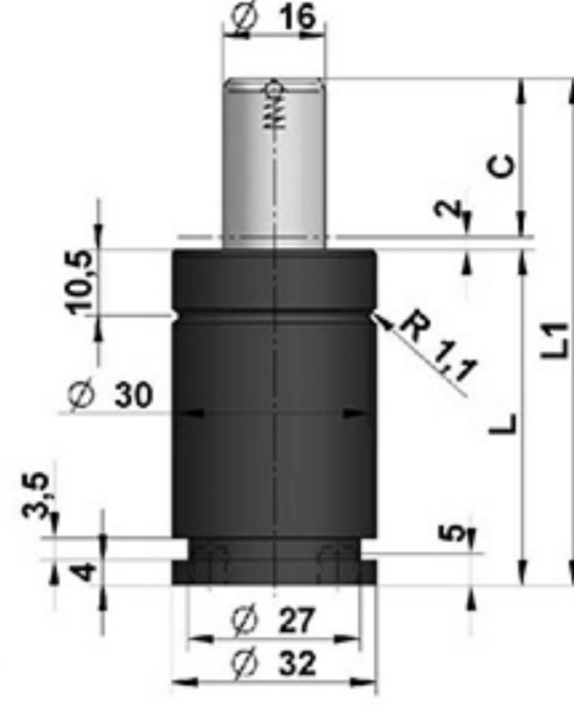


## CW 350

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	50	40	350	525
13	56	43		
16	62	46		
19	68	49		
25	80	55		
32	94	62		
38	106	68		
50	130	80		
63	156	93		
75	180	105		
80	190	110		
100	230	130		
125	280	155		

### UYGUN FLANŞLAR

A04-032 / A14-032  
C05-032 / C20-032 / D02-032

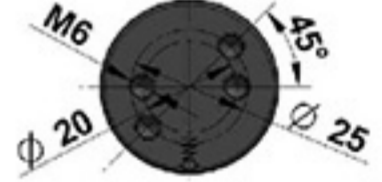
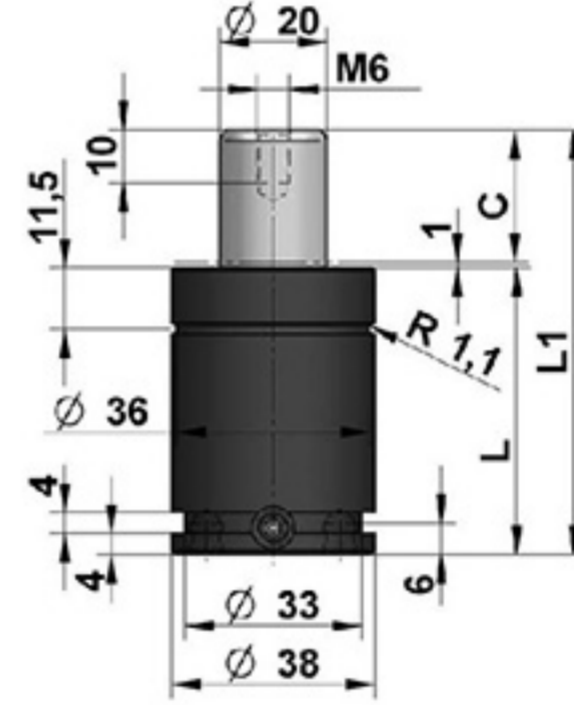


## CW 500

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	50	40	500	750
13	56	43		
16	62	46		
19	68	49		
25	80	55		
32	94	62		
38	106	68		
50	130	80		
63	156	93		
75	180	105		
80	190	110		
100	230	130		
125	280	155		

### UYGUN FLANŞLAR

A04-038 / A14-038  
A24-038 / A34-038  
C05-032 / C20-038  
D02-038

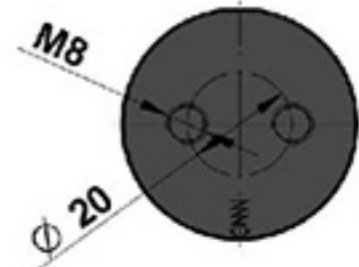
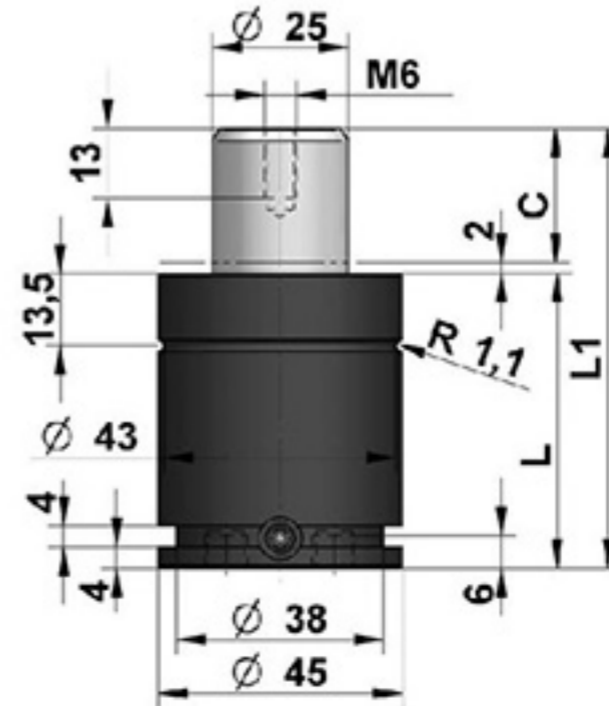


## CW 750

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	52	42	750	1230
13	58	45		
16	64	48		
19	70	51		
25	82	57		
32	96	64		
38	108	70		
50	132	82		
63	158	95		
75	182	107		
80	192	112		
100	232	132		
125	282	157		

### UYGUN FLANŞLAR

A04-045 / A14-045  
A24-045 / A34-045  
B36-045 / B41-045  
C05-032 / C20-045  
D02-045





## CW 1000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)		UYGUN FLANŞLAR
			İLK	SON	
13	64	51	1000	1500	A04-050 / A14-050 / A24-050 / A34-050 B36-050 / B41-050 / C05-050 / C20-050 / D02-050
16	70	54			
19	76	57			
25	88	63			
32	102	70			
38	114	76			
50	138	88			
63	164	101			
75	188	113			
80	198	118			
100	238	138			
125	288	163			

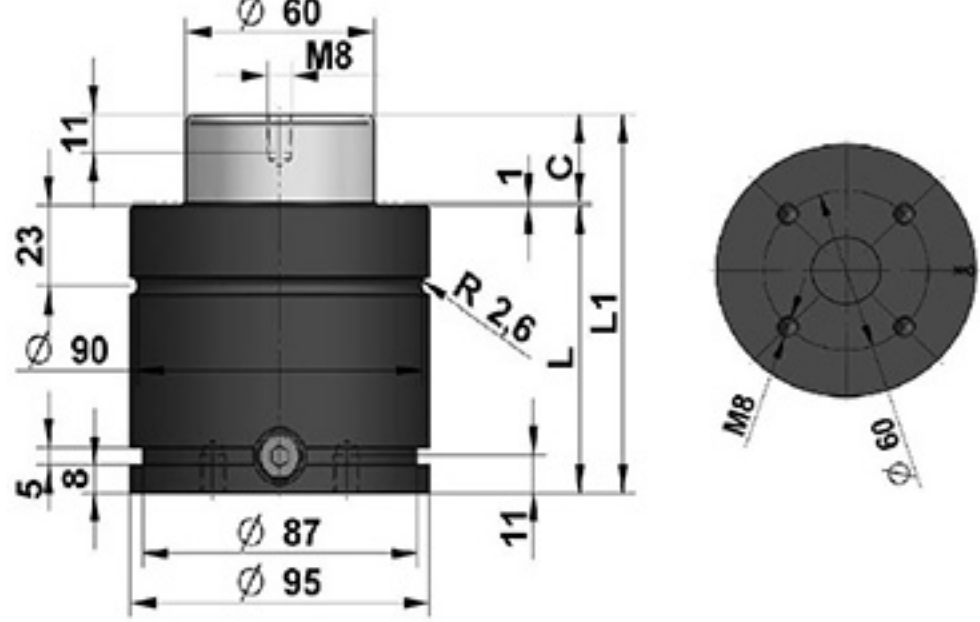
## CW 1500

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)		UYGUN FLANŞLAR
			İLK	SON	
13	70	57	1500	2350	A04-063 / A14-063 / A24-063 / A34-063 B36-063 / B41-063 / C05-063 / C20-063
16	76	60			
19	82	63			
25	94	69			
32	108	76			
38	120	82			
50	144	94			
63	170	107			
75	194	119			
80	204	124			
100	244	144			
125	294	169			

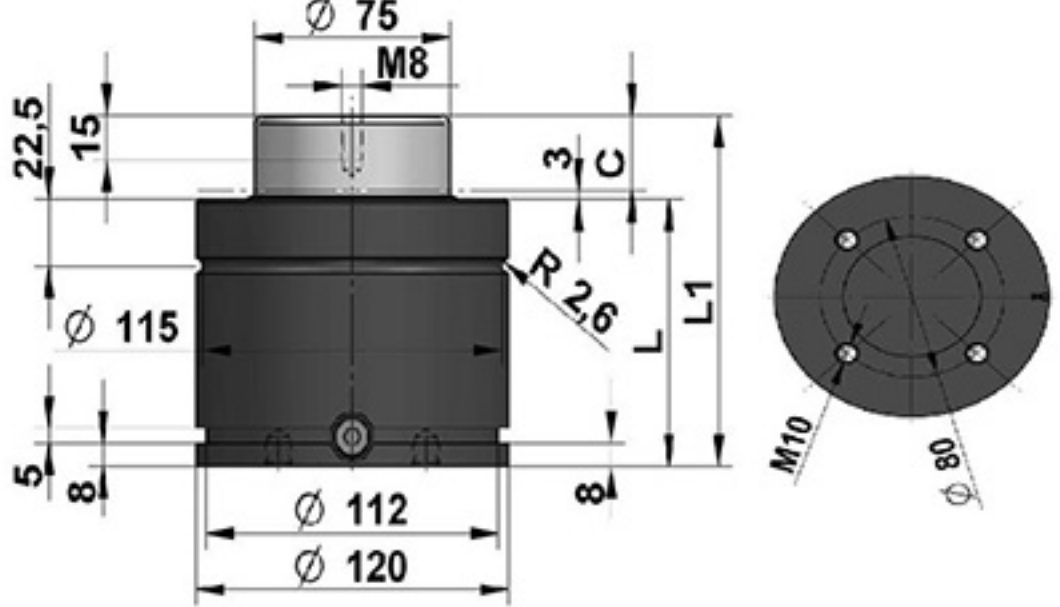
## CW 2400

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)		UYGUN FLANŞLAR
			İLK	SON	
5	55	50	2400	3750	A04-075 / A14-075 / A24-075 / A34-075 B36-075 / B41-075 / C05-075 / C20-075 / D02-075
10	65	55			
16	77	61			
19	83	64			
25	95	70			
32	109	77			
38	121	83			
50	145	95			
63	171	108			
75	195	120			
80	205	125			
100	245	145			
125	295	170			

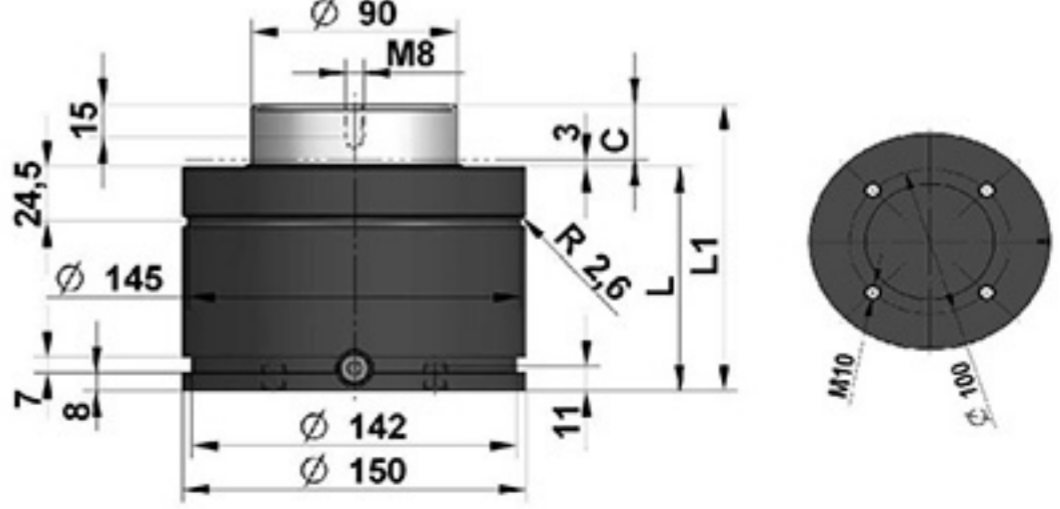
## CW 4200

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)		UYGUN FLANŞLAR A04-95 / A14-95 / A24-95 / A34-95 B36-95 / B41-95 / C05-095 / C20-95 / D02-95
			İLK	SON	
16	90	74	4200	6000	
19	96	77			
25	108	83			
32	122	90			
38	134	96			
50	158	108			
63	184	121			
75	208	133			
80	218	138			
100	258	158			
125	308	183			

## CW 6600

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)		UYGUN FLANŞLAR A04-120 / A14-120 / A24-120 / A34-120 B36-120 / B41-120 / C05-120 / C20-120 / D02-120
			İLK	SON	
16	100	84	6600	9750	
19	106	87			
25	118	93			
32	132	100			
38	144	106			
50	168	118			
63	194	131			
75	218	143			
80	228	148			
100	268	168			
125	318	193			

## CW 9500

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)		UYGUN FLANŞLAR A04-150 / A14-150 / A24-150 / A34-150 B36-150 / B41-150 / C05-150 / C20-150 / D02-150
			İLK	SON	
19	116	97	9500	14250	
25	128	103			
32	142	110			
38	154	116			
50	178	128			
63	204	141			
75	228	153			
80	238	158			
100	278	178			
125	328	203			

## CD SERİSİ

### KOMPAKT SERİ ÖZELLİKLERİ

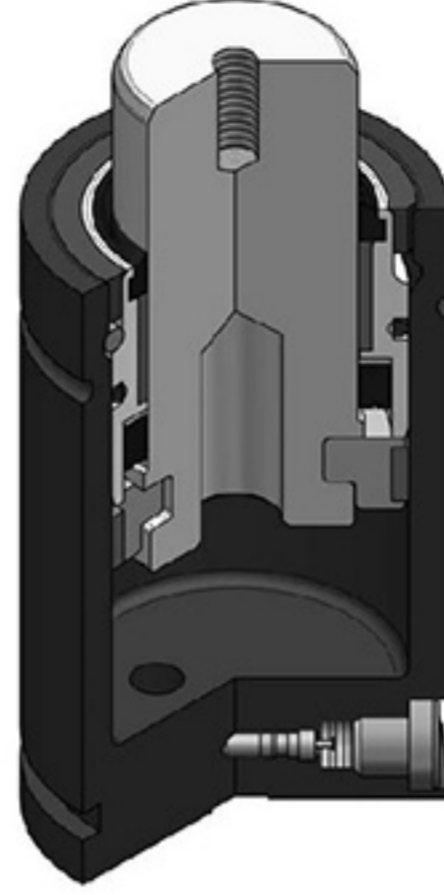
ISO STANDARTLARI İLE AYNI TOPLAM YÜKSEKLİK  
ISO İLE AYNI ALANDA DAHA YÜKSEK KUVVETLER  
1/8" DOLUM GİRİŞİ

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

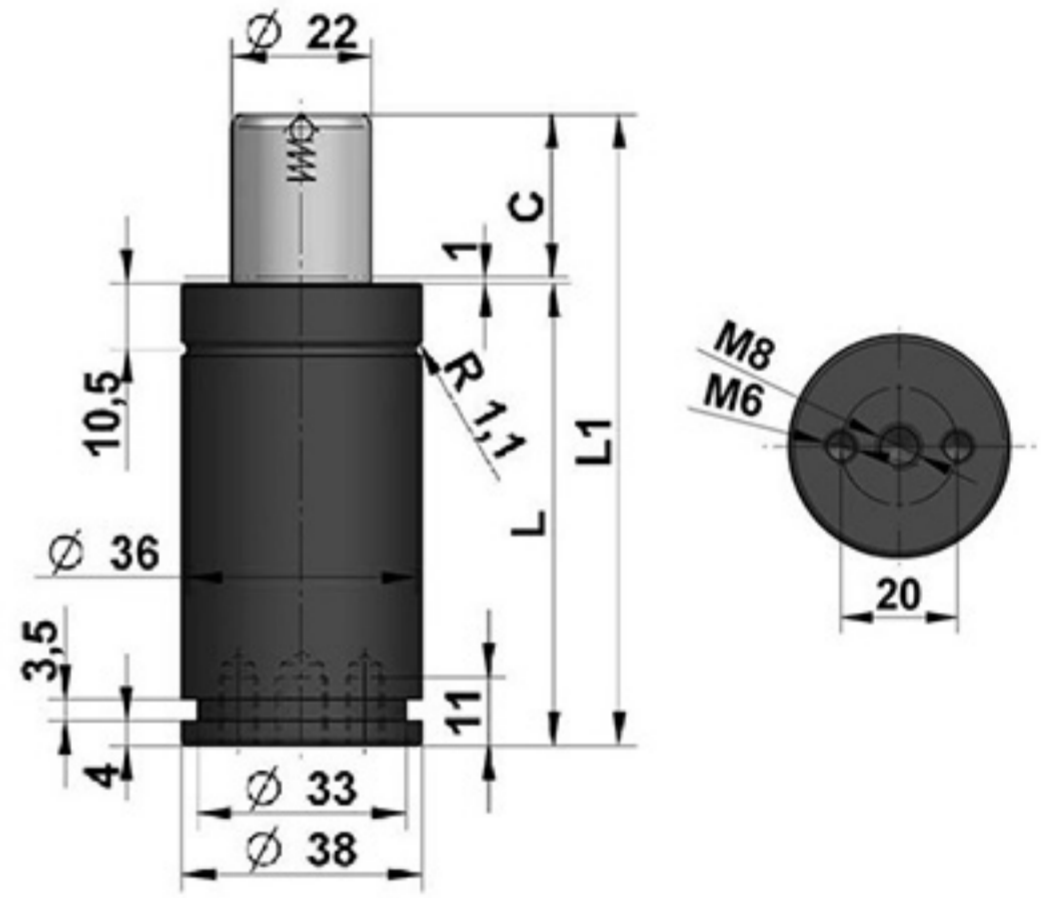
Dolum imkanı : EVET

Tesisat imkanı : EVET



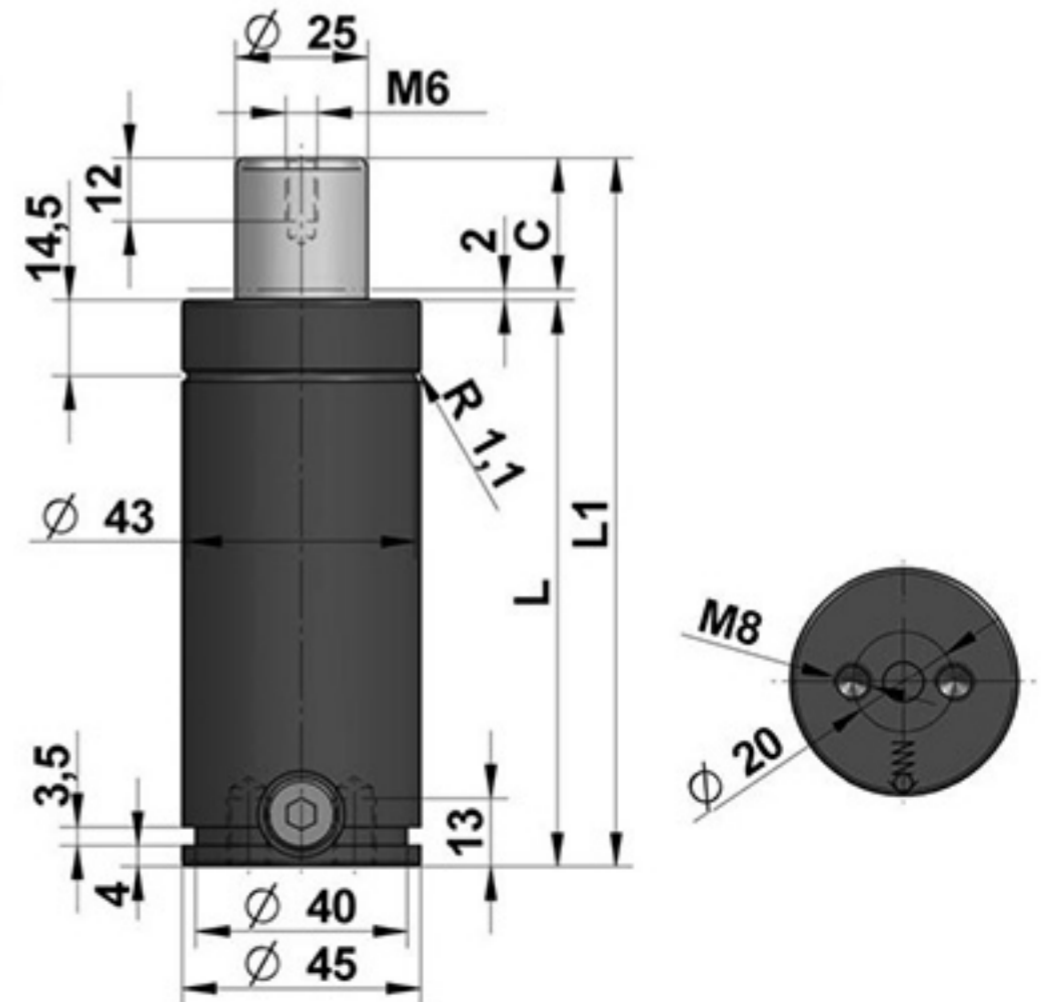
### CD 500

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
10	70	60	500	750
12,7	75,4	62,7		
16	82	66		
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		
100	250	150		
125	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-038 / A14-038 / A24-038 / A34-038 C20-038 / D02-038				



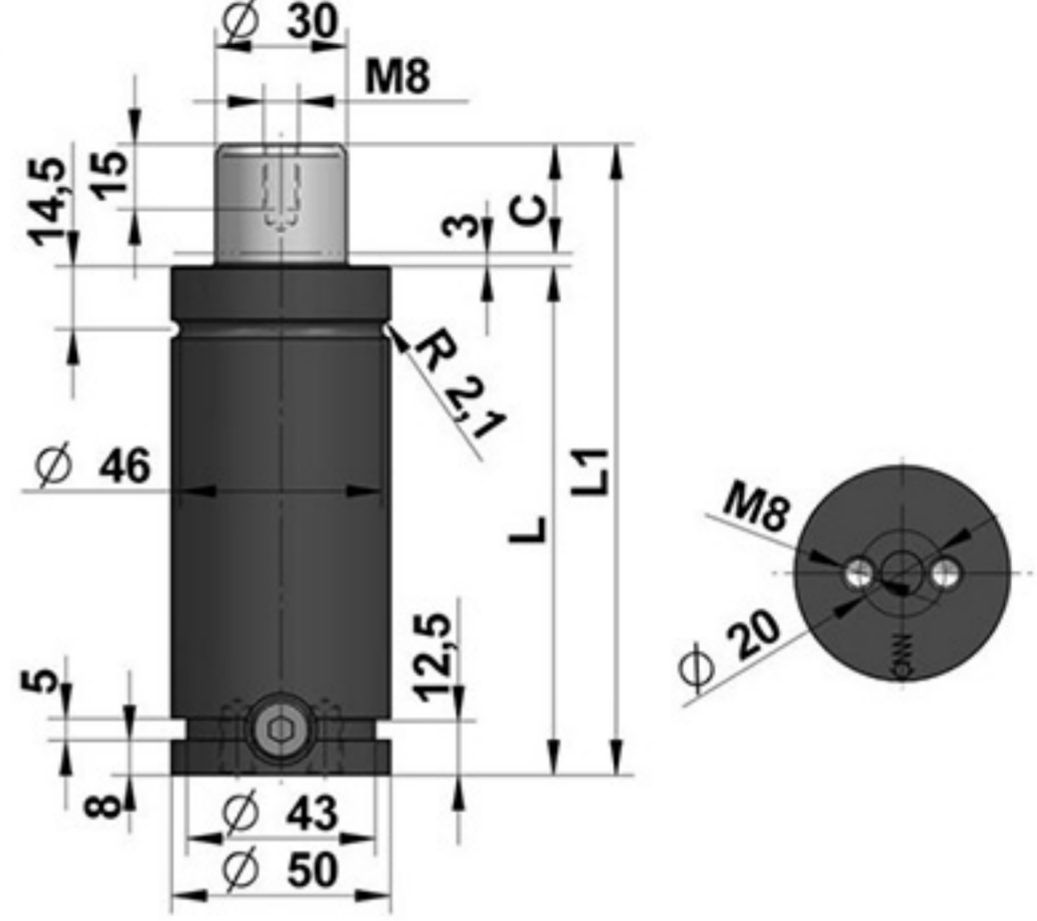
### CD 700

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12,7	110,4	60	700	1050
16	117	62,7		
25	135	66		
38	161	75		
50	185	88		
63,5	212	100		
80	245	113,5		
100	285	130		
125	335	150		
160	405	175		
<b>UYGUN FLANŞLAR</b>				
A04-045 / A14-045 / A24-045 / A34-045 / B11-045 B21-045 / B51-045 / C05-045 / C20-045 / D02-045				



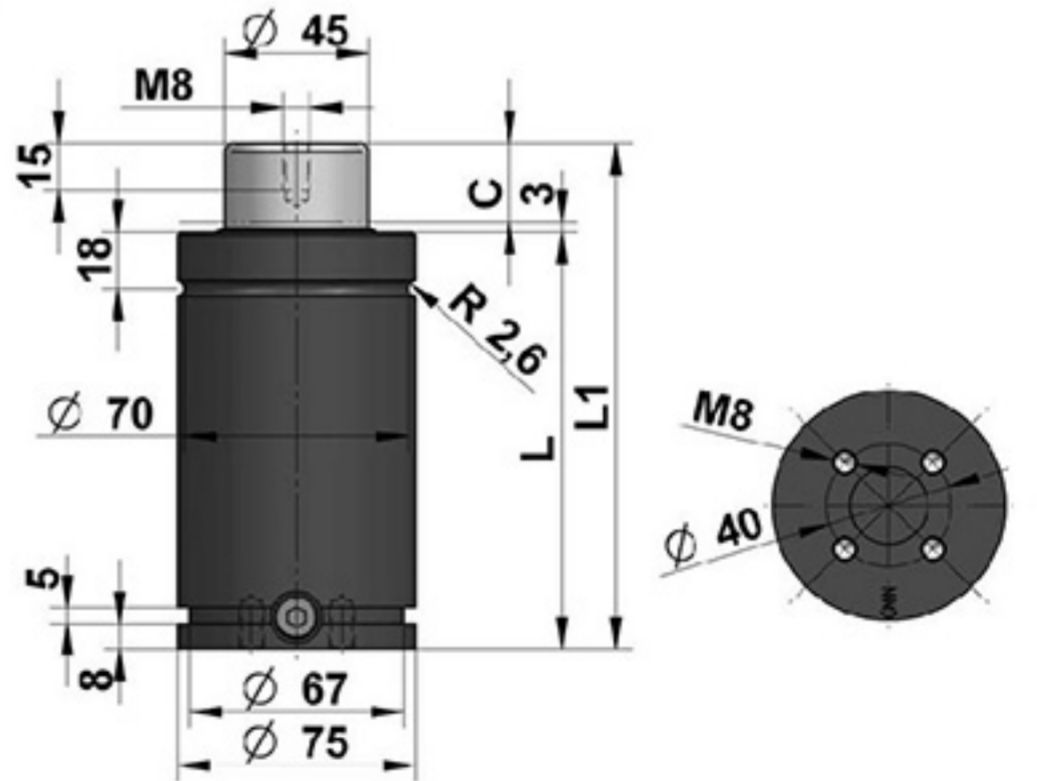
## CD 1000

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12,7	120,4	104,7	1000	1500
25	145	117		
38	171	130		
50	195	142		
63,5	222	155,5		
80	255	172		
100	295	192		
125	345	217		
160	415	252		
200	495	292		
250	595	342		
300	695	392		
UYGUN FLANŞLAR				
A04-050 / A14-050 / A24-050 / A34-050 / B11-050 B21-050 / B51-050 / C05-050 / C20-050 / D02-050				



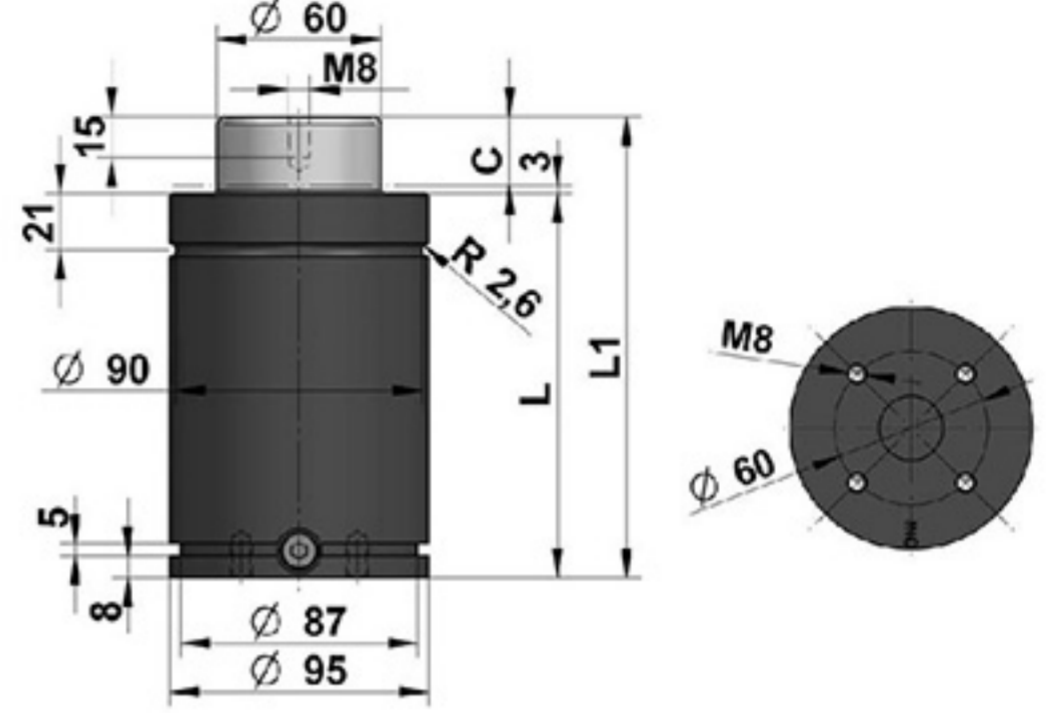
## CD 2400

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
25	160	135	2400	3600
38	186	148		
50	210	160		
63,5	237	173,5		
80	270	190		
100	310	210		
125	360	235		
160	430	270		
200	510	310		
250	610	360		
300	710	410		
UYGUN FLANŞLAR				
A04-075 / A14-075 / A24-075 / A34-075 / B11-075 B16-075 / B21-075 / C05-075 / C20-075 / D02-075				



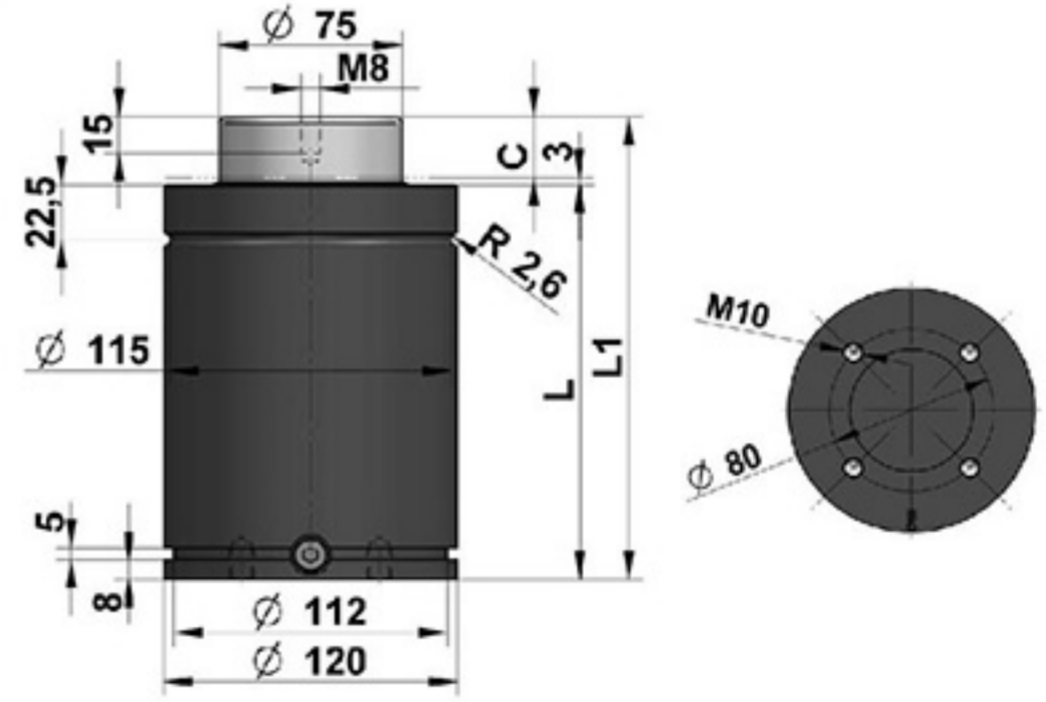
## CD 4200

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
25	170	145	4200	6300
38	196	158		
50	220	170		
63,5	247	183,5		
80	280	200		
100	320	220		
125	370	245		
160	440	280		
200	520	320		
250	620	370		
300	720	420		
<b>UYGUN FLANŞLAR</b>				
A04-095 / A14-095 / A24-095 / A34-095 / B11-095 B16-095 / B21-095 / C05-095 / C20-095 / D02-095				



## CD 6600

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
25	190	165	6600	9900
38	216	178		
50	240	190		
63,5	267	202,5		
80	300	220		
100	340	240		
125	390	265		
160	460	300		
200	540	340		
250	640	390		
300	740	440		
<b>UYGUN FLANŞLAR</b>				
A04-120 / A14-120 / A24-120 / A34-120 / B11-120 B16-120 / B21-120 / C05-120 / C20-120 / D02-120				



## CP SERİSİ

### 180BAR BASINÇLI KOMPAKT SERİ ÖZELLİKLERİ

TESİSAT BAĞLANTISINA UYGUN

Dolum basıncı : 20bar – 180bar

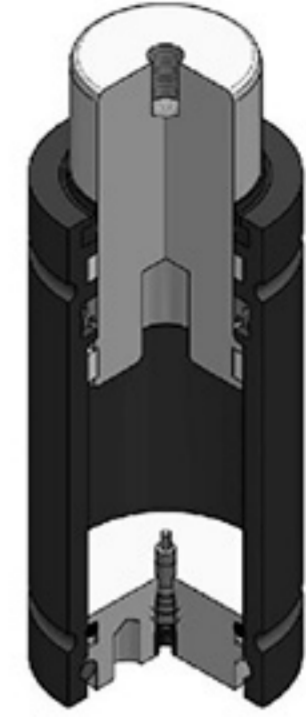
Maks. piston hızı : 0,6m/s

Dolum imkanı : EVET

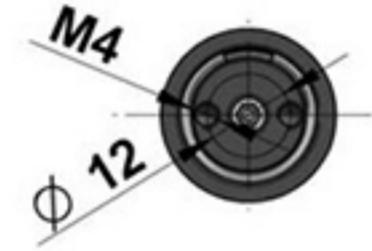
Tesisat imkanı : CPS ve CPHS SERİLERİNDE

### CP 300

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	75	65	300	480
15	85	70		
25	105	80		
38	135	97		
50	160	110		
63	190	127		
80	225	145		
<b>UYGUN FLANŞLAR</b>				
A04-025 / A09-025 / D02-025				

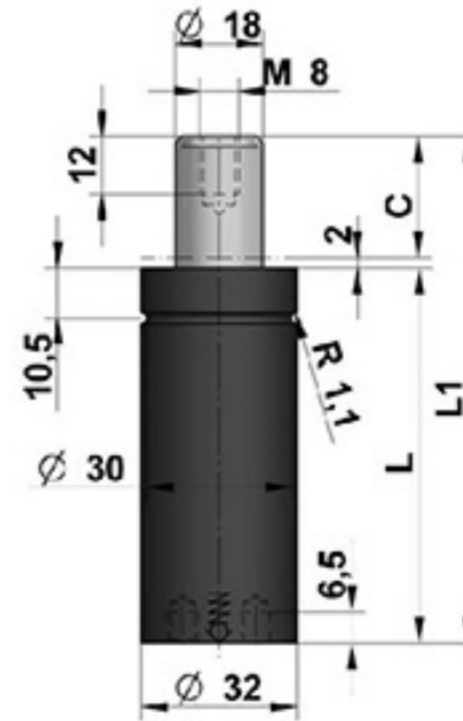


M6 DOLUM

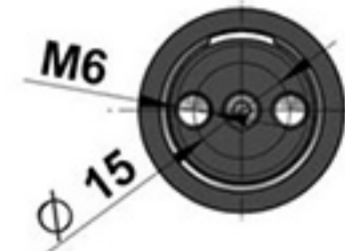


### CP 500

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	75	65	500	800
15	85	70		
25	105	80		
38	135	97		
50	160	110		
63	195	132		
80	230	150		
<b>UYGUN FLANŞLAR</b>				
A04-032 / A14-032 / D02-032				

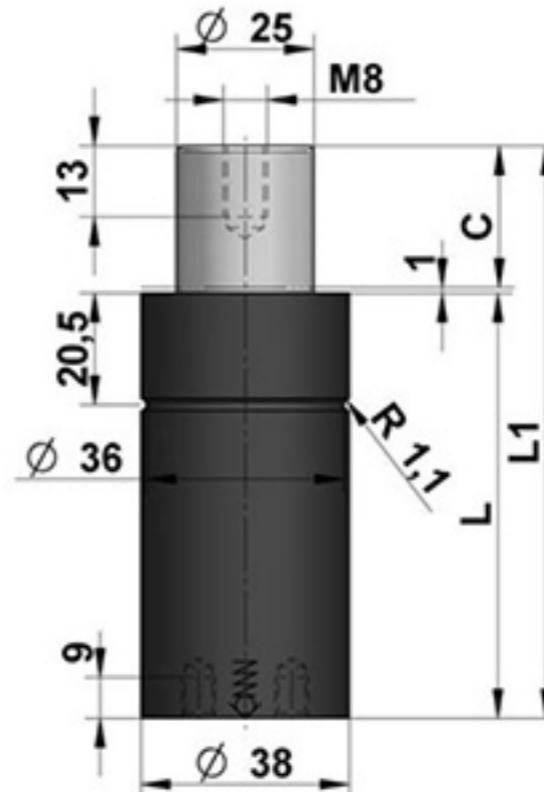


M4 DOLUM

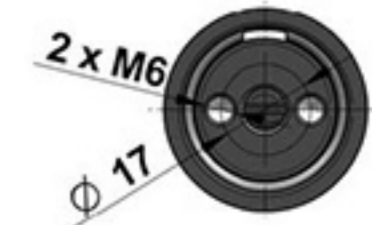


### CPH 850

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	74	62	850	1450
25	100	75		
38	130	92		
50	155	105		
63	185	122		
80	225	145		
<b>UYGUN FLANŞLAR</b>				
A04-038 / A14-038 / A24-038 / A34-038 / D02-038				

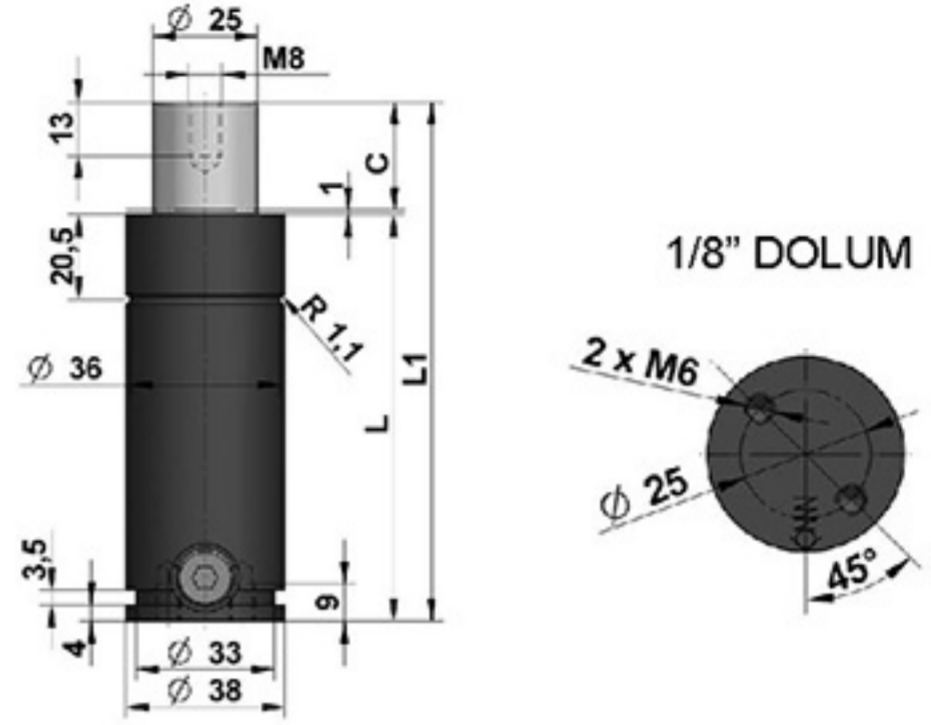


M6 DOLUM



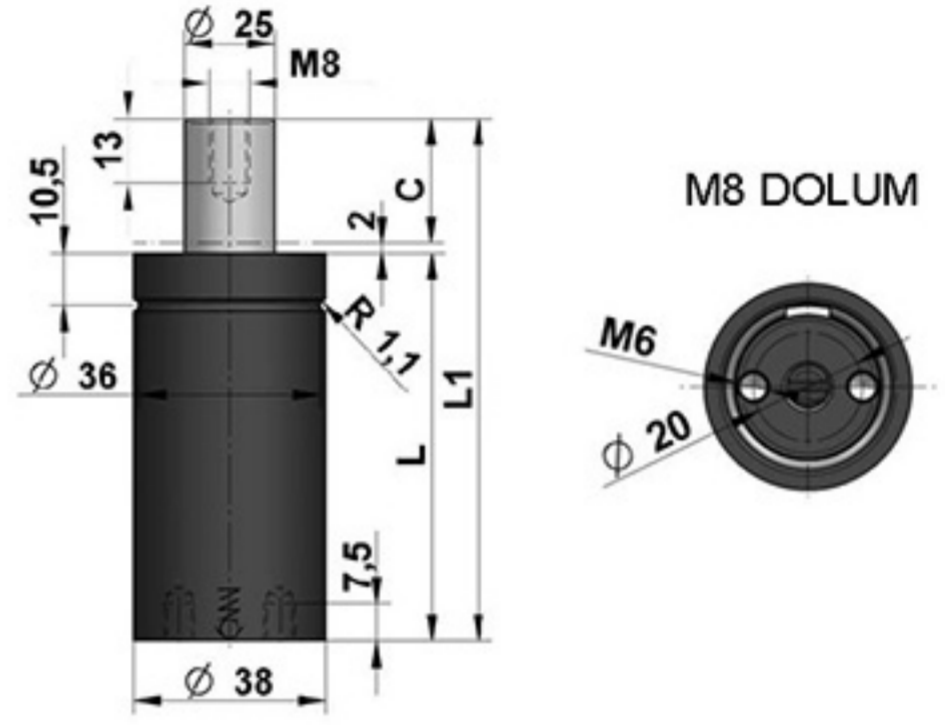
## CPHS 850

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	94	82	850	1450
25	120	95		
38	150	102		
50	175	125		
63	205	142		
80	245	165		
<b>UYGUN FLANŞLAR</b>				
A14-038 / A24-038 / A34-038 / C20-038				



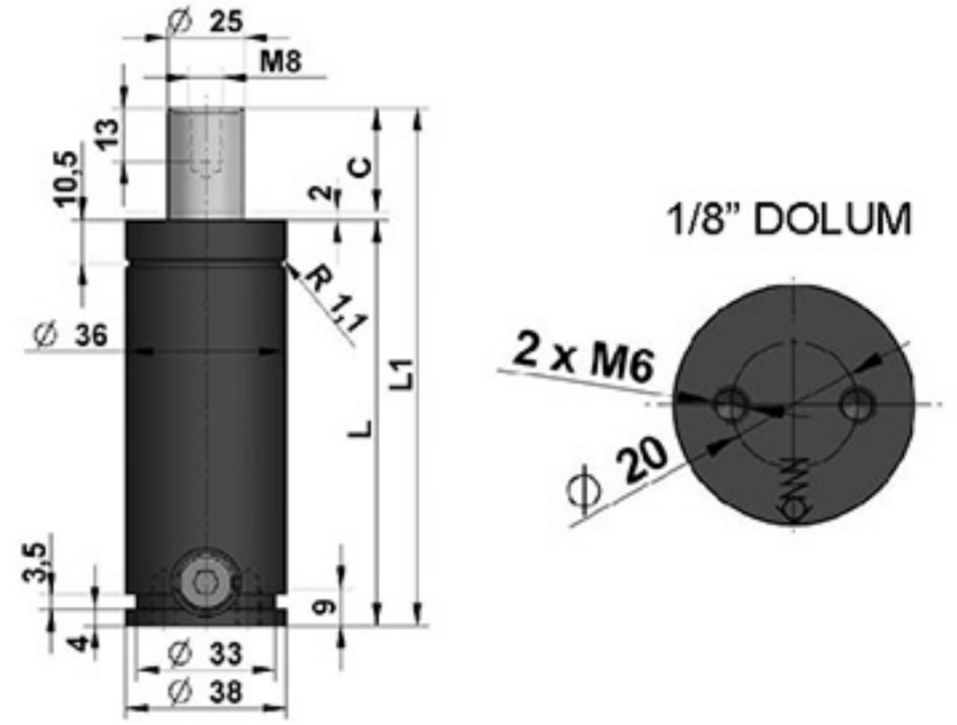
## CP 1000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	75	65	1000	1600
15	85	70		
25	105	80		
38	135	97		
50	160	110		
63	205	142		
80	240	160		
<b>UYGUN FLANŞLAR</b>				
A04-038 / A14-038 / A24-038 / A34-038 / D02-038				



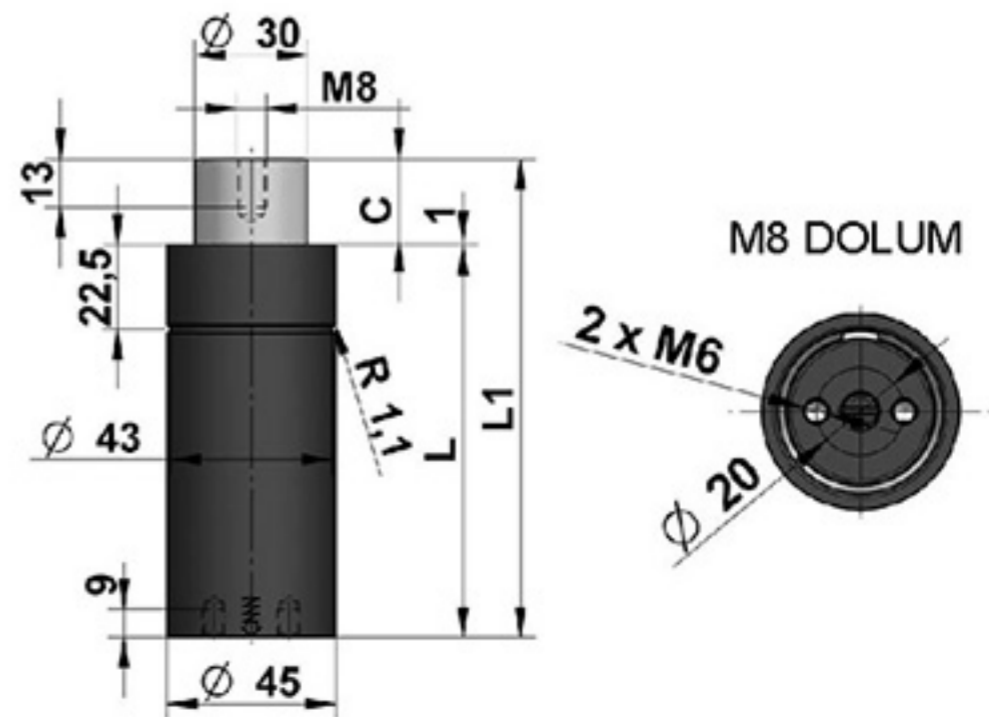
## CPS 1000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	95	85	1000	1600
15	105	90		
25	125	100		
38	155	117		
50	180	130		
63	225	162		
80	265	180		
<b>UYGUN FLANŞLAR</b>				
A14-038 / A24-038 / A34-038 / C20-038				



## CPH 1250

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	79	67	1250	2150
25	105	80		
38	135	97		
50	160	110		
63	190	127		
80	230	150		
<b>UYGUN FLANŞLAR</b>				
A04-045 / A14-045 / A24-045 / A34-045 B36-045 / B41-045 / D02-045				

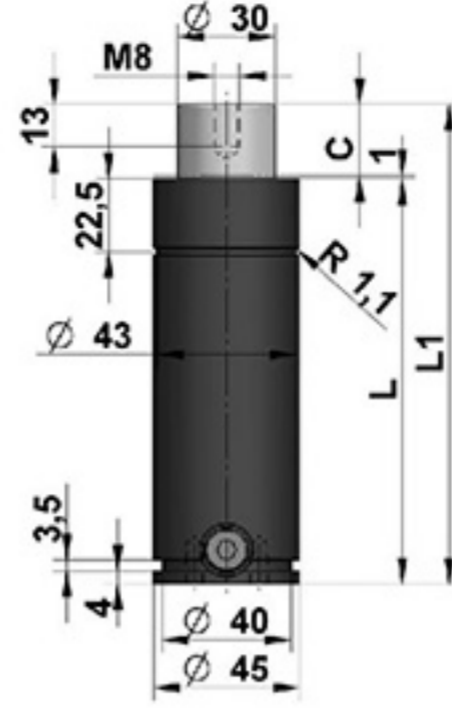


## CPHS 1250

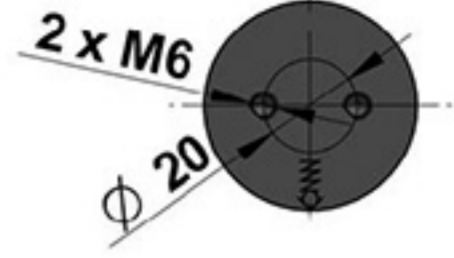
STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	99	87	1250	2150
25	125	100		
38	155	117		
50	180	130		
63	210	147		
80	250	170		

### UYGUN FLANŞLAR

A14-045 / A34-045 / C20-045 / D02-045



1/8" DOLUM

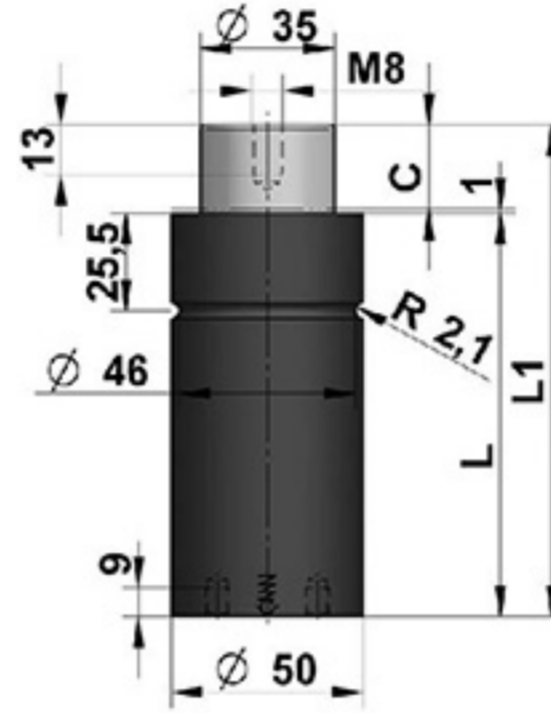


## CPH 1700

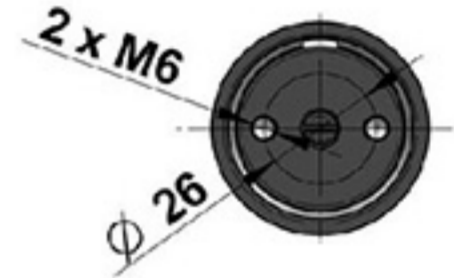
STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	84	72	1700	2850
25	110	85		
38	140	102		
50	165	115		
63	195	132		
80	235	155		

### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050  
B36-050 / B41-050 / D02-050



M6 DOLUM

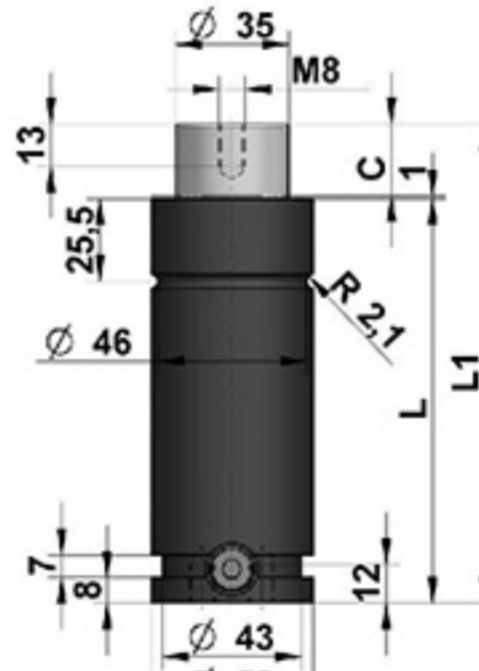


## CPHS 1700

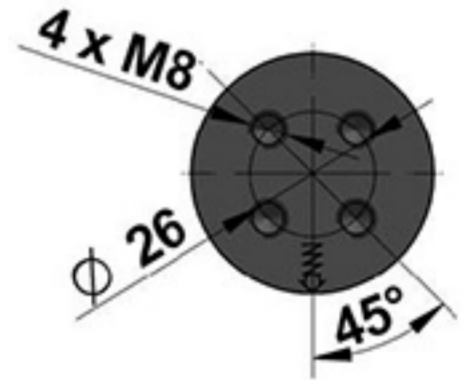
STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	104	92	1700	2850
25	130	105		
38	160	122		
50	185	135		
63	215	152		
80	255	175		

### UYGUN FLANŞLAR

A14-050 / A24-050 / A34-050 / C20-050



1/8" DOLUM

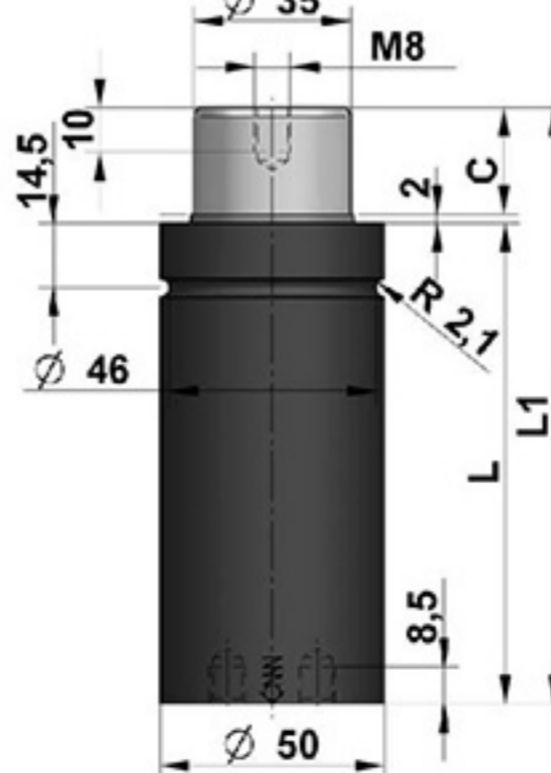


## CP 2000

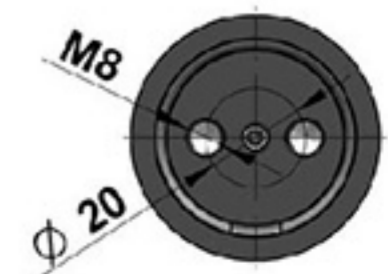
STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	90	80	2000	3200
15	115	100		
25	135	110		
38	165	125		
50	190	140		
63	220	157		
80	255	175		

### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050  
B36-050 / B41-050 / D02-050



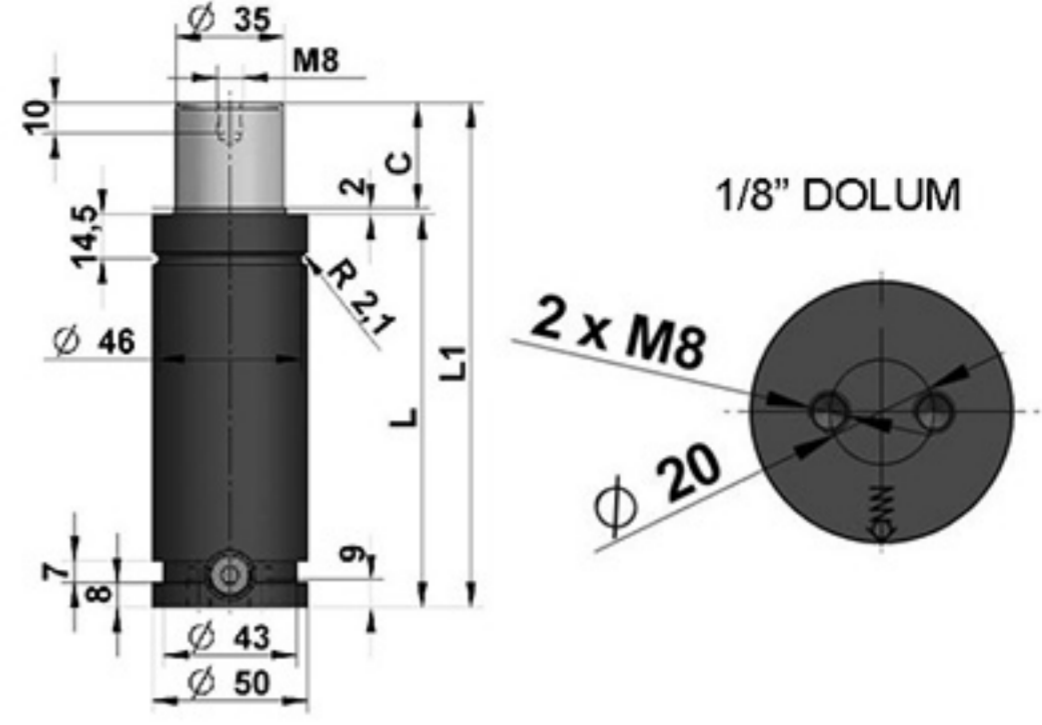
M8 DOLUM





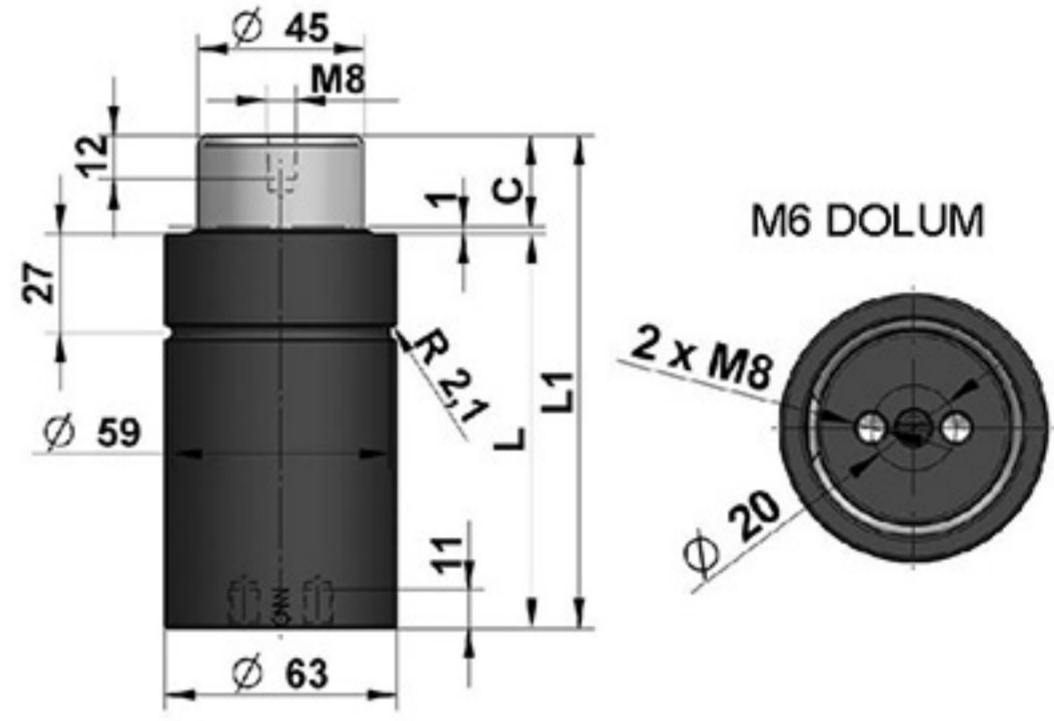
## CPS 2000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	110	100	2000	3200
15	135	120		
25	155	130		
38	185	145		
50	210	160		
63	240	177		
80	275	195		
<b>UYGUN FLANŞLAR</b>				
A14-050 / A24-050 / A34-050 / C20-050				



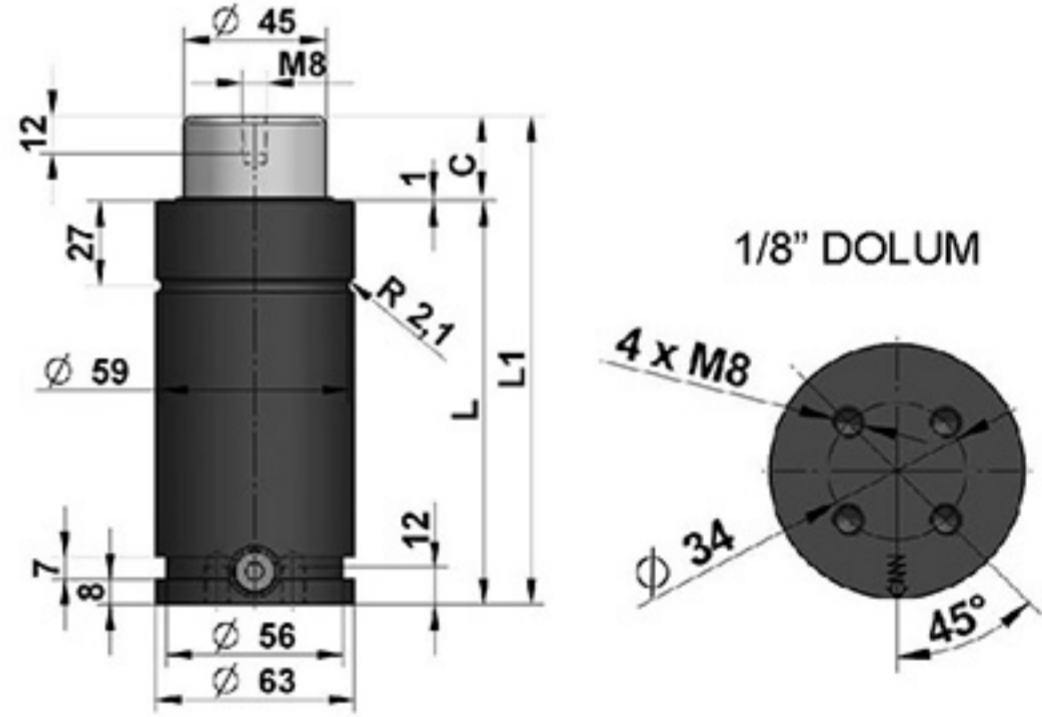
## CPH 2800

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	94	82	2800	4700
25	120	95		
38	150	112		
50	175	125		
63	210	147		
80	250	170		
<b>UYGUN FLANŞLAR</b>				
A04-063 / A14-063 / A24-063 / A34-063 B36-063 / B41-063				



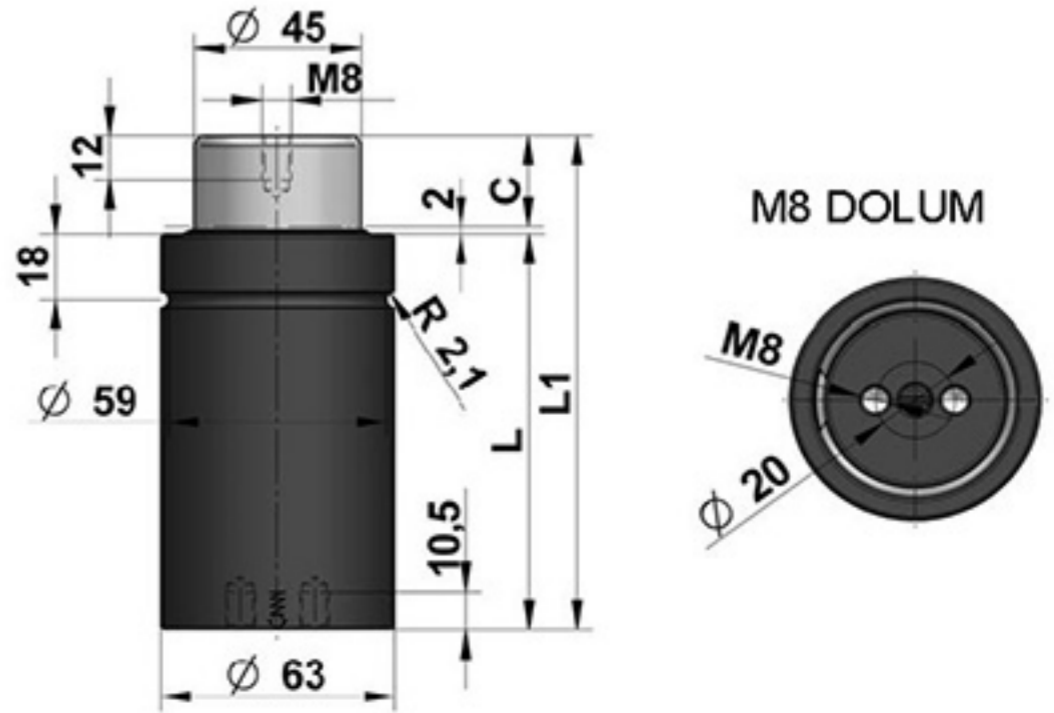
## CPHS 2800

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	114	102	2800	4700
25	140	115		
38	170	132		
50	195	145		
63	230	167		
80	270	190		
<b>UYGUN FLANŞLAR</b>				
A14-063 / A24-063 / A34-063 / C20-063				



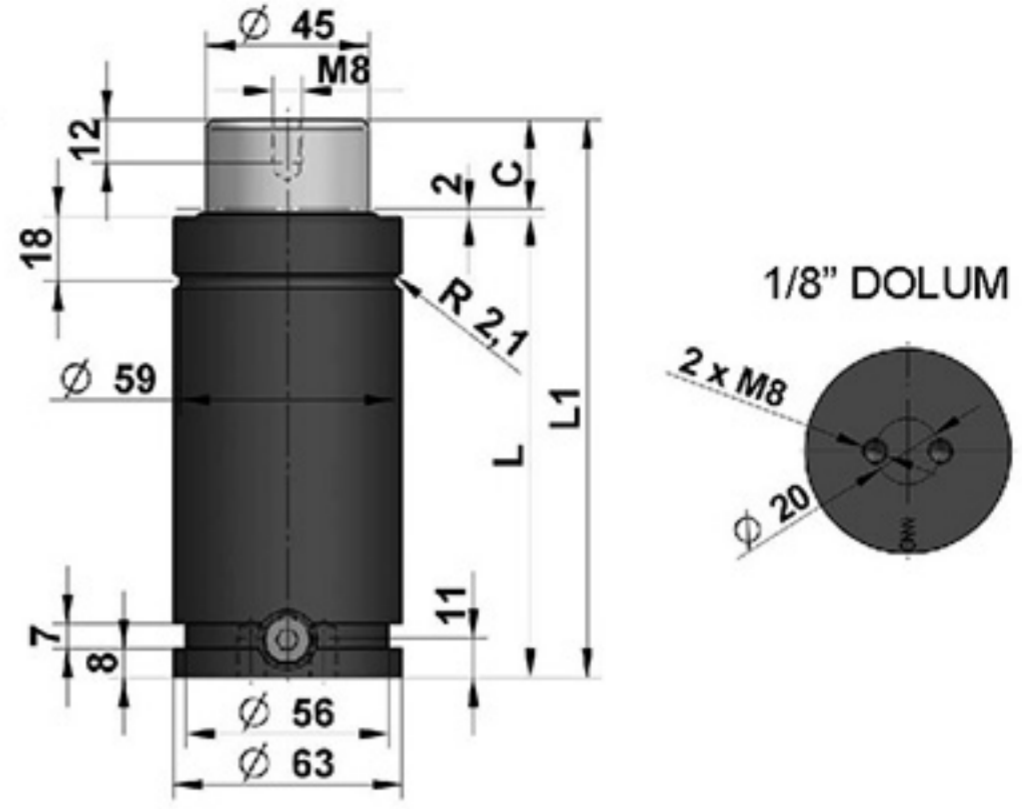
## CP 3000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	95	85	3000	4800
15	115	100		
25	135	110		
38	165	127		
50	190	140		
63	220	157		
80	255	175		
<b>UYGUN FLANŞLAR</b>				
A04-063 / A14-063 / A24-063 / A34-063 B36-063 / B41-063				



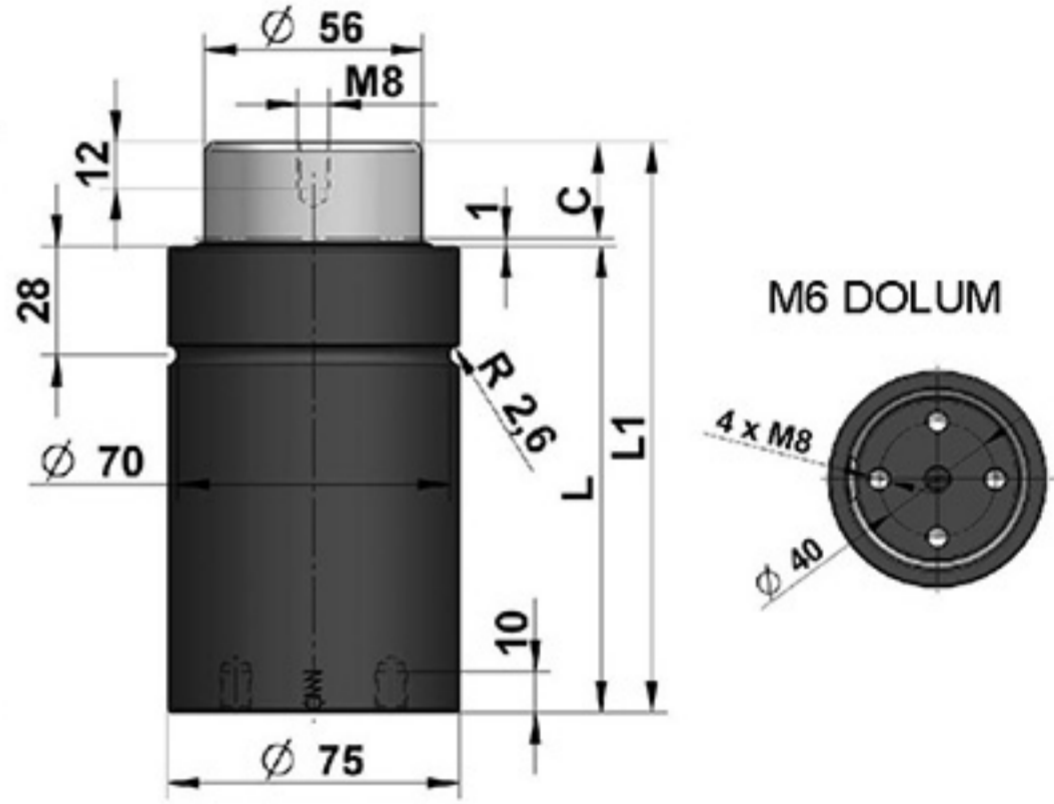
## CPS 3000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	115	105	3000	4800
15	135	120		
25	155	130		
38	185	147		
50	210	160		
63	240	177		
80	275	195		
<b>UYGUN FLANŞLAR</b>				
A14-063 / A24-063 / A34-063 / C20-063				



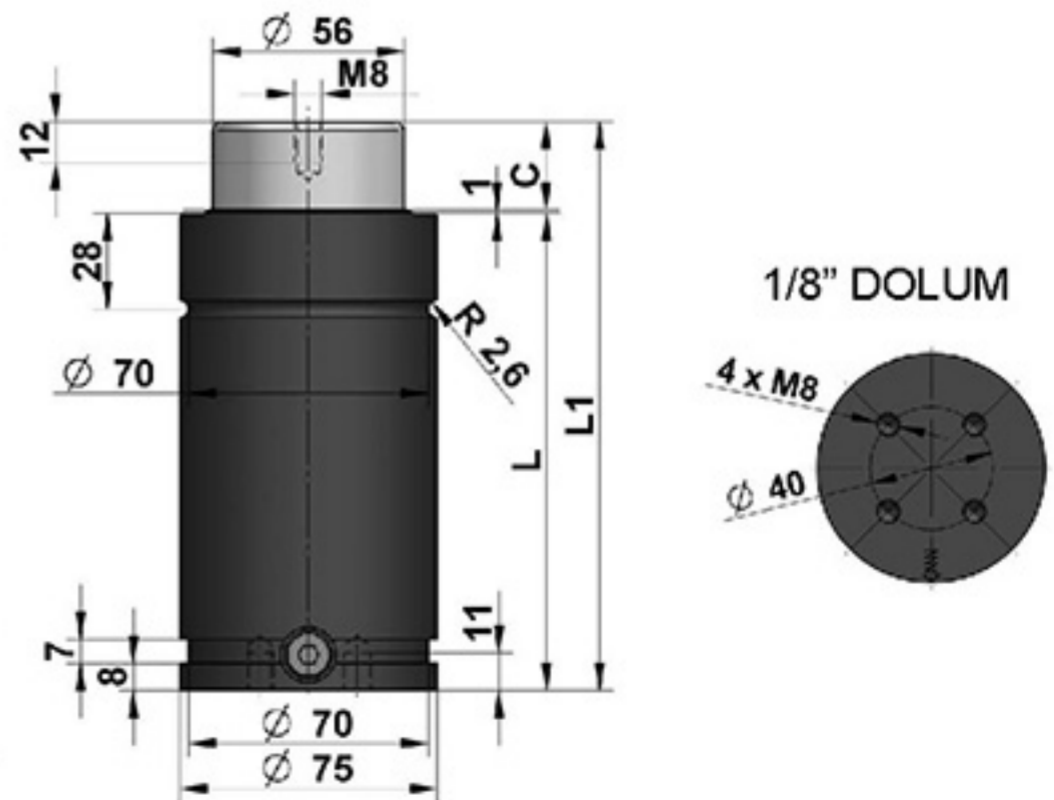
## CPH 4300

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	94	82	4300	7200
25	120	95		
38	150	112		
50	175	125		
63	210	147		
80	250	170		
<b>UYGUN FLANŞLAR</b>				
A04-075 / A14-075 / A34-075 B36-075 / B41-075 / D02-075				



## CPHS 4300

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12	114	102	4300	7200
25	140	115		
38	170	132		
50	195	145		
63	230	167		
80	270	190		
<b>UYGUN FLANŞLAR</b>				
A14-075 / A34-075 / C20-075 / D02-075				



## CR SERİSİ

### KISA KOMPAKT SERİ ÖZELLİKLERİ

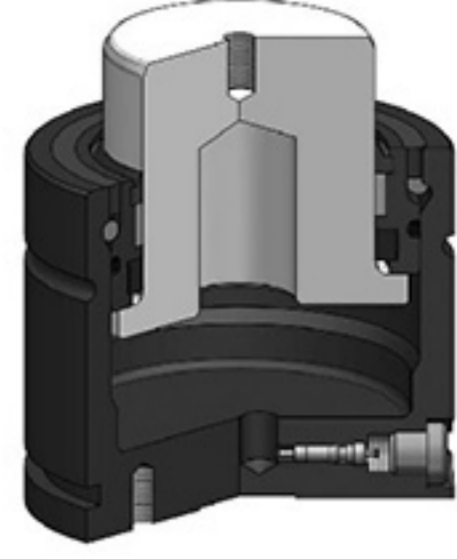
EN KISA BOYDA EN YÜKSEK KUVVET

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

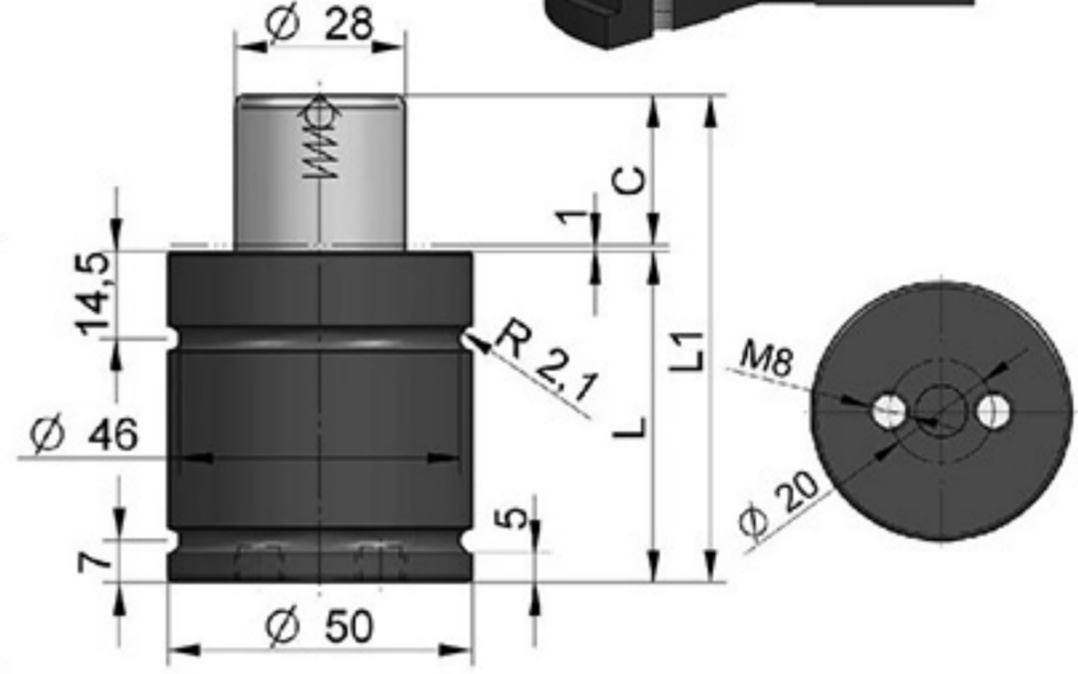
Dolum imkanı : EVET

Tesisat imkanı : EVET



### CR 1000

STROK	L1 ±0.25 (mm)	Lmin+0.2 (mm)	KUVVET (daN)	
			İLK	SON
10	51	41	1000	1700
13	57	44		
19	69	50		
25	81	56		
38	107	69		
50	131	81		
63	157	94		
80	191	111		

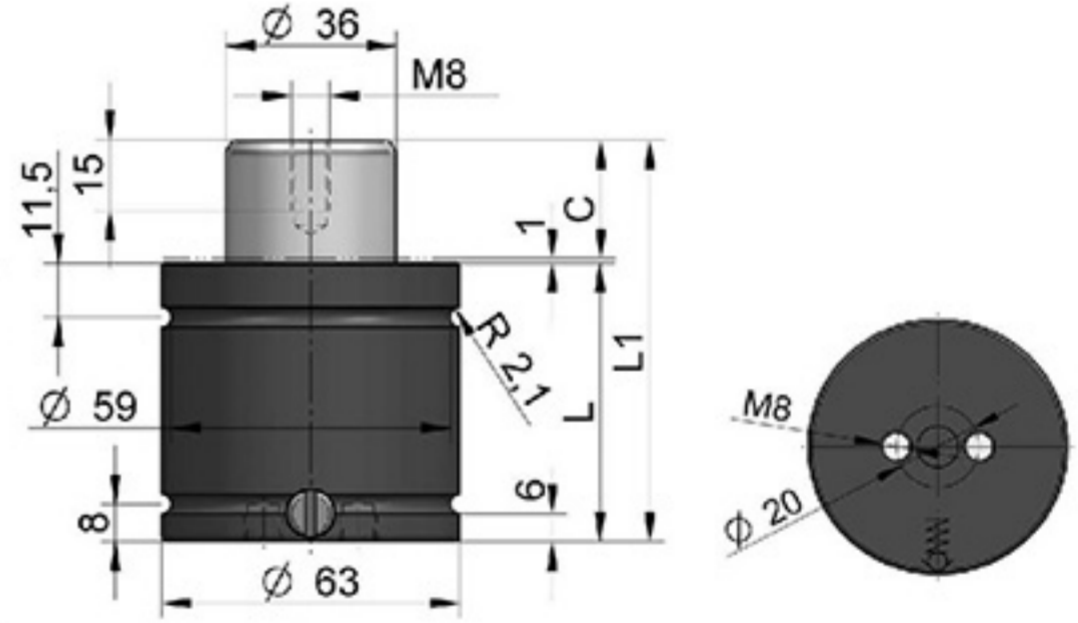


#### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050  
B36-050 / B41-050 / C05-050 / C20-050 / D02-050

### CR 1500

STROK	L1 ±0.25 (mm)	Lmin+0.2 (mm)	KUVVET (daN)	
			İLK	SON
10	55	45	1500	2400
25	85	60		
38	111	73		
50	135	85		
63	161	98		
80	195	115		
100	235	135		

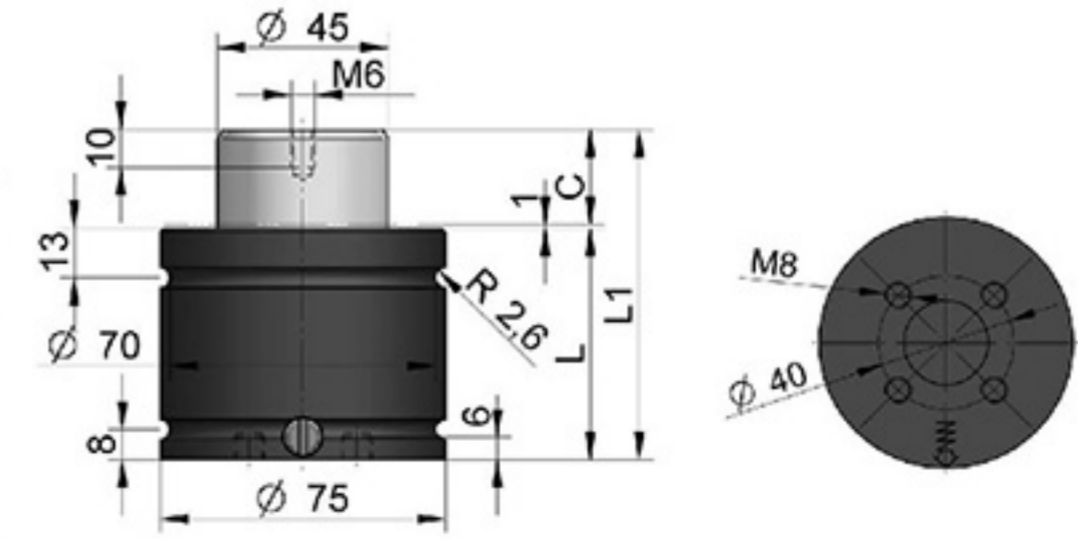


#### UYGUN FLANŞLAR

A04-063 / A14-063 / A24-063 / A34-063  
B36-063 / B41-063

### CR 2400

STROK	L1 ±0.25 (mm)	Lmin+0.2 (mm)	KUVVET (daN)	
			İLK	SON
10	57	47	2400	3900
25	87	62		
38	113	75		
50	137	87		
63	163	100		
80	197	117		
100	237	137		



#### UYGUN FLANŞLAR

A04-075 / A14-075 / A24-075 / A34-075  
B36-075 / B41-075 / D02-075

## CS SERİSİ

### KISA STROK YÜKSEK KUVVET KOMPAKT SERİ ÖZELLİKLERİ

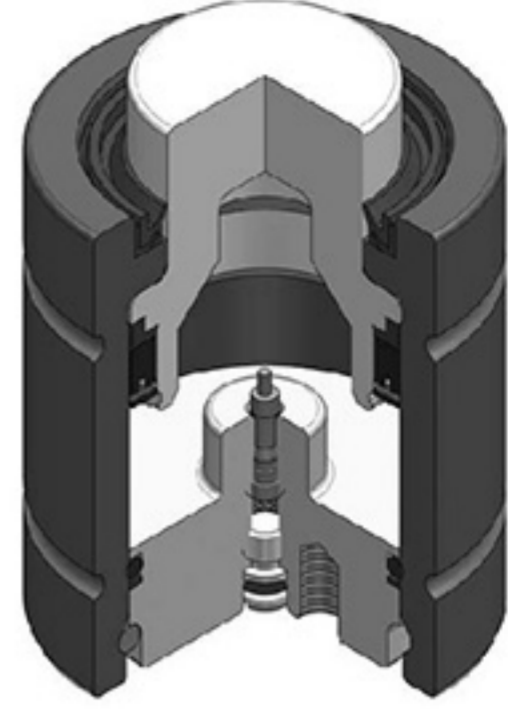
SIVIDAN KORUNMA GEREKLİLİĞİ VE 40 STROK/DAK. SINIRI

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 0,5m/s

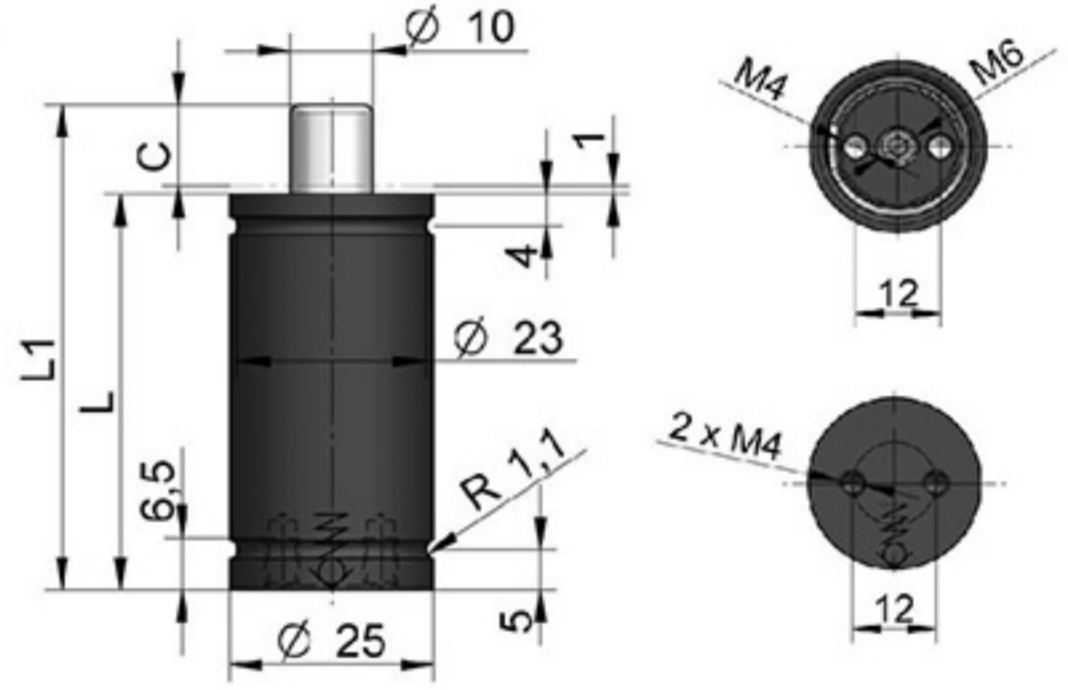
Dolum imkanı : EVET

Tesisat imkanı : EVET



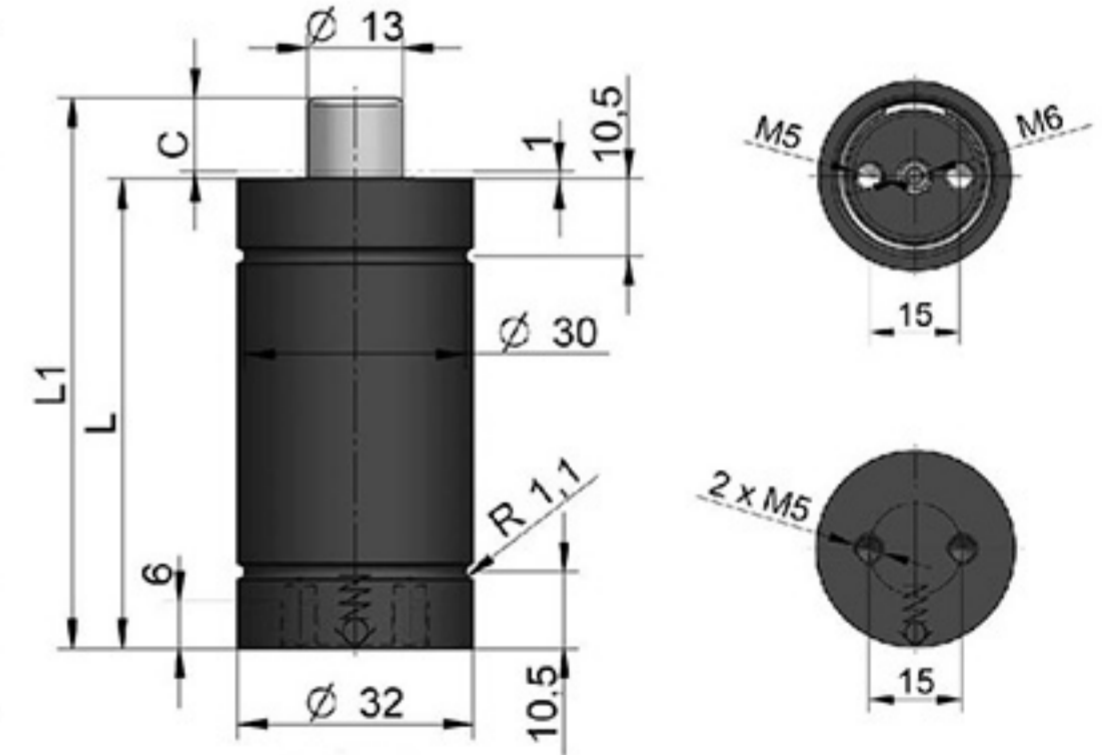
### CS 420 CSE 420

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
6	56	50	420	710
10	70	60		
16	91	75		
25	120	95		
32	140	108		
40	165	125		
50	195	145		
<b>UYGUN FLANŞLAR</b>				
A04-025 / D02-025				



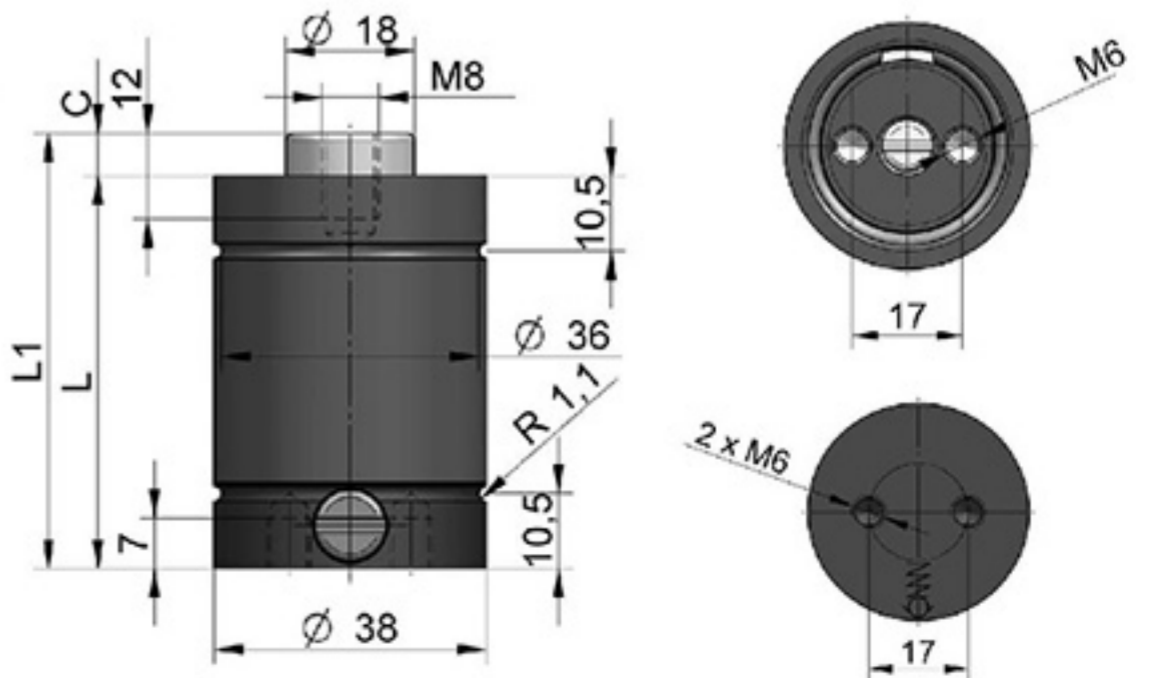
### CS 770 CSE 770

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
6	63	57	770	1310
10	75	65		
16	93	77		
25	120	95		
32	140	108		
40	165	125		
50	195	145		
<b>UYGUN FLANŞLAR</b>				
A04-032 / A14-032 / C20-032 / D02-032 / KNCS-770				



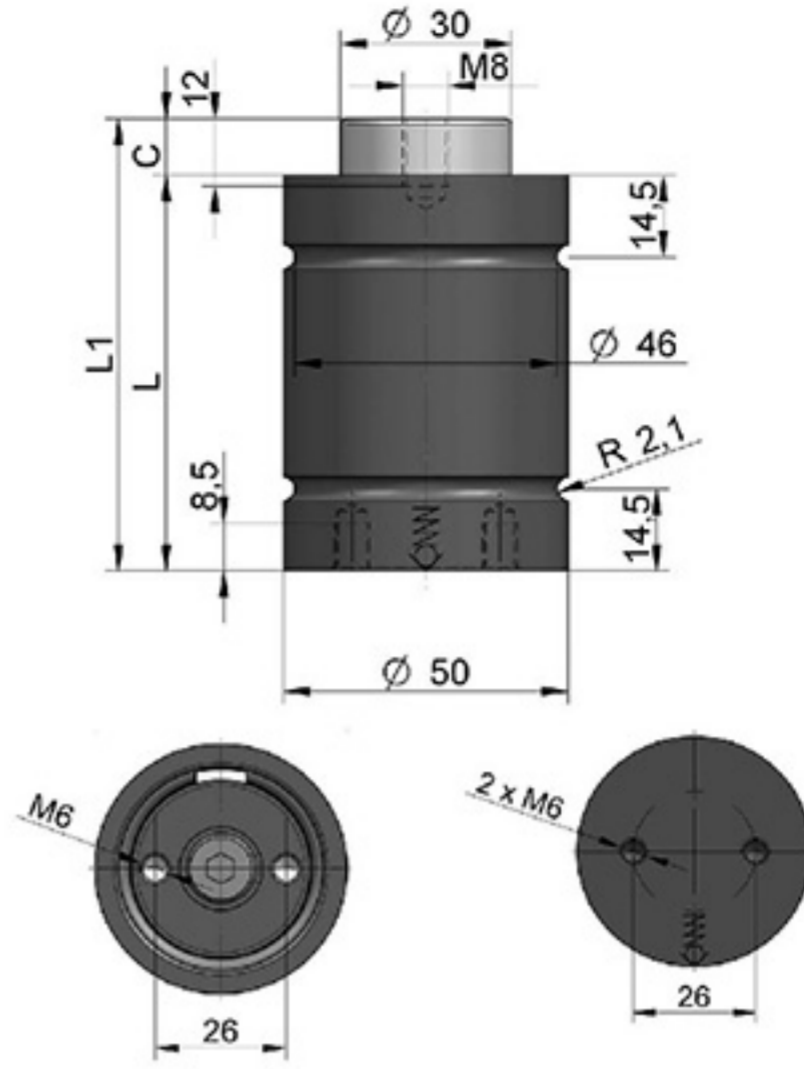
### CS 1000 CSE 1000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
6	61	55	1000	1750
10	77	77		
16	100	84		
25	135	110		
32	167	135		
40	195	155		
50	230	180		
<b>UYGUN FLANŞLAR</b>				
A04-038 / A14-038 / A24-038 / A34-038 C40-038 / D02-038 / KNCS-1000				



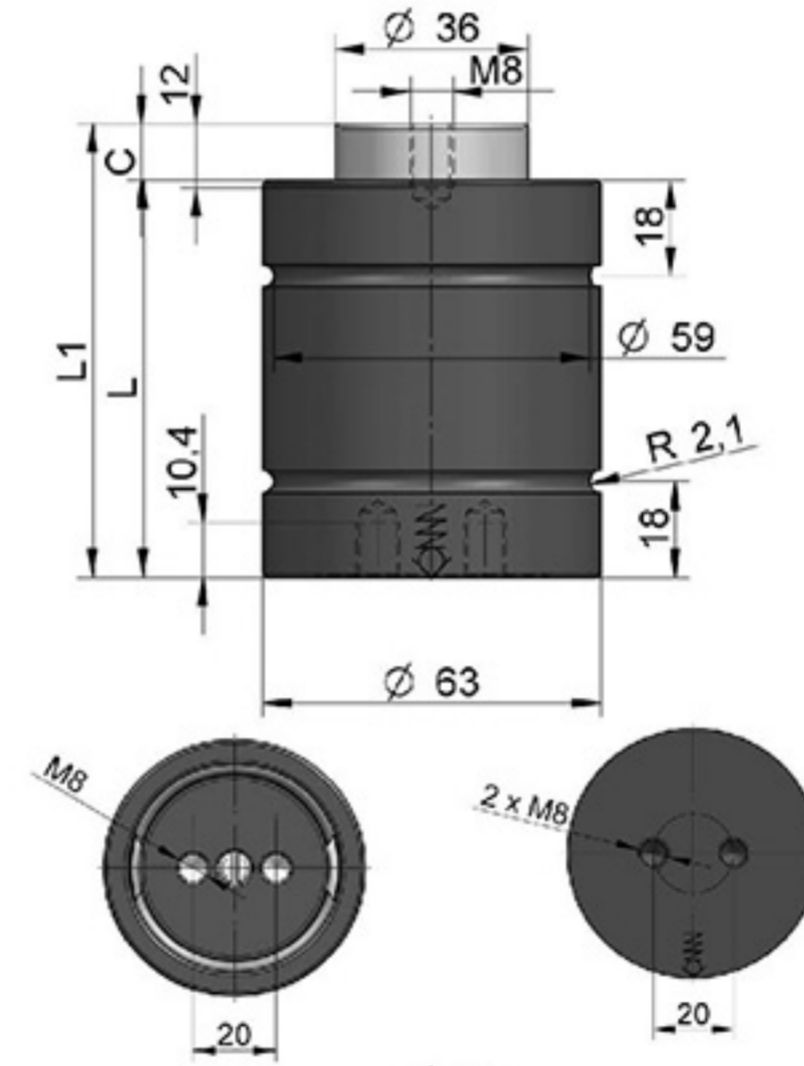
## CS 1800 CSE 1800

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
6	66	60	1800	3150
10	80	70		
16	106	90		
25	135	110		
32	162	130		
40	190	150		
50	220	170		
UYGUN FLANŞLAR				
A04-050 / A14-050 / A24-050 / A34-050 B46-050 / C20-050 / D02-050 / KNCS-1800				



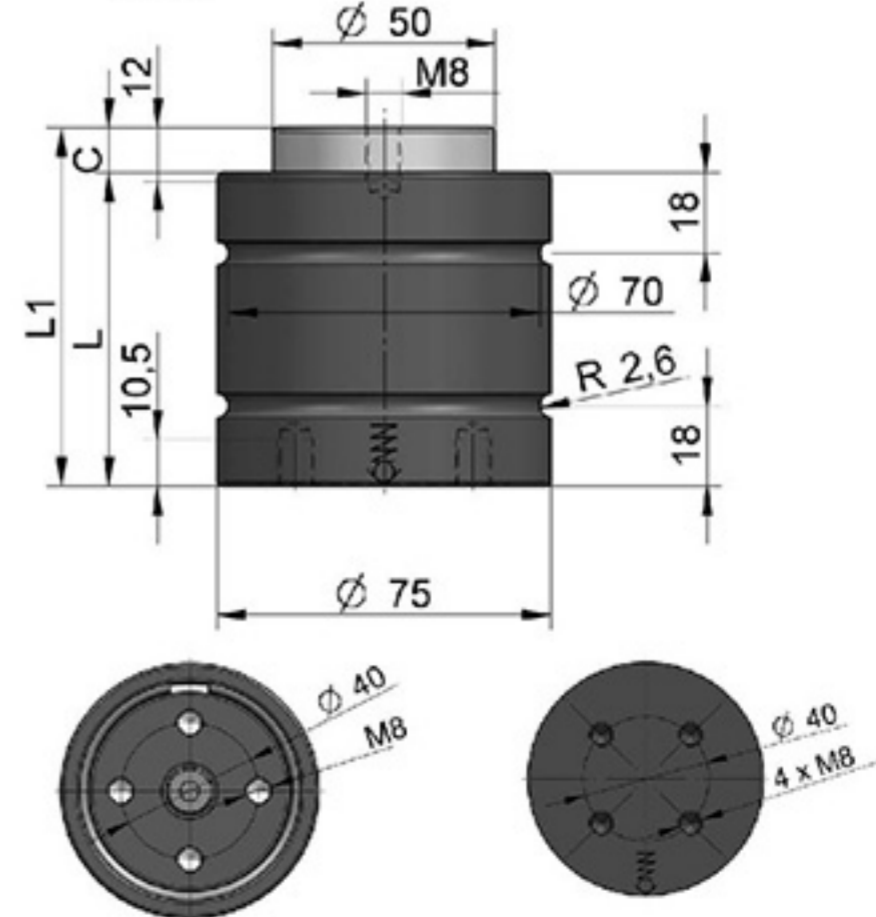
## CS 3000 CSE 3000

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	85	75	3000	5500
16	103	87		
25	130	105		
32	150	181		
40	175	135		
50	205	155		
UYGUN FLANŞLAR				
A04-063 / A14-063 / A24-063 / A34-063 B11-063 / B21-063 / C20-063 / KNCS-3000				



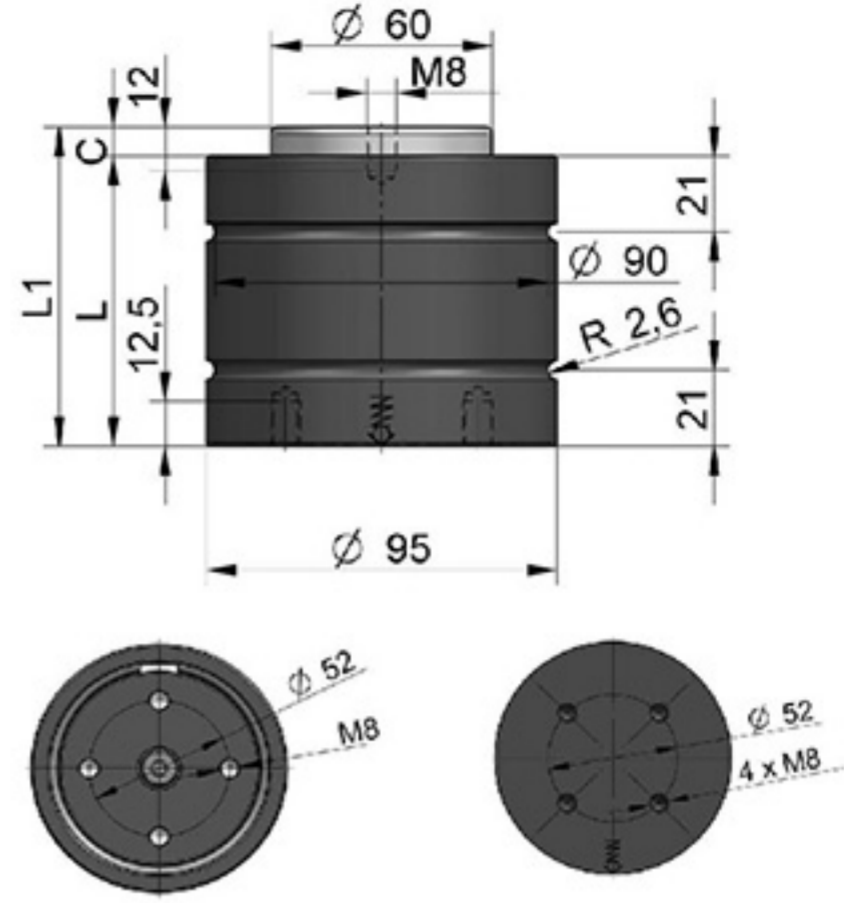
## CS 4700 CSE 4700

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	80	70	4700	8200
16	106	90		
25	135	110		
32	167	135		
40	200	160		
50	240	190		
UYGUN FLANŞLAR				
A04-075 / A14-075 / A34-075 / B11-075 / B16-075 B21-075 / C20-075 / D02-075 / KNCS-4700				



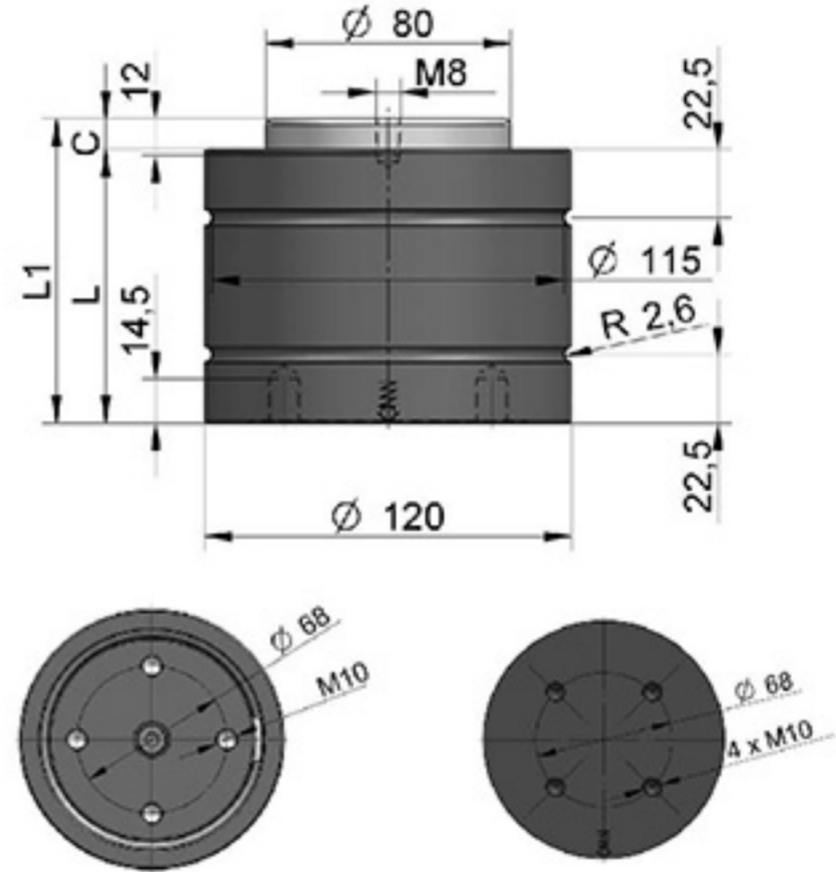
## CS 7500 CSE 7500

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	90	80	7500	13100
16	116	100		
25	145	120		
32	182	150		
40	210	170		
50	255	205		
<b>UYGUN FLANŞLAR</b>				
A04-095 / A14-095 / A24-095 / A34-095 C20-095 / D02-095 / KNCS-7500				



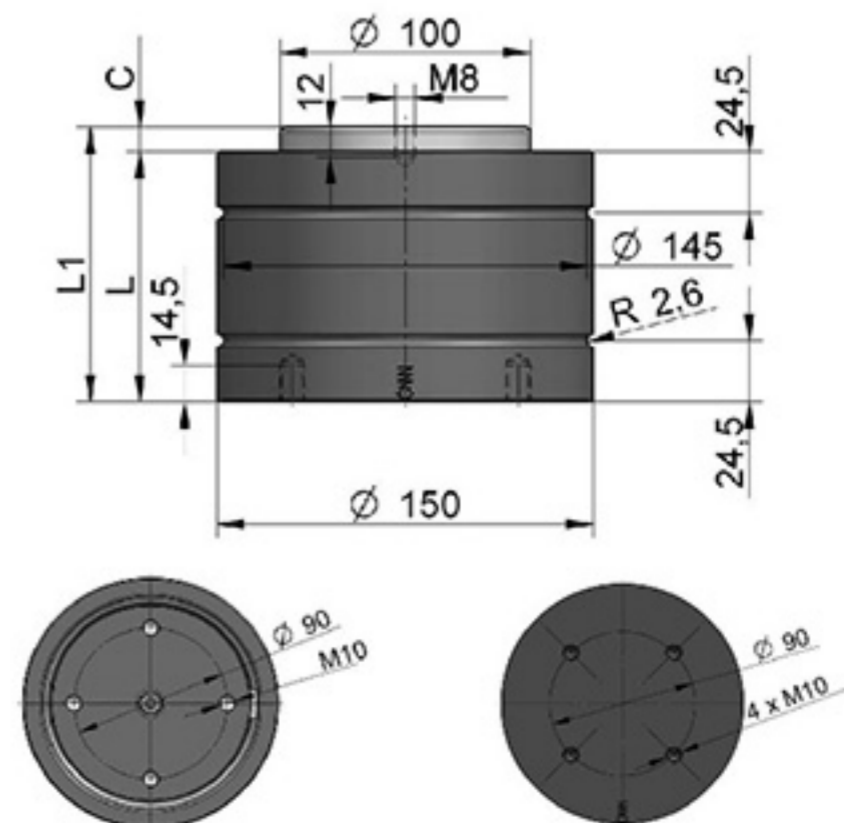
## CS 11800 CSE 11800

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	100	90	11800	20600
16	126	110		
25	155	130		
32	187	155		
40	220	180		
50	260	210		
<b>UYGUN FLANŞLAR</b>				
A04-120 / A14-120 / A24-120 / A34-120 C20-120 / D02-120 / KNCS-11800				



## CS 18300 CSE 18300

STROK	L1 ±0.5 (mm)	Lmin±0.1 (mm)	KUVVET (daN)	
			İLK	SON
10	110	100	18300	32000
16	136	120		
25	165	140		
32	197	165		
40	235	195		
50	270	220		
<b>UYGUN FLANŞLAR</b>				
A04-150 / A14-150 / A24-150 / A34-150 C20-150 / D02-150 / KNCS-18300				



## CT SERİSİ

### KÜÇÜK SERİ ÖZELLİKLERİ

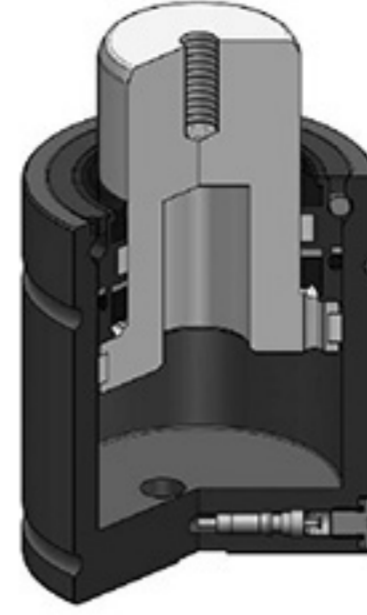
DÜNYADAKİ İLK KOMPAKT SERİ

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

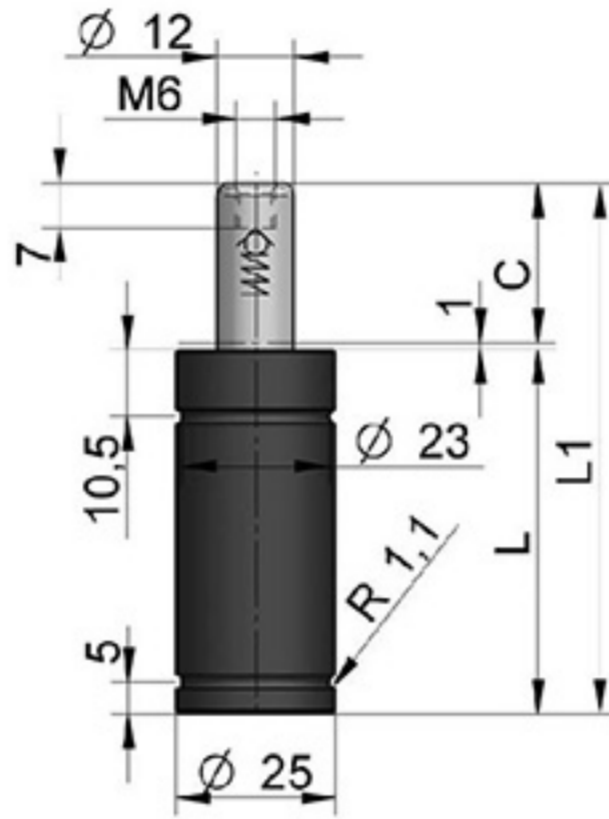
Dolum imkanı : EVET

Tesisat imkanı : EVET



### CT 200

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)
7	47	40
12,7	58,4	45,7
16	65	49
25	83	58
38	109	71
50	133	83
63,5	160	96,5
80	193	113,5
100	250	150
125	300	175



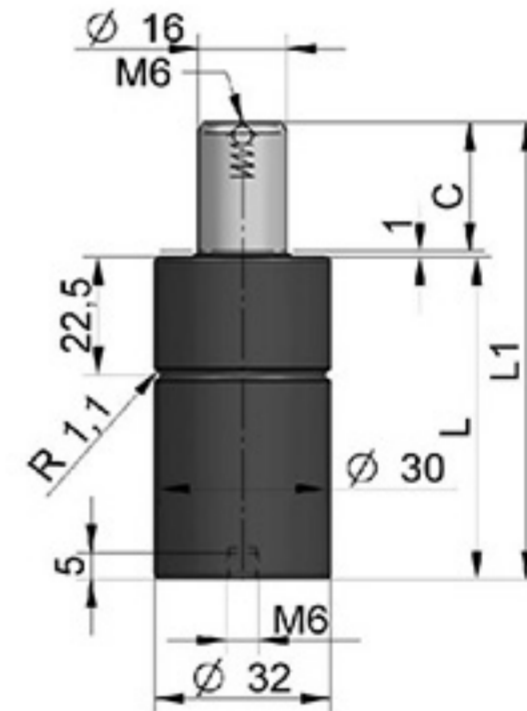
RENK	BASINÇ (bar)	KUVVET (daN)	
		İLK	SON
YEŞİL	38	50	80
MAVİ	75	100	165
KIRMIZI	113	150	250
SARI	150	200	330

#### UYGUN FLANŞLAR

A04-025 / A09-025 / D02-025

### CT 300

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
5	47	42	300	450
7	51	44		
10	57	47		
12	61	49		
16	69	53		
25	87	62		
38	113	75		
50	137	87		
63	163	100		
80	197	117		
100	237	137		

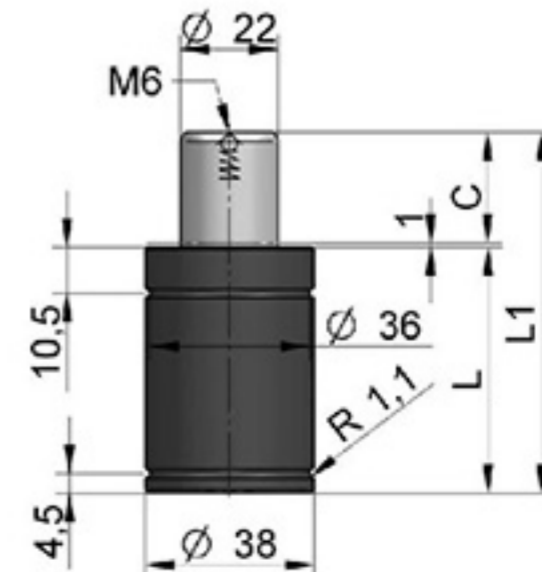


#### UYGUN FLANŞLAR

A04-032 / A14-032 / D02-032

### CT 550

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12	56	44	550	775
25	82	57		
38	108	70		
50	132	82		
63	158	95		
80	192	112		
100	232	132		
125	282	157		

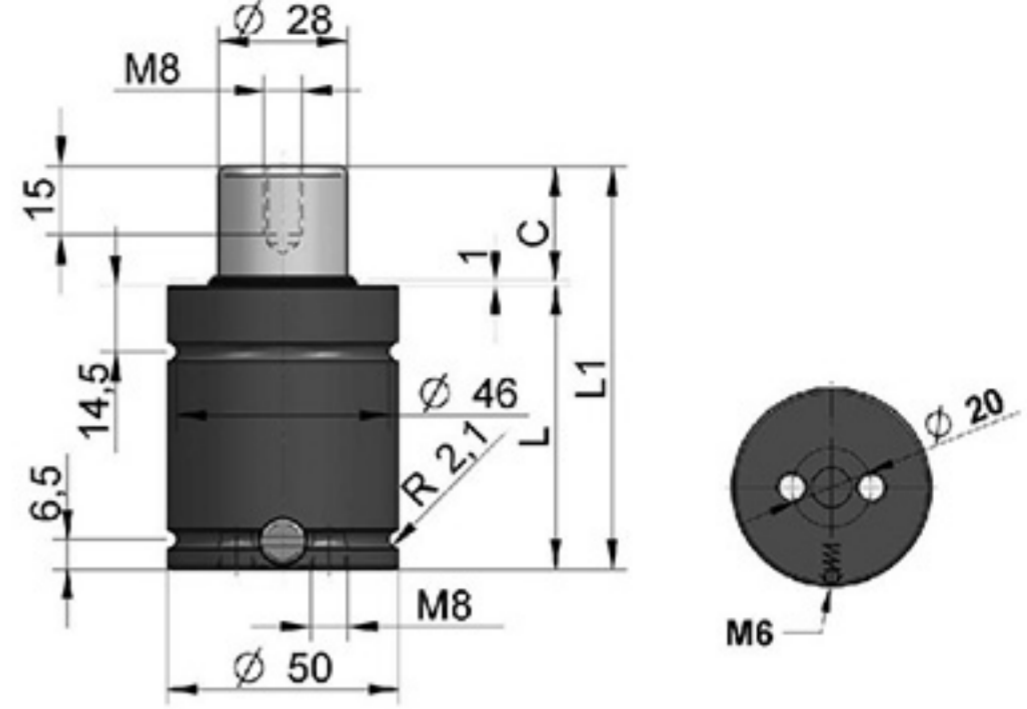


#### UYGUN FLANŞLAR

A04-038 / A14-038 / A34-038 / D02-038

## CT 750 CTC 750

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12	62	50	750	1125
19	76	57		
25	88	63		
32	102	70		
38	114	76		
50	138	88		
63	164	101		
75	188	113.5		
80	198	118		
100	238	138		
125	288	163		

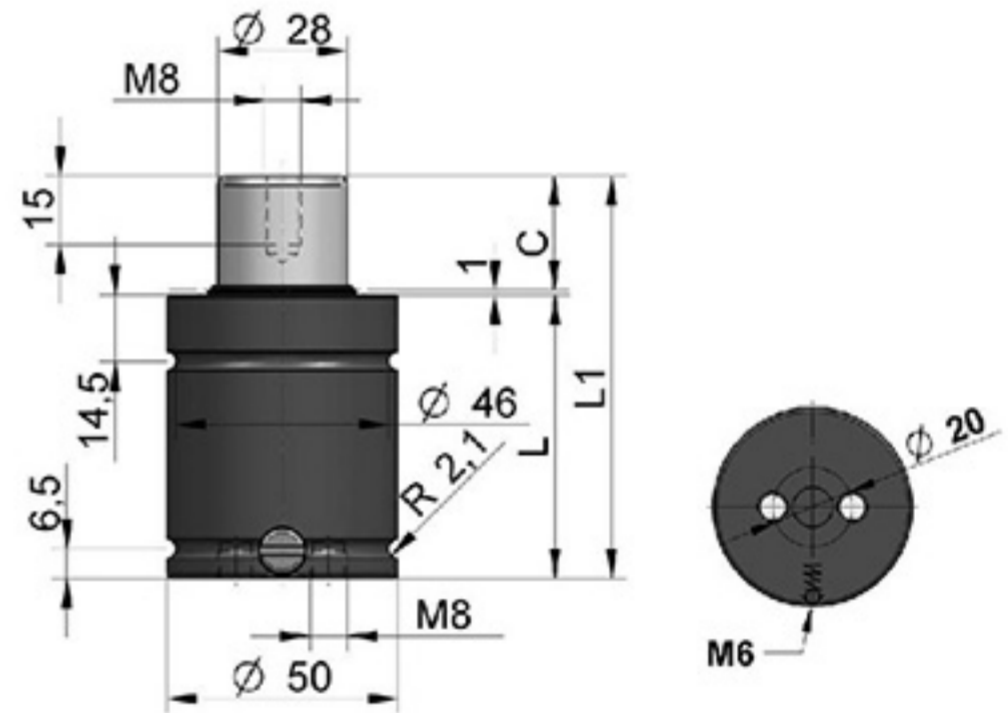


### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050  
B36-050 / B41-050 / D02-050

## CT 1000 CTC 1000

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
5	48	43	1000	1500
10	58	48		
12	62	50		
19	76	57		
25	88	63		
32	102	70		
38	114	76		
50	138	88		
63	164	101		
75	188	113		
80	198	118		
100	238	138		
125	288	163		

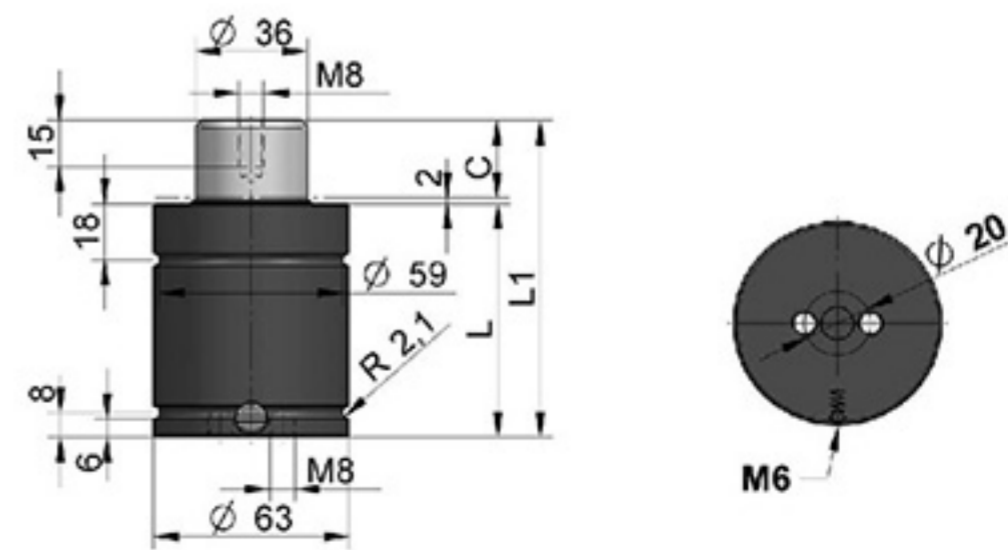


### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050  
B36-050 / B41-050 / D02-050

## CT 1500 CTC 1500

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12	76	64	1500	2250
25	102	77		
38	128	90		
50	152	102		
63	178	115		
80	212	132		
100	252	152		
125	302	177		



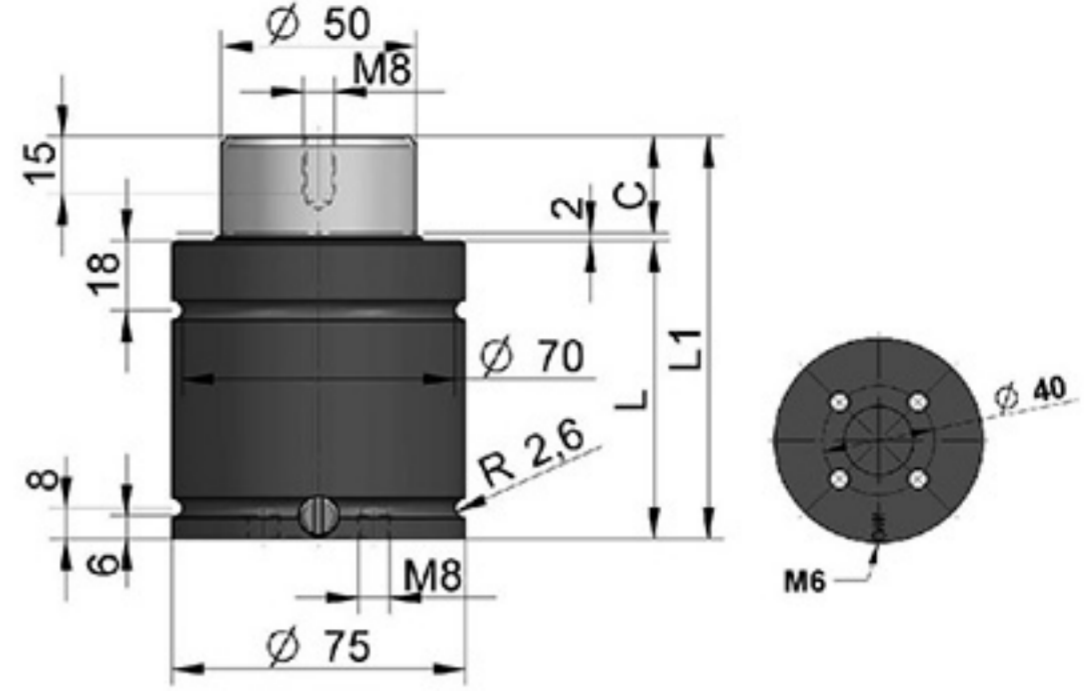
### UYGUN FLANŞLAR

A14-063 / A34-063 / B36-063 / B41-063



## CT 2500 CTC 2500

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12	78	66	2500	3750
25	104	79		
38	130	92		
50	154	104		
63	180	117		
80	214	134		
100	254	154		
125	304	179		
160	374	214		
200	454	254		

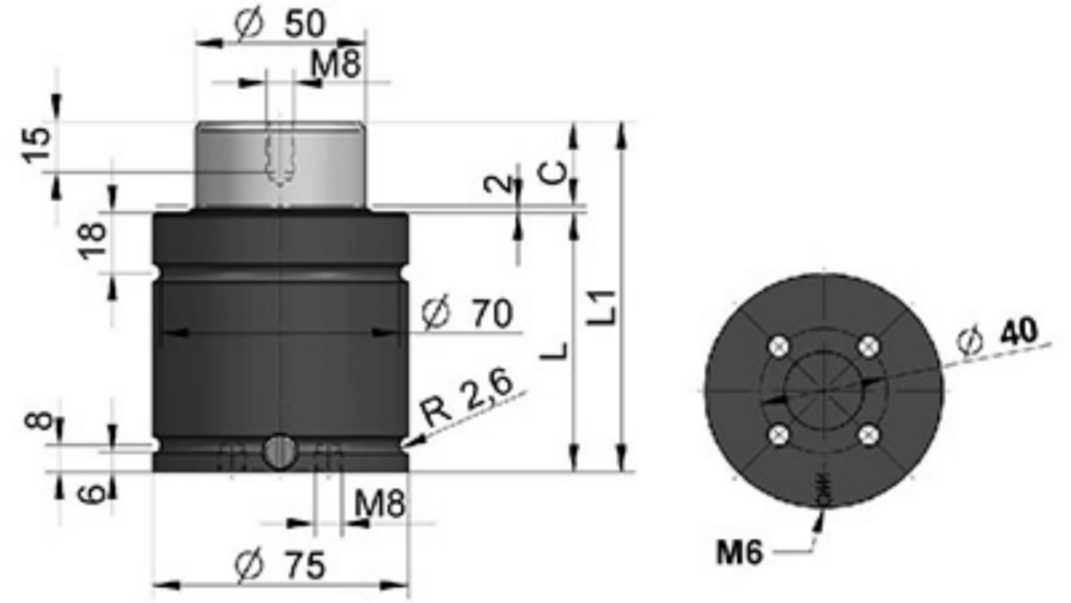


### UYGUN FLANŞLAR

A04-075 / A14-075 / A24-075 / A34-075  
B36-075 / B41-075 / D02-075

## CT 3000 CTC 3000

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12	78	66	3000	4500
25	104	79		
38	130	92		
50	154	104		
63	180	117		
80	214	134		
100	254	154		
125	304	179		
160	374	214		
200	454	254		

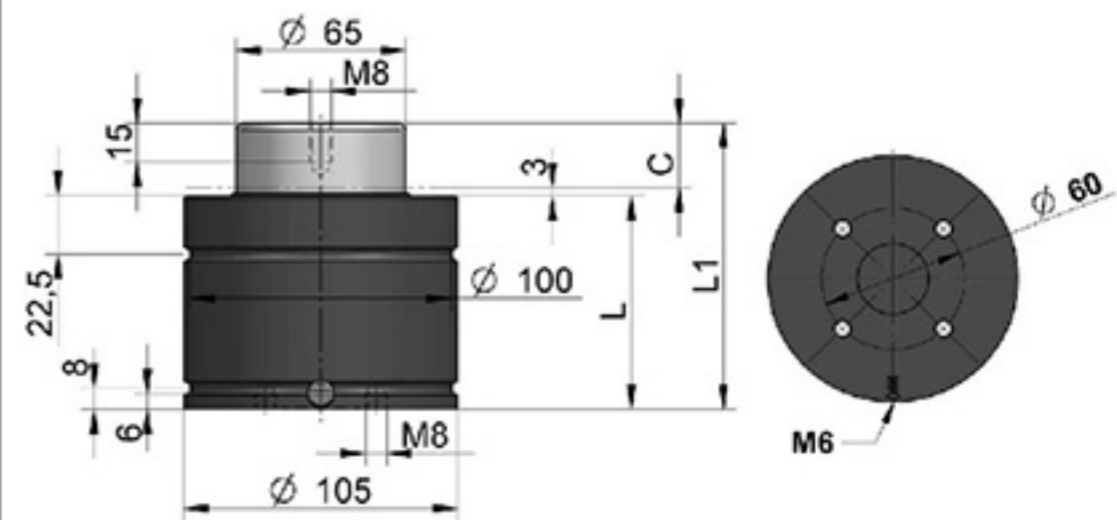


### UYGUN FLANŞLAR

A04-075 / A14-075 / A24-075 / A34-075  
B36-075 / B41-075 / D02-075

## CT 5000 CTC 5000

STROK	L1 ±0,5 (mm)	Lmin±0,1 (mm)	KUVVET (daN)	
			İLK	SON
12	84	72	5000	7500
25	110	85		
38	136	98		
50	160	110		
63	186	123		
80	220	140		
100	260	160		
125	310	185		
160	380	220		
200	460	260		



### UYGUN FLANŞLAR

A14-105 / B36-105 / B41-105

## AG-FD SERİSİ

### RENAULT KOMPAKT STANDARTI ÖZELLİKLERİ

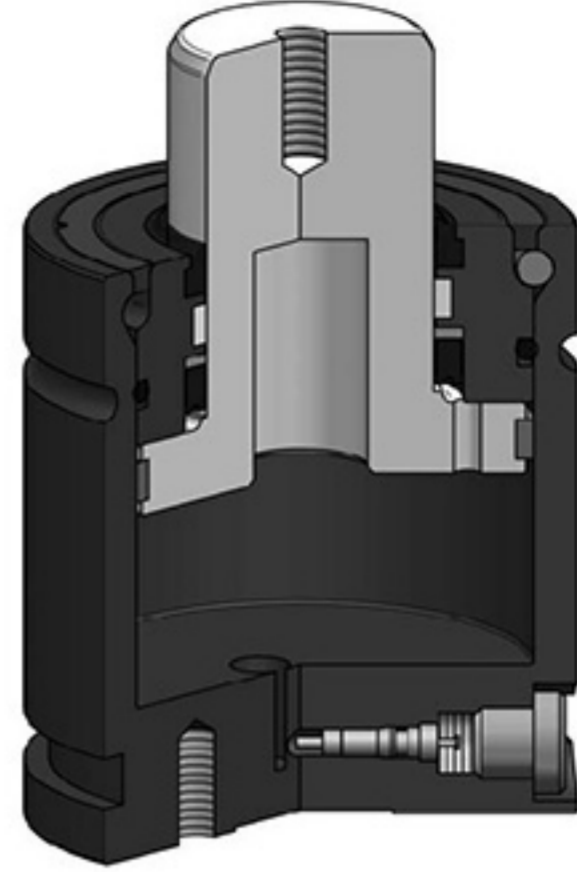
RENAULT EM24.54.700/F STANDARTINA UYGUN

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

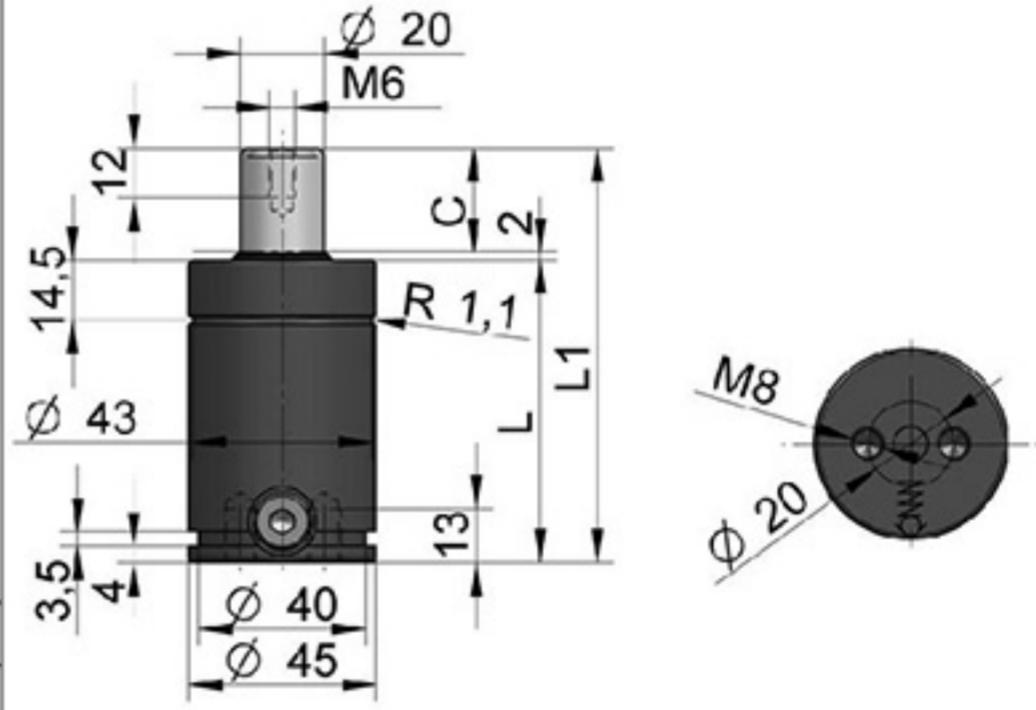
Dolum imkanı : EVET

Tesisat imkanı : EVET



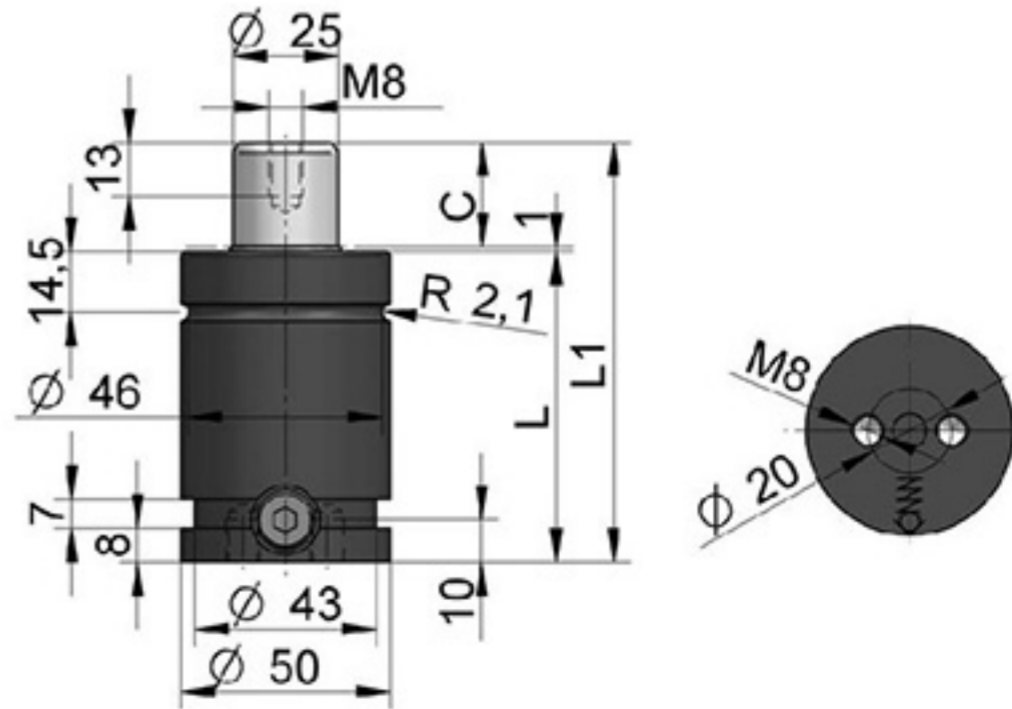
### AG 500 FD

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
6	62	56	500	650
12,7	75,4	62,7		
19	88	69		
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		
100	250	150		
125	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-045 / A14-045 / A24-045 / A34-045 / B11-045 B21-045 / B51-045 / C05-045 / C20-045 / D02-045				



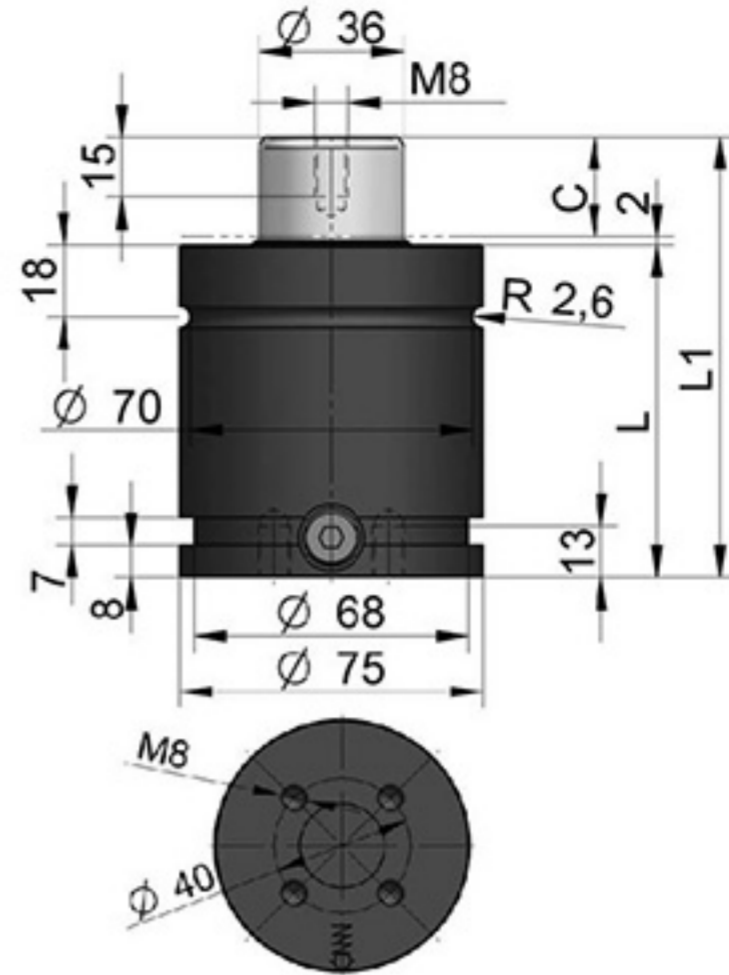
### AG 750 FD

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
6	62	56	750	1125
12,7	75,4	62,7		
19	88	69		
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		
100	250	150		
125	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-050 / A14-050 / A24-050 / A34-050 / B11-050 B21-050 / B51-050 / C05-050 / C20-050 / D02-050				



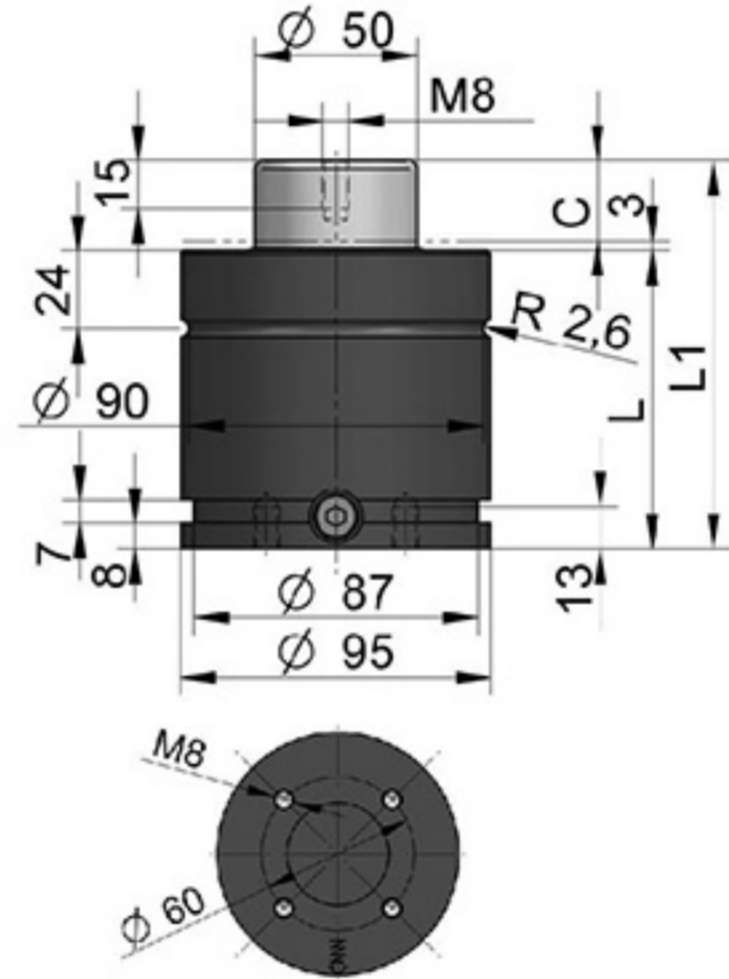
## AG 1500 FD

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
25	110	85	1500	2250
38	136	98		
50	160	110		
63,5	187	123,5		
80	220	140		
100	260	160		
<b>UYGUN FLANŞLAR</b>				
A04-075 / A14-075 / A24-075 / A34-075 / B11-075 B21-075 / B51-075 / C05-075 / C20-075 / D02-075				



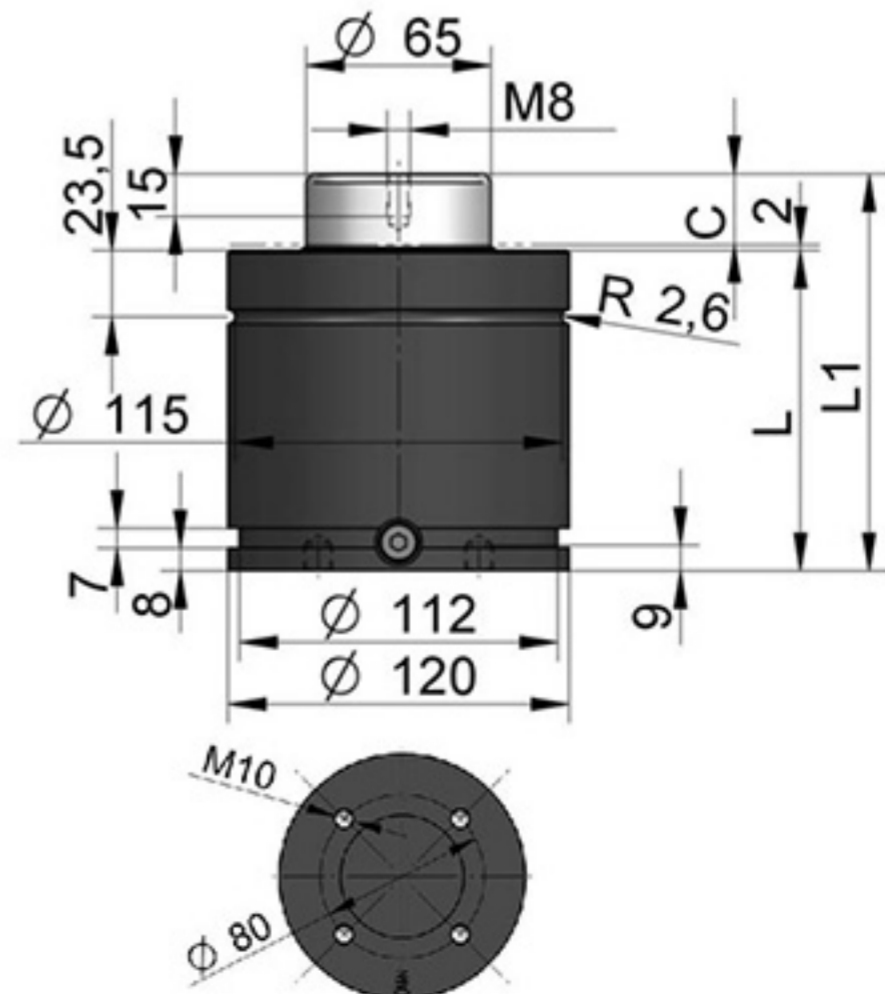
## AG 3000 FD

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
25	120	95	3000	4500
38	146	108		
50	170	120		
63,5	197	133,5		
80	230	150		
100	270	170		
<b>UYGUN FLANŞLAR</b>				
A04-095 / A14-095 / A24-095 / A34-095 / B11-095 B21-095 / B51-095 / C05-095 / C20-095 / D02-095				



## AG 5000 FD

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
25	140	115	5000	7500
38	166	128		
50	190	140		
63,5	217	153,5		
80	250	170		
100	290	190		
<b>UYGUN FLANŞLAR</b>				
A04-120 / A14-120 / A24-120 / A34-120 / B11-120 B21-120 / B51-120 / C05-120 / C20-120 / D02-120				



## APF SERİSİ

### ISO STANDARTI DÜŞÜK KUVVET ÖZELLİKLERİ EK EMNİYET SİSTEMLERİ

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 2,0m/s

Dolum imkanı : EVET

Tesisat imkanı : HAYIR

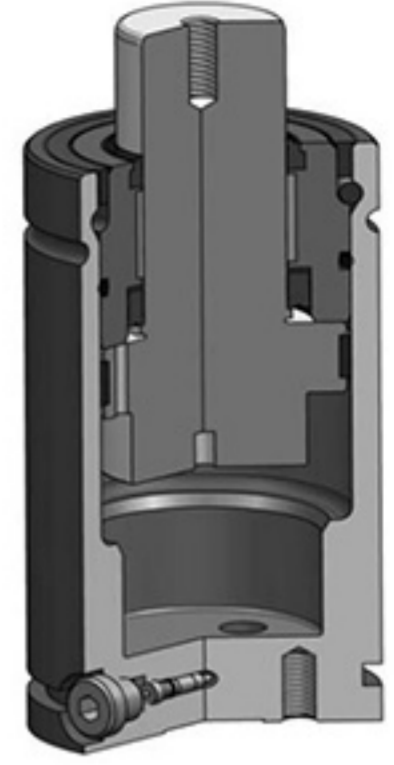
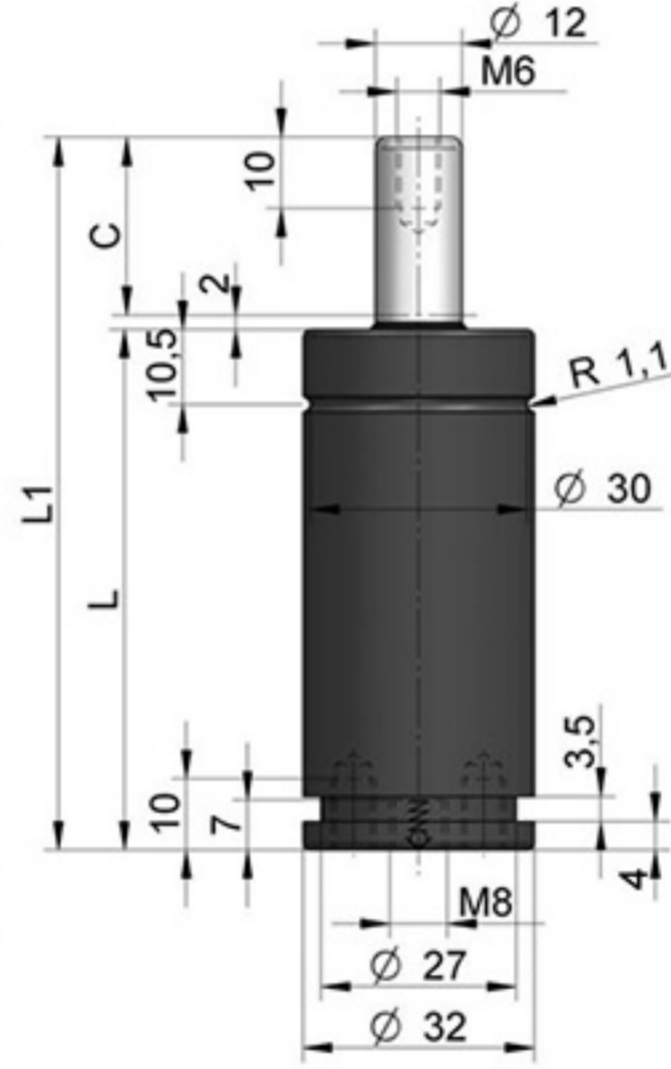
**APF 150**

**M8 DOLUM GİRİŞİ**

**APF-A 150**

**M6 DOLUM GİRİŞİ**

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
10	70	60	150	195
12,7	75,4	62,7		
16	82	66		
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		
100	250	150		
125	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-032 / A14-032 / C20-032 / D02-032				



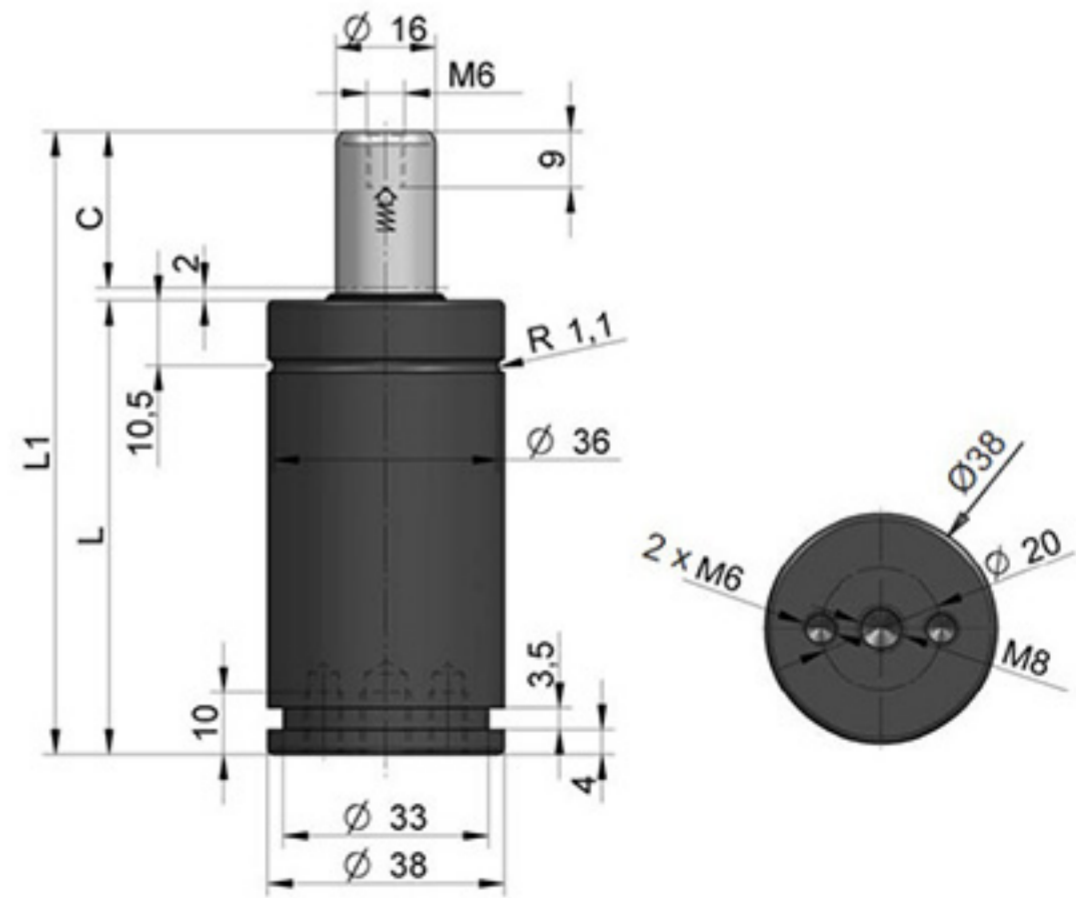
**APF 250**

**M8 DOLUM GİRİŞİ**

**APF-A 250**

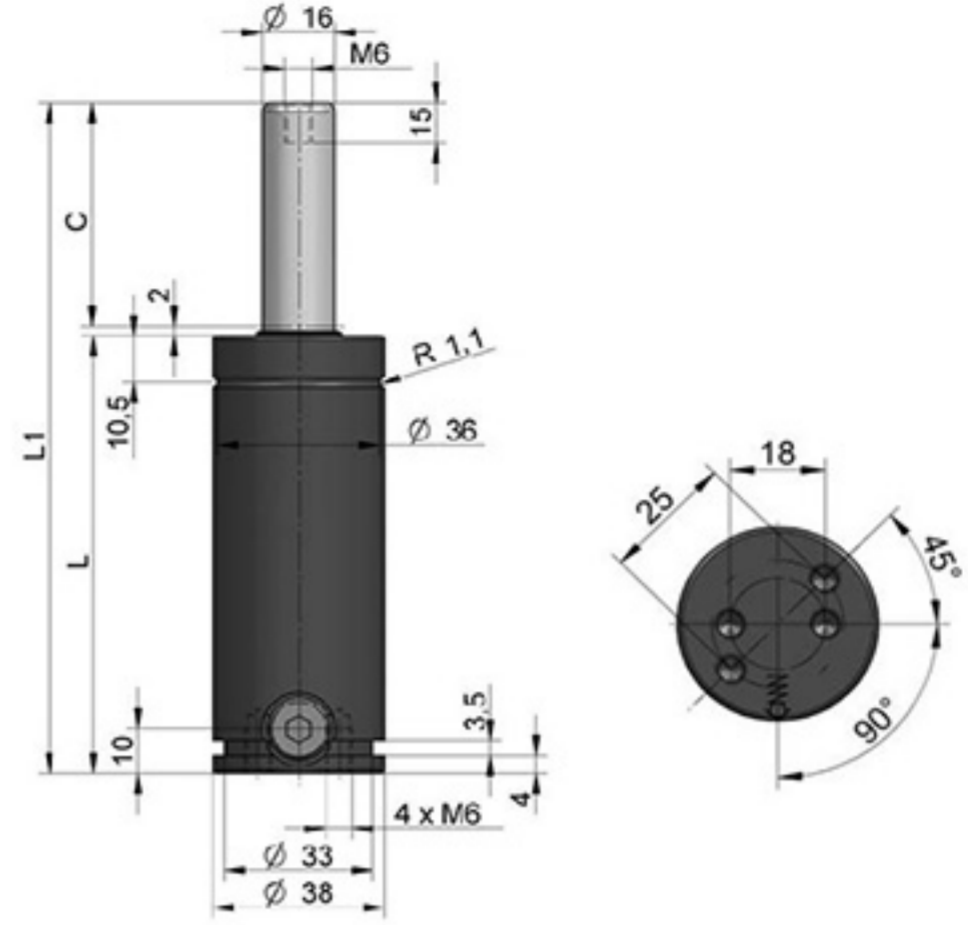
**M6 DOLUM GİRİŞİ**

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
10	70	60	250	325
12,7	75,4	62,7		
16	82	66		
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		
100	250	150		
125	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-038 / A14-038 / A24-038 / A34-038 B11-038 / C20-038 / D02-038				



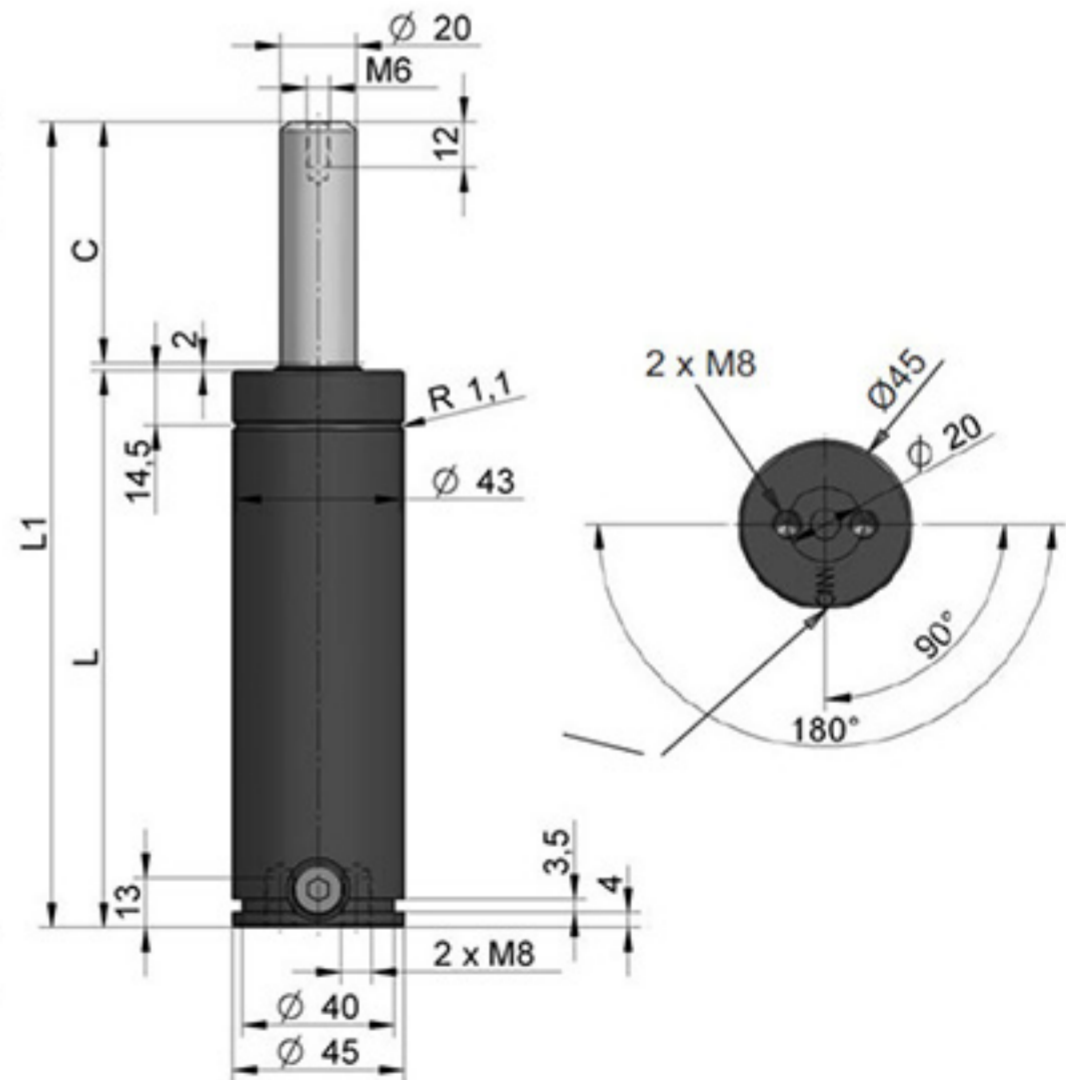
## APF-C 250 1/8" DOLUM GİRİŞİ

MODEL STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
10	70	60	250	325
12,7	75,4	62,7		
16	82	66		
19	88	69		
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		
100	250	150		
125	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-038 / A14-038 / A24-038 / A34-038 B11-038 / C20-038 / D02-038				



## APF 500 1/8" DOLUM GİRİŞİ

MODEL STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
10	70	60	250	325
12,7	75,4	62,7		
16	82	66		
25	88	69		
38	100	75		
50	126	88		
63,5	150	100		
80	177	113,5		
100	210	130		
125	250	150		
160	300	175		
<b>UYGUN FLANŞLAR</b>				
A04-045 / A14-045 / A24-045 / A34-045 / B11-045 B21-045 / B51-045 / C05-045 / C20-045 / D02-045				



## AG SERİSİ

### ISO STANDARTI YÜKSEK KUVVET

OTOMOTİV ENDÜSTRİ STANDARDI / ISO  
EK EMNİYET SİSTEMLERİ VE YÜKSEK HIZ

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 2,0m/s (RGV 4,0m/s)

Dolum imkanı : EVET

Tesisat imkanı : EVET

**AG 750 XCF**

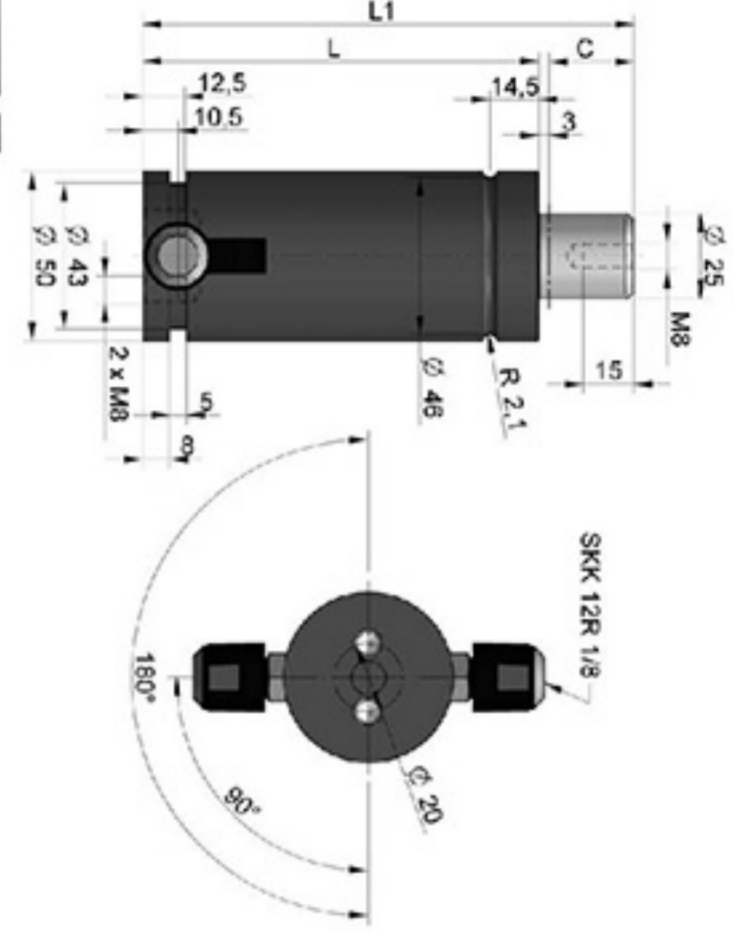
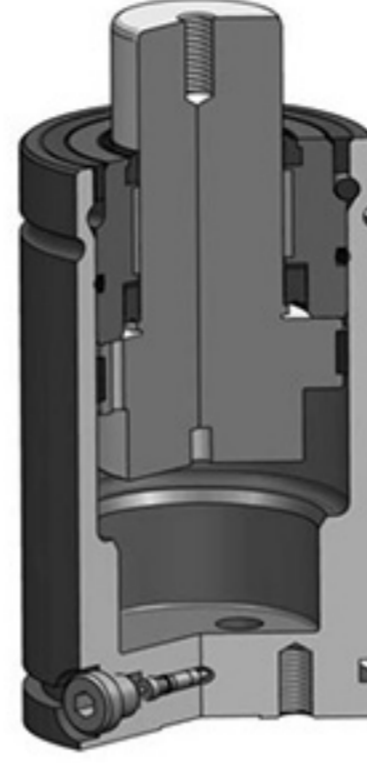
STANDART

**AG 750 RGV**

YÜKSEK HIZ (4m/s)

**AG 750 CB**

ÇİFT GİRİŞ



#### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050  
B11-050 / B21-050 / B51-050 / C05-050  
C20-050 / D02-050

STROK	L1 ±0,25 (mm)	Lmin (mm)	HACİM (cm <sup>3</sup> )	KUVVET (daN)	
				İLK	SON
12,7	120,4	107,7	31,9	750	1125
25	145	120	47,3		
38	171	133	63,7		
50	195	145	78,8		
63,5	222	158,5	95,7		
80	255	175	116,5		
100	295	195	141,6		
125	345	220	173,0		
160	415	255	217,0		
200	495	295	267,2		
250	595	345	330,1		
300	695	395	392,9		

**AG 1500 XCF**

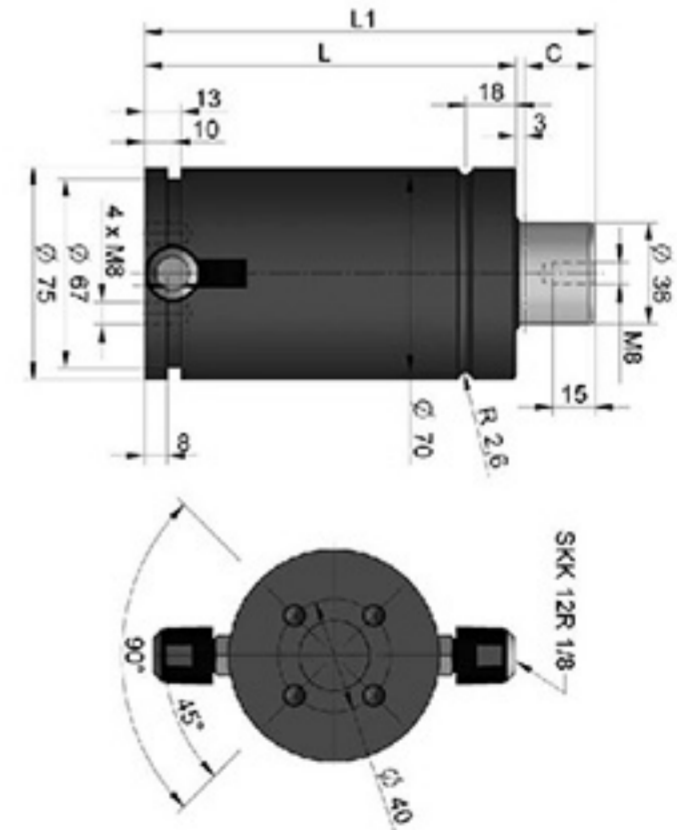
STANDART

**AG 1500 RGV**

YÜKSEK HIZ (4m/s)

**AG 1500 CB**

ÇİFT GİRİŞ



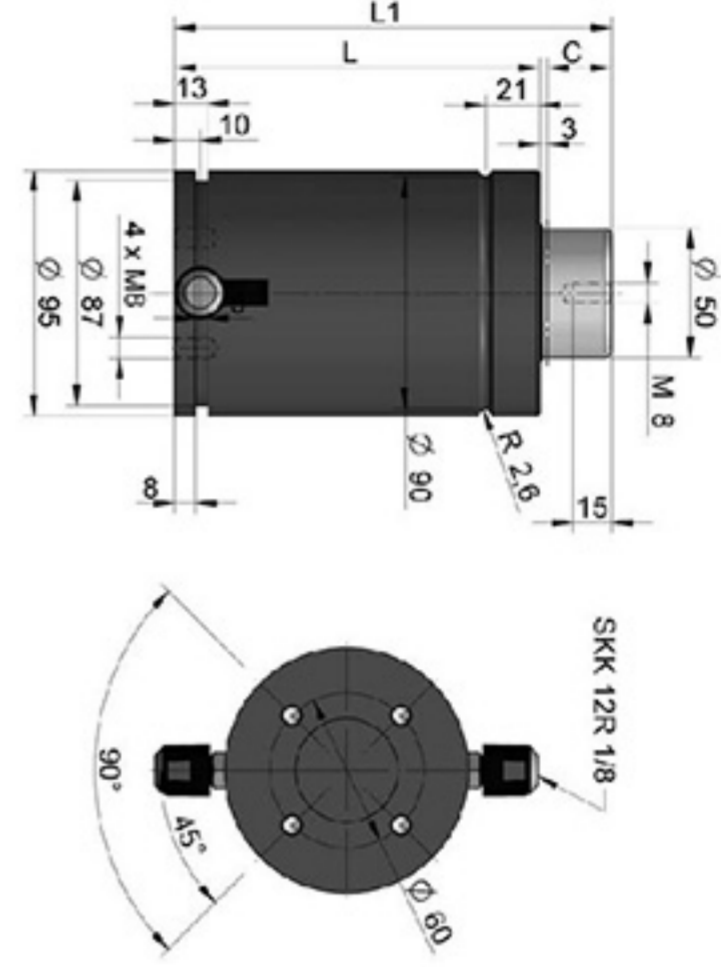
#### UYGUN FLANŞLAR

A04-075 / A14-075 / A24-075 / A34-075  
B11-075 / B16-075 / B21-075 / C05-075  
C20-075 / D02-075

STROK	L1 ±0,25 (mm)	Lmin (mm)	HACİM (cm <sup>3</sup> )	KUVVET (daN)	
				İLK	SON
12,7	135,4	122,7	99,8	1500	2250
25	160	135	138,2		
38	186	148	178,7		
50	210	160	216,1		
63,5	237	173,5	258,2		
80	270	190	309,6		
100	310	210	372,0		
125	360	235	449,9		
160	430	270	559,0		
200	510	310	683,7		
250	610	360	839,5		
300	710	410	995,4		

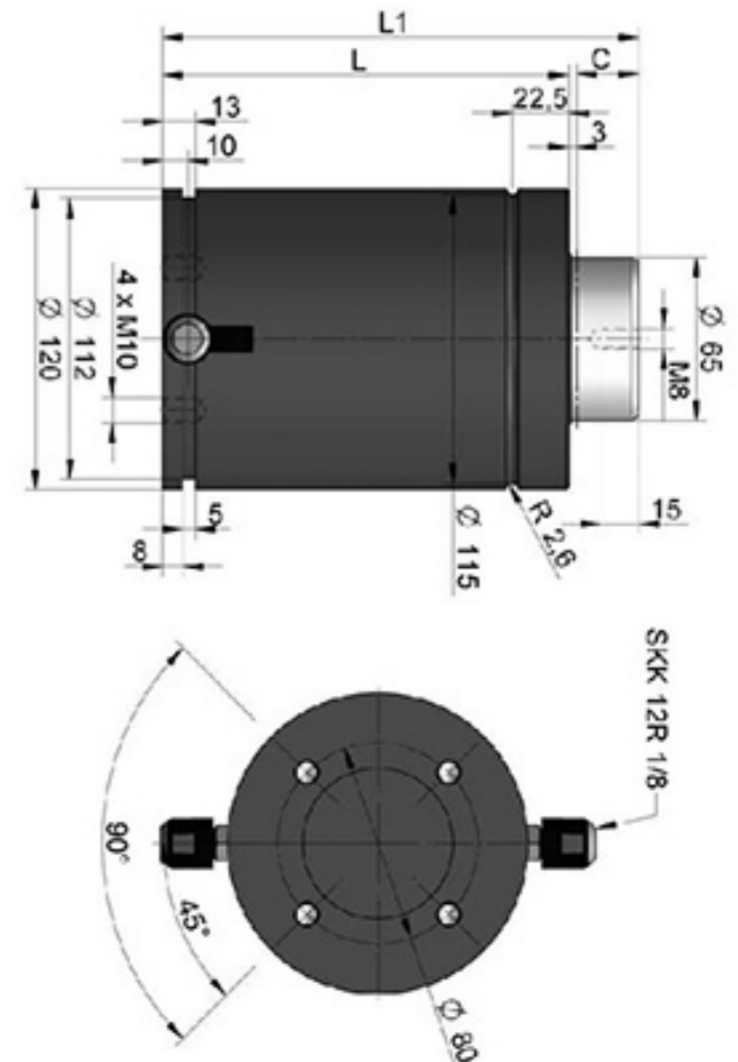
**AG 3000 XCF** STANDART  
**AG 3000 RGV** YÜKSEK HIZ (4m/s)  
**AG 3000 CB** ÇİFT GİRİŞ

STROK	L1 ±0,25 (mm)	Lmin (mm)	HACİM (cm <sup>3</sup> )	KUVVET (daN)	
				İLK	SON
12,7	145,4	132,7	174,8	3000	4500
25	170	145	236,6		
38	196	158	302,0		
50	220	170	362,3		
63,5	247	183,5	430,1		
80	280	200	513,1		
100	320	220	613,6		
125	370	245	739,3		
160	440	280	915,2		
200	520	320	1116,3		
250	620	370	1367,6		
300	720	420	1618,9		
<b>UYGUN FLANŞLAR</b>					
A04-095 / A14-095 / A24-095 / A34-095 B11-095 / B16-095 / B21-095 / C05-095 / C20-095 / D02-095					



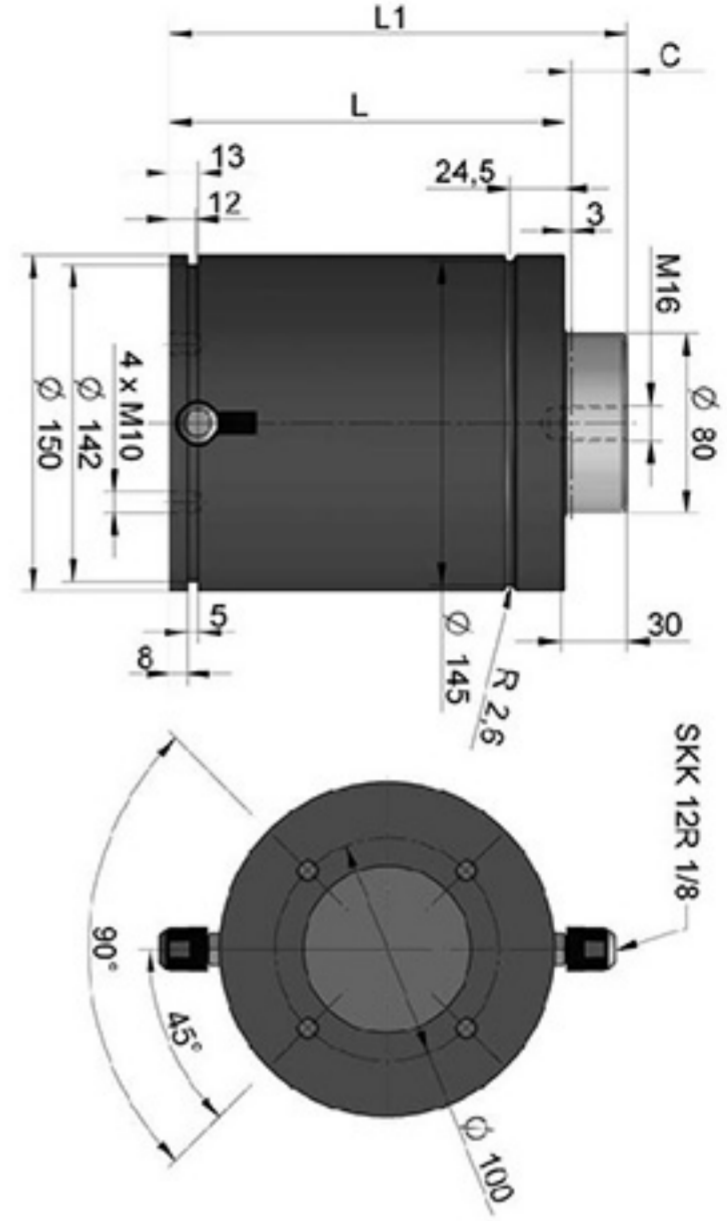
**AG 5000 XCF** STANDART  
**AG 5000 RGV** YÜKSEK HIZ (4m/s)  
**AG 5000 CB** ÇİFT GİRİŞ

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	HACİM (cm <sup>3</sup> )	KUVVET (daN)	
				İLK	SON
12,7	165,4	152,7	228,5	5000	7500
25	190	165	325,1		
38	216	178	427,2		
50	240	190	521,5		
63,5	267	202,5	627,5		
80	300	220	757,1		
100	340	240	914,2		
125	390	265	1110,5		
160	460	300	1385,4		
200	540	340	1699,6		
250	640	390	2092,2		
300	740	440	2485		
<b>UYGUN FLANŞLAR</b>					
A04-120 / A14-120 / A24-120 / A34-120 B11-120 / B16-120 / B21-120 / C05-120 / C20-120 / D02-120					



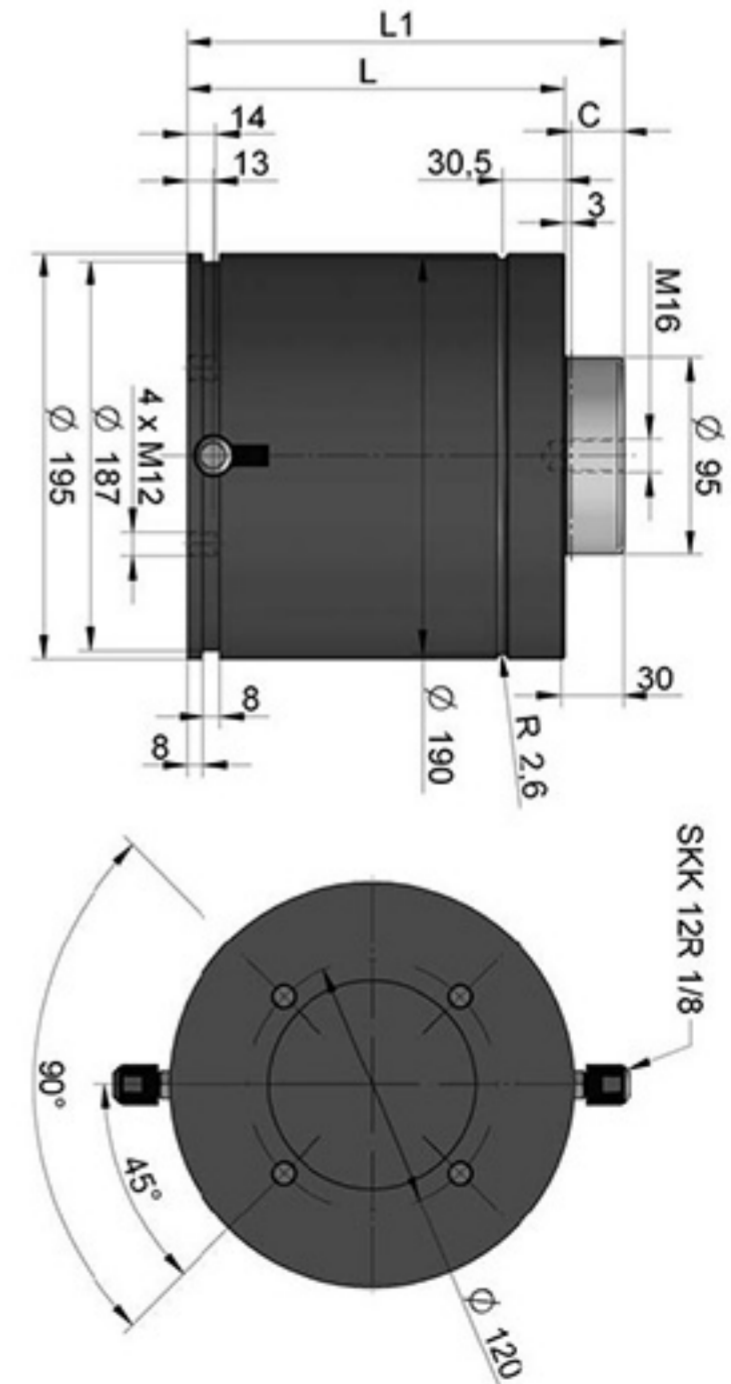
**AG 7500 XCF** STANDART  
**AG 7500 RGV** YÜKSEK HIZ (4m/s)  
**AG 7500 CB** ÇİFT GİRİŞ

STROK	L1 ±0,25 (mm)	Lmin (mm)	HACİM (cm <sup>3</sup> )	KUVVET (daN)	
				İLK	SON
12,7	180,4	167,7	384,8	7500	11250
25	205	180	535,8		
38	231	193	695,3		
50	255	205	842,6		
63,5	282	218,5	1008,2		
80	315	235	1210,7		
100	355	255	1456,1		
125	405	280	1762,9		
160	475	315	2192,5		
200	555	355	2683,3		
250	655	405	3296,9		
300	755	455	3910,5		
<b>UYGUN FLANŞLAR</b>					
A04-150 / A14-150 / A24-150 / A34-150 / B01-150 / B11-150 B16-150 / B21-150 / B51-150 / C05-150 / C20-150 / D02-150					



**AG 10000 XCF** STANDART  
**AG 10000 RGV** YÜKSEK HIZ (4m/s)  
**AG 10000 CB** ÇİFT GİRİŞ

STROK	L1 ±0,25 (mm)	Lmin (mm)	HACİM (cm <sup>3</sup> )	KUVVET (daN)	
				İLK	SON
12,7	185,4	172,7	482,3	10000	15000
25	210	185	699,7		
38	236	198	929,4		
50	260	210	1141,5		
63,5	287	223,5	1380		
80	320	240	1671,6		
100	360	260	2025		
125	410	285	2466,8		
160	480	320	3085,3		
200	560	360	3792,2		
250	660	410	4675,8		
300	760	460	5559,3		
<b>UYGUN FLANŞLAR</b>					
A04-195 / A14-195 / A24-195 / A34-195 / B01-195 / B11-195 B16-195 / B21-195 / B51-195 / C05-195 / C20-195 / D02-195					





## DGS SERİSİ

### DAMPERLİ SERİ ÖZELLİKLERİ

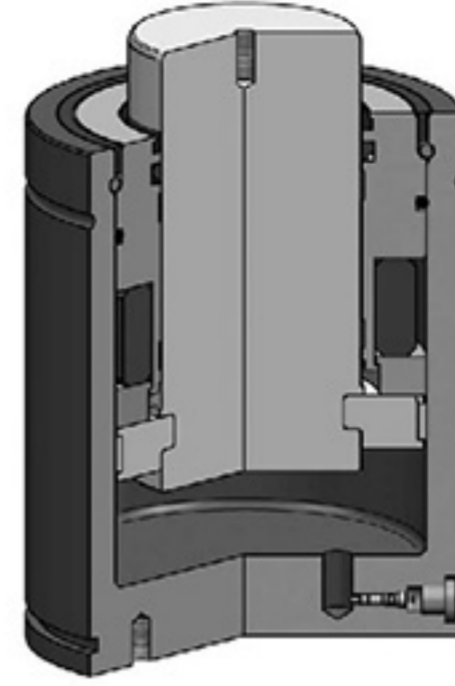
SABİT VE YUMUŞAK İVMELENME İLE DAHA AZ AŞINMA  
DÜŞÜK İLK PRES KUVVETİ İHTİYACI  
DAHA SESSİZ VE SAĞLIKLI, DAHA AZ DARBE VE TİTREŞİM  
DAHA SAĞLIKLI ROBOTİK TAŞIMA OPERASYONLARI

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

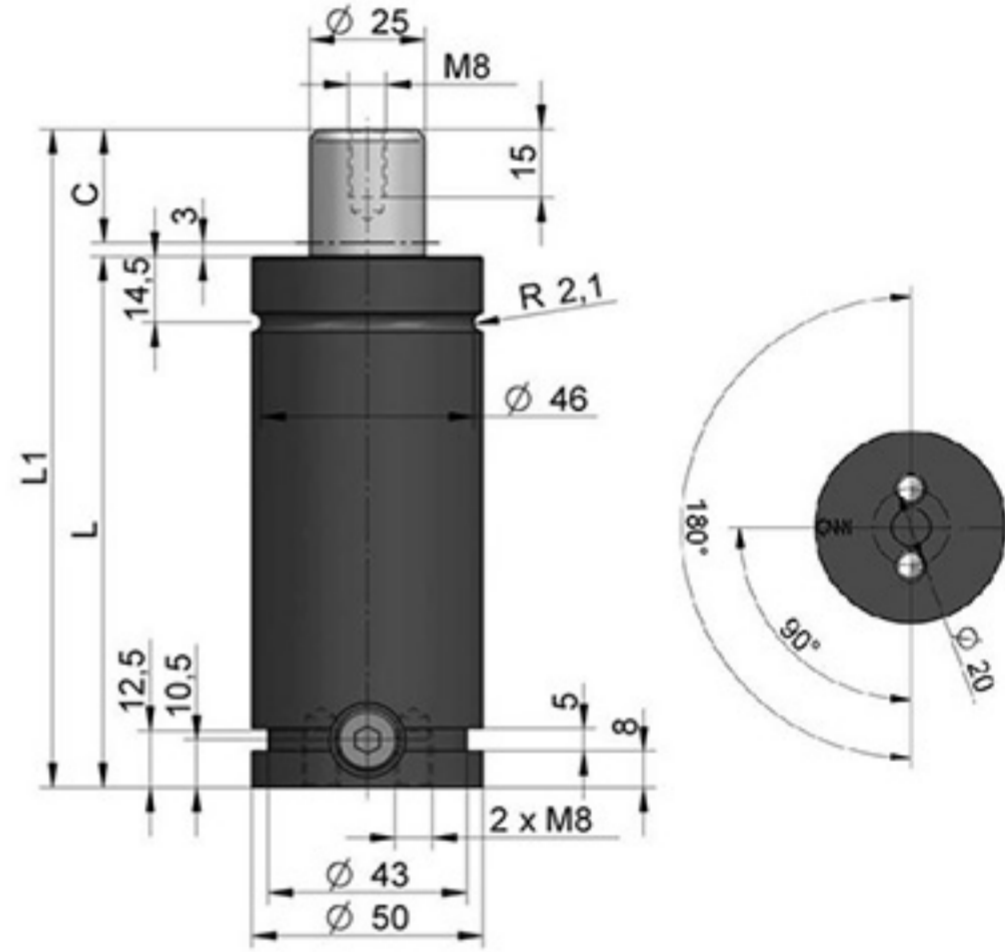
Dolum imkanı : EVET

Tesisat imkanı : EVET



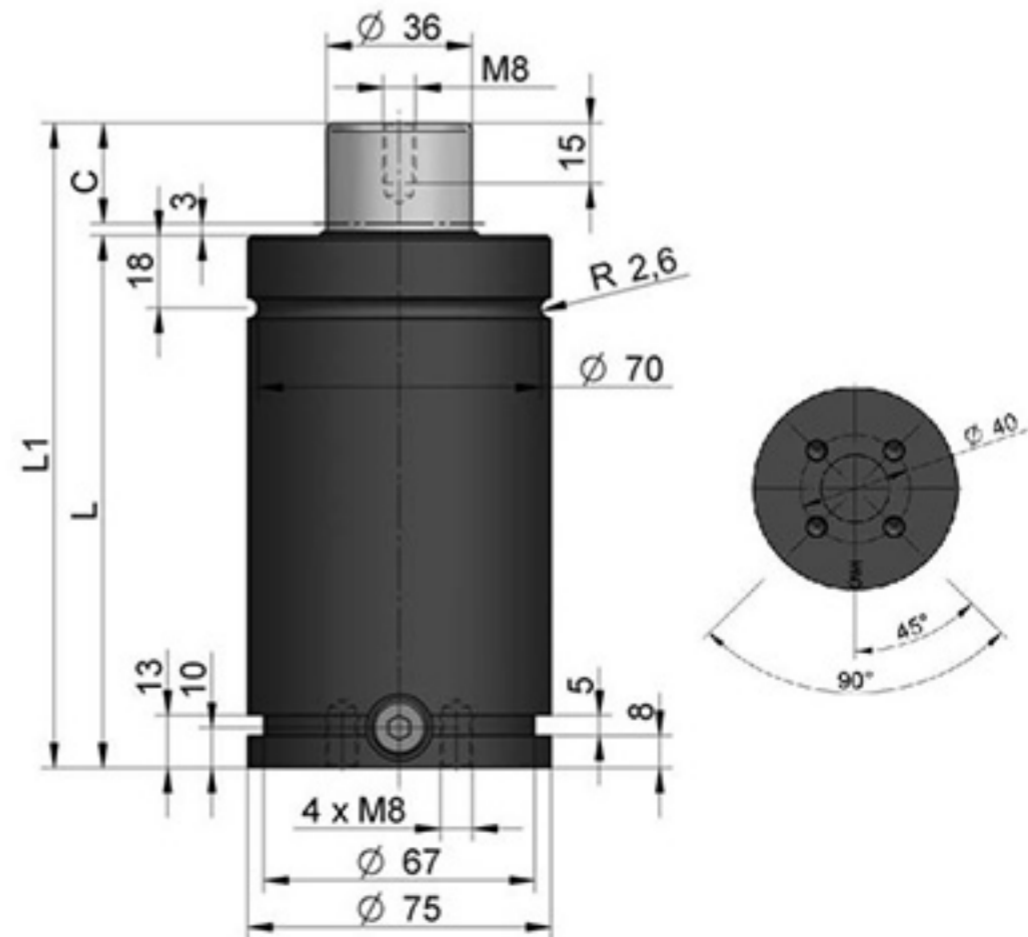
### DGS 750

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	195,4	107,7	750	1125
25	145	195		
38	171	133		
50	195	145		
63,5	222	158,5		
80	255	175		
100	295	195		
125	345	220		
160	415	255		
200	495	295		
250	595	345		
300	695	395		
<b>UYGUN FLANŞLAR</b>				
A04-050 / A14-050 / A24-050 / A34-050 / B11-050 B21-050 / B51-050 / C05-050 / C20-050 / D02-050				



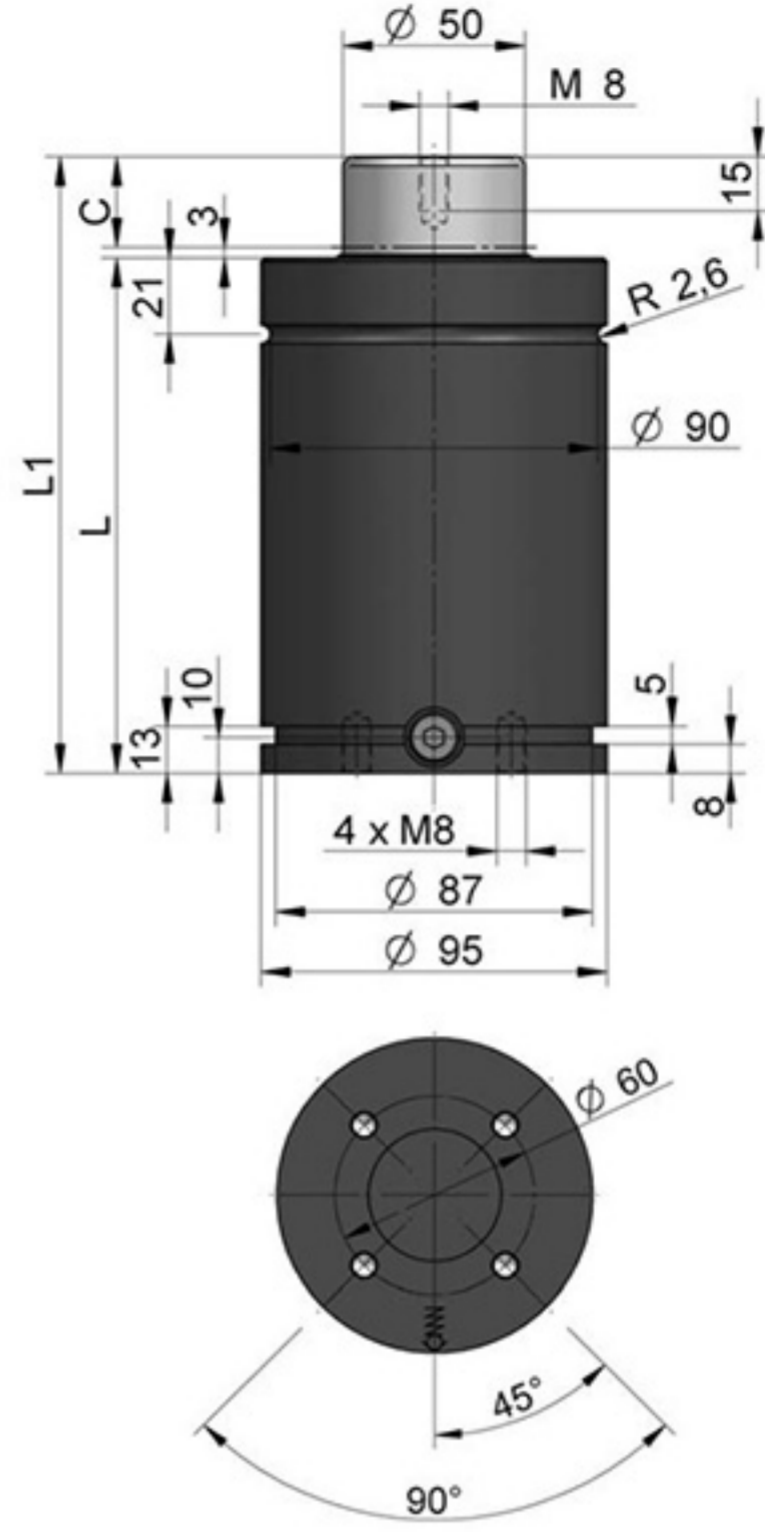
### DGS 1500

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	135,4	122,7	1500	2250
25	160	135		
38	186	148		
50	210	160		
63,5	237	173,5		
80	270	190		
100	310	210		
125	360	235		
160	430	270		
200	510	310		
250	610	360		
300	710	410		
<b>UYGUN FLANŞLAR</b>				
A04-075 / A14-075 / A24-075 / A34-075 / B11-075 B16-075 / B21-075 / C05-075 / C20-075 / D02-075				



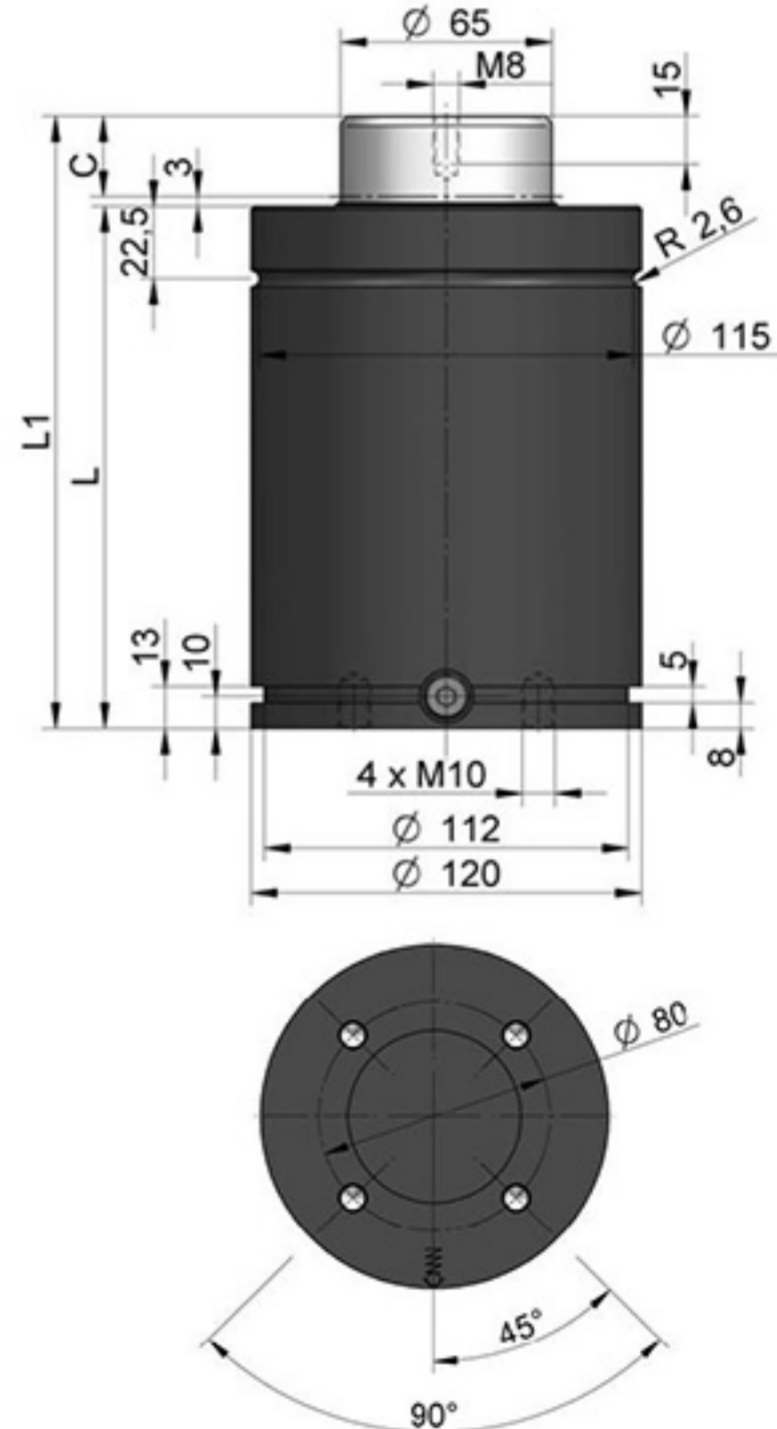
## DGS 3000

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	145,4	132,7	3000	4500
25	170	145		
38	196	158		
50	220	170		
63,5	247	183,5		
80	280	200		
100	320	220		
125	370	245		
160	440	280		
200	520	320		
250	620	370		
300	720	420		
<b>UYGUN FLANŞLAR</b>				
A04-095 / A14-095 / A24-095 / A34-095 / B11-095 B16-095 / B21-095 / C05-095 / C20-095 / D02-095				



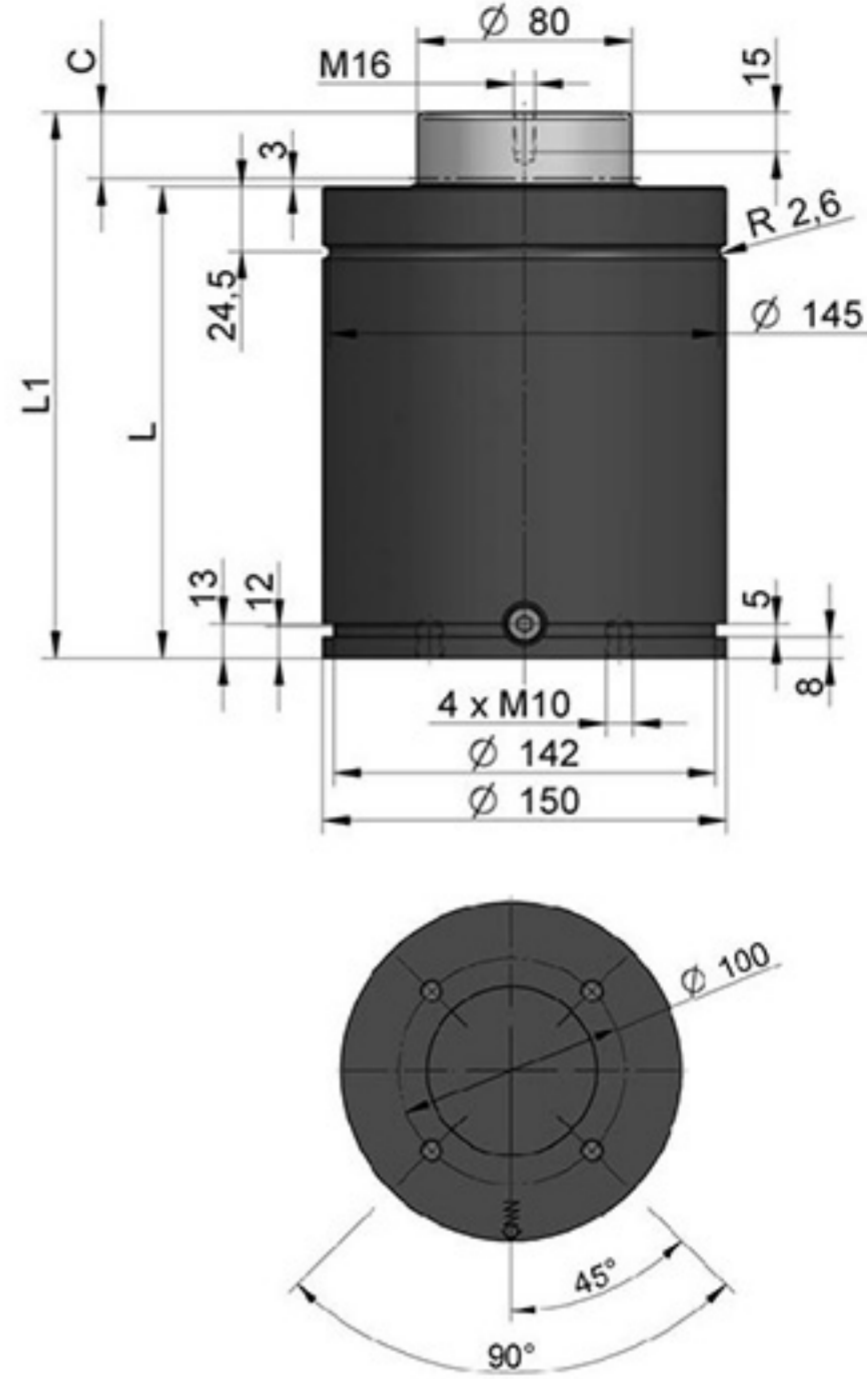
## DGS 5000

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	165,4	152,7	5000	7500
25	190	165		
38	216	178		
50	240	190		
63,5	267	202,5		
80	300	220		
100	340	240		
125	390	265		
160	460	300		
200	540	340		
250	640	390		
300	740	440		
<b>UYGUN FLANŞLAR</b>				
A04-195 / A14-195 / A24-195 / A34-195 / B11-195 B16-195 / B21-195 / C05-195 / C20-195 / D02-195				



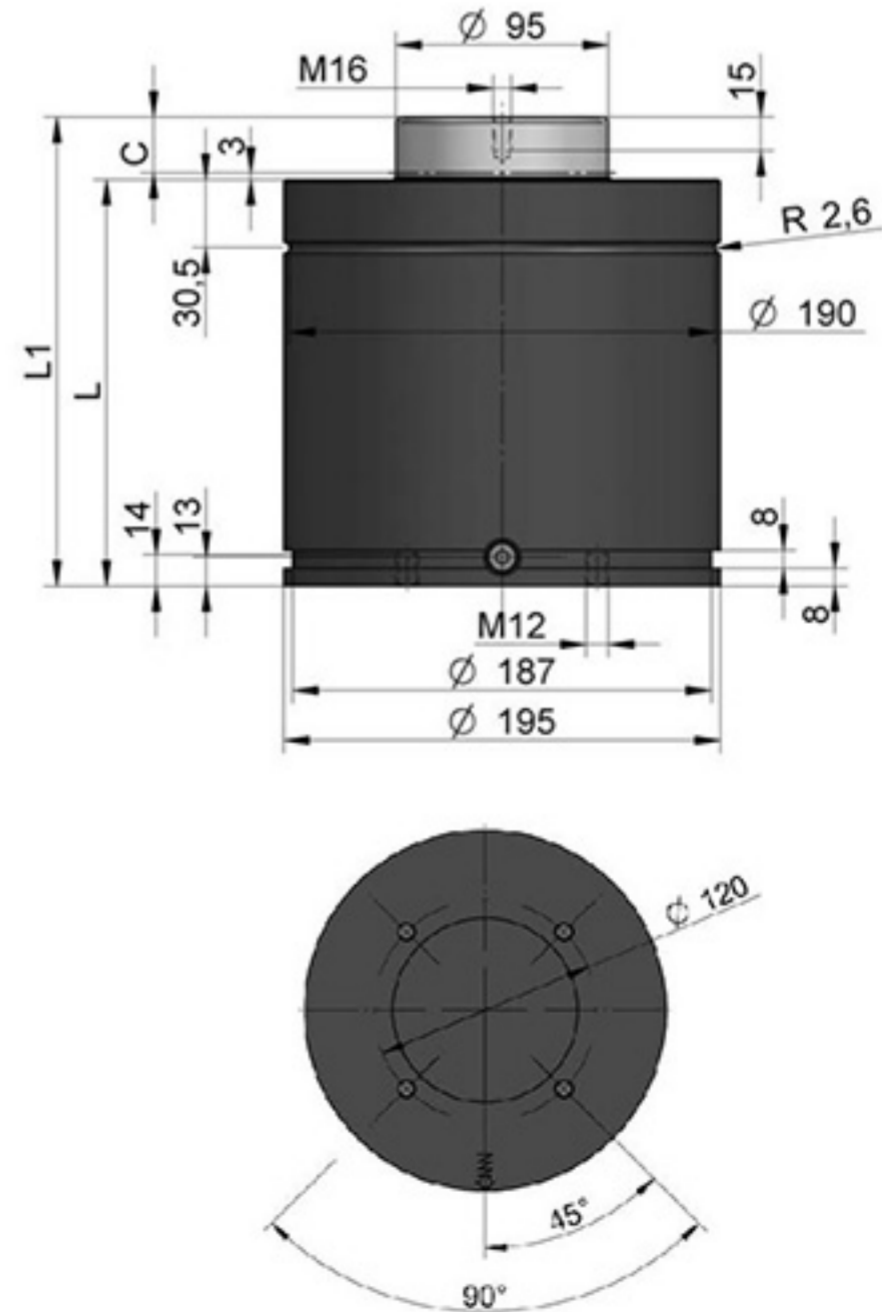
## DGS 7500

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	180,4	167,7	7500	11250
25	205	180		
38	231	193		
50	255	205		
63,5	282	218,5		
80	315	235		
100	355	255		
125	405	280		
160	475	315		
200	555	355		
250	655	405		
300	755	455		
<b>UYGUN FLANŞLAR</b>				
A04-150 / A14-150 / A24-150 / A34-150 B01-150 / B11-150 / B16-150 / B21-150 C05-150 / C20-150 / D02-150				



## DGS 10000

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	185,4	172,7	10000	15000
25	210	185		
38	236	198		
50	260	210		
63,5	287	223,5		
80	320	240		
100	360	260		
125	410	285		
160	480	320		
200	560	360		
250	660	410		
300	760	460		
<b>UYGUN FLANŞLAR</b>				
A04-195 / A14-195 / A24-195 / A34-195 B01-195 / B11-195 / B16-195 / B21-195 C05-195 / C20-195 / D02-195				



## LC SERİSİ

### EKONOMİK SERİ ÖZELLİKLERİ

Dolum basıncı : 20bar – 150bar

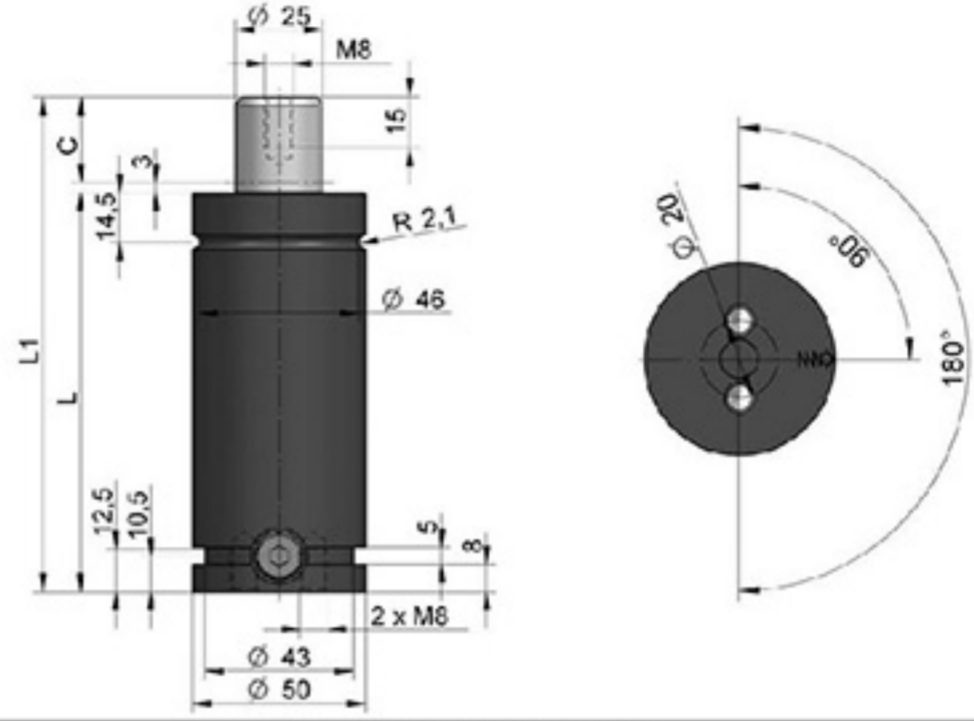
Maks. piston hızı : 0,8m/s

Dolum imkanı : EVET

Tesisat imkanı : EVET

### LC 750

STROK	L1 ±0,25 (mm)	Lmin+0,2 (mm)	KUVVET (daN)	
			İLK	SON
12,7	120,4	107,7	750	1125
25	145	120		
38	171	133		
50	195	145		
63,5	222	158,5		
80	255	175		
100	295	195		
125	345	220		
160	415	255		
200	495	295		
250	595	345		
300	695	395		

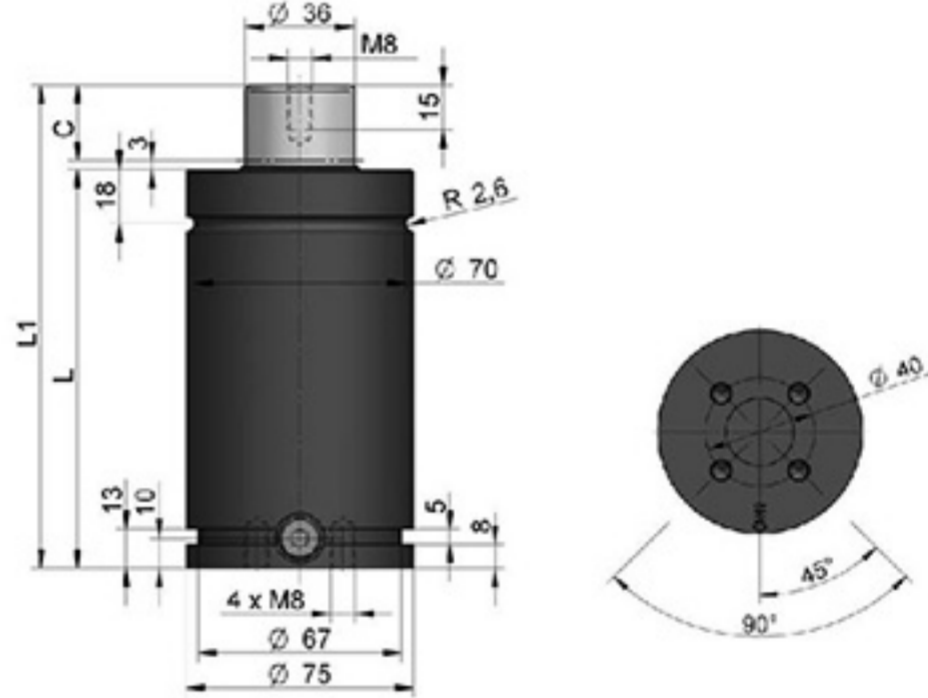


#### UYGUN FLANŞLAR

A04-050 / A14-050 / A24-050 / A34-050 / B11-050  
B21-050 / B51-050 / C05-050 / C20-050 / D02-050

### LC 1500

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
12,7	135,4	122,7	1500	2250
25	160	135		
38	186	148		
50	210	160		
63,5	237	173,5		
80	270	190		
100	310	210		
125	360	235		
160	430	270		
200	510	310		
250	610	360		
300	710	410		

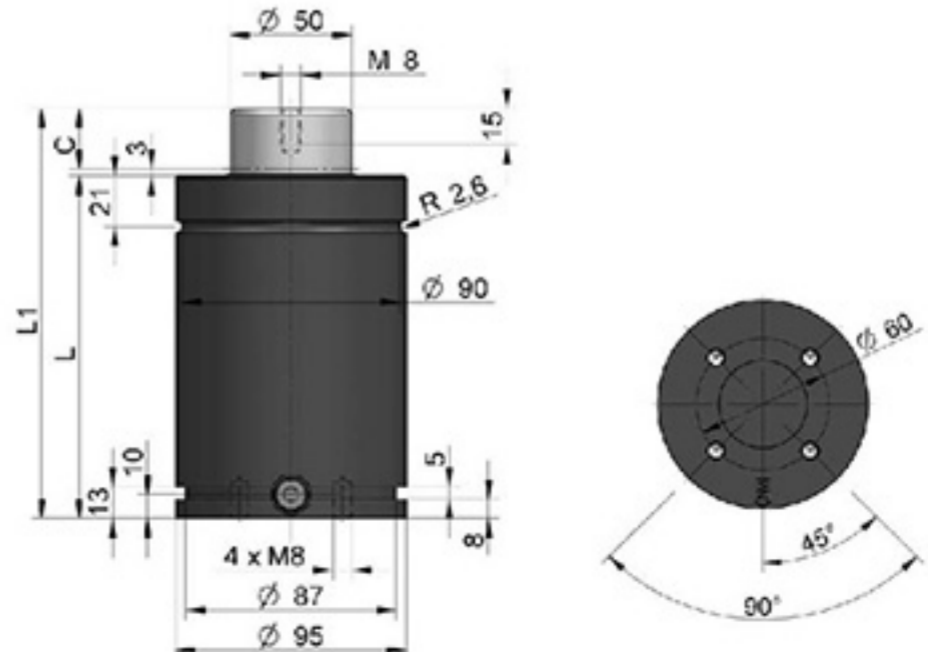


#### UYGUN FLANŞLAR

A04-075 / A14-075 / A24-075 / A34-075 / B11-075  
B21-075 / B51-075 / C05-075 / C20-075 / D02-075

### LC 3000

STROK	L1 ±0,25 (mm)	Lmin (mm)	KUVVET (daN)	
			İLK	SON
12,7	145,4	132,7	3000	4500
25	170	145		
38	196	158		
50	220	170		
63,5	247	183,5		
80	280	200		
100	320	220		
125	370	245		
160	440	280		
200	520	320		
250	620	370		
300	720	420		



#### UYGUN FLANŞLAR

A04-095 / A14-095 / A24-095 / A34-095 / B11-095  
B21-095 / B51-095 / C05-095 / C20-095 / D02-095

## AF SERİSİ

### MİKRO SERİ

MİKRO BOYUTLAR (Ø12mm – Ø25mm)

DÜŞÜK KUVVETTE YÜKSEK HASSASİYET

Dolum basıncı : 20bar – 180bar

Maks. piston hızı : 1,6m/s

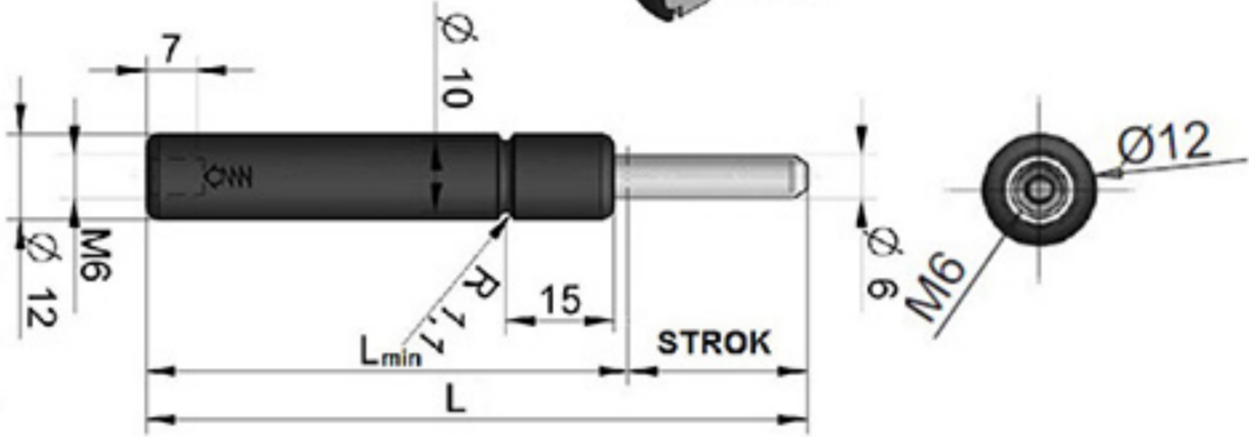
Dolum imkanı : EVET

Tesisat imkanı : HAYIR



### AFB SERİSİ

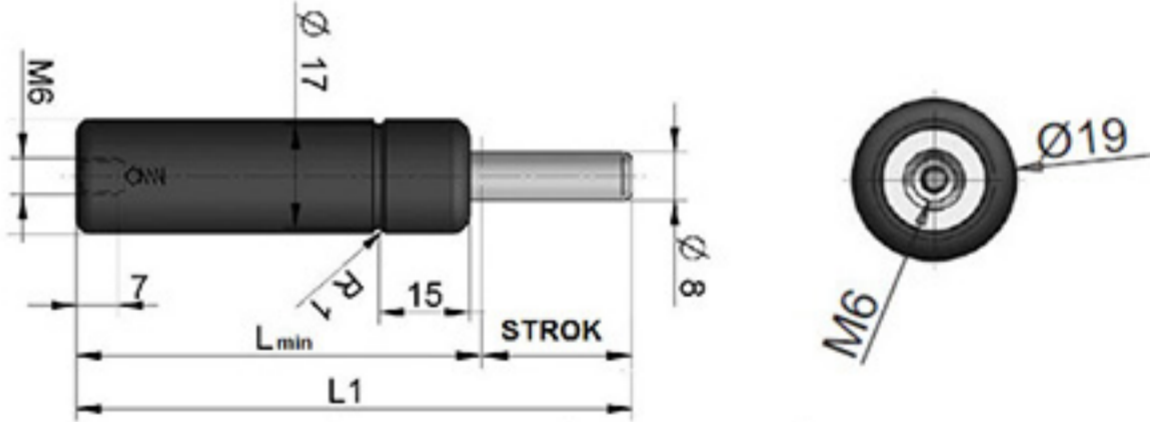
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
7	56	49
10	62	52
13	68	55
15	72	57
19	80	61
25	92	67
38	118	80
50	142	92
63,5	169	105,5
75	195	120
80	205	125



MODEL	RENK	BASINÇ (bar)	KUVVET (daN)	
			İLK	SON
AFB – 20	YEŞİL	72	20	28
AFB – 30	MAVİ	108	30	42
AFB – 40	KIRMIZI	144	40	56
AFB – 50	SARI	180	50	70

### AFJ SERİSİ

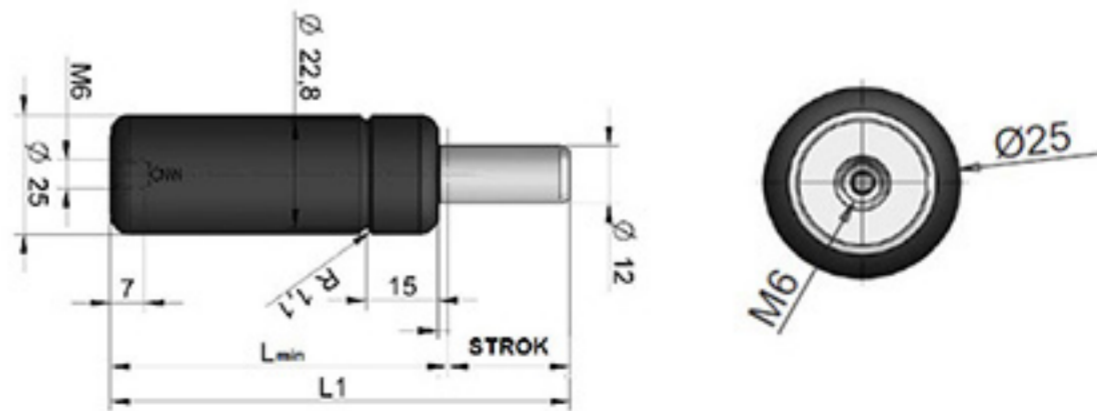
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
7	56	49
10	62	52
13	68	55
15	72	57
25	92	67
38	118	80
50	142	92
63	168	105
80	205	125



MODEL	RENK	BASINÇ (Bar)	KUVVET (daN)	
			İLK	SON
AFJ – 25	YEŞİL	50	25	38
AFJ – 50	MAVİ	100	50	70
AFJ – 70	KIRMIZI	140	70	98
AFJ – 90	SARI	180	90	126

### AFD SERİSİ

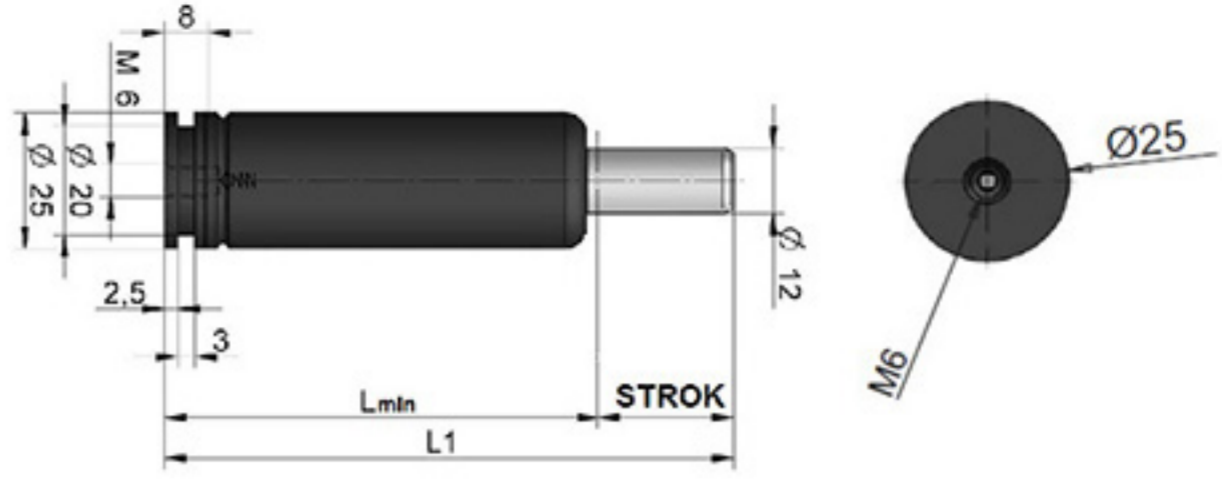
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
7	56	49
10	62	52
13	68	55
15	72	57
25	92	67
38	118	80
50	142	92
63,5	172	108,5
80	205	125
100	245	145



MODEL	RENK	BASINÇ (Bar)	KUVVET (daN)	
			İLK	SON
AFD – 50	YEŞİL	45	50	70
AFD – 100	MAVİ	90	100	140
AFD – 150	KIRMIZI	135	150	210
AFD – 200	SARI	180	200	280

## AF SERİSİ

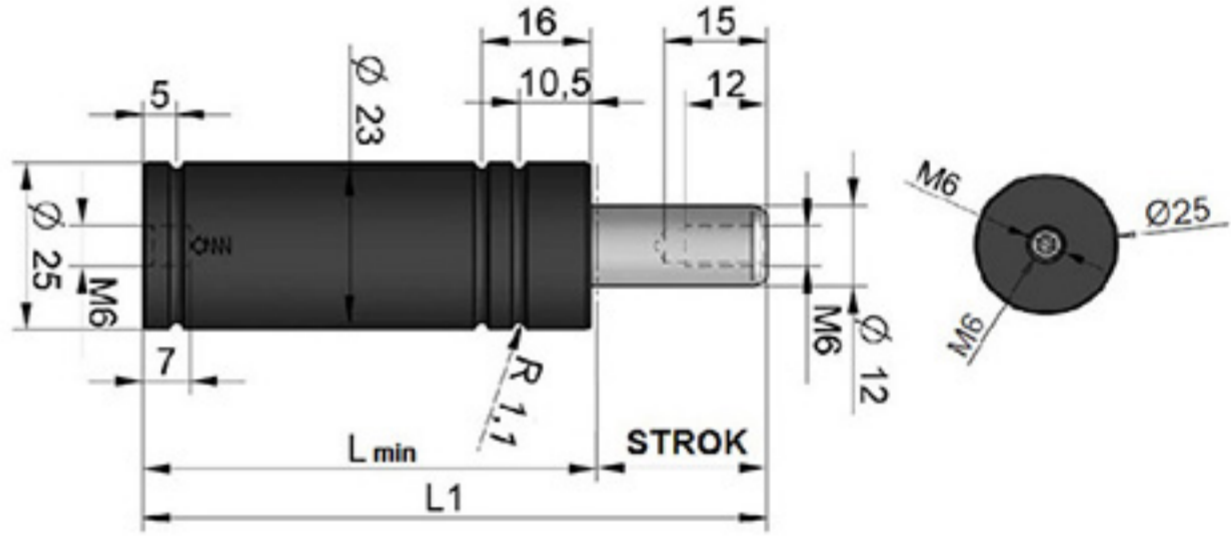
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
15	84	69
25	104	79
38	130	92
50	154	104
80	214	134
100	254	154



MODEL	RENK	BASINÇ (bar)	KUVVET (daN)	
			İLK	SON
AF – 50	YEŞİL	45	50	65
AF – 100	MAVİ	90	100	125
AF – 150	KIRMIZI	135	150	195
AF – 200	SARI	180	200	260

## AFC SERİSİ

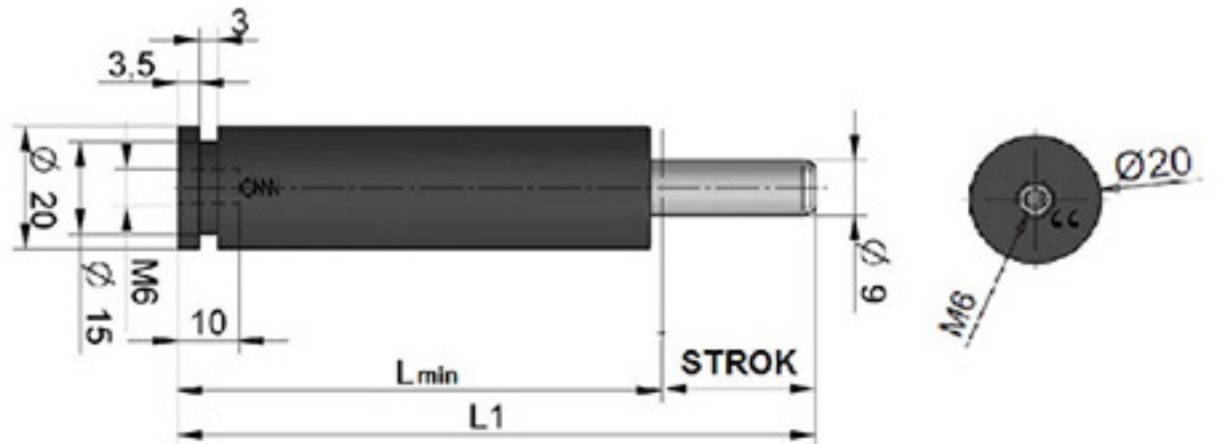
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
10	62	52
12,7	67,4	54,7
15	72	57
16	74	58
20	82	62
25	92	67
30	102	72
38	118	80
50	142	92
63,5	172	108,5
80	205	125
100	245	145
125	295	170



MODEL	RENK	BASINÇ (Bar)	KUVVET (daN)	
			İLK	SON
AFC – 45	YEŞİL	50	25	38
AFC – 90	MAVİ	100	50	70
AFC – 135	KIRMIZI	140	70	98
AFC – 180	SARI	180	90	126

## AFK SERİSİ

STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
10	74	64
12,7	79,4	66,7
16	86	70
25	104	79
38	130	92
50	154	104
63,5	181	117,5
80	214	134



MODEL	RENK	BASINÇ (Bar)	KUVVET (daN)	
			İLK	SON
AFK – 25	YEŞİL	45	25	35
AFK – 50	MAVİ	90	50	70
AFK – 100	KIRMIZI	180	100	140

## AS SERİSİ

### GÖVDESİ DİŞLİ SERİ

GÖVDEDEN BAĞLANTI İMKANI

YÜKSEK HASSASİYETLİ SİSTEMLERE UYGUN

Dolum basıncı : 20bar – 150bar

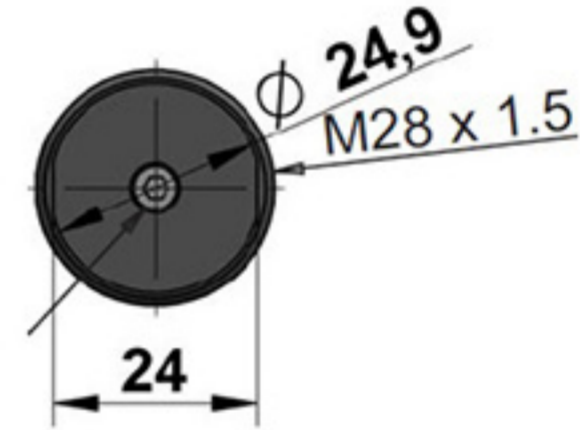
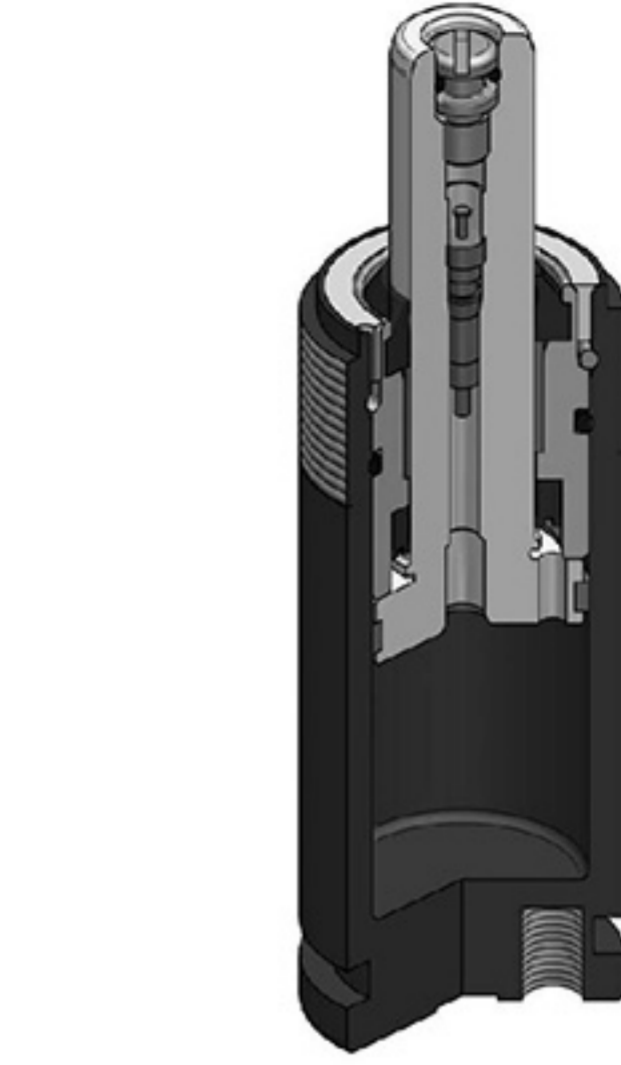
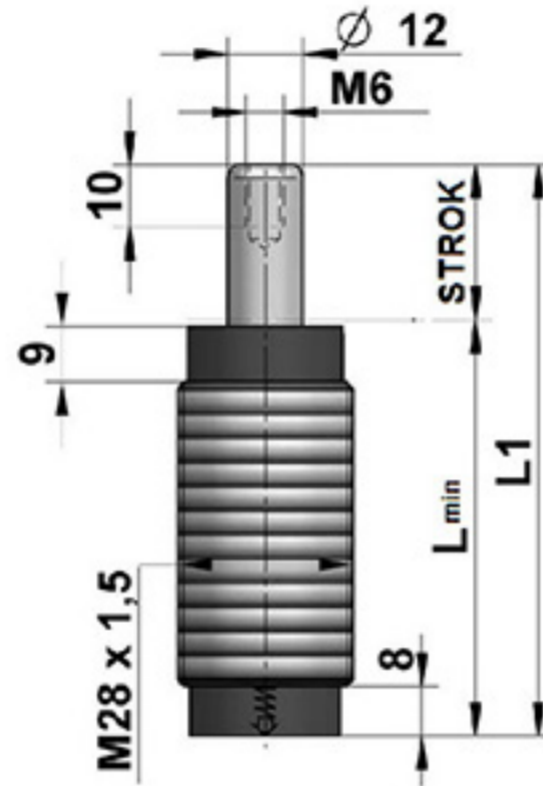
Maks. piston hızı : 1,6m/s

Dolum imkanı : EVET

Tesisat imkanı : HAYIR

### AS 50-100-150-200

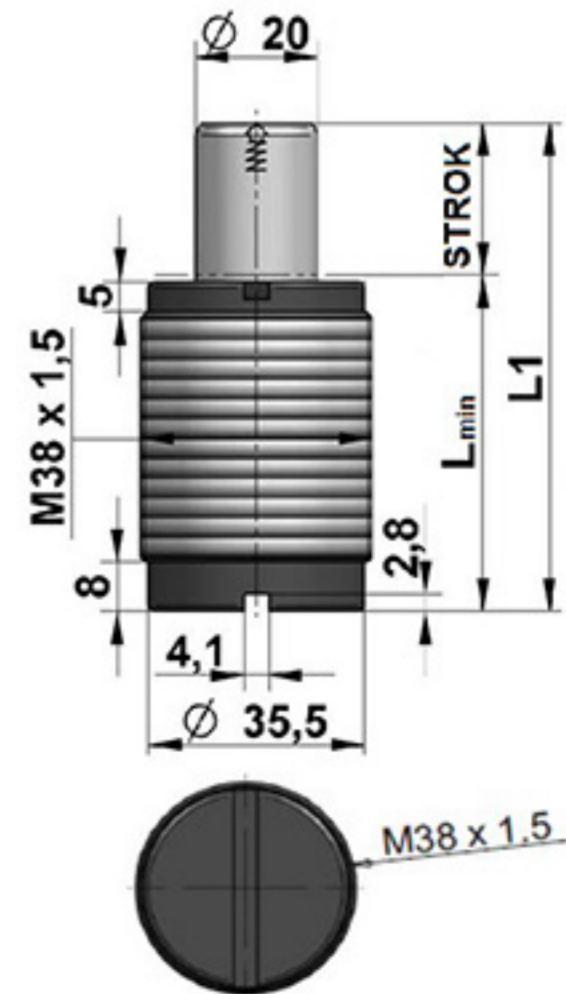
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)
10	62	52
12,7	67,4	54,7
16	74	58
25	92	67
38	118	80
50	142	92
63,5	169	105,5
80	202	122
100	242	142
125	292	167



MODEL	RENK	BASINÇ (bar)	KUVVET (daN)		UYGUN FLANŞLAR
			İLK	SON	
AS 50	YEŞİL1	45	50	70	E58-028
AS 100	MAVİ	90	100	140	
AS 150	KIRMIZI	135	150	210	
AS 200	SARI	180	200	280	

### AS 250 – 500

STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)	BASINÇ (bar)	KUVVET (daN)	
				İLK	SON
5	40	35	75	250	350
10	50	40			
12,7	55,4	42,7			
16	62	46			
19	68	49			
25	80	55			
32	94	62			
38	106	68			
50	130	80			
63,5	157	93,5			
75	180	105	150	500	700
80	190	110			
100	230	130			
125	280	155			



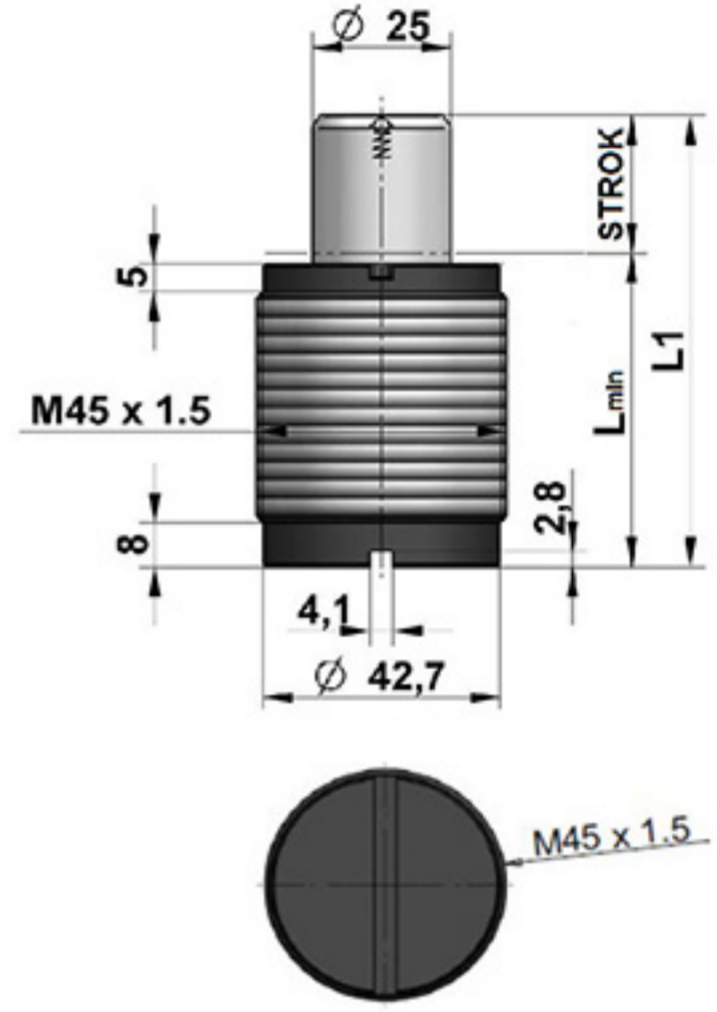
UYGUN FLANŞLAR

E23-038

E58-038

## AS 520 – 700

STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)	BASINÇ (bar)	KUVVET (daN)	
				İLK	SON
10	52	42	100	520	700
12,7	57,4	44,7			
16	64	48			
19	70	51			
25	82	57			
32	96	64			
38	108	70			
50	132	82			
63,5	159	95,5			
75	182	107			
80	192	112	150	700	980
100	232	132			
125	282	157			

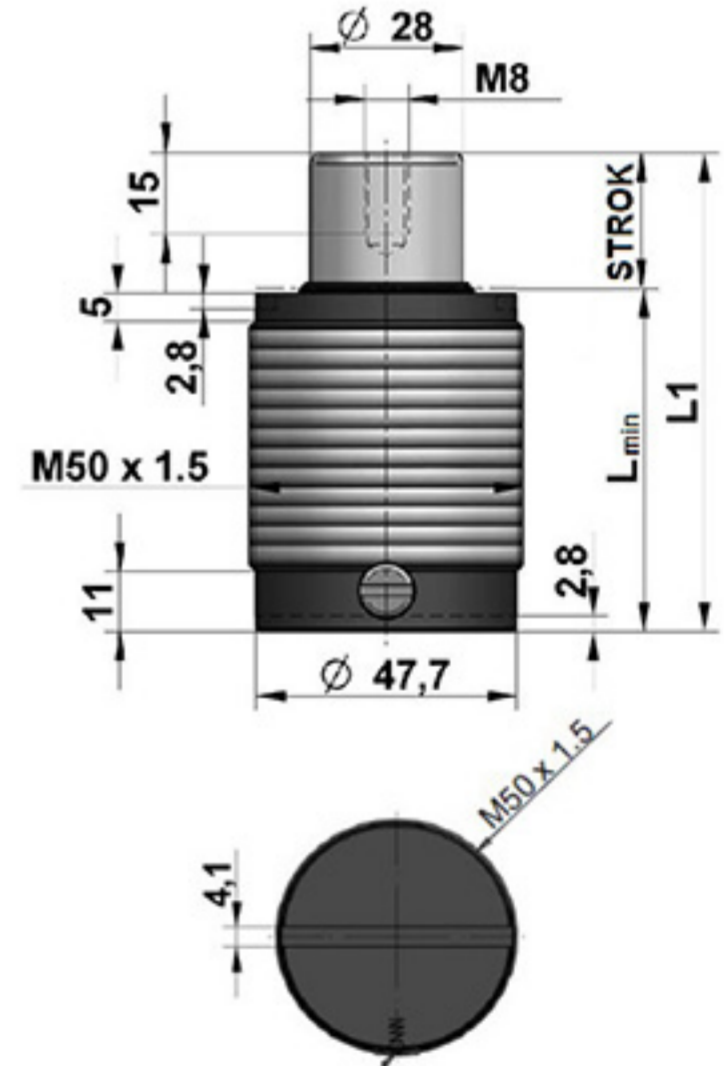


UYGUN FLANŞLAR

E58-045

## AS 750 – 1000

STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)	BASINÇ (bar)	KUVVET (daN)	
				İLK	SON
10	52	42	100	520	700
12,7	57,4	44,7			
16	64	48			
19	70	51			
25	82	57			
32	96	64			
38	108	70			
50	132	82			
63,5	159	95,5			
75	182	107			
80	192	112	150	700	980
100	232	132			
125	282	157			



UYGUN FLANŞLAR

E58-045



## AG250 SERİSİ

### VİDALI GÖVDE SERİSİ ÖZELLİKLERİ

ISO BOYUTLARINDA, M38x1,5 VİDA

GÖVDEDEN BAĞLANTI İMKANI

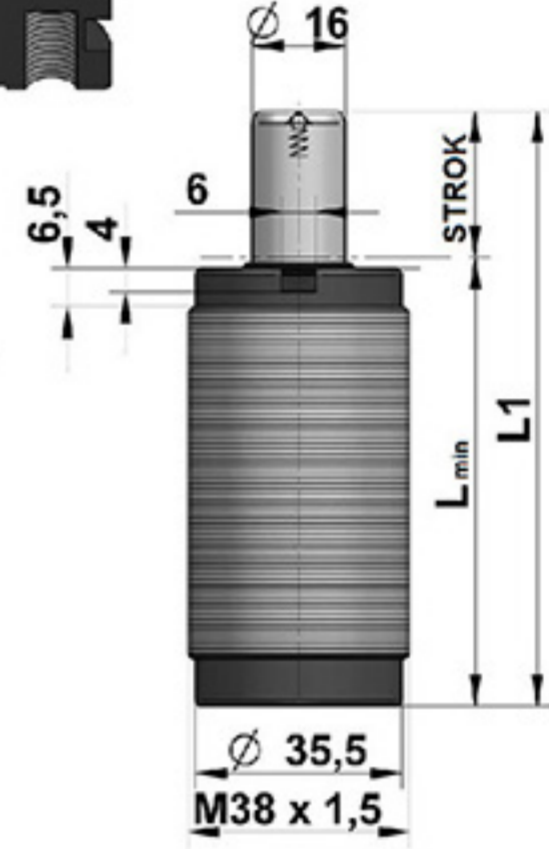
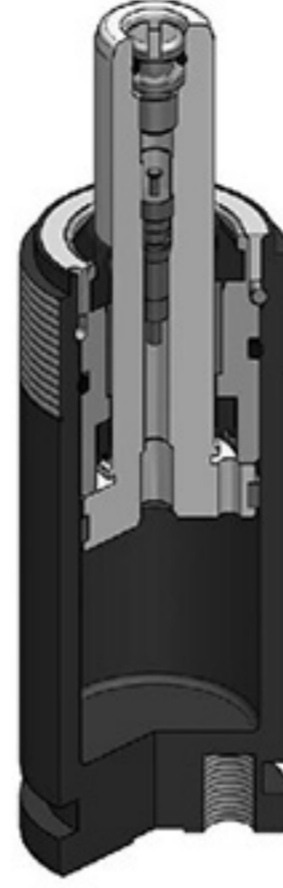
YÜKSEK HASSASİYETLİ SİSTEMLERE UYGUN

Dolum basıncı : 20bar – 150bar

Maks. piston hızı : 1,6m/s

Dolum imkanı : EVET

Tesisat imkanı : HAYIR



### AG 250

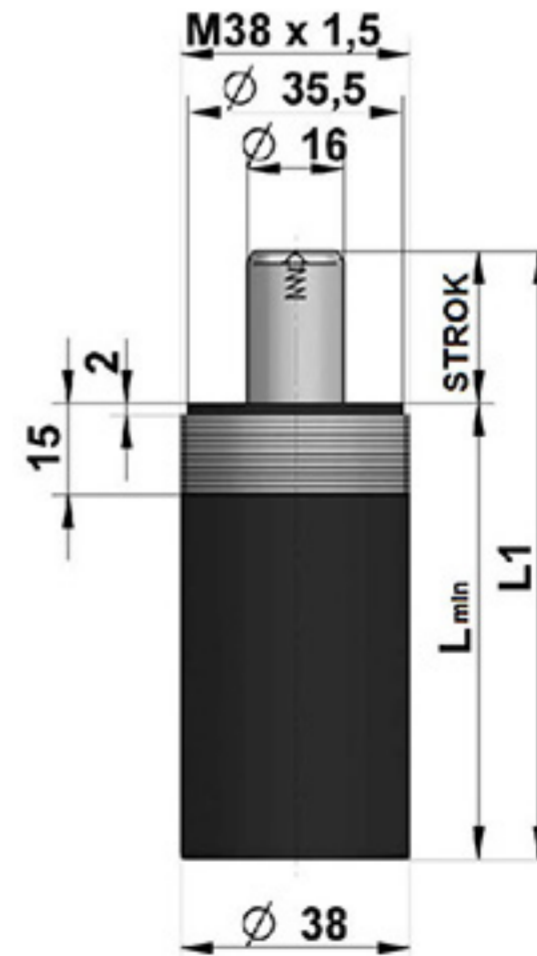
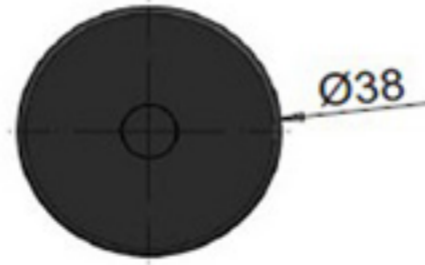
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12,7	77,4	64,7	250	375
25	102	77		
38	128	90		
50	152	102		
63,5	179	115,5		
80	212	132		
100	252	152		

UYGUN FLANŞLAR

E23-038

E58-038

### AG 250 – S



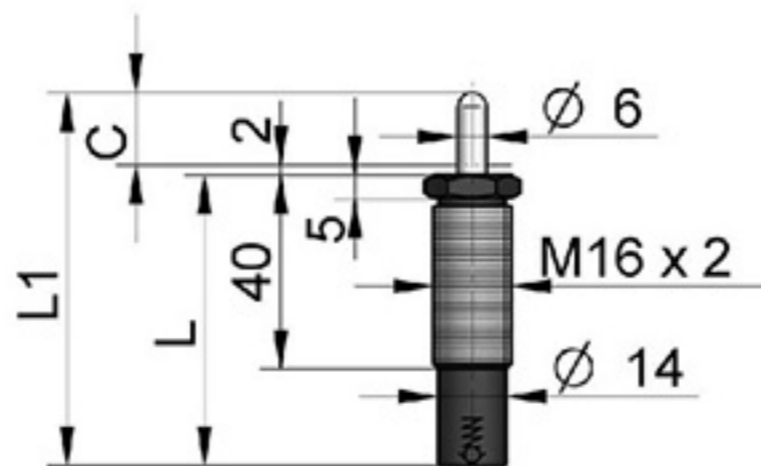
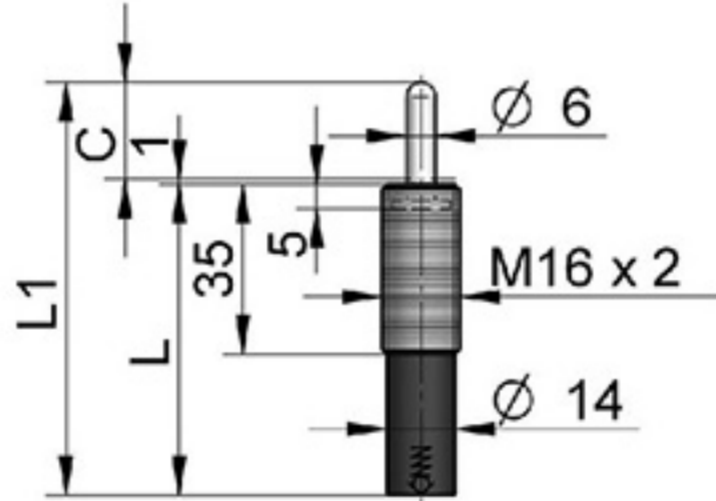
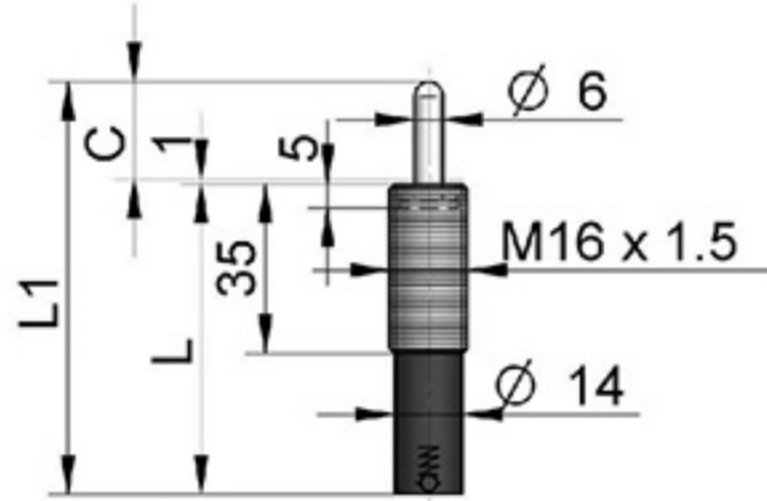
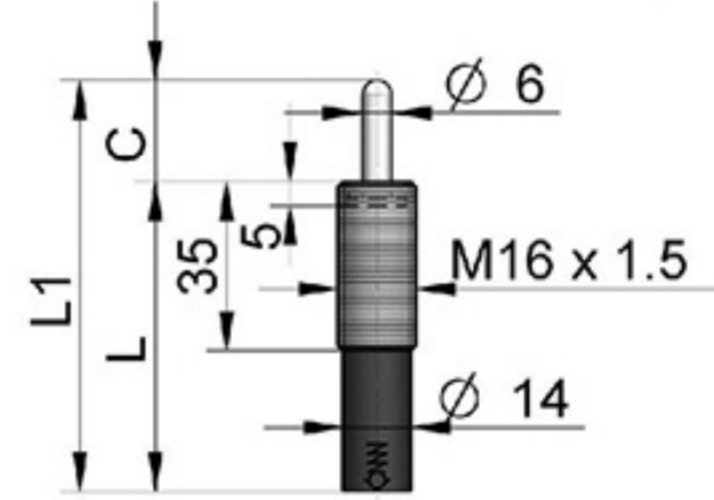
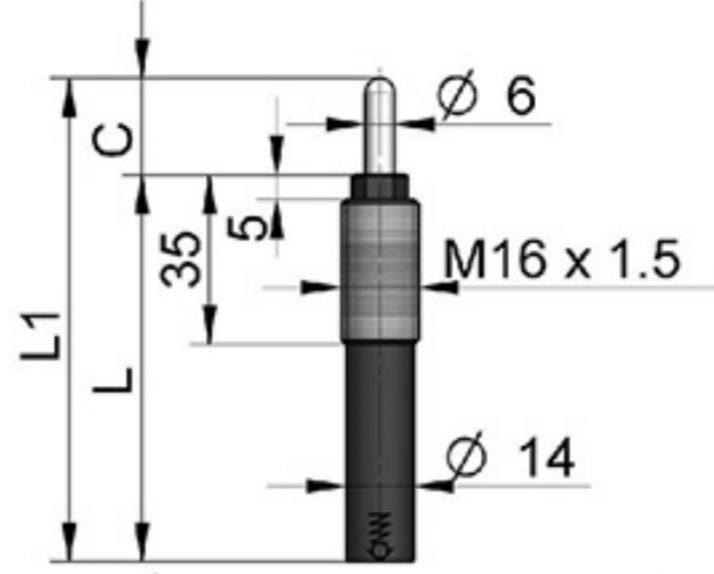
STROK	L1 ±0.5 (mm)	Lmin ±0.1 (mm)	KUVVET (daN)	
			İLK	SON
12,7	75,4	62,7	250	375
25	100	75		
38	126	88		
50	150	100		
63,5	177	113,5		
80	210	130		

UYGUN FLANŞLAR

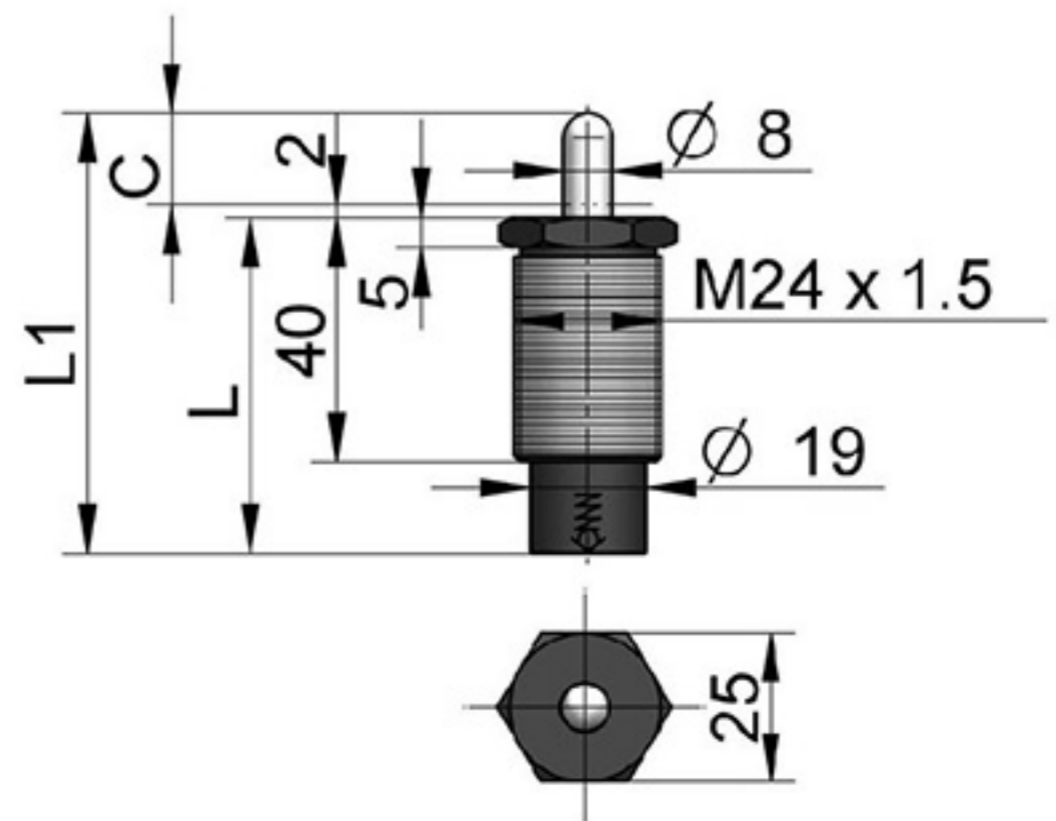
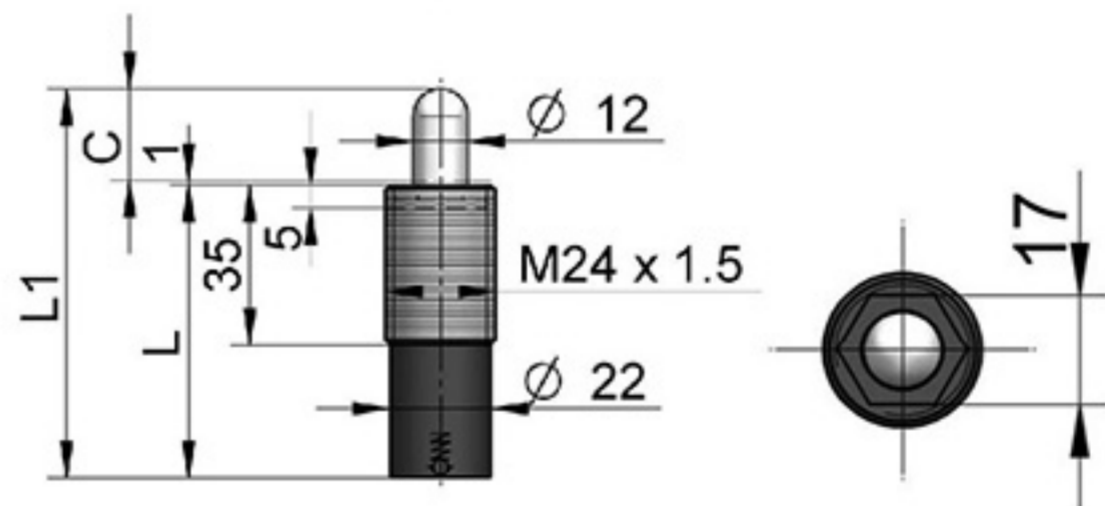
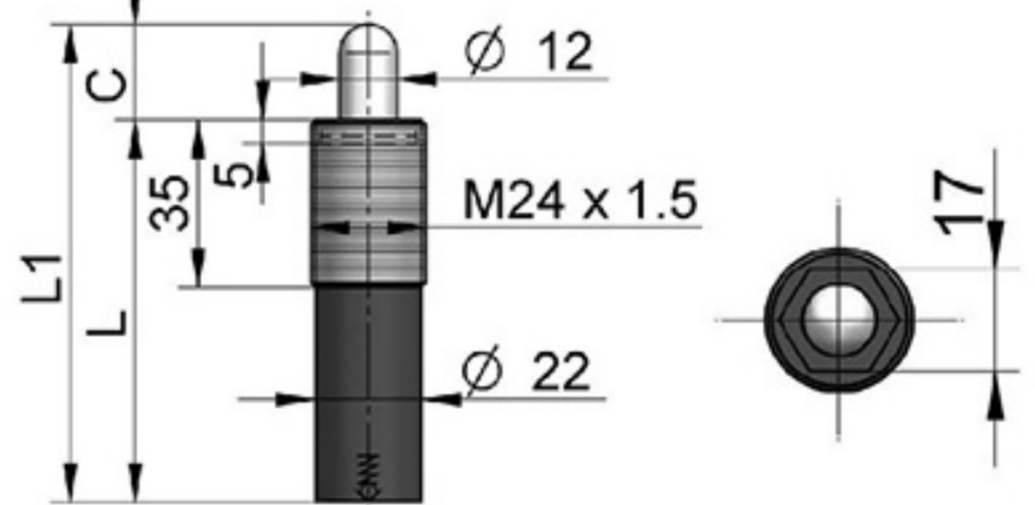
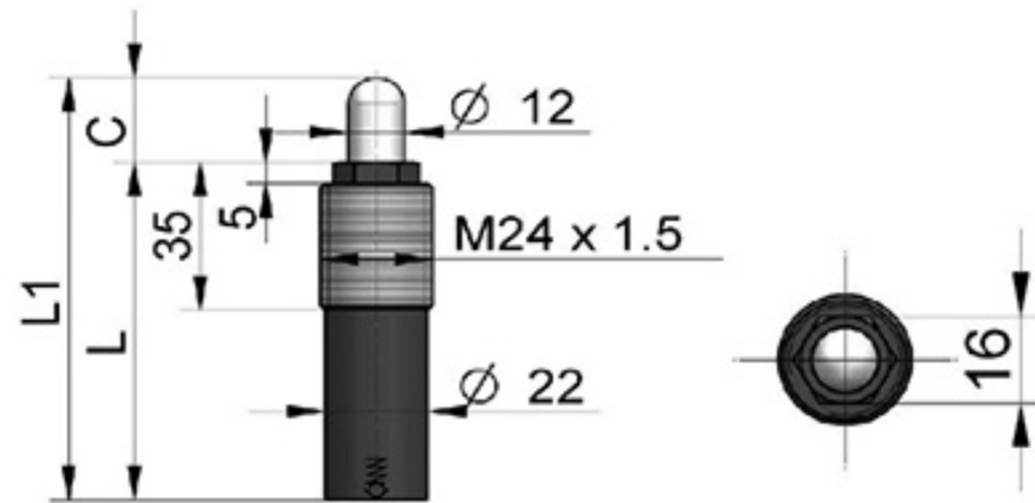
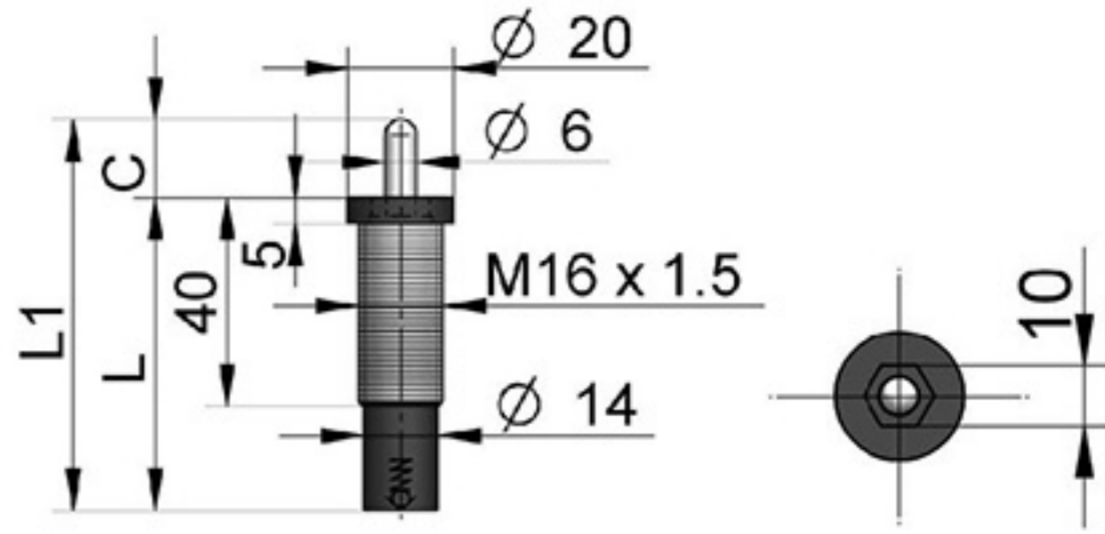
E08-038

## GAZLI YAYLI ÇIKARICILAR

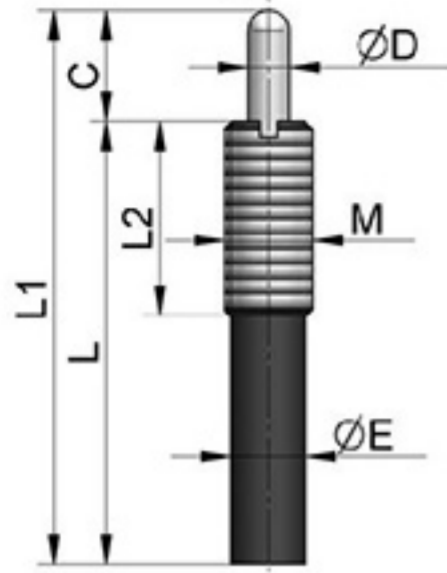
MODEL/STROK	L1	L	KUVVET
EFR 16 10	80	70	20bar (min) 6daN  150bar (max) 43daN
EFR 16 20	100	80	
EFR 16 30	120	90	
EFR 16 40	140	100	
EFR 16 50	160	110	
EFR 16 60	180	120	
EFR 16 70	200	130	
EFR 16 80	220	140	
EFR 16 100	260	160	
EFG 16 10	80	70	
EFG 16 20	100	80	
EFG 16 30	120	90	
EFG 16 40	140	100	
EFG 16 50	160	110	
EFG 16 60	180	120	
EFG 16 70	200	130	
EFG 16 80	220	140	
EFG 16 100	260	160	
EFGC 16 10	65	54	20bar (min) 6daN  150bar (max) 43daN
EFGC 16 20	85	64	
EFGC 16 30	105	74	
EFGC 16 40	125	84	
EFGC 16 50	145	94	
EFGC 16 60	165	104	
EFGC 16 70	185	114	
EFGC 16 80	205	124	
EFGC 16 100	245	144	
EFGC 16 125	295	169	
EFGD 16 10	65	54	20bar (min) 6daN  150bar (max) 43daN
EFGD 16 20	85	64	
EFGD 16 30	105	74	
EFGD 16 40	125	84	
EFGD 16 50	145	94	
EFGD 16 60	165	104	
EFGD 16 70	185	114	
EFGD 16 80	205	124	
EFGD 16 100	245	144	
EFGD 16 125	295	169	
EFV 16 70	56	47	20bar (min) 6daN  150bar (max) 43daN
EFV 16 10	62	50	
EFV 16 12.7	67.4	52.7	
EFV 16 15	72	55	
EFV 16 25	92	65	
EFV 16 38	118	78	
EFV 16 50	142	90	
EFV 16 63.5	172	106.5	
EFV 16 80	205	123	



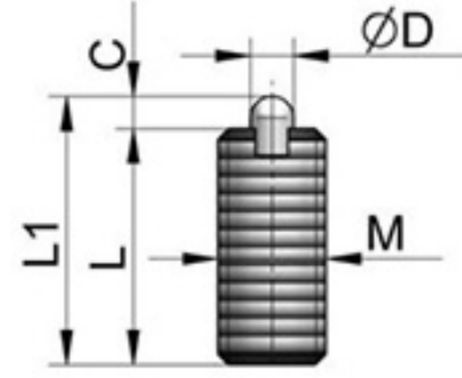
MODEL/STROK	L1	L	KUVVET	
EFT 16 10	65	55	20bar (min) 6daN	
EFT 16 15	75	60		
EFT 16 20	85	65		
EFT 16 25	95	70		
EFT 16 30	105	75		
EFT 16 40	125	85		
EFT 16 50	145	95		
EFT 16 60	165	105		
EFT 16 70	185	115		
EFT 16 80	205	125		
EFT 16 100	245	145	150bar (max) 43daN	
EFT 16 125	295	170		
EFR 24 10	80	70		20bar (min) 23daN
EFR 24 20	100	80		
EFR 24 30	120	90		
EFR 24 40	140	100		
EFR 24 50	160	110		
EFR 24 60	180	120		
EFR 24 70	200	130		
EFR 24 80	220	140		
EFR 24 100	260	160		
EFG 24 10	80	70	20bar (min) 23daN	
EFG 24 20	100	80		
EFG 24 30	120	90		
EFG 24 40	140	100		
EFG 24 50	160	110		
EFG 24 60	180	120		
EFG 24 70	200	130		
EFG 24 80	220	140		
EFG 24 100	260	160		
EFGC 24 10	65	54		20bar (min) 23daN
EFGC 24 20	85	64		
EFGC 24 30	105	74		
EFGC 24 40	125	84		
EFGC 24 50	145	94		
EFGC 24 60	165	104		
EFGC 24 70	185	114		
EFGC 24 80	205	124		
EFGC 24 100	245	144		
EFGC 24 101	295	169		
EFV 24 7	7	56	47	
EFV 24 10	10	62	50	
EFV 24 12.7	12.7	67.4	52.7	
EFV 24 15	15	72	55	
EFV 24 25	25	92	65	
EFV 24 38	38	118	78	
EFV 24 50	50	142	90	
EFV 24 63.5	63.5	172	106.5	
EFV 24 80	80	205	123	
EFV 24 100	100	245	143	
EFV 24 125	125	295	168	
EFV 24 150	150	353	201	
EFV 24 160	160	373	211	
EFV 24 175	175	403	226	
EFV 24 200	200	453	251	



# ÇELİK YAYLI ÇIKARICILAR



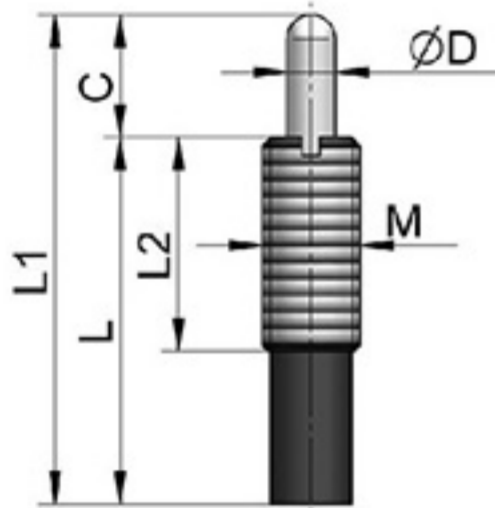
MBR XX  
MBN XX XX



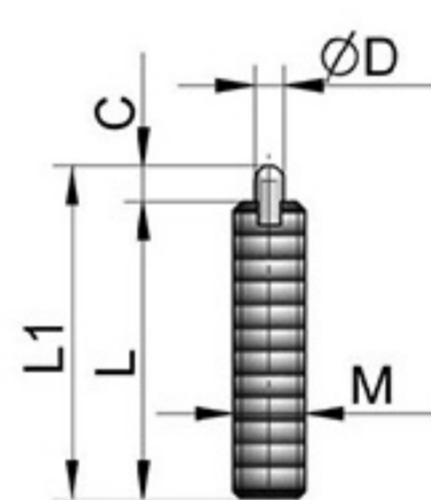
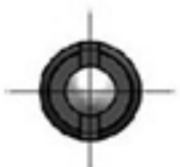
MBR 3



MODEL STROK	M DIN 13	L1	L	L2	E	D	YAY KUVVETİ (N)	
							min.	max.
MBR 3	M 10	25	22	22	-	4	25	70
MBR 10	M 12	53	43	35	10	5.5	7	40
MBR 15	M 16	75	60		13.4	7.5	15	80
MBR 20	M 16	100	80		13.4	7.5	35	174
MBR 30	M 16	150	120		13.4	7.5	20	80
MBR 40	M 16	190	150		13.4	7.5	55	158
MBR 50	M 16	250	200		13.4	7.5	35	105
MBN 16 10	M 16	90	80	35	13.4	7.3	17	75
MBN 16 20	M 16	140	120		13.4	7.3	21	80
MBN 16 30	M 16	180	150		13.4	7.3	21	90
MBN 16 40	M 16	240	200		13.4	7.3	16	80
MBN 22 20	M 22	150	130	50	19	9.0	80	215
MBN 22 30	M 22	198	168		19	9.0	70	210
MBN 22 40	M 22	266	226		19	9.0	75	210



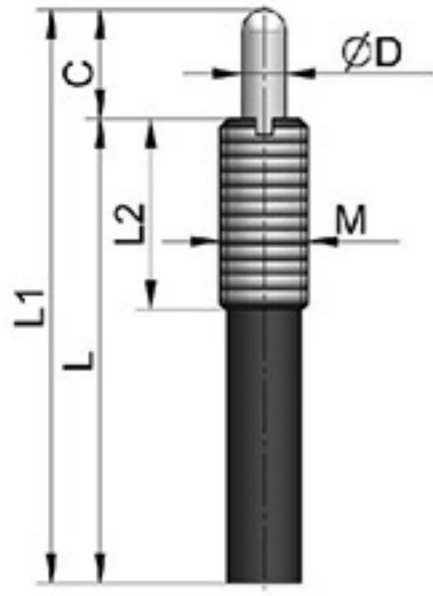
MB XX XXL



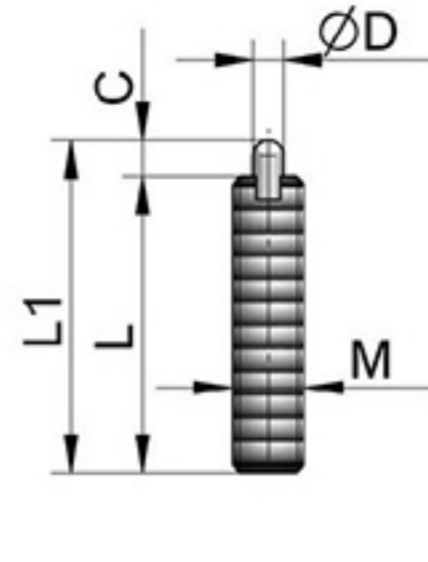
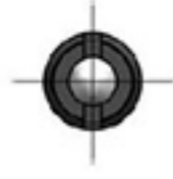
MB XXL



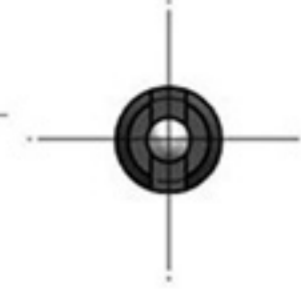
MODEL STROK	M DIN 13	L1	L	L2	D	YAY KUVVETİ (N)	
						min.	max.
MB 5L	M 5	23	20	-	2.0	2	10
MB 6L	M 6	28	25	-	2.5	3	10
MB 8L	M 8	28	25	-	3.1	3	10
MB 10L	M 10	35	30	-	3.8	3	15
MB 12L	M 12	35	30	-	5.5	2	10
MB 12 10L	M 12	53	43	35	5.5	4	20
MB 16 10LA	M 16	60	50	35	8	10	50
MB 16 10LB	M 16	70	60	35	8	13	40
MB 16 15L	M 16	75	60	35	8	10	40
MB 16 20L	M 16	80	60	35	8	13	40
MB 16 30L	M 16	155	125	35	8	18	40
MB 16 50L	M 16	205	155	35	8	20	50
MB 24 15L	M 24	75	60	45	10	20	100
MB 30 20L	M 30	90	70	45	15	30	150



MB XX XXD

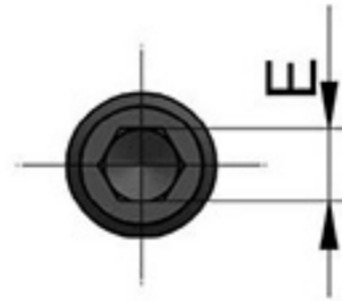
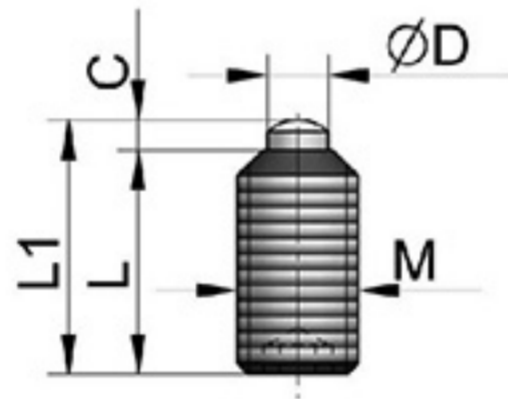


MB XXD



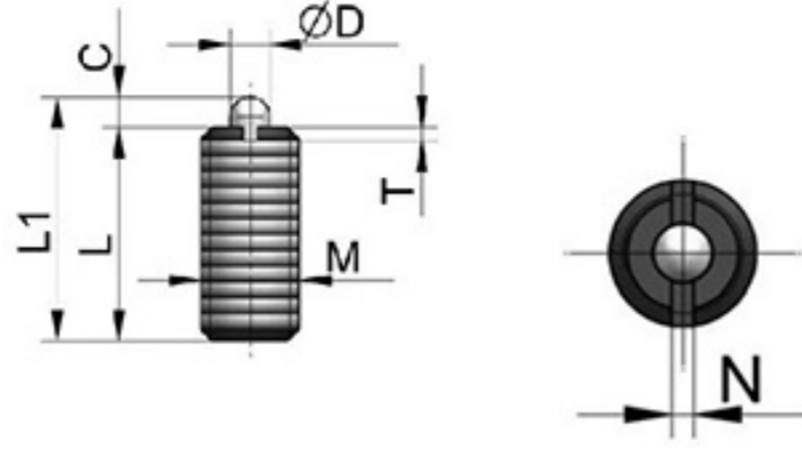
MODEL STROK	M DIN 13	L1	L	L2	D	YAY KUVVETİ (N)	
						min.	max.
MB 3D	M 3	11.5	10	-	1.5	0.5	3
MB 4D	M 4	14	12	-	2.0	2	10
MB 5D	M 5	23	20	-	3.0	4	20
MB 6D	M 6	28	25	-	3.0	8	30
MB 8D	M 8	28	25	-	3.0	8	30
MB 10D	M 10	35	30	-	3.0	10	50
MB 12D	M 12	35	30	-	5.0	10	50
MB 12 10D	M 12	53	43	35	5.0	7	40
MB 16 10DA	M 16	60	50	35	8	20	100
MB 16 10DB	M 16	70	60	35	8	27	80
MB 16 15D	M 16	75	60	35	8	15	80
MB 16 20D	M 16	105	85	35	8	17	80
MB 16 30D	M 16	155	125	35	8	20	80
MB 16 50D	M 16	205	155	35	8	30	100
MB 24 15D	M 24	75	60	45	10	40	200
MB 30 20D	M 30	90	70	45	15	50	300

MBS



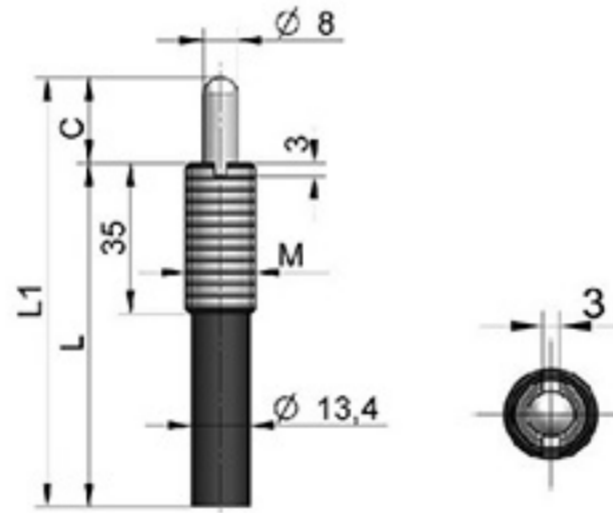
MODEL STROK	M DIN 13	L1	L	D	E	YAY KUVVETİ (N)	
						min.	max.
MBS 5D	M 5	13.5	12	2.5	2.5	5	15
MBS 5L	M 5	13.5	12	2.5	2.5	2	8
MBS 6D	M 6	14.5	13	3.0	3.0	6	20
MBS 6L	M 6	14.5	13	3.0	3.0	3	10
MBS 8D	M 8	17	15	4.0	4.0	6	20
MBS 8L	M 8	17	15	4.0	4.0	3	10
MBS 10D	M 10	20.5	18	5.0	5.0	10	30
MBS 10L	M 10	20.5	18	5.0	5.0	5	15
MBS 12D	M 12	23.5	20	6.0	6.0	10	30
MBS 12L	M 12	23.5	20	6.0	6.0	5	15
MBS 16D	M 16	26.5	22	8.0	8.0	20	60
MBS 16L	M 16	26.5	22	8.0	8.0	10	30

## MBT – MBTH



MODEL STROK	M	L1	L	D	N	T	YAY KUVVETİ (N)	
							min.	max.
MBT - 3	M 3	13	12	1.0	0.4	0.5	2.0	4
MBT - 4	M 4	16.5	15	1.5	0.6	0.6	4.5	16
MBT - 5	M 5	20.3	18	2.4	1.2	0.8	6.0	19
MBT - 6	M 6	22.5	20	2.7	1.3	0.9	6.0	19
MBT - 8	M 8	25	22	3.5	1.5	1.4	10.0	39
MBT - 10	M 10	25	22	4.0	1.5	1.4	10.0	39
MBT - 12	M 12	32	28	6.0	2.7	2.0	12.0	53
MBT - 16	M 16	37	32	7.5	3.2	2.5	45.0	100
MBT - 20	M 20	47	40	10.0	3.7	3.0	52.0	125
MBT - 24	M 24	62	52	12.0	3.7	3.0	70.0	170
MBTH - 5	M 5	20.3	18	2.4	1.2	0.8	11	40
MBTH - 6	M 6	22.5	20	2.7	1.3	0.9	15	43
MBTH - 8	M 8	25	22	3.5	1.5	1.4	20	75
MBTH - 10	M 10	25	22	4.0	1.5	1.4	20	75
MBTH - 12	M 12	32	28	6.0	2.7	2.0	45	120
MBTH - 16	M 16	37	32	7.5	3.2	2.5	64	160
MBTH - 20	M 20	47	40	10.0	3.7	3.0	75	195
MBTH - 24	M 24	62	52	12.0	3.7	3.0	75	245

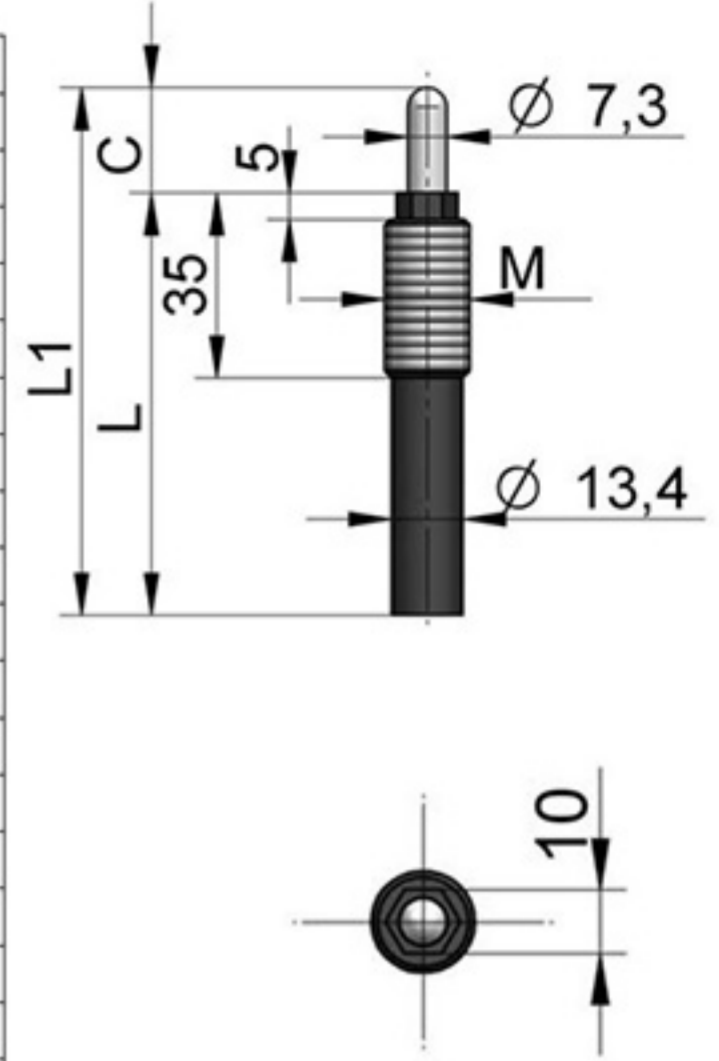
## Z – M



MODEL STROK	M	L1	L	YAY KUVVETİ (N)	
				min.	max.
Z 200 100	M16x2	100	80	24	186
Z 300 200		110		4	47
Z 400 300		190	150	59	177
Z 500 350		200		13	47
Z 600 400		210		11	45
Z 700 450		270	200	5	40
Z 800 500		280		2	38
M 200 100		M16x1.5	100	80	24
M 300 200	110		4		47
M 400 300	190		150	59	177
M 500 350	200			13	47
M 600 400	210			11	45
M 700 450	270		200	5	40
M 800 500	280			2	38

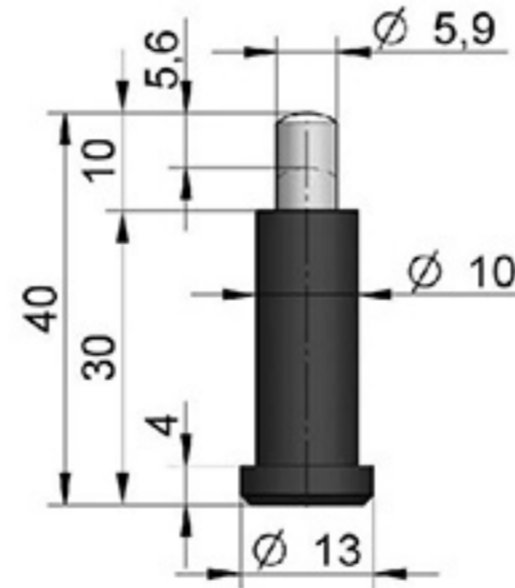
## MBHX – MBHY

MODEL STROK	M	L1	L	YAY KUVVETİ (N)	
				min.	max.
MBHX 16 10	M 16	70	60	4	13.3
MBHX 16 15	M 16	75	60	10	40
MBHX 16 20	M 16	100	80	7	34.5
MBHX 16 30	M 16	110	80	6.5	45.5
MBHX 16 30/1	M 16	150	120	18	40
MBHX 16 30/2	M 16	150	120	6.5	45.5
MBHX 16 30/3	M 16	180	150	18	40
MBHX 16 40	M 16	190	150	13.2	37.2
MBHX 16 50	M 16	200	150	13.2	43.2
MBHX 16 50/1	M 16	250	200	13.2	43.2
MBHX 16 60	M 16	210	150	13.2	49.2
MBHX 16 60/1	M 16	260	200	13.2	49.2
MBHX 16 70	M 16	270	200	9.7	40.5
MBHX 16 80	M 16	280	200	9.7	44.8
MBHY 16 10	M 16 x 1.5	70	60	4	13.3
MBHY 16 15	M 16 x 1.5	75	60	10	40
MBHY 16 20	M 16 x 1.5	100	80	7	34.5
MBHY 16 30	M 16 x 1.5	110	80	6.5	45.5
MBHY 16 30/1	M 16 x 1.5	150	120	18	40
MBHY 16 30/2	M 16 x 1.5	150	120	6.5	45.5
MBHY 16 30/3	M 16 x 1.5	180	150	18	40
MBHY 16 40	M 16 x 1.5	190	150	13.2	37.2
MBHY 16 50	M 16 x 1.5	200	150	13.2	43.2
MBHY 16 50/1	M 16 x 1.5	250	200	13.2	43.2
MBHY 16 60	M 16 x 1.5	210	150	13.2	49.2
MBHY 16 60/1	M 16 x 1.5	260	200	13.2	49.2
MBHY 16 70	M 16 x 1.5	270	200	9.7	40.5
MBHY 16 80	M 16 x 1.5	280	200	9.7	44.8



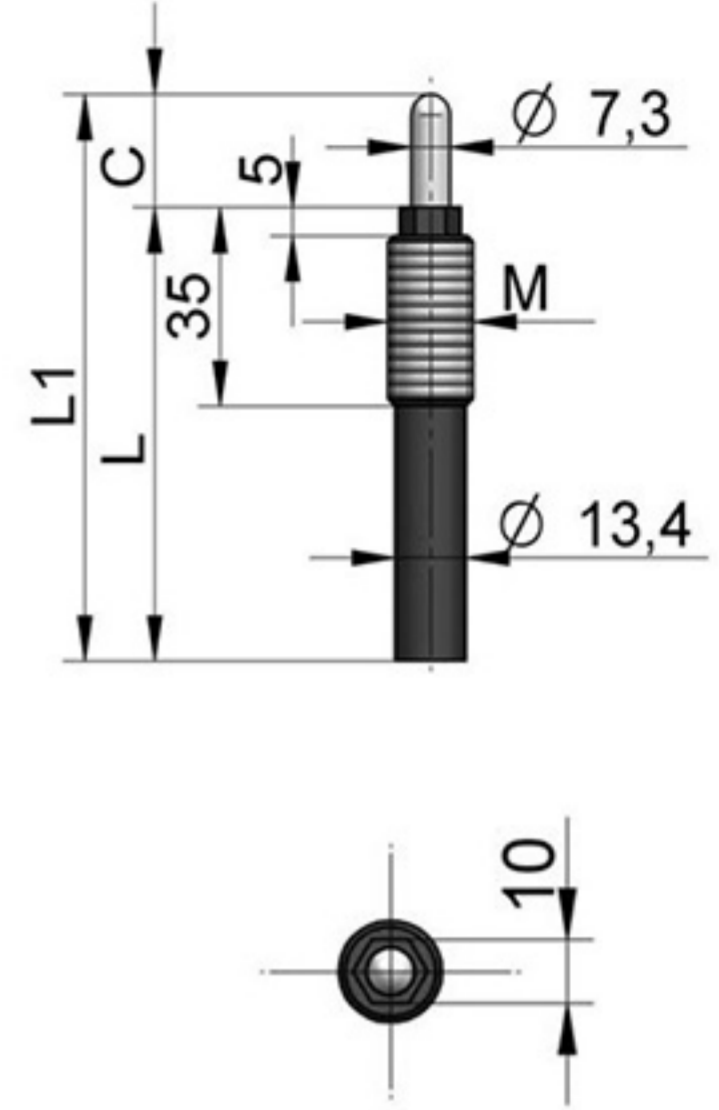
## MBP 10

YAY KUVVETİ (N)	
min.	max.
42	110



## MBHZ – MBHW

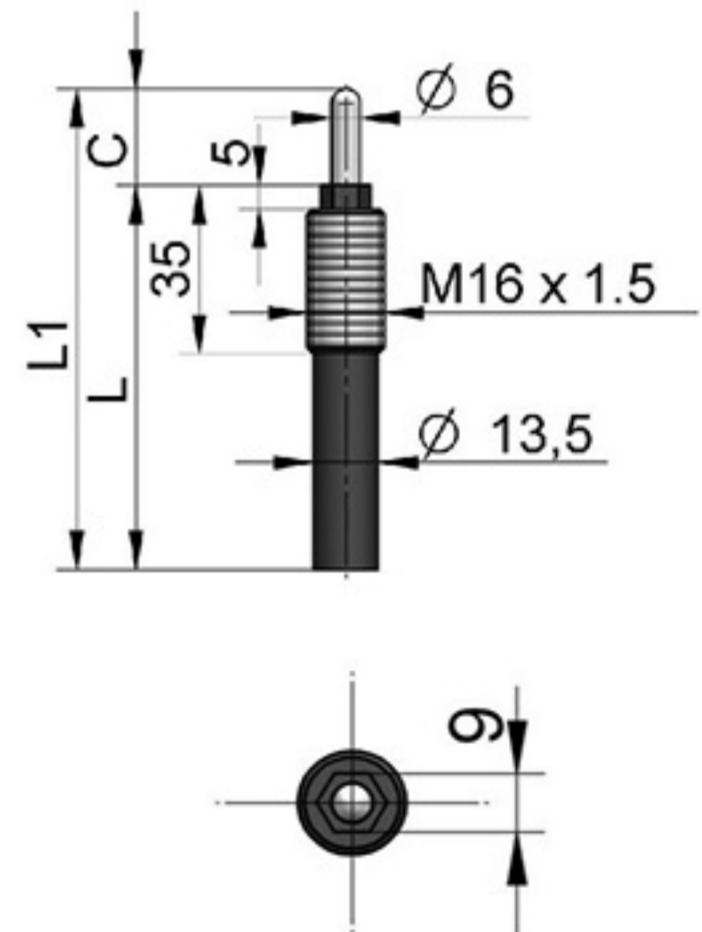
MODEL STROK	M	L1	L	YAY KUVVETİ (N)	
				min.	max.
MBHZ 16 10	M 16	70	60	13	45.5
MBHZ 16 15	M 16	75	60	15	56
MBHZ 16 20	M 16	100	80	34.5	172.5
MBHZ 16 30	M 16	110	80	20	80
MBHZ 16 30/1	M 16	150	120	56.1	132.2
MBHZ 16 30/2	M 16	150	120	20	80
MBHZ 16 30/3	M 16	180	150	56.1	132.2
MBHZ 16 40	M 16	190	150	56.1	158.1
MBHZ 16 50	M 16	200	150	19.3	100
MBHZ 16 50/1	M 16	250	200	19.3	100
MBHZ 16 60	M 16	210	150	19.3	116
MBHZ 16 60/1	M 16	260	200	19.3	116
MBHZ 16 70	M 16	270	200	19.3	132
MBHZ 16 80	M 16	280	200	25	100
MBHW 16 10	M 16 x 1.5	70	60	13	45.5
MBHW 16 15	M 16 x 1.5	75	60	15	56
MBHW 16 20	M 16 x 1.5	100	80	34.5	172.5
MBHW 16 30	M 16 x 1.5	110	80	20	80
MBHW 16 30/1	M 16 x 1.5	150	120	56.1	132.2
MBHW 16 30/2	M 16 x 1.5	150	120	20	80
MBHW 16 30/3	M 16 x 1.5	180	150	56.1	132.2
MBHW 16 40	M 16 x 1.5	190	150	56.1	158.1
MBHW 16 50	M 16 x 1.5	200	150	19.3	100
MBHW 16 50/1	M 16 x 1.5	250	200	19.3	100
MBHW 16 60	M 16 x 1.5	210	150	19.3	116
MBHW 16 60/1	M 16 x 1.5	260	200	19.3	116
MBHW 16 70	M 16 x 1.5	270	200	19.3	132
MBHW 16 80	M 16 x 1.5	280	200	25	100



## MBHR

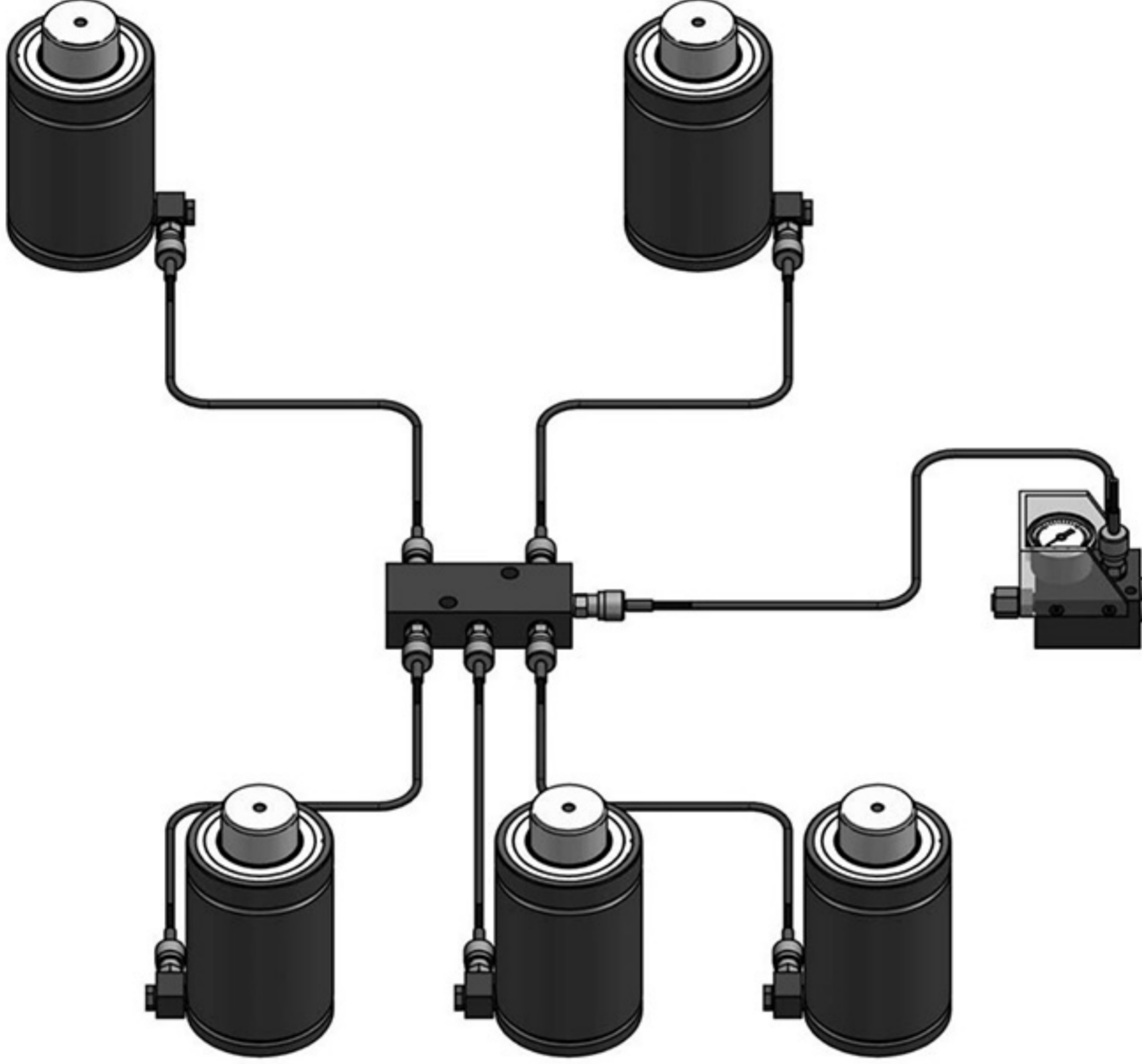
MBHR 16 – Kendinden yağlamasız  
MBHR K 16 – Kendinden yağlamalı

MODEL STROK	L1	L	YAY KUVVETİ (N)	
			min.	max.
MBHR 16 20	100	80	24	186
MBHR 16 50	200	150	13	47
MBHR K 16 20	100	80	24	186
MBHR K 16 30	110	80	4	47
MBHR K 16 50	200	150	13	47



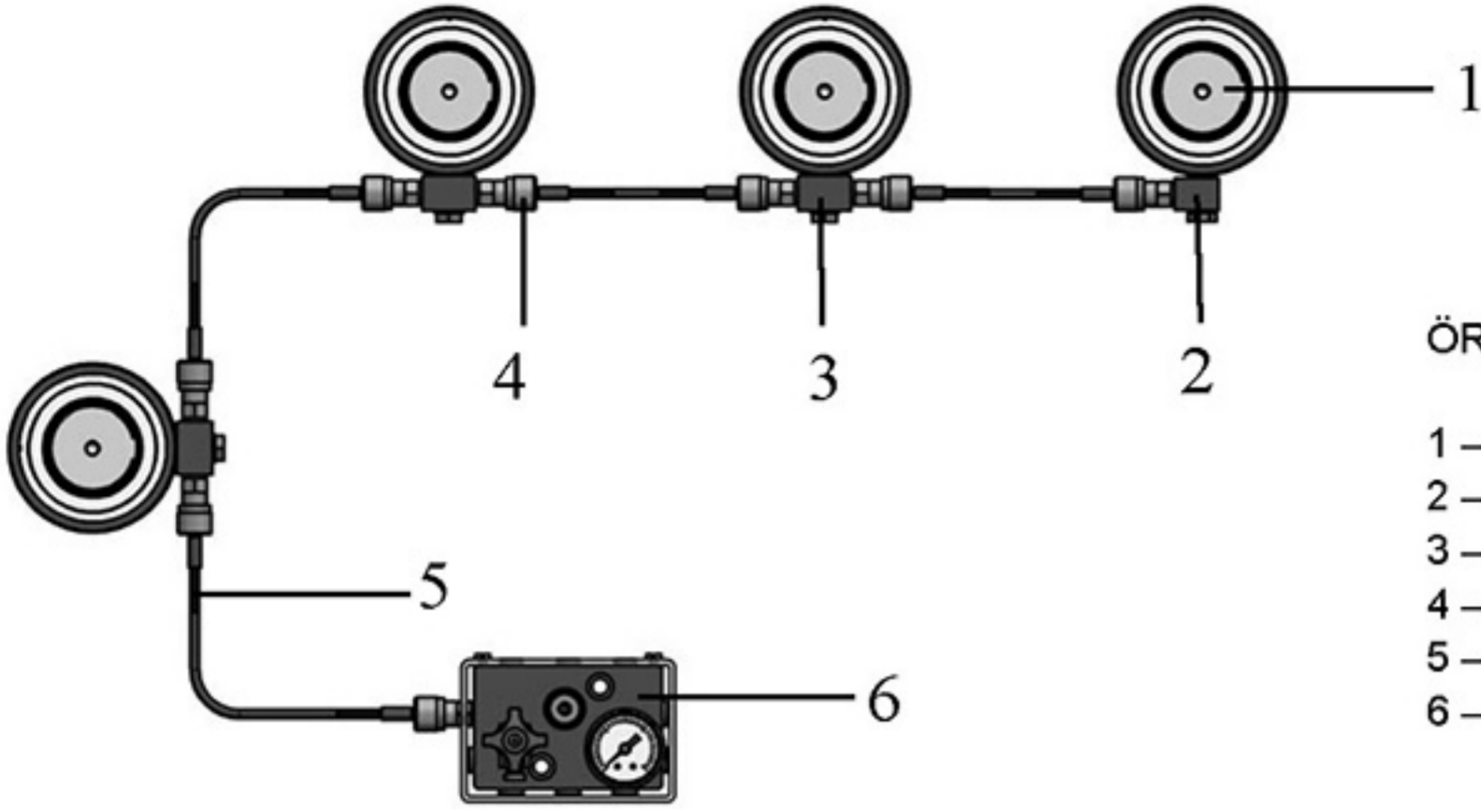


## GAZLI YAY TESİSAT EKİPMANLARI



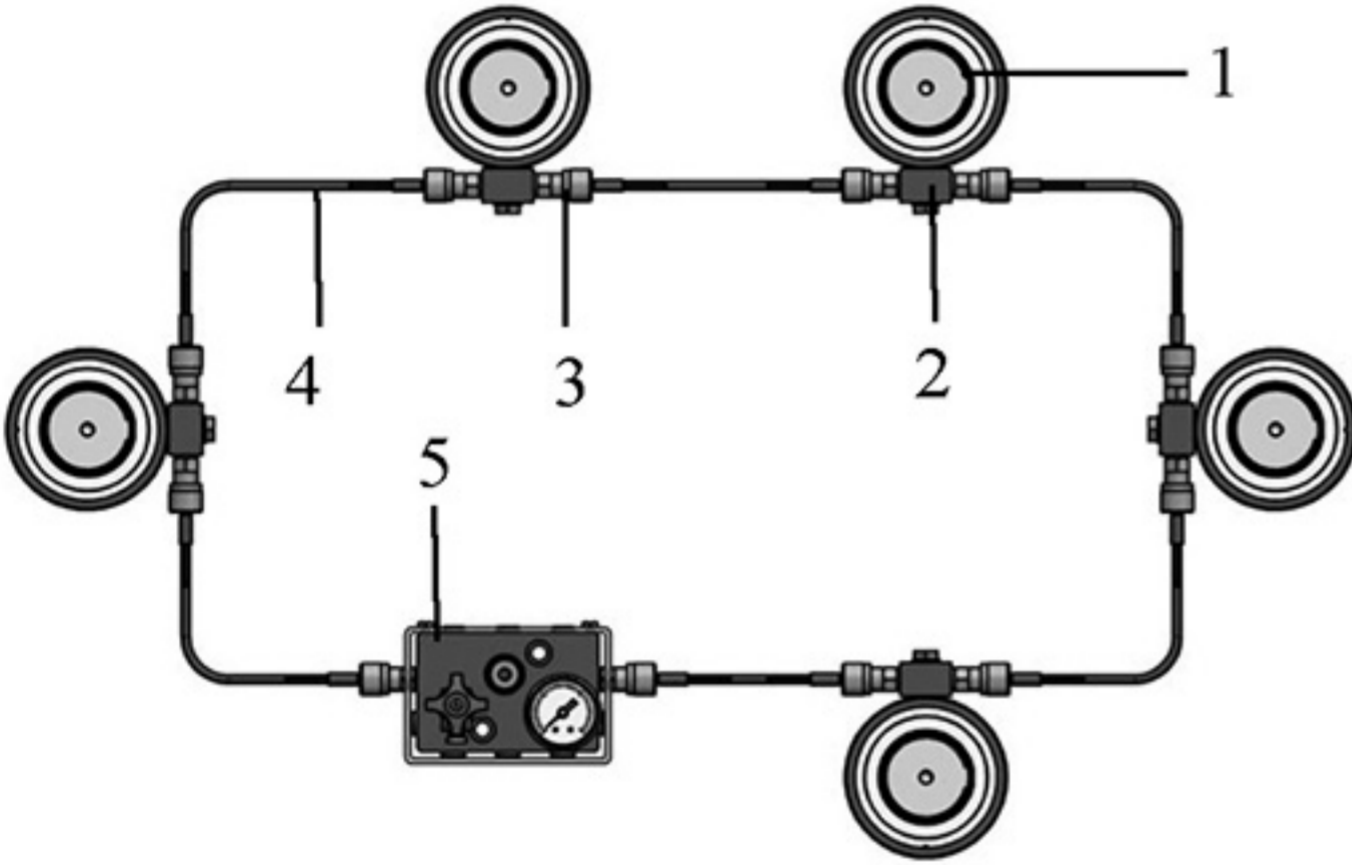
GAZLI YAY TESİSATLARI, KULLANICILARA ŞU AVANTAJLARI SAĞLAR:

- TM GAZLI YAYLARIN BASINÇLARININ KALIP DIŐINDAN KONTROL EDİLEBİLMESİ  
RNEK: 1 – 2 – 3 – 4 – 5 – 6
- HER SİLİNDİRDEKİ BASINCIN İZLENEBİLMESİ  
RNEK: 6
- TM GAZLI YAYLARDA AYNI BASINCIN SAĐLANABİLMESİ  
RNEK: 1 – 2 – 3 – 4 – 5
- BENZER ZELLİKTE GAZLI YAYLARDA AYNI KUVVETİN SAĐLANMASI  
RNEK: 1 – 2 – 3 – 4 – 5
- KONTROL PANELİ İLE TM GAZLI YAYLARDAKİ BASINCIN, SİSTEMİ DOLDURMA VEYA BOŐALTMA İLE AYARLANABİLMESİ  
RNEK: 1 – 2 – 3 – 4 – 5
- ALIŐMA SIRASINDA BİLE KOLAYLIKLA BAKIM YAPABİLME İMKANI  
RNEK: 1 – 2 – 3 – 4 – 5 – 6
- ANİ BASINÇ ARTIŐLARINI ENGELLEYEN DENGELEME TANKLARI İLE ALIŐABİLME
- BASINÇ ANAHTARLARI KULLANARAK İMALATI GVENLİ DURDURABİLME



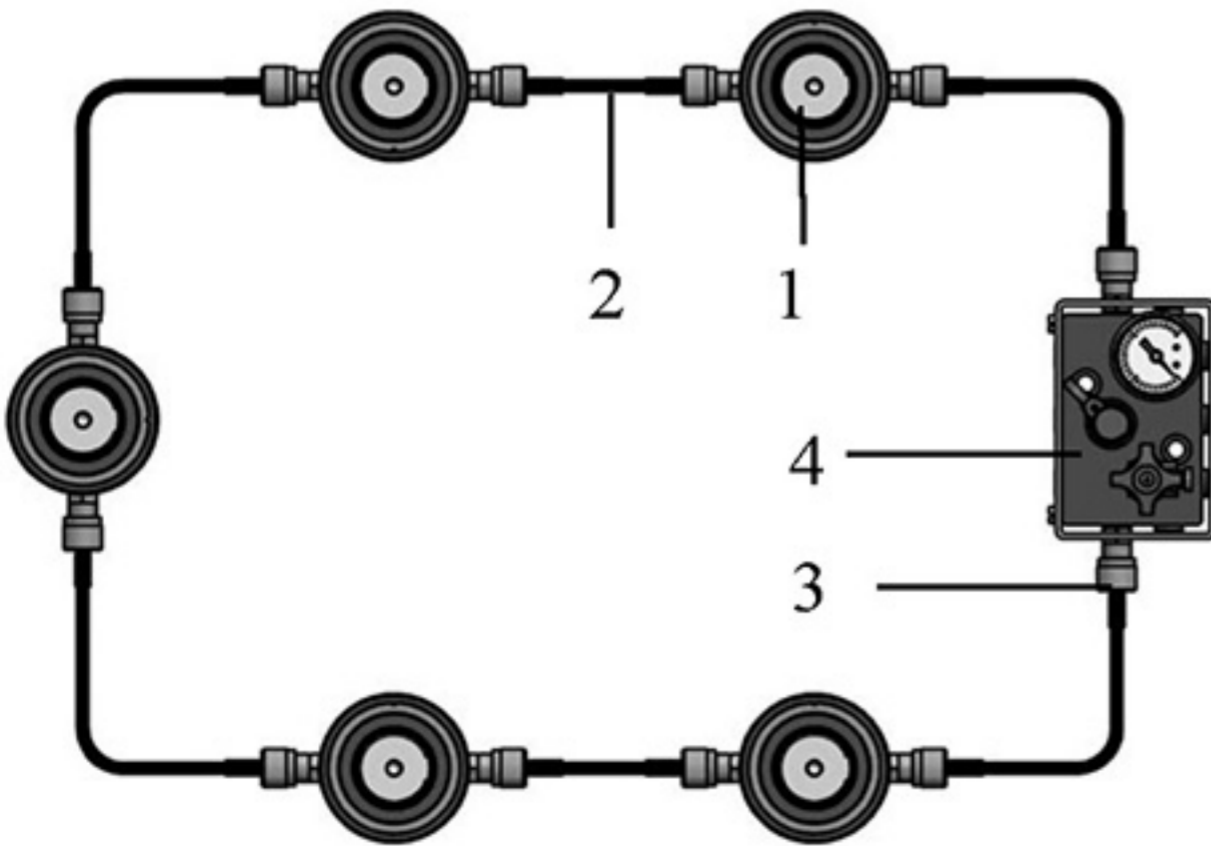
ÖRNEK 1

- 1 – AG 3000 XCF 50
- 2 – CF 01 24
- 3 – CF 02 40
- 4 – SKK 12R 1/8
- 5 – SGS 12 XXXX
- 6 – PC 100 R



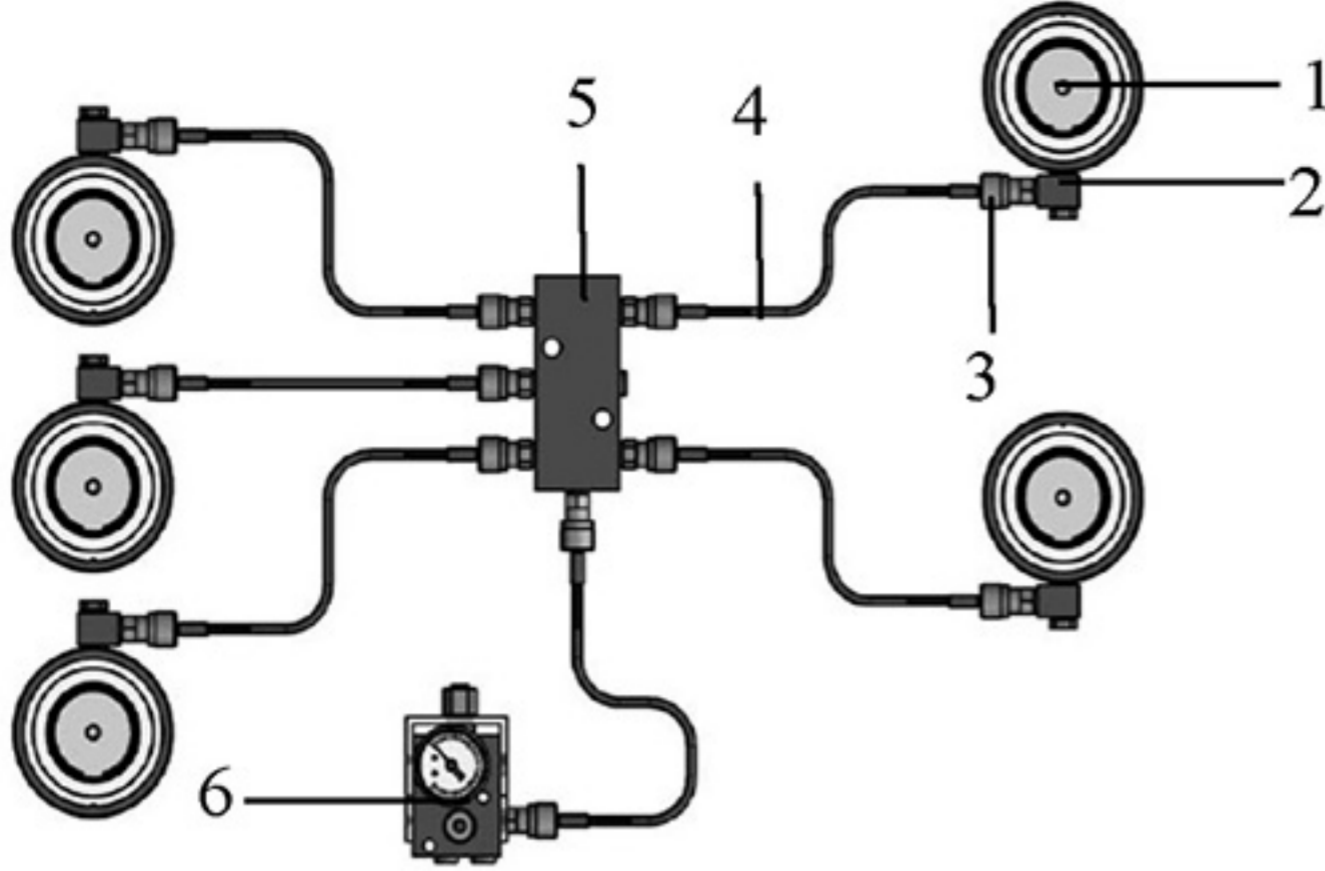
ÖRNEK 2

- 1 – AG 3000 XCF 50
- 2 – CF 02 40
- 3 – SKK 12R 1/8
- 4 – SGS 12 XXXX
- 5 – PC 100 R



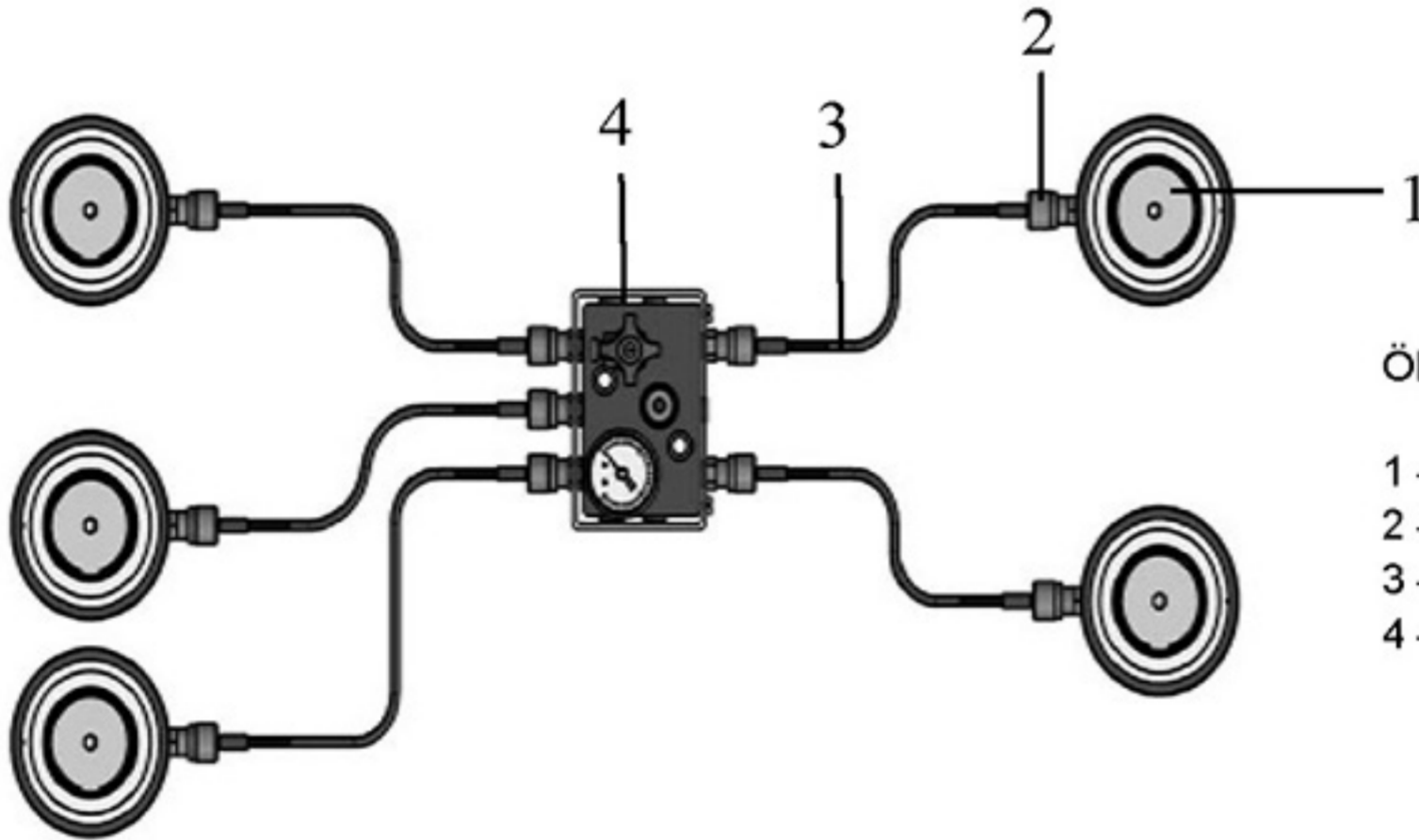
ÖRNEK 3

- 1 – AG 3000 XCF 50
- 2 – SGS 12 XXXX
- 3 – SKK 12R 1/8
- 4 – PC 100 R



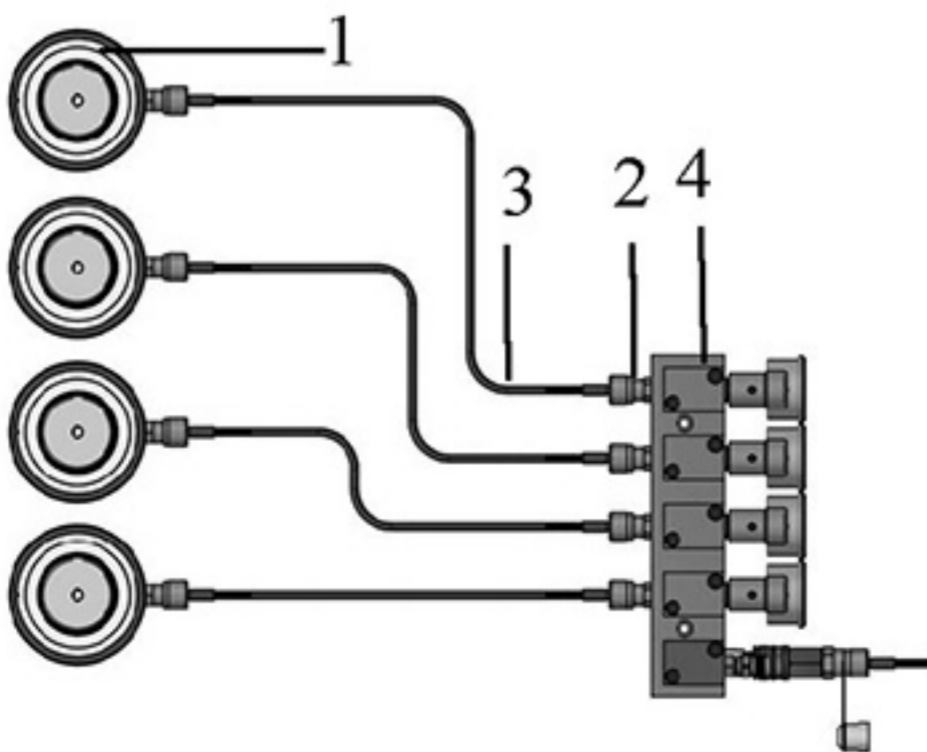
ÖRNEK 4

- 1 – AG 3000 XCF 50
- 2 – CF 01 24
- 3 – SKK 12R 1/8
- 4 – SGS 12 XXXX
- 5 – PLD 6
- 6 – PC 200 V



ÖRNEK 5

- 1 – AG 3000 XCF 50
- 2 – SKK 12R 1/8
- 3 – SGS 12 XXXX
- 4 – PC 100 R



ÖRNEK 6

- 1 – AG 3000 XCF 50
- 2 – SKK 12R 1/8
- 3 – SGS 12 XXXX
- 4 – MPC 4

## GÜVENLİK KURALLARI

- Gazlı yaylar en fazla 150 bar azot gazı ile dolu basınçlı kaplardır.
- Tamamen boşaldığından emin olmadan, ya da boşaltma eğitimi almadan, herhangi bir parçasına kesinlikle müdahale edilmemelidir. pistonun, silindir içine tamamen girdiğine emin olunuz
- Hatalar, ciddi yaralanmalara ve gazlı yay ömrünün azalmasına yol açabilir
- Gazlı yay bakım ve onarımı sadece eğitimli personel tarafından, uygun teçhizat ile belirtilen çalışma talimatlarına uygun olarak yapılmalıdır.
- İstenirse ORSA tarafından güvenlik, tamir ve bakım eğitimi verilebilir.
- Lütfen Ürün Bilgi Formunu (Product Data Sheet) okuyunuz
- Kontrol panelinin hasarlanmaması için kalıpta korunaklı bir yere monte ediniz.
- Doldurma işlemlerinde pistonun en üst konumda olmasına dikkat ediniz. piston üzerindeki vida dişleri sayesinde en üst konuma getirilebilir. Vida dişleri olmayan pistonlarda aynı işlem için 5 bar (75psi) hava basıncı kullanılabilir.
- Doldurma işleminden önce kontrol panelindeki tüm vanaların kapalı, hortum ve bağlantı elemanlarının sağlam ve sıkı olduğunu kontrol ediniz.
- Sadece azot gazı (N) kullanınız.
- Doldurma işlemi sırasında her model için belirtilen azami basıncı aşmayınız.
- Boşaltma işlemi sırasında gaz çıkışı yönünü insanların olmadığı yöne çeviriniz.

## KULLANIM TALİMATI

- Gazlı yayı tesisata bağlamadan önce sibopunu çıkarınız
- Aynı sistemdeki tüm gazlı yaylar aynı boyut/tip ve özellikte olmalıdır.
- Tüm bağlantı elemanları ve hortumların iyi durumda olduğundan emin olun.
- Hortumlardan titreşim önleyici kaplinleri kesinlikle çıkarmayın.
- Yağlama yağının silindirlerin içinde kalması ve boşaltma sırasında yağ kaybı olmaması için, kontrol panelini gazlı yaylardan daha yükseğe monte edin.
- Tesisatlı sistemlerin dolusunda, azot tüpünün vanasını yavaş ve dikkatlice açarak yavaş ve sabit hızda gaz dolumu sağlayınız.
- Her tip hortuma göre belirlenmiş sıcaklık ve basınç değerlerini aşmayınız.
- Tesisatlı sistemlerde en iyi performans için şu önerilere dikkat ediniz:

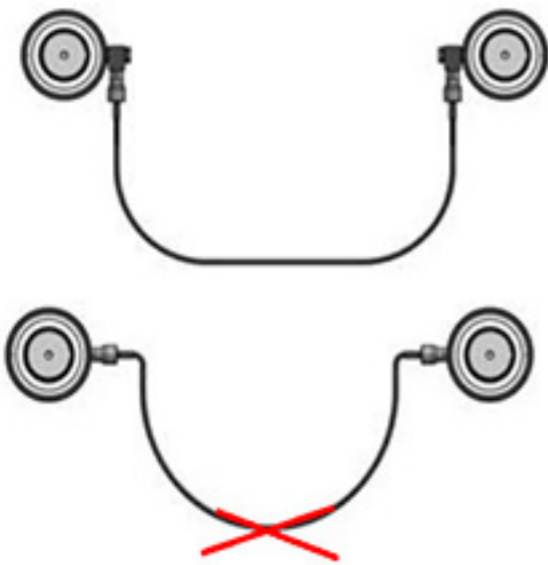
1. Silindirler arasında bir miktar boşluk kalacak şekilde hortum boyu seçiniz



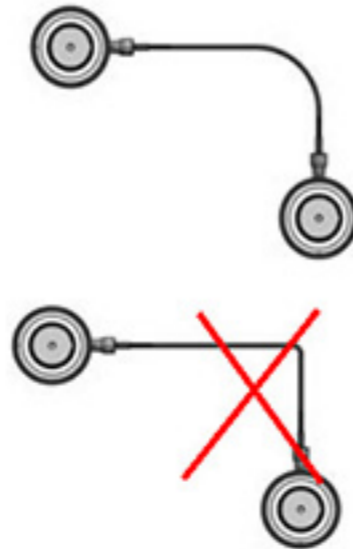
2. Hortumu burmayınız



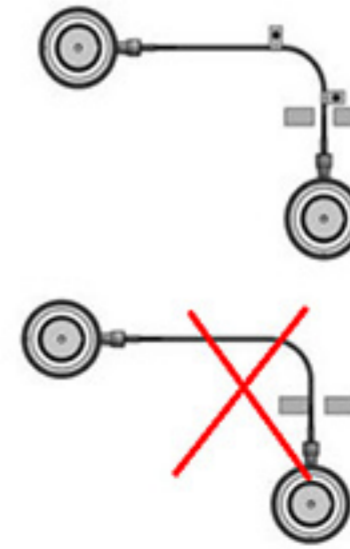
3. Hortumlarda istenmeyen kırılmaları engellemek için uygun bağlantı elemanları seçiniz.



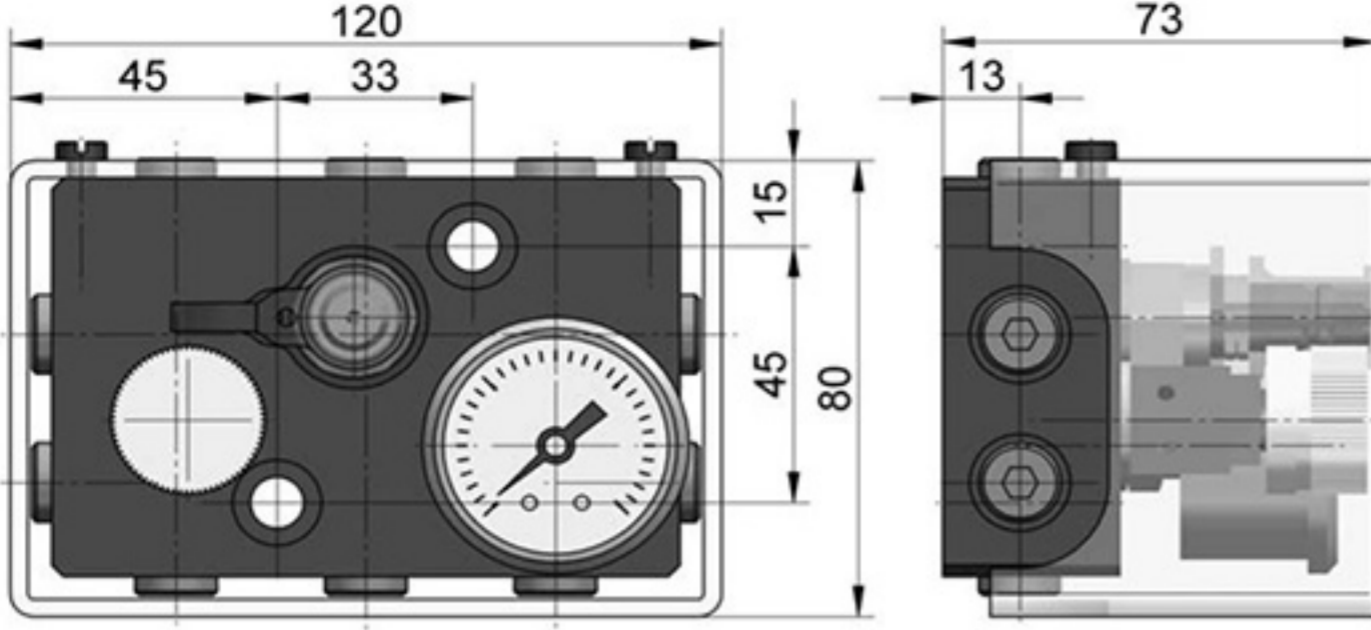
4. Her tip hortum için öngörülen yarıçaplara dikkat ediniz.



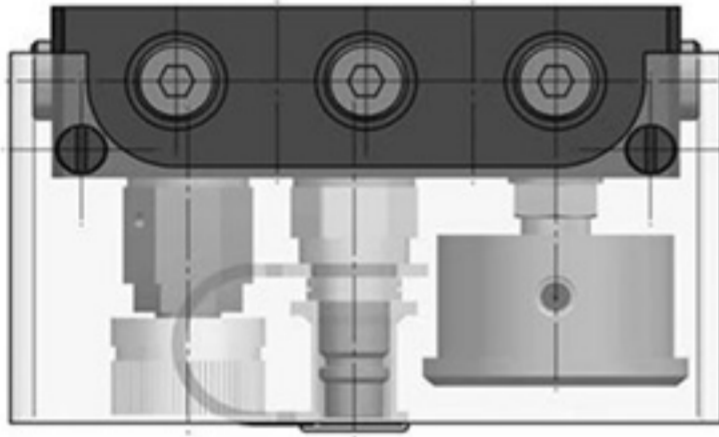
5. Hortumu kalıpta çalışma sırasında hasarlanmayacak şekilde sabitleyiniz.



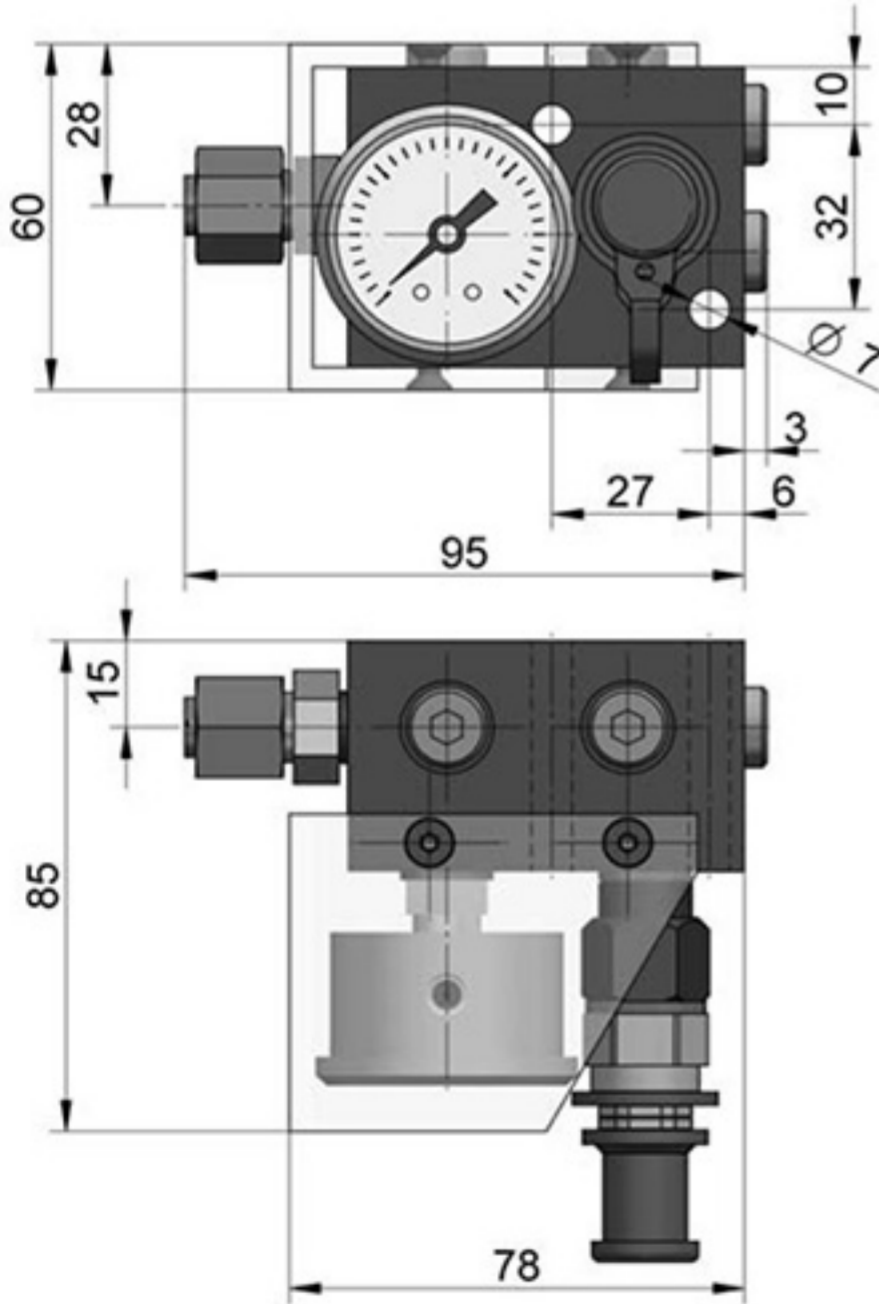
## KONTROL PANELLERİ



**PC 100 R**  
STANDART PANEL

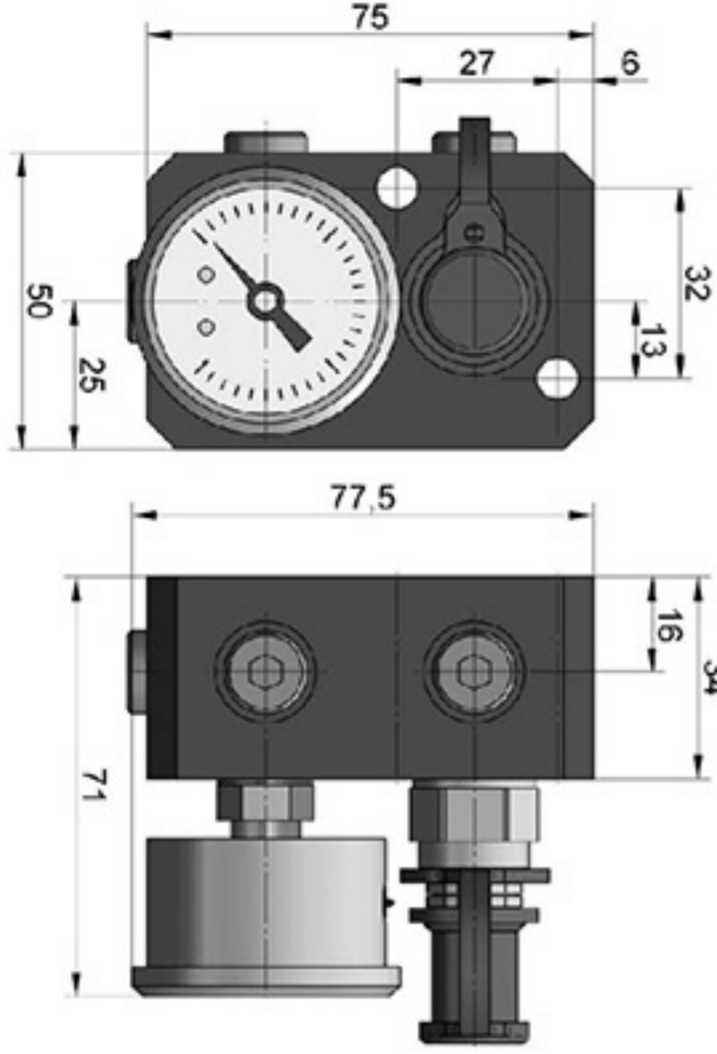


- Kalıbın dışından bir ya da daha fazla gazlı yay kontrolü.
- Pres operasyonu sırasında kolay bakım
- Tüm sistemde uniform dağılmış basınç
- Bağlı tüm gazlı yayların basıncını ayarlayabilme.
- Sistemi doldurma ve boşaltma imkanı.
- 10 adet G1/8" bağlantı imkanı
- 1 adet QCM 1/4 hızlı bağlantı doldurma portu
- 1 boşaltma valfi
- 1 basınç göstergesi



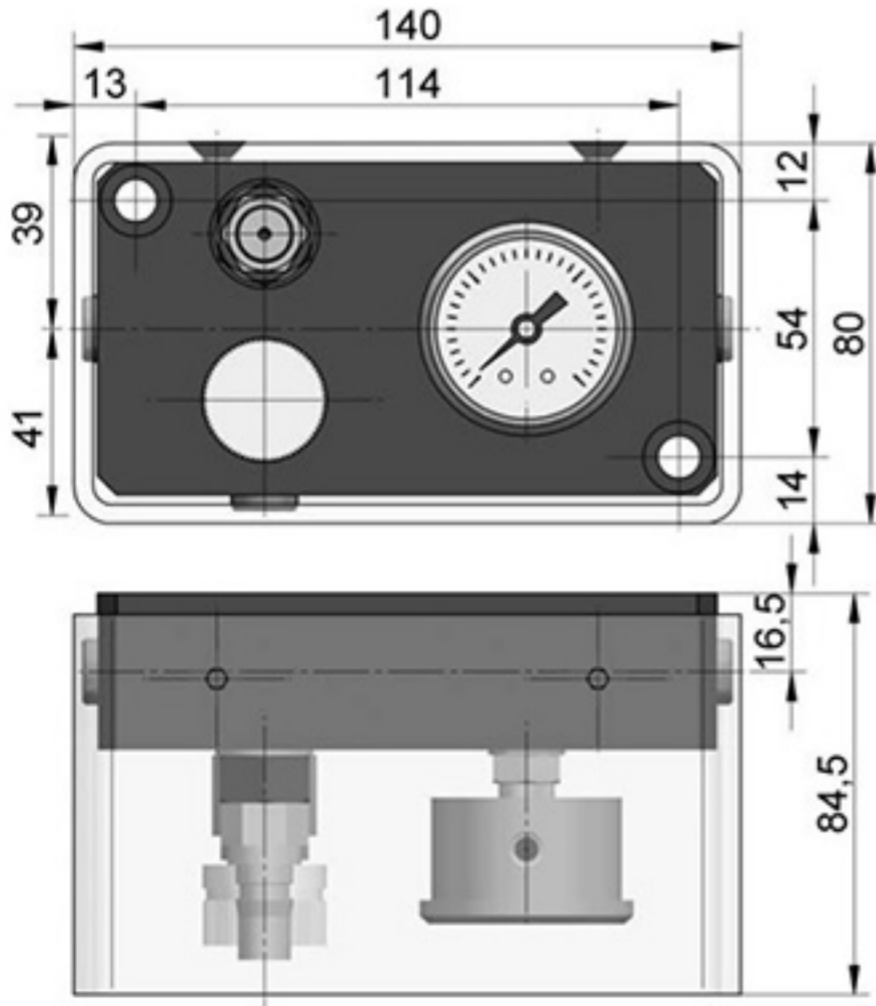
**PC 200 R**  
KÜÇÜK PANEL

- 4 bağlantısı ile optimum kontrol panelidir.
- Kalıbın dışından bir ya da daha fazla gazlı yay kontrolü.
- Pres operasyonu sırasında kolay bakım
- Tüm sistemde uniform dağılmış basınç
- Bağlı tüm gazlı yayların basıncını ayarlayabilme.
- Sistemi doldurma ve boşaltma imkanı.
- 4 adet G1/8" bağlantı imkanı
- 1 adet QCM 1/4 hızlı bağlantı doldurma portu
- 1 boşaltma valfi
- 1 basınç göstergesi



## RPC 2 MINI PANEL

- En küçük kontrol panelidir.
- Kalıbın dışından bir ya da daha fazla gazlı yay kontrolü.
- Pres operasyonu sırasında kolay bakım
- Tüm sistemde uniform dağılmış basınç
- Bağlı tüm gazlı yayların basıncını ayarlayabilme.
- Sistemi doldurma ve boşaltma imkanı.
- 3 adet G1/8" bağlantı imkanı
- 1 adet QCM 1/4 hızlı bağlantı doldurma portu
- 1 basınç göstergesi



## RPC 3 FIAT STANDARDI

- FIAT standardına uygundur.
- Kalıbın dışından bir ya da daha fazla gazlı yay kontrolü.
- Pres operasyonu sırasında kolay bakım
- Tüm sistemde uniform dağılmış basınç
- Bağlı tüm gazlı yayların basıncını ayarlayabilme.
- Sistemi doldurma ve boşaltma imkanı.
- 3 adet G1/8" bağlantı imkanı
- 1 adet QCM 1/4 hızlı bağlantı doldurma portu
- 1 basınç göstergesi

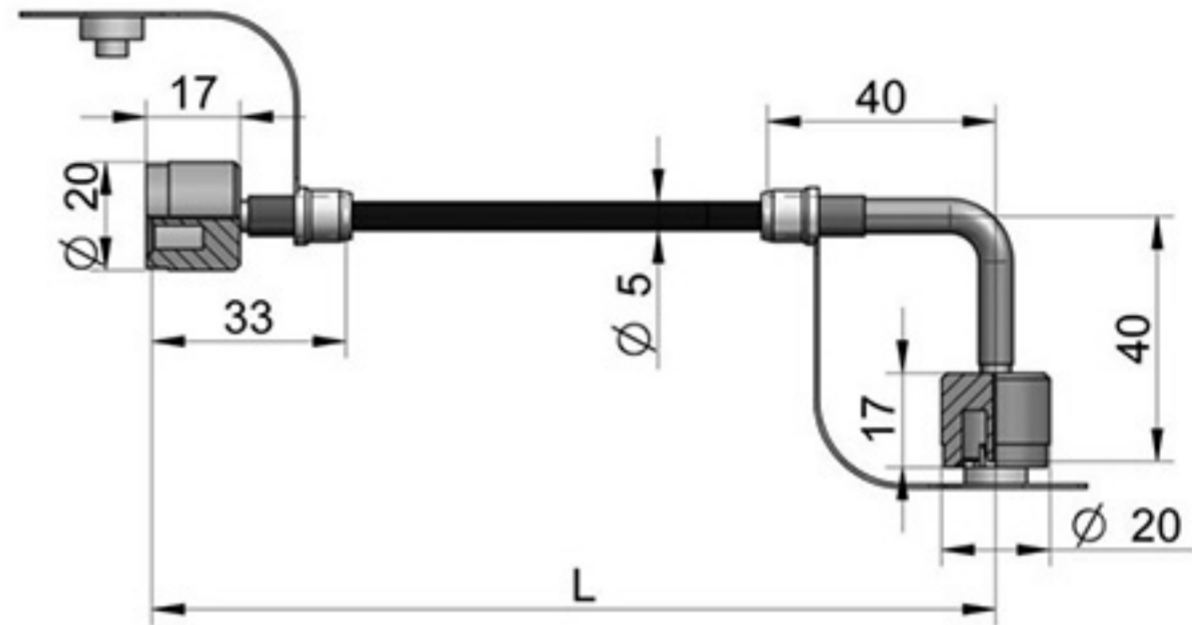
RENK	MAKSİMUM BASINÇ	
	Mpa	Bar
MAVİ	3,75	37,5
YEŞİL	7,5	75
KIRMIZI	10,5	105
SARI	15	150

# 1/8" HORTUMLAR

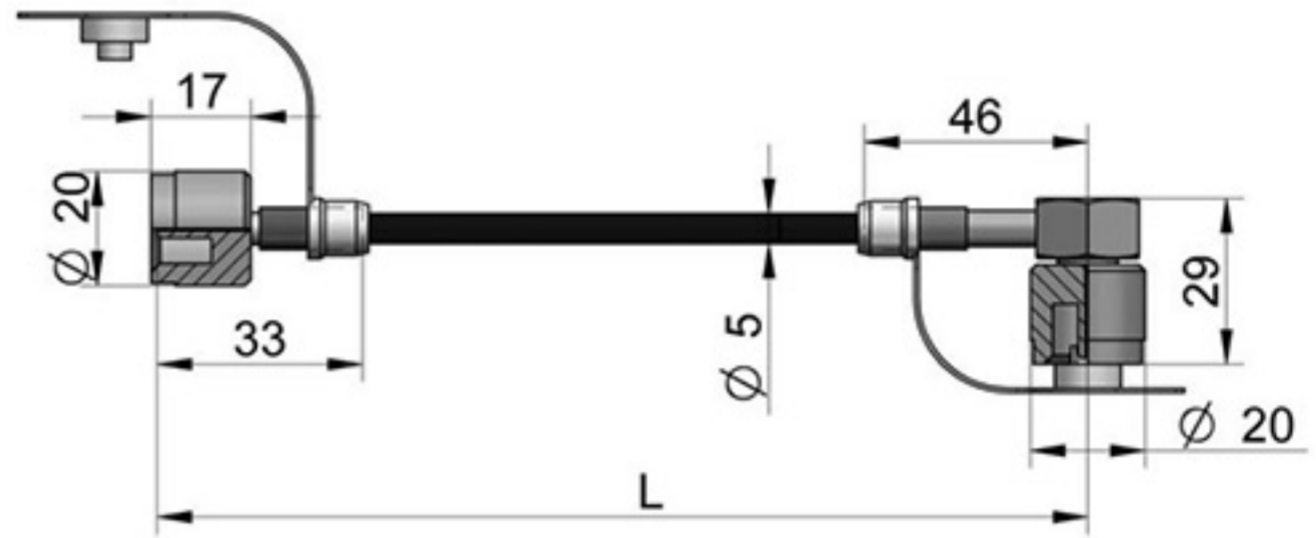
SGS



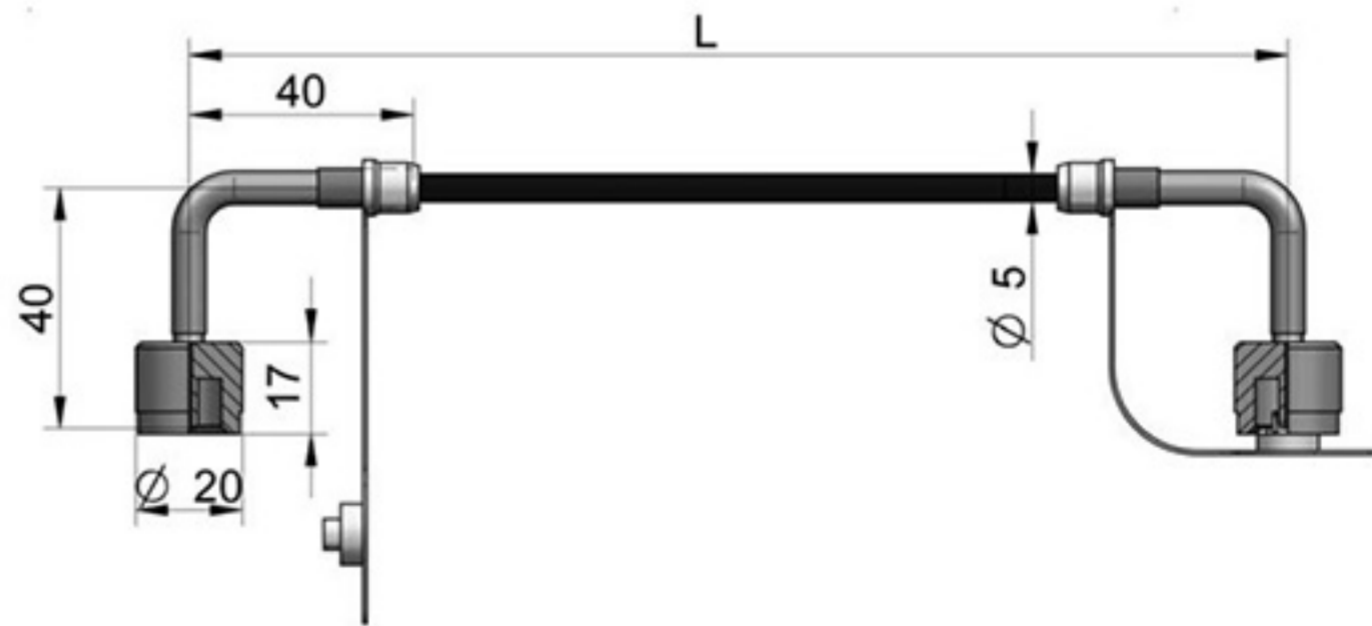
RGS



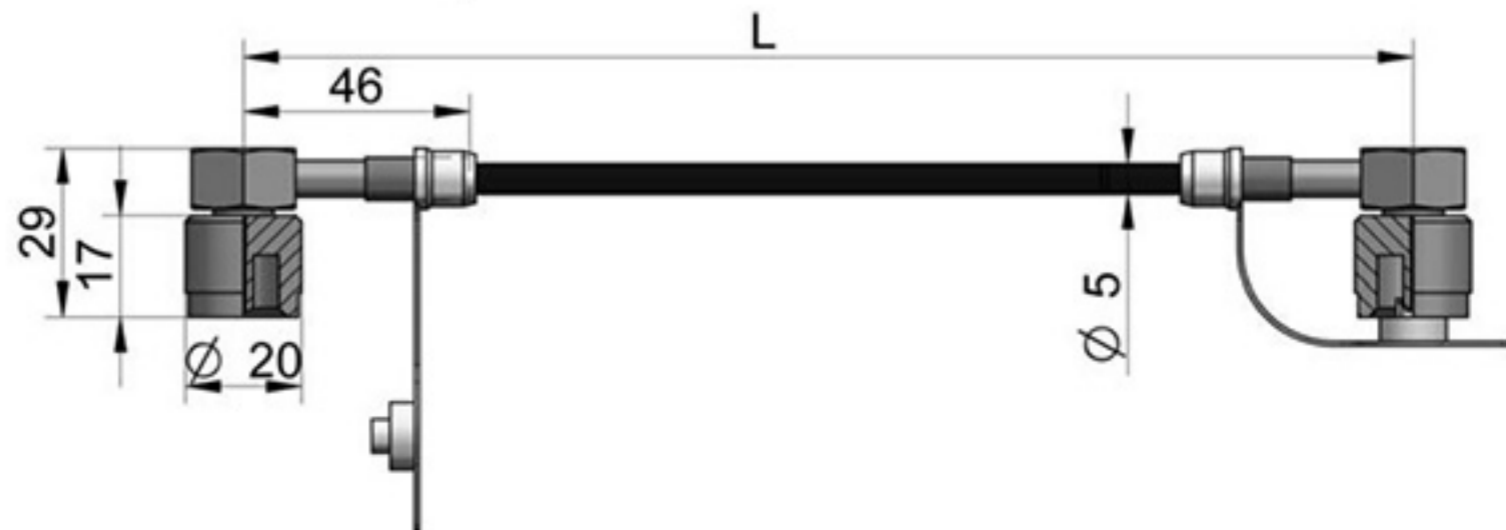
PGS



RGR



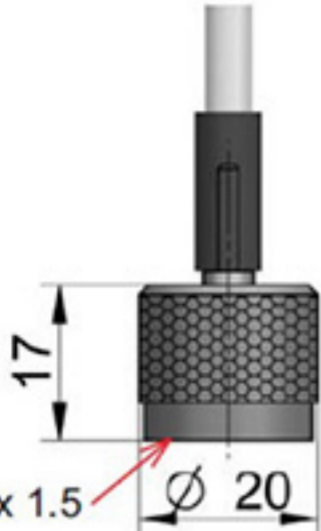
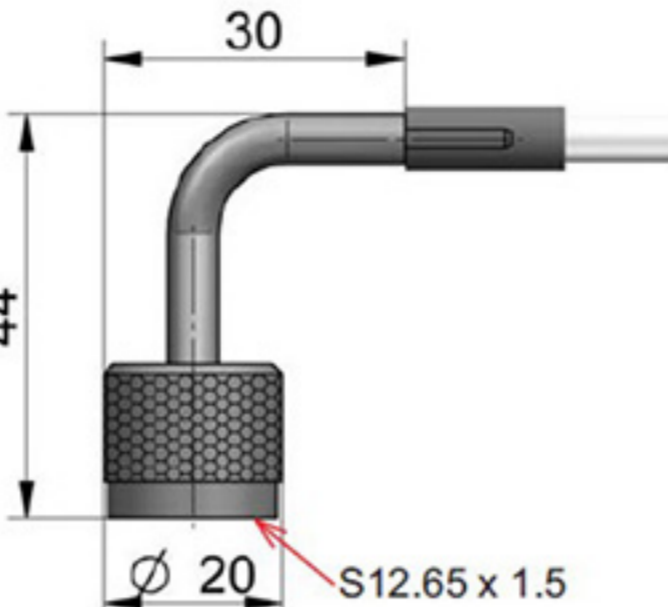
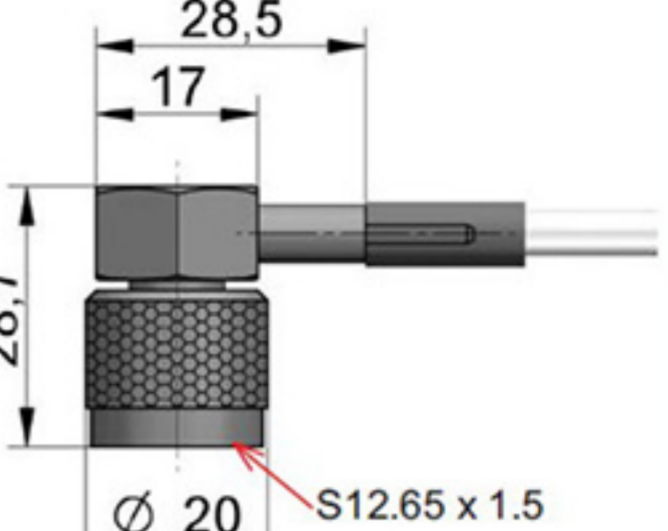

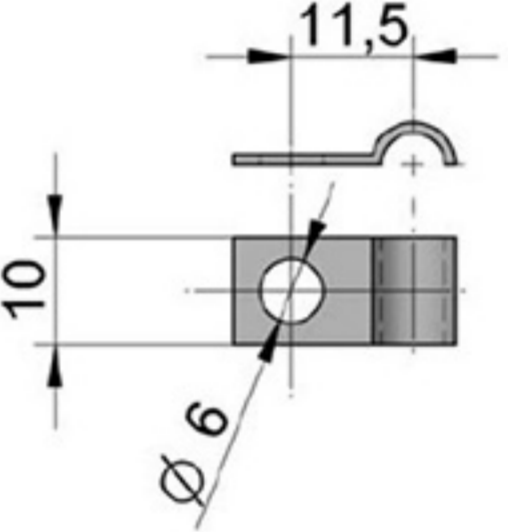
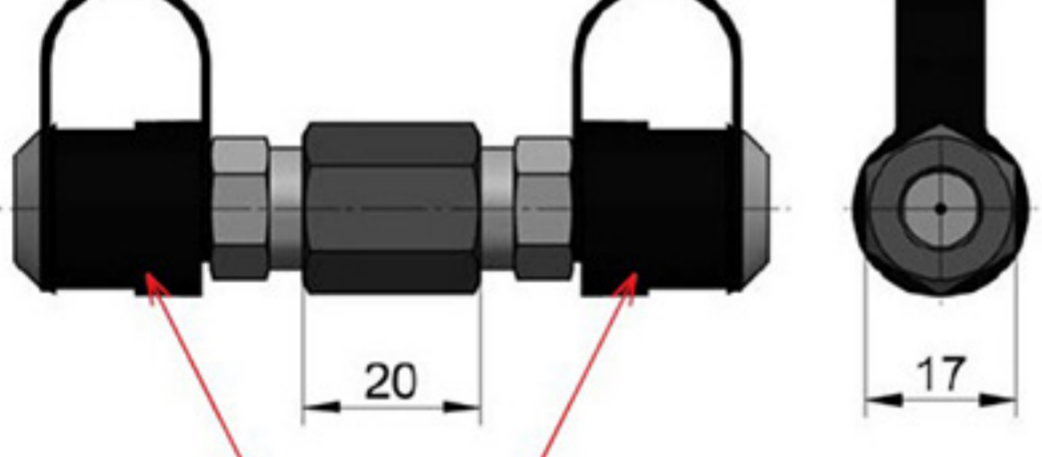
PGP



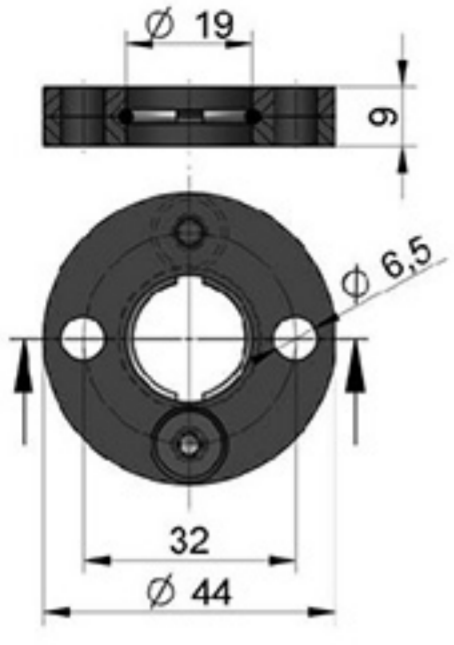
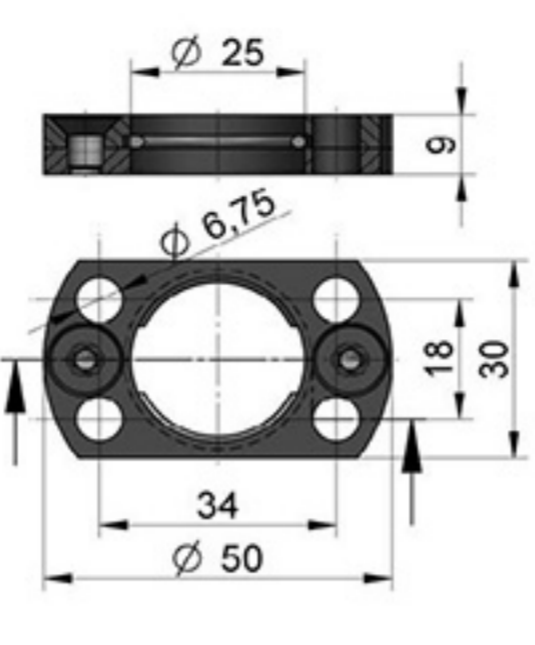
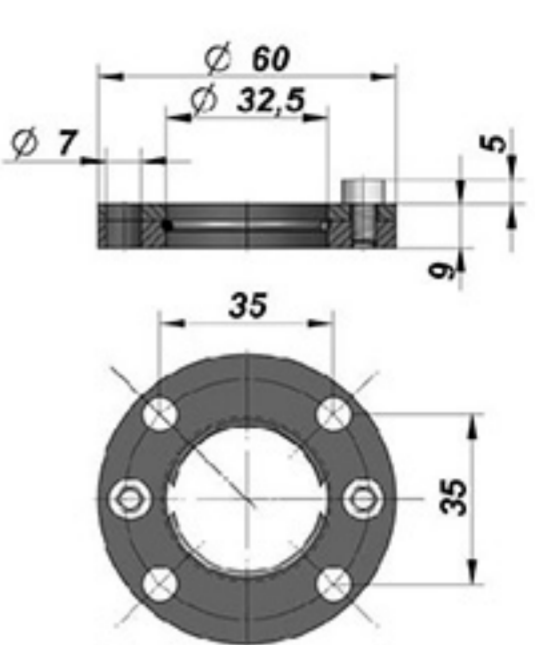
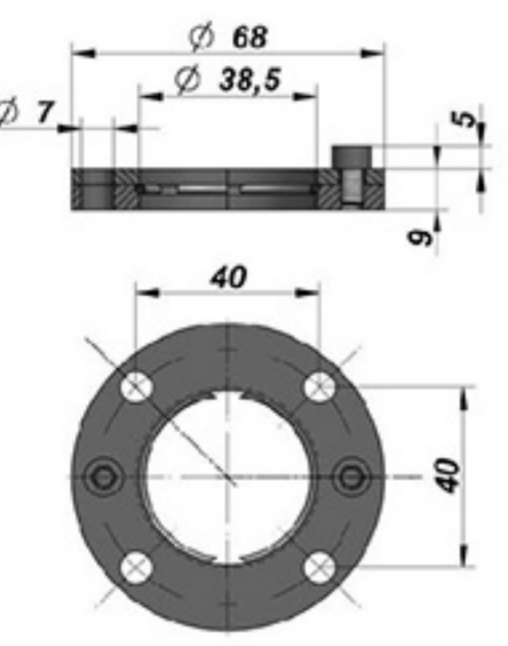
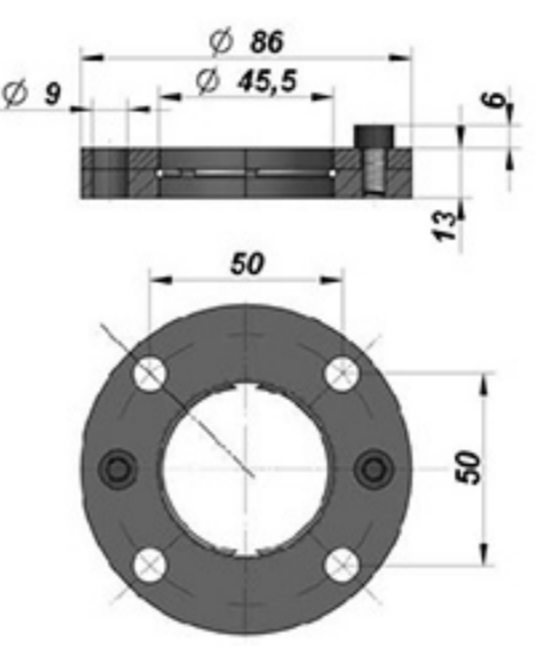
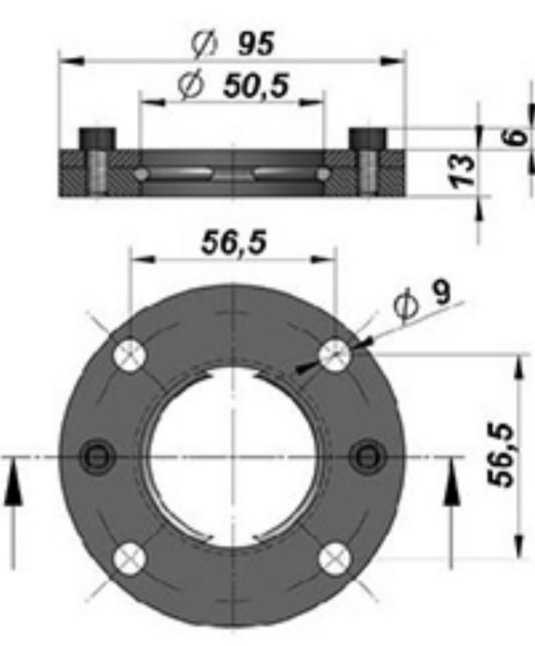
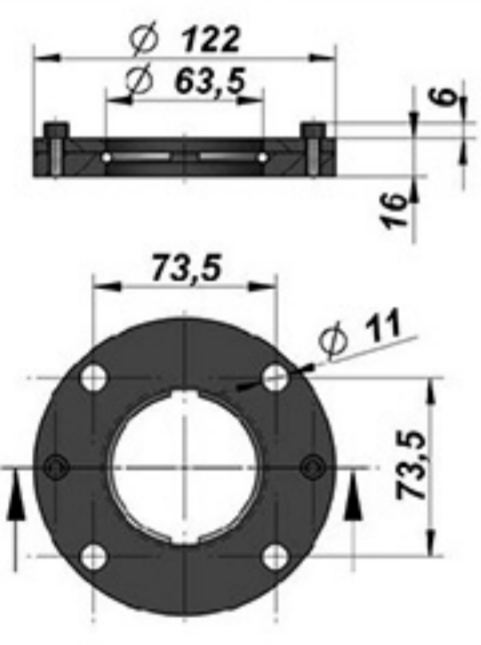
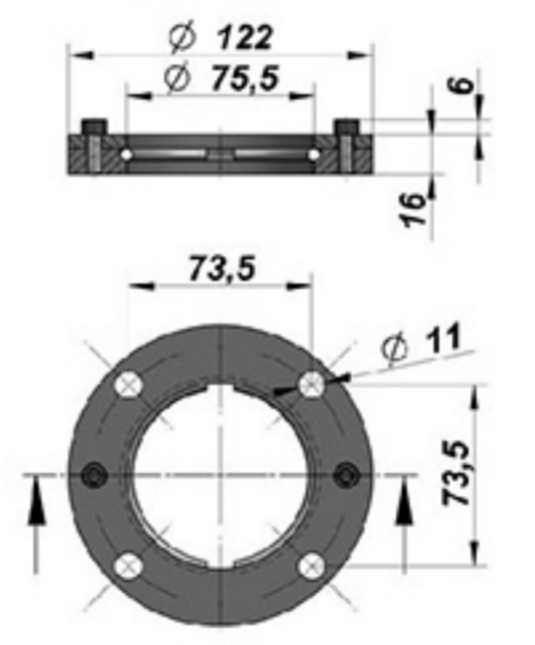
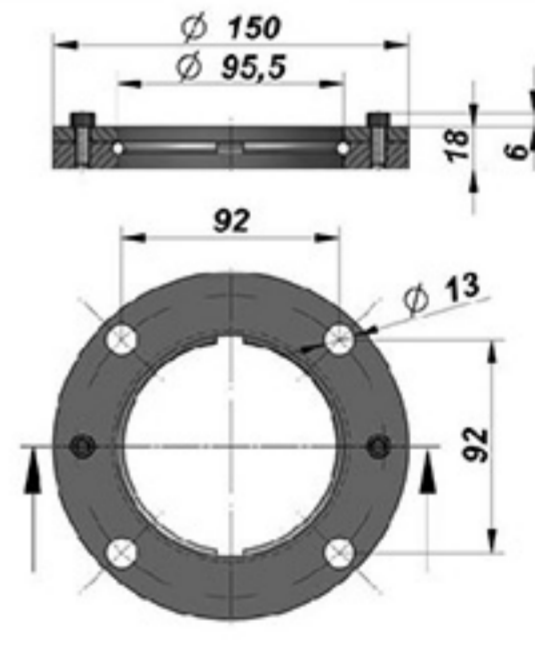
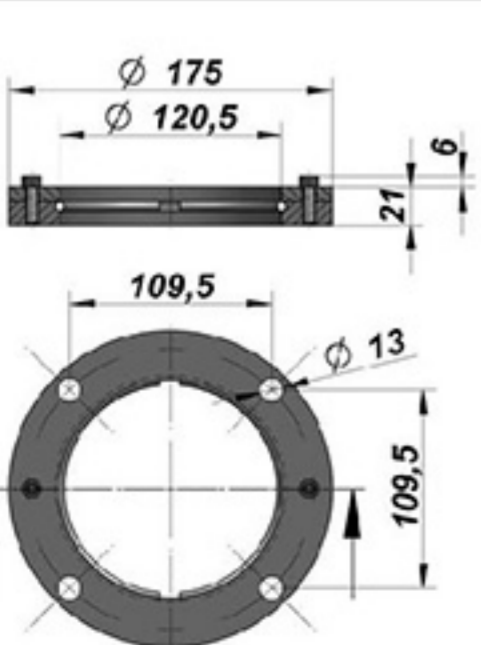
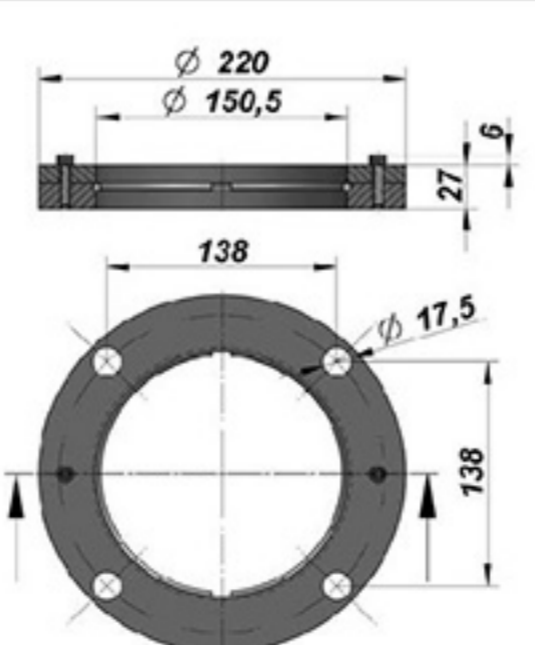
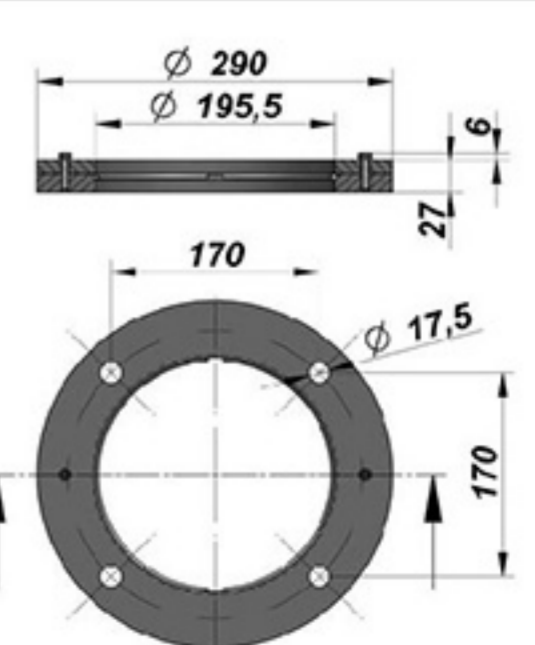
## 1/8" BAĞLANTI ELEMANLARI

<p><b>SKK 12R 1/8</b></p> <p>S12.65 x 1.5 22 14 G1/8</p> <p>ÇEKVALFLİ</p>	<p><b>SKK L</b></p> <p>S12.65 x 1.5 22 14 G1/8</p> <p>ÇEKVALFSİZ</p>	<p><b>SKK 12R 1/4</b></p> <p>S12.65 x 1.5 25 19 G1/4</p> <p>ÇEKVALFLİ</p>
<p><b>CF 01 24</b></p> <p>25 18 24 6,5 9,5 G1/8</p>	<p><b>CF 01 38</b></p> <p>25 18 38 6,5 9,5 G1/8</p>	<p><b>CF 01 48</b></p> <p>25 18 48 6,5 9,5 G1/8</p>
<p><b>CF 02 26</b></p> <p>20 20 26 30 9,5 G1/8</p>	<p><b>CF 02 40</b></p> <p>20 20 40 30 9,5 G1/8</p>	<p><b>CF 02 50</b></p> <p>20 20 50 30 9,5 G1/8</p>
<p><b>CF 04 26</b></p> <p>25 20 26 30 63 6,5 9,5 G1/8</p>	<p><b>CF 04 40</b></p> <p>25 20 40 30 63 6,5 9,5 G1/8</p>	<p><b>CF 04 50</b></p> <p>25 20 50 30 63 6,5 9,5 G1/8</p>

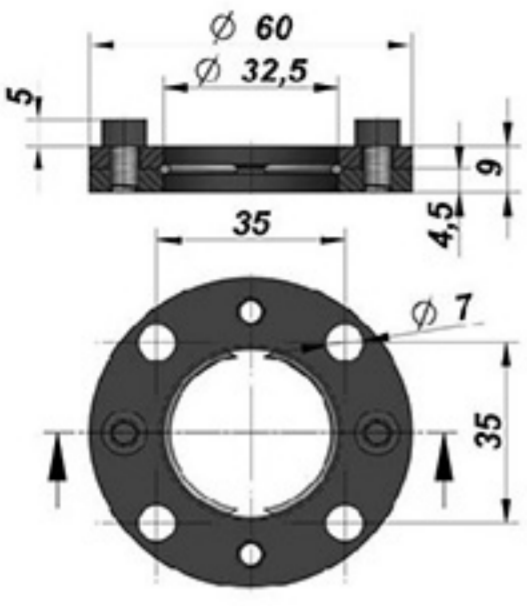
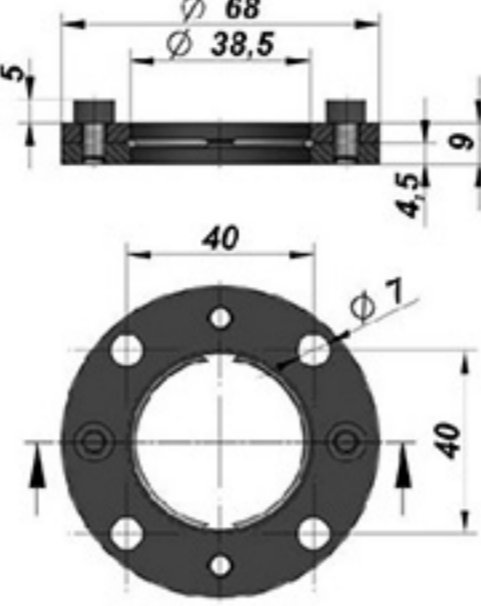
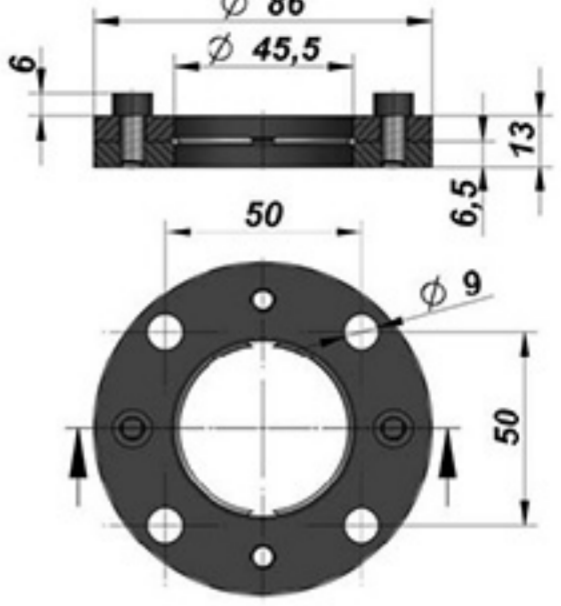
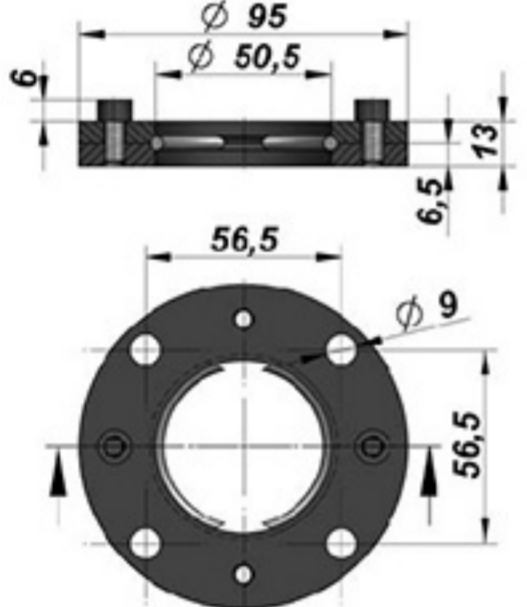
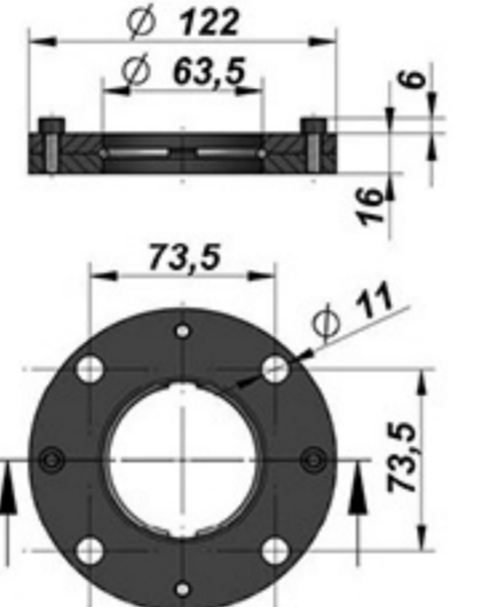
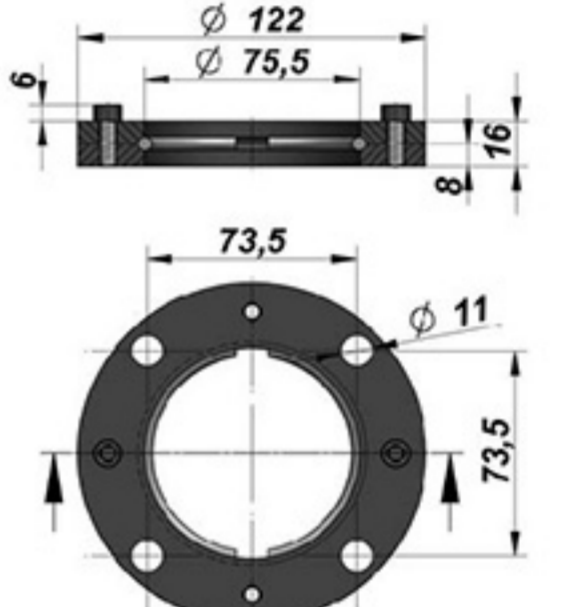
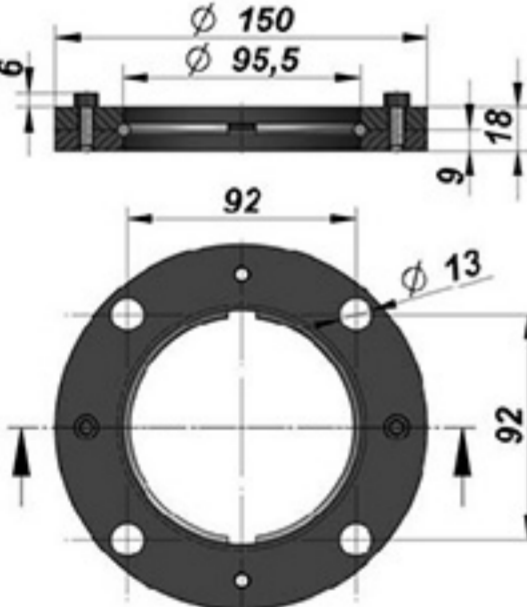
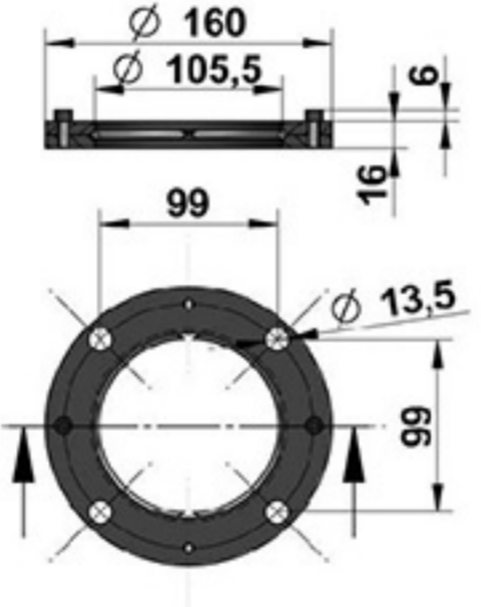
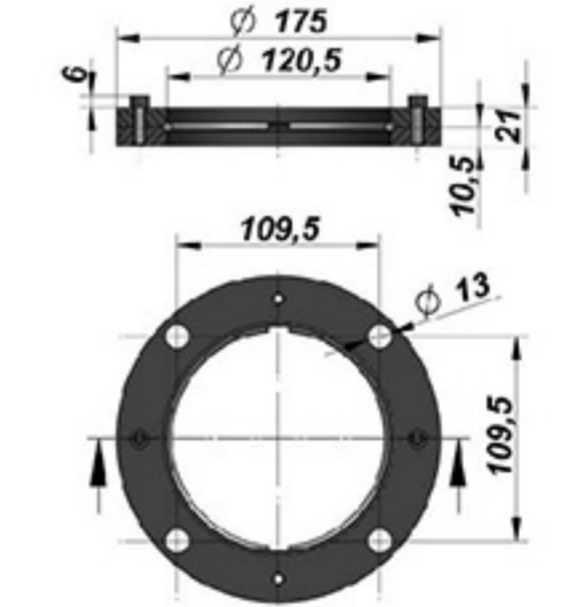
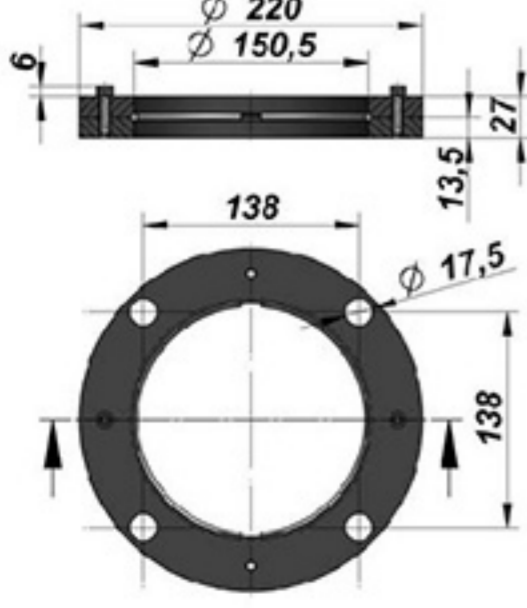
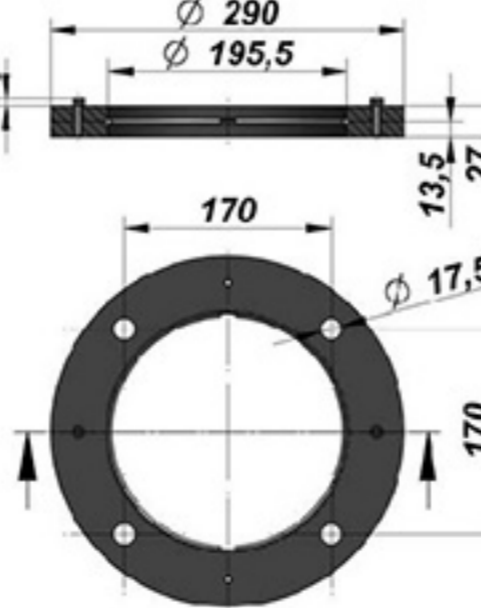
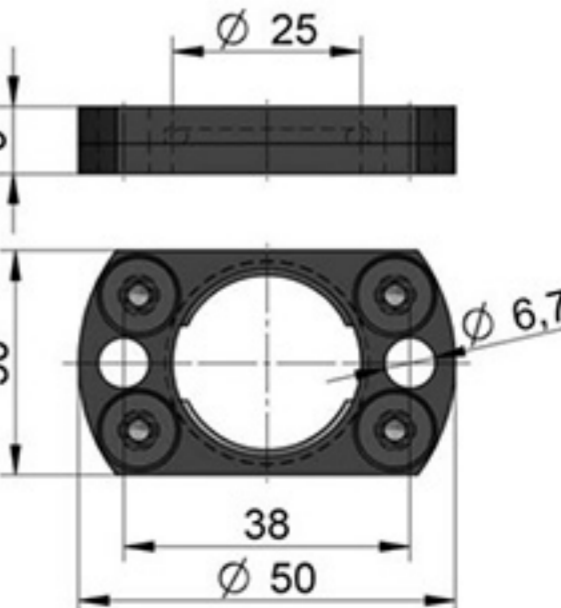


<p><b>GST</b></p>  <p>17 S12.65 x 1.5 Ø 20</p>	<p><b>GRT</b></p>  <p>30 44 Ø 20 S12.65 x 1.5</p>	<p><b>GPT</b></p>  <p>28,5 17 28,7 Ø 20 S12.65 x 1.5</p>
<p><b>GF 02</b></p>  <p>Ø 5 Ø 2</p> <p>Minimum yarıçap 20mm Maksimum basınç 350bar</p>	<p><b>RBF 6</b></p>  <p>11,5 10 Ø 6</p>	
<p><b>CM 1/8</b></p>  <p>20 17 S12.65 x 1.5</p>		

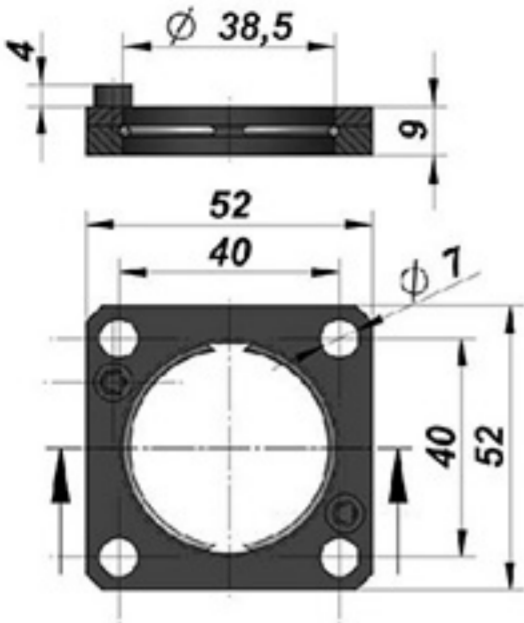
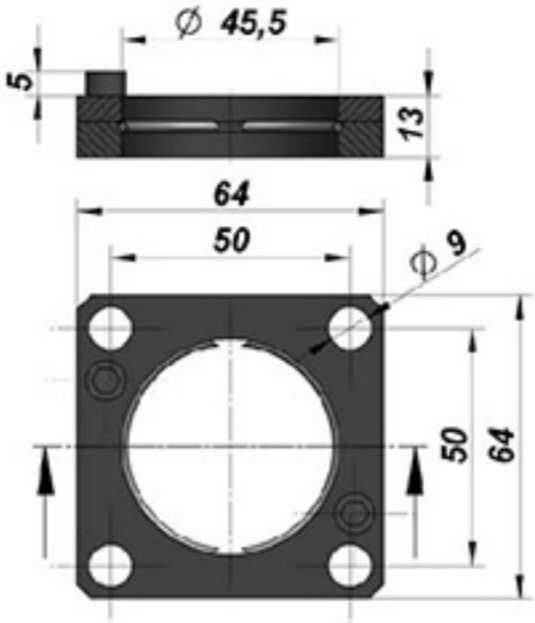
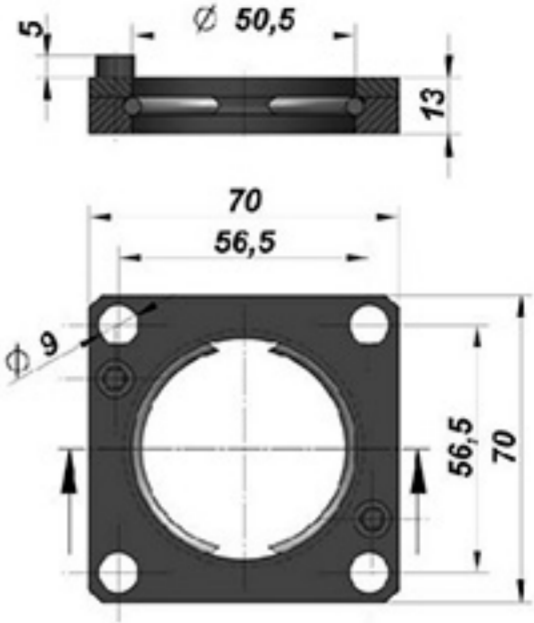
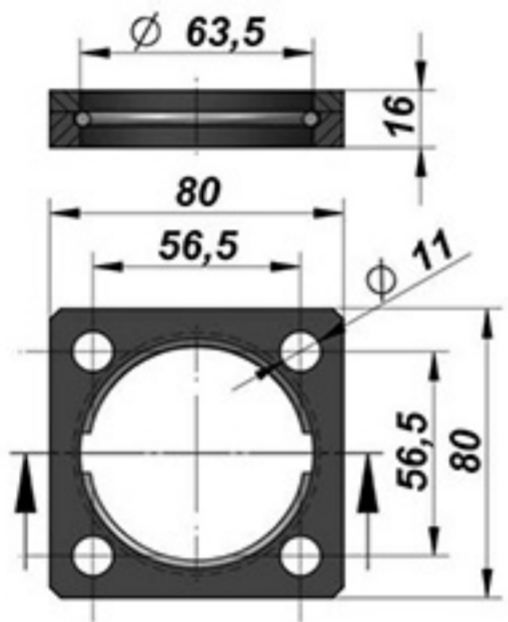
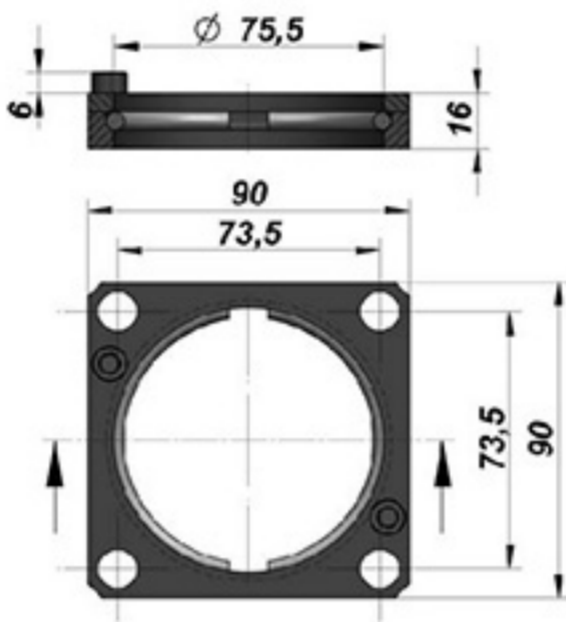
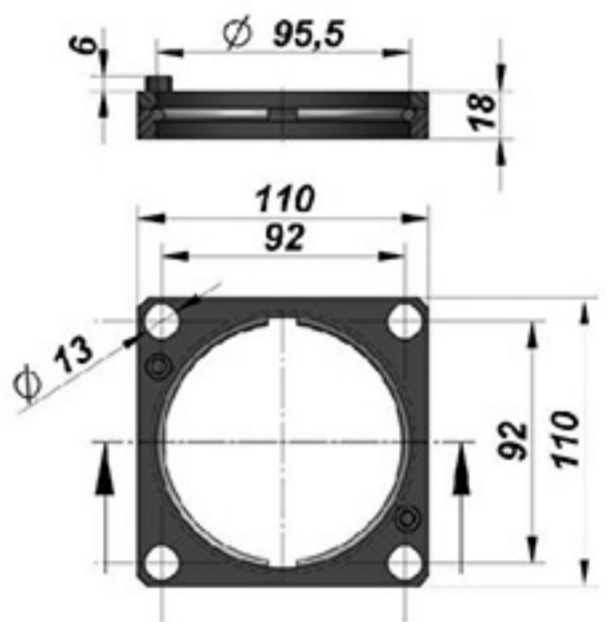
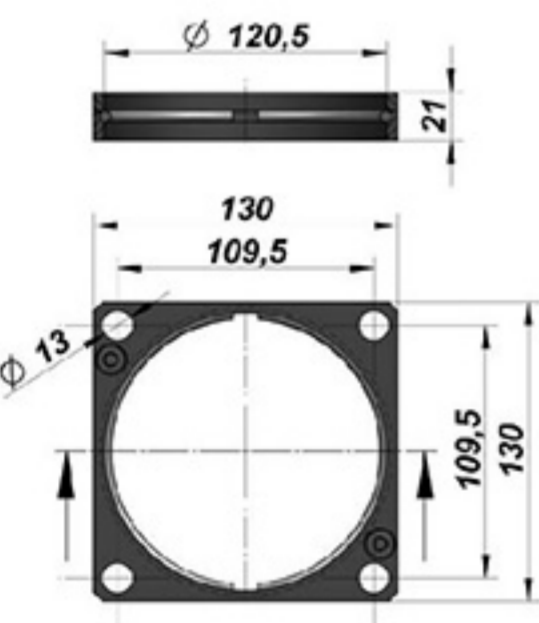
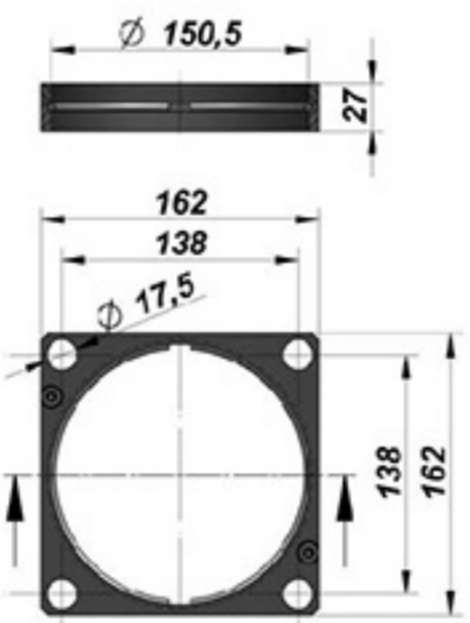
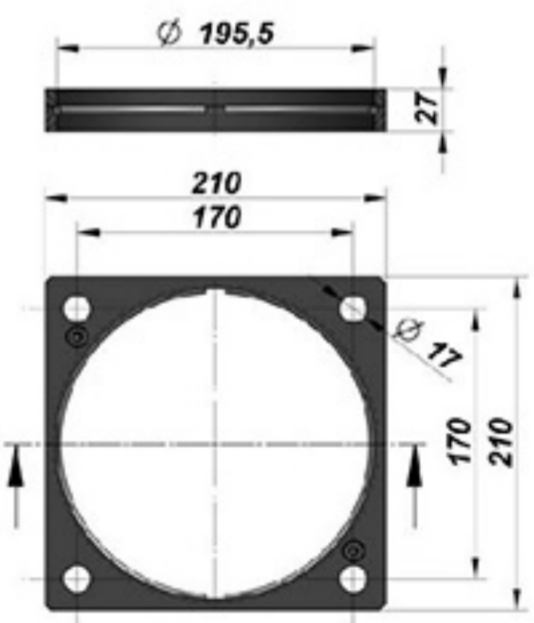
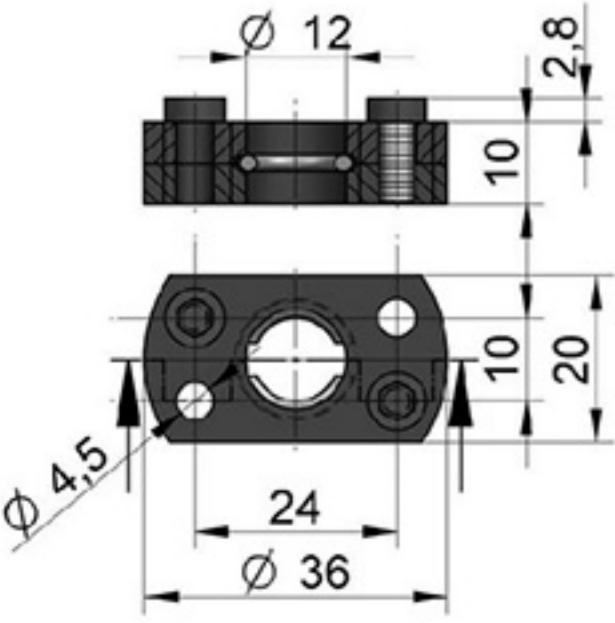
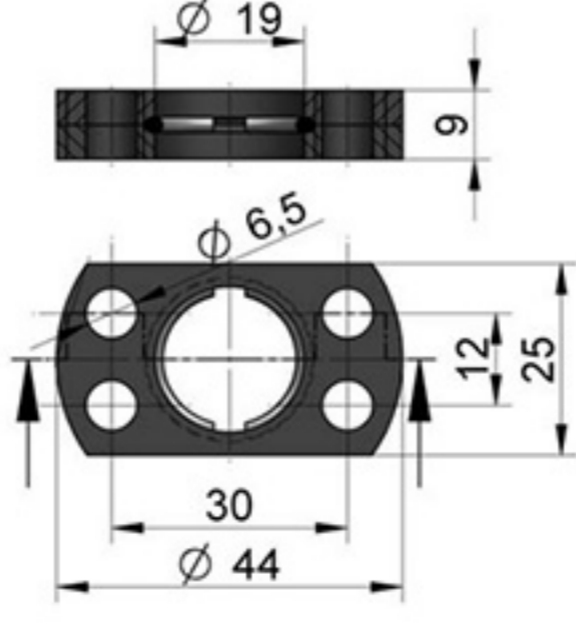
## A04 SERİSİ FLANŞLAR

<p><b>A04 - 019</b></p> 	<p><b>A04 - 025</b></p> 	<p><b>A04 - 032</b></p> 
<p><b>A04 - 038</b></p> 	<p><b>A04 - 045</b></p> 	<p><b>A04 - 050</b></p> 
<p><b>A04 - 063</b></p> 	<p><b>A04 - 075</b></p> 	<p><b>A04 - 095</b></p> 
<p><b>A04 - 120</b></p> 	<p><b>A04 - 150</b></p> 	<p><b>A04 - 195</b></p> 

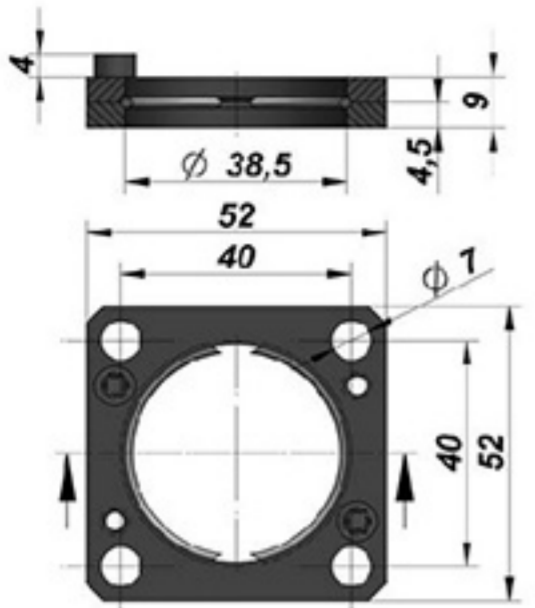
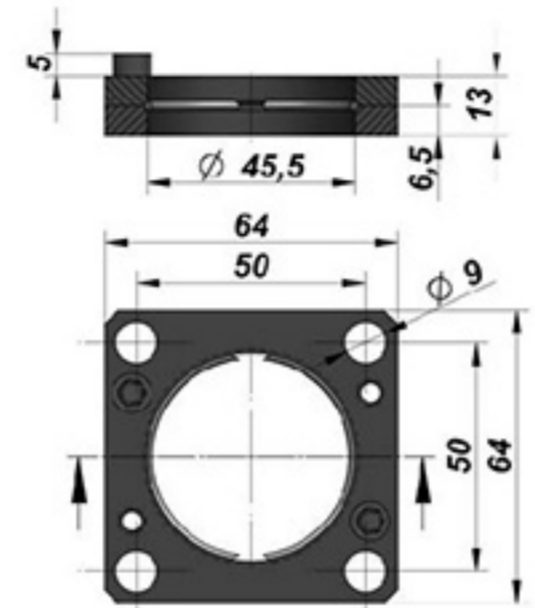
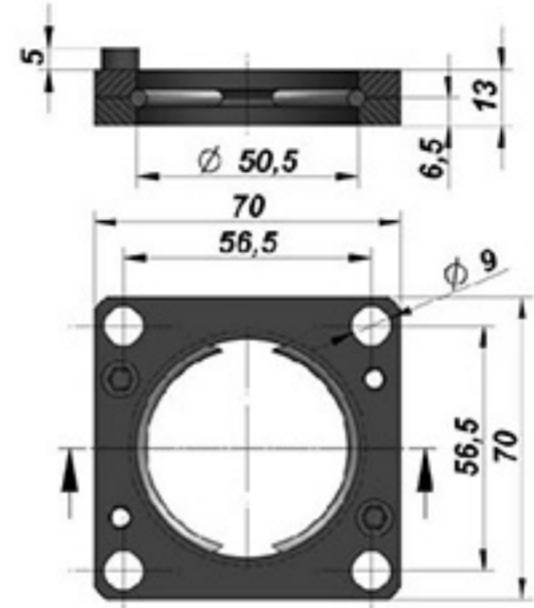
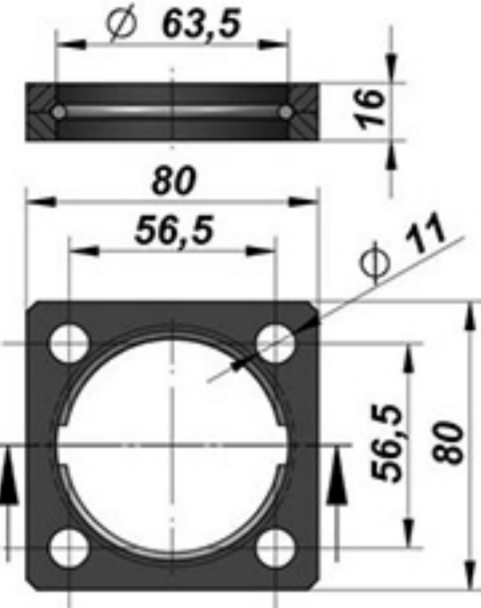
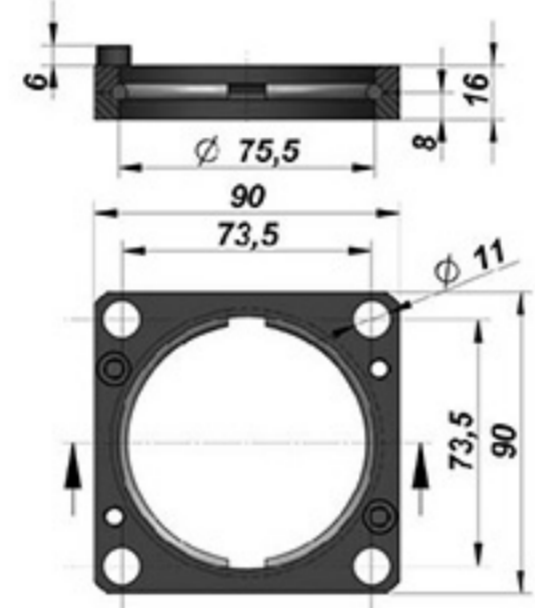
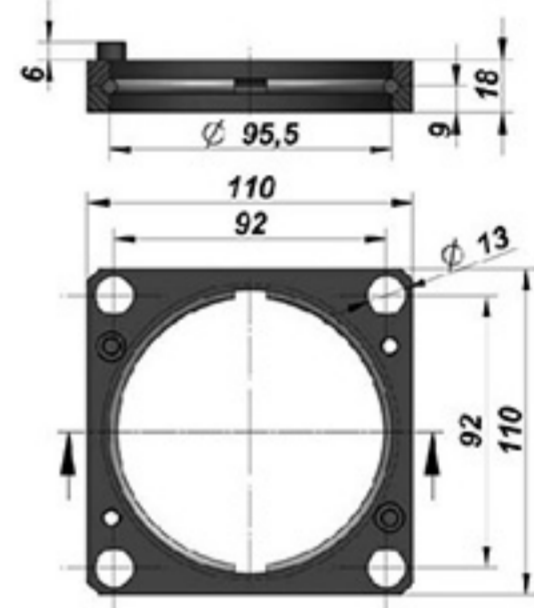
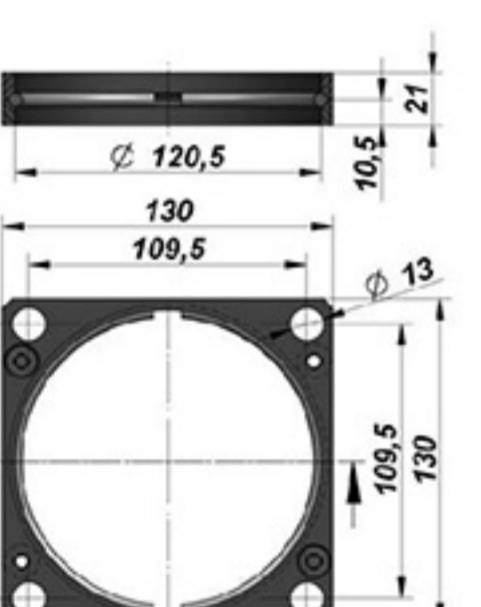
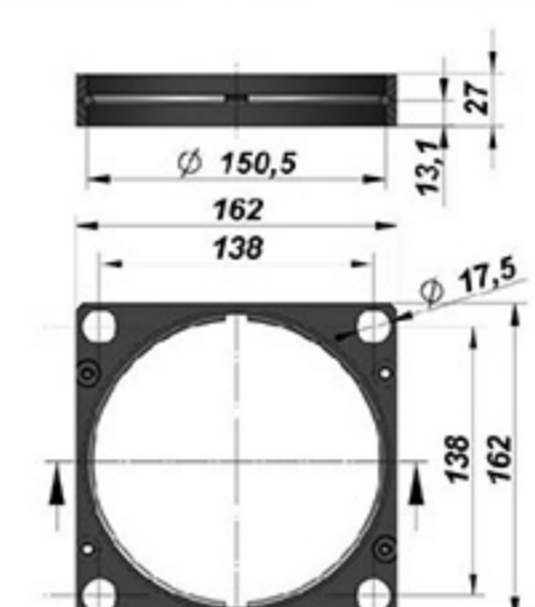
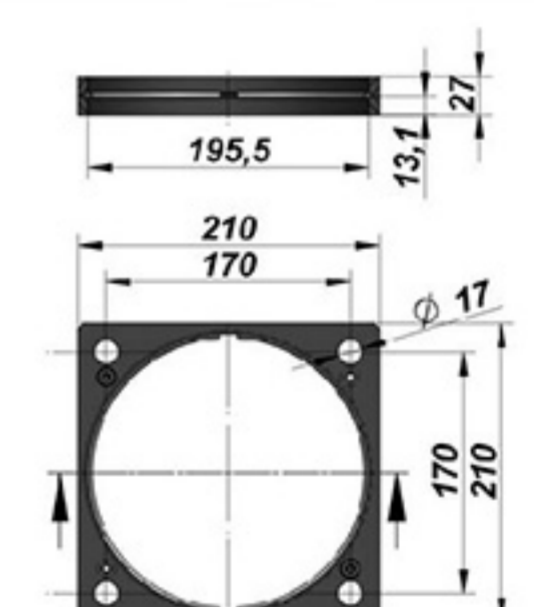
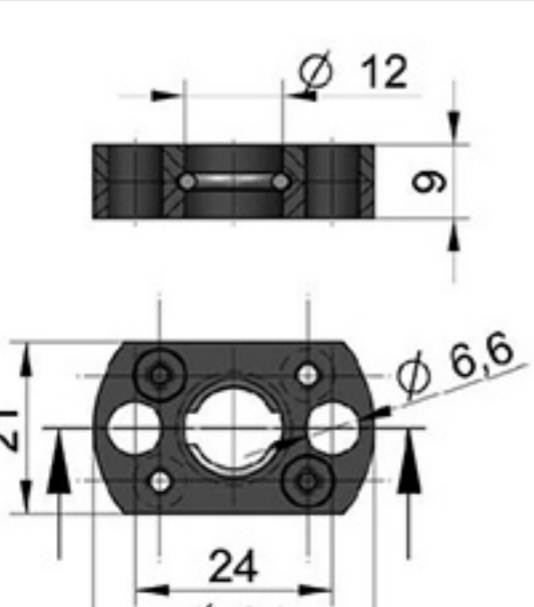
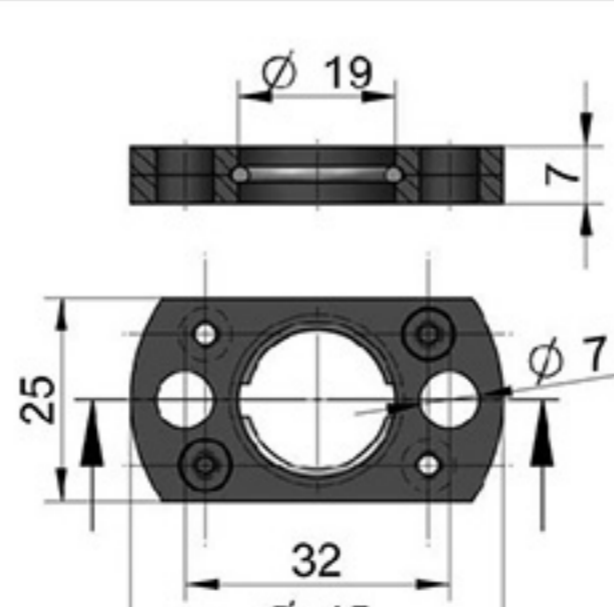
## A09 VE A14 SERİSİ FLANŞLAR

<p><b>A14 - 032</b></p> 	<p><b>A14 - 038</b></p> 	<p><b>A14 - 045</b></p> 
<p><b>A14 - 050</b></p> 	<p><b>A14 - 063</b></p> 	<p><b>A14 - 075</b></p> 
<p><b>A14 - 095</b></p> 	<p><b>A14 - 105</b></p> 	<p><b>A14 - 120</b></p> 
<p><b>A14 - 150</b></p> 	<p><b>A14 - 195</b></p> 	<p><b>A09 - 025</b></p> 

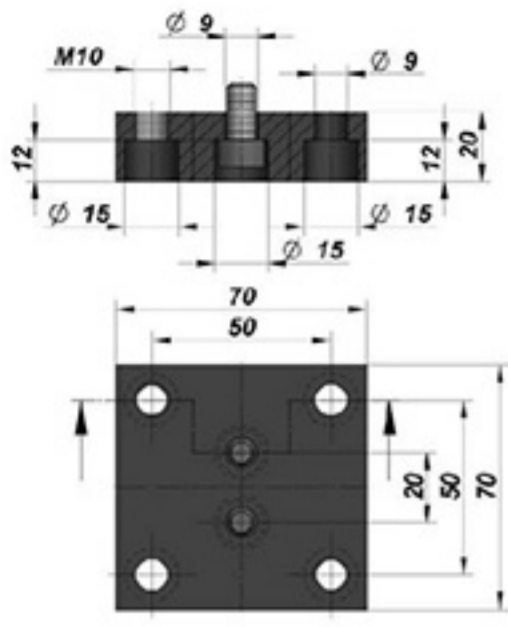
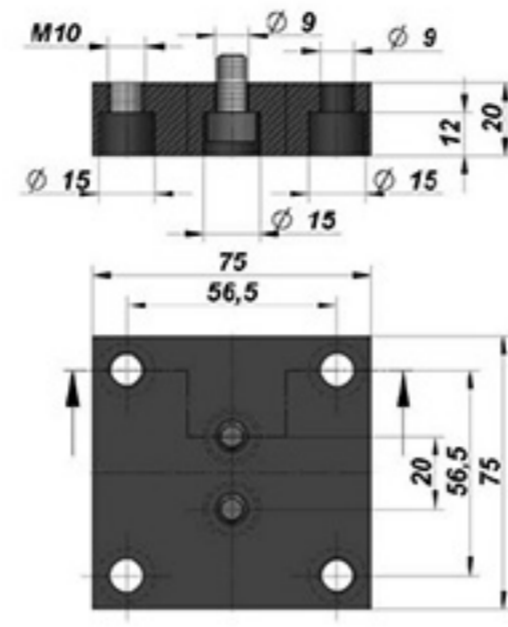
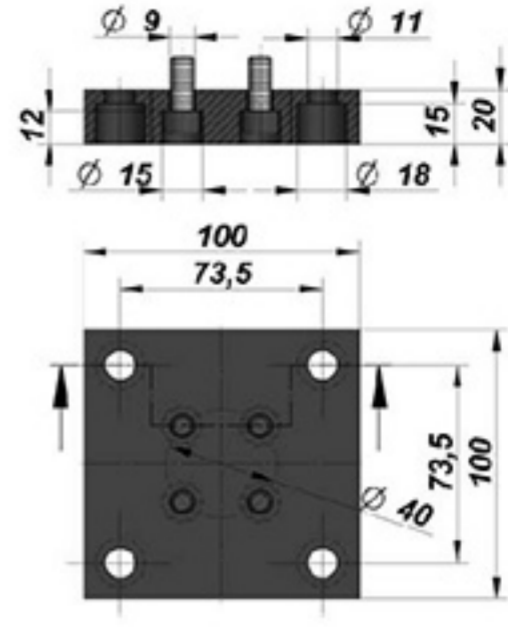
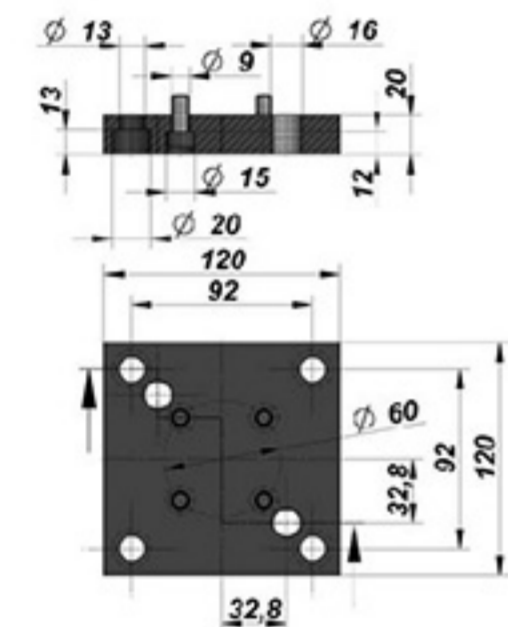
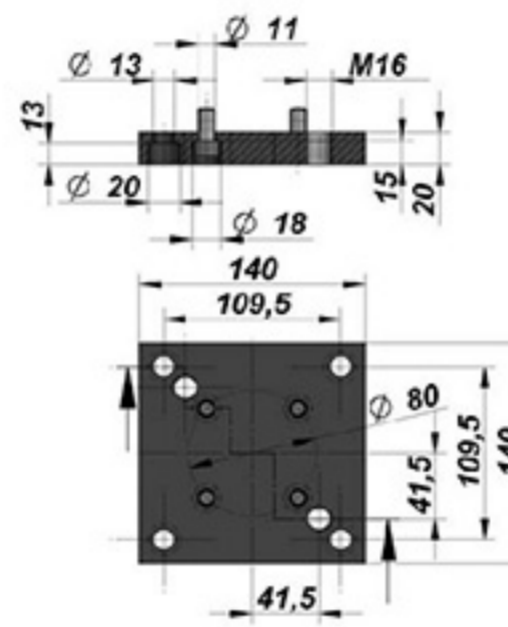
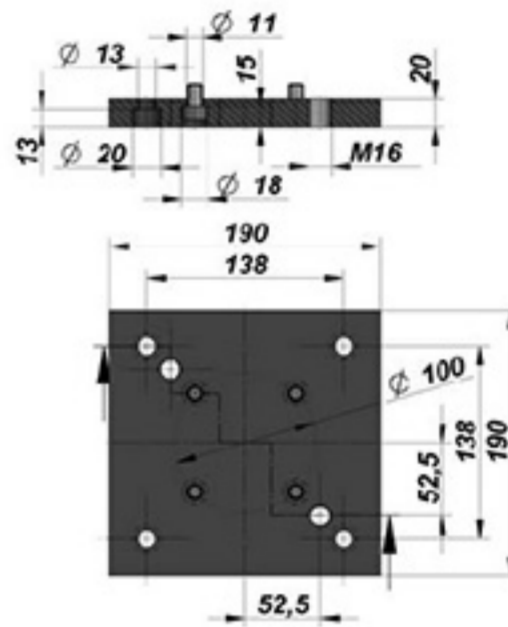
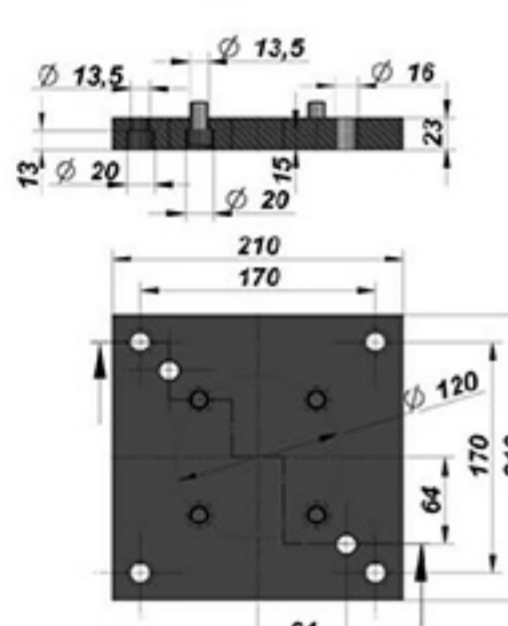
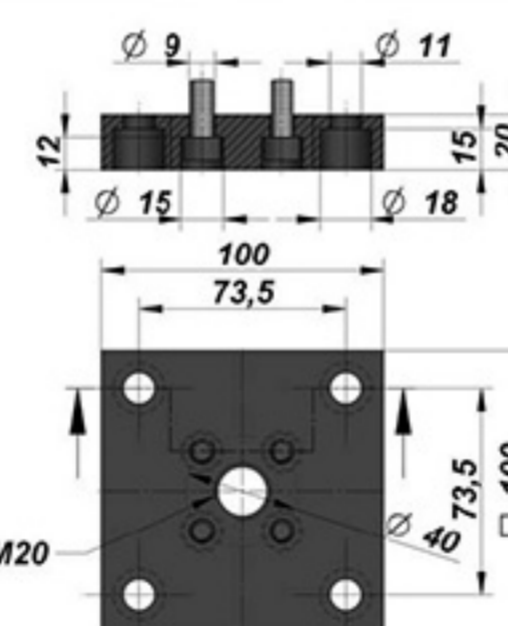
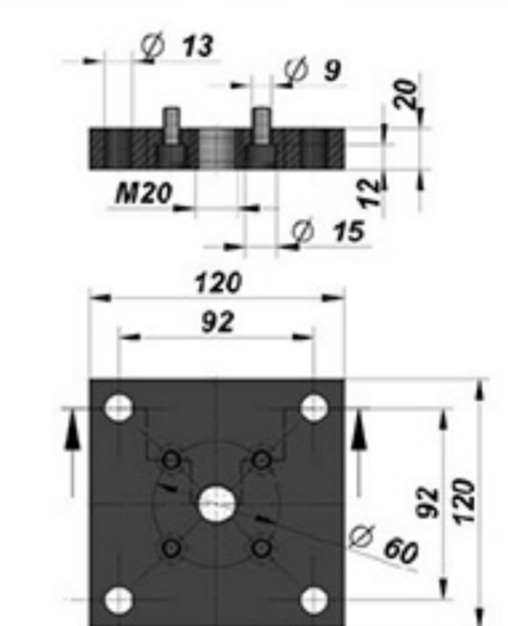
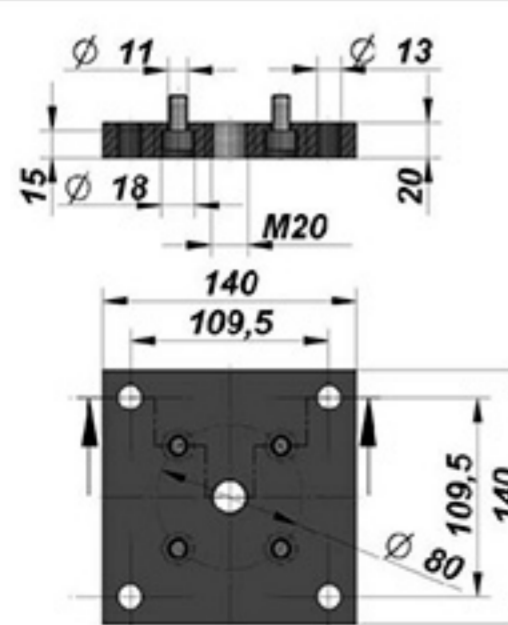
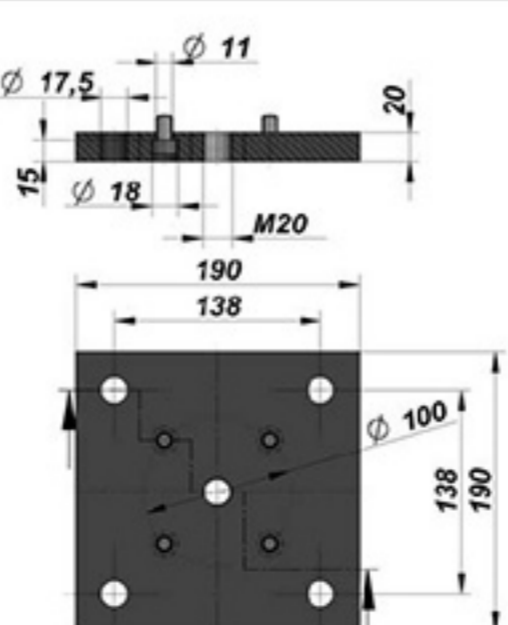
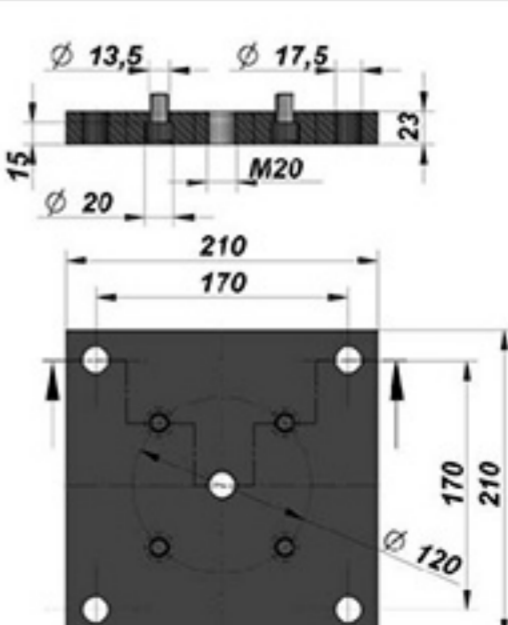
## A24 VE A44 SERİSİ FLANŞLAR

<p><b>A24 - 038</b></p> 	<p><b>A24 - 045</b></p> 	<p><b>A24 - 050</b></p> 
<p><b>A24 - 063</b></p> 	<p><b>A24 - 075</b></p> 	<p><b>A24 - 095</b></p> 
<p><b>A24 - 120</b></p> 	<p><b>A24 - 150</b></p> 	<p><b>A24 - 195</b></p> 
<p><b>A44 - 012</b></p> 	<p><b>A44 - 019</b></p> 	

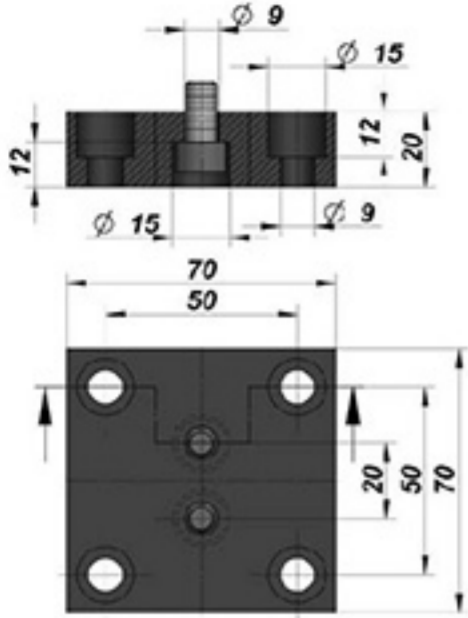
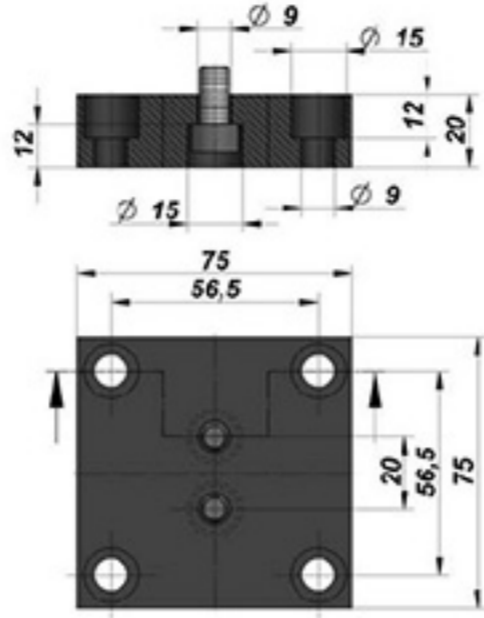
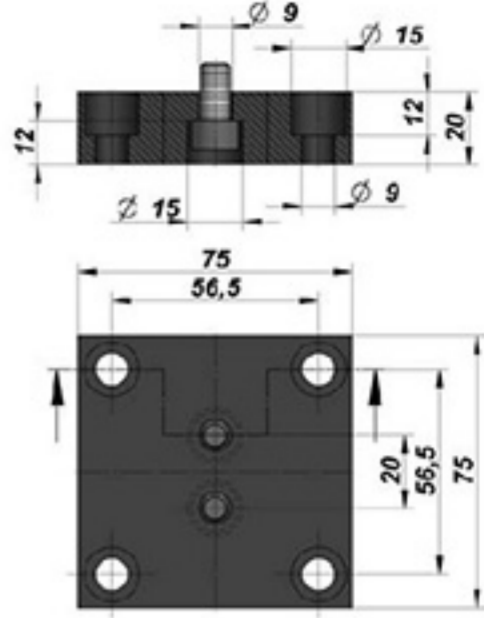
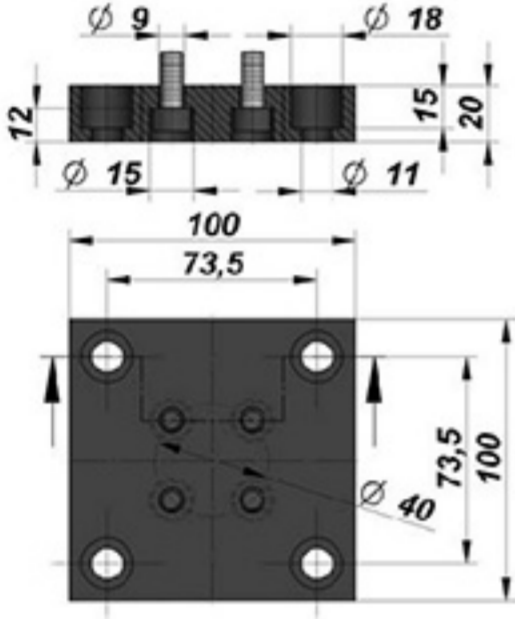
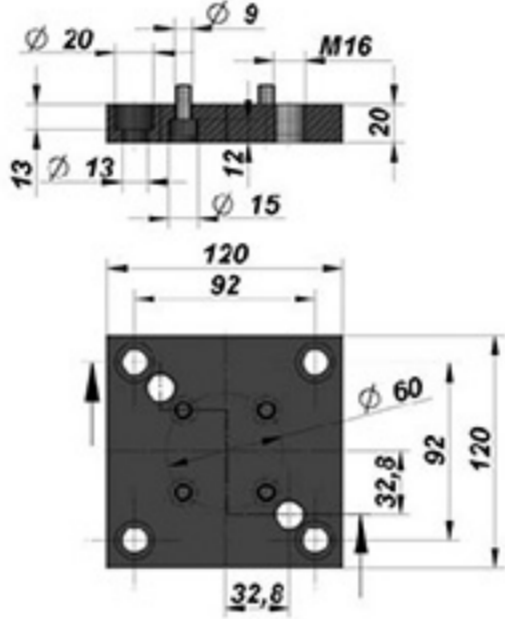
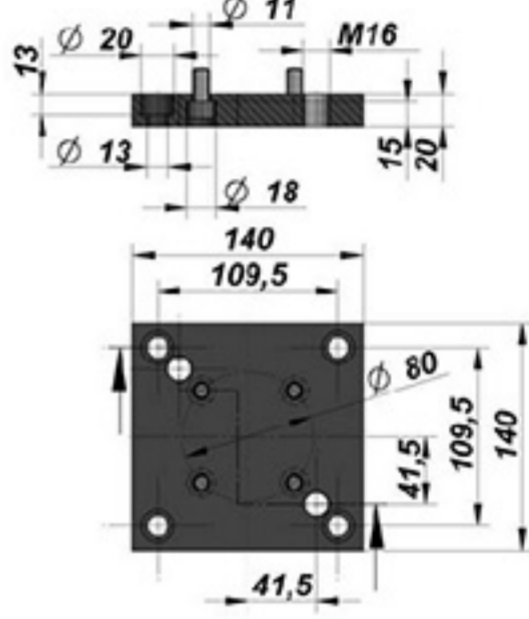
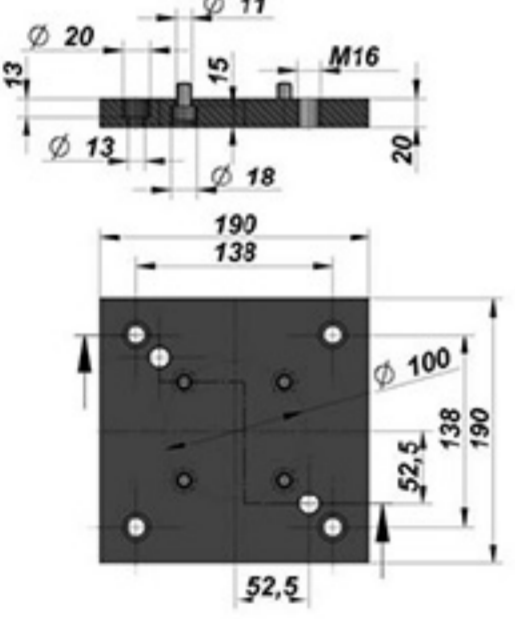
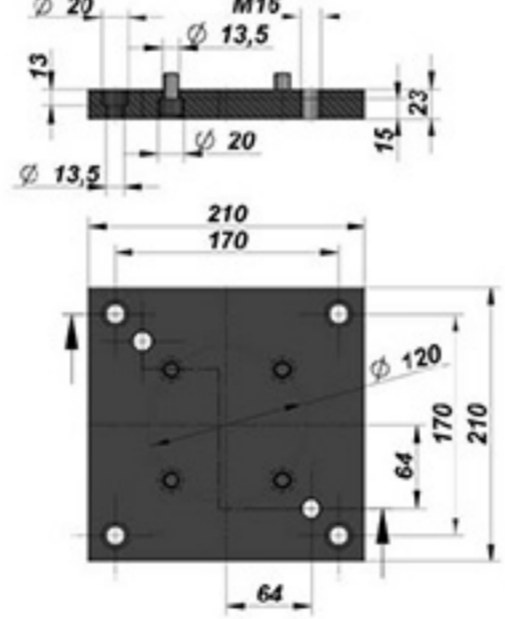
## A34 VE A49 SERİSİ FLANŞLAR

<p><b>A34 – 038</b></p> 	<p><b>A34 – 045</b></p> 	<p><b>A34 – 050</b></p> 
<p><b>A34 – 063</b></p> 	<p><b>A34 – 075</b></p> 	<p><b>A34 – 095</b></p> 
<p><b>A34 – 120</b></p> 	<p><b>A34 – 150</b></p> 	<p><b>A34 – 195</b></p> 
<p><b>A49 – 012</b></p> 	<p><b>A49 – 019</b></p> 	

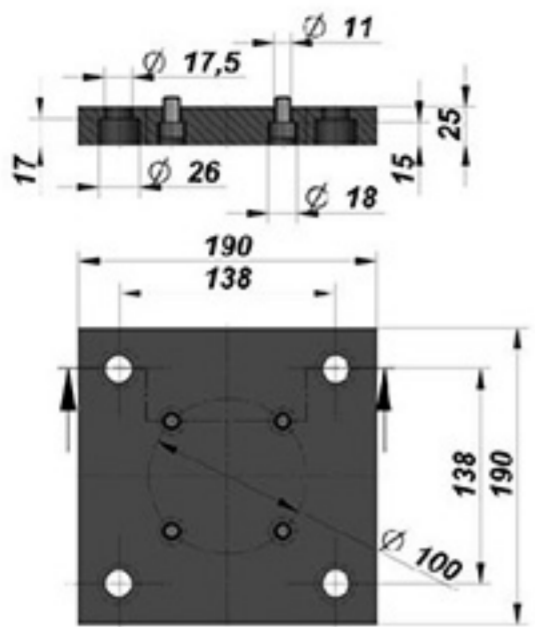
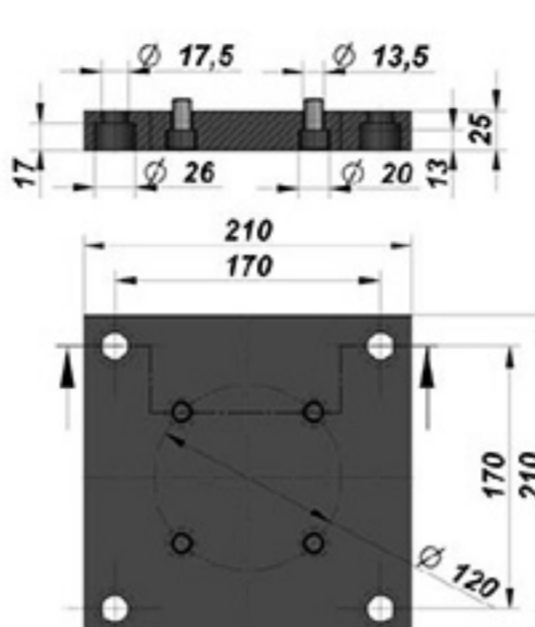
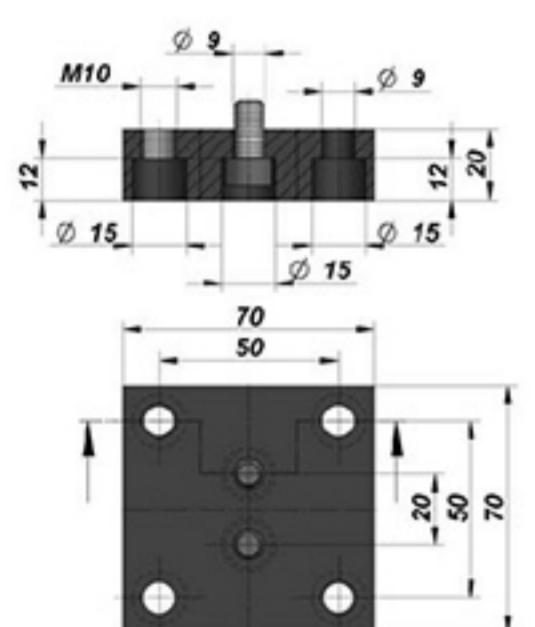
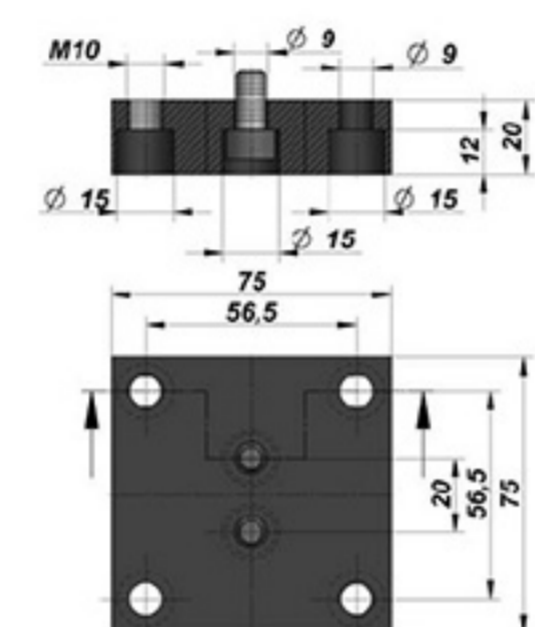
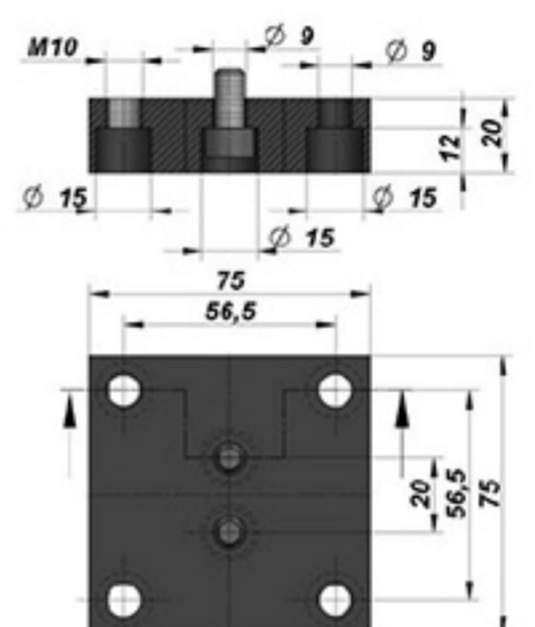
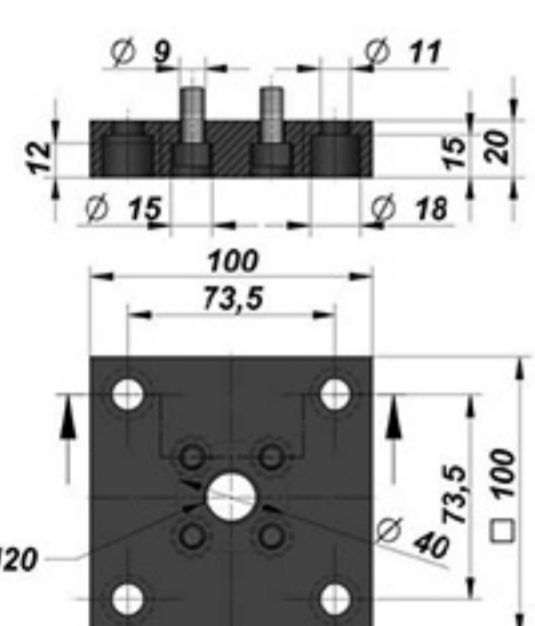
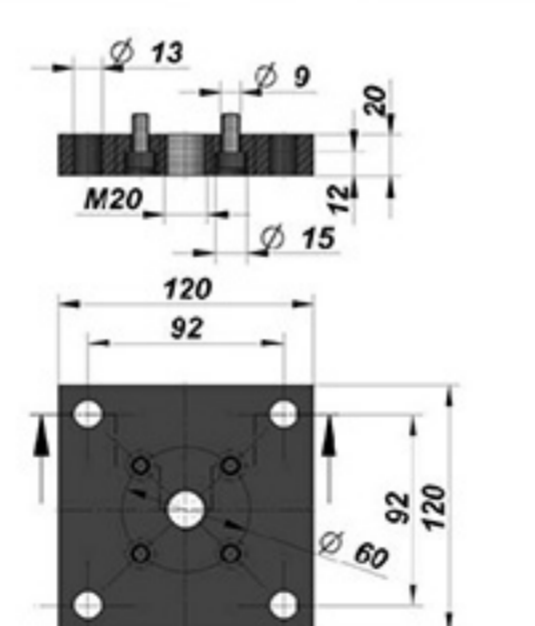
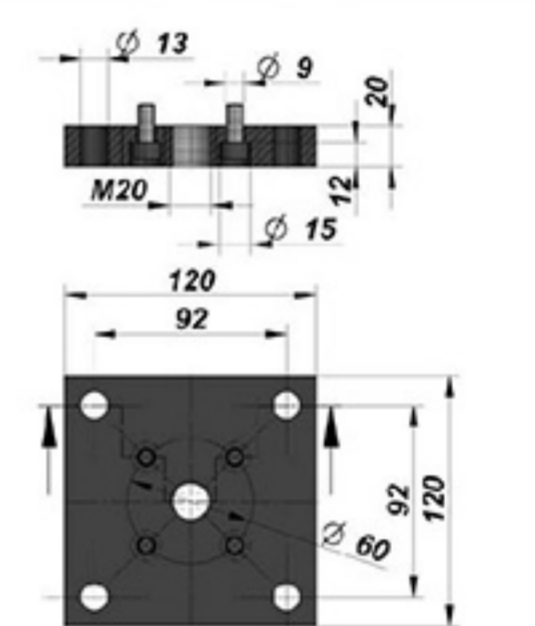
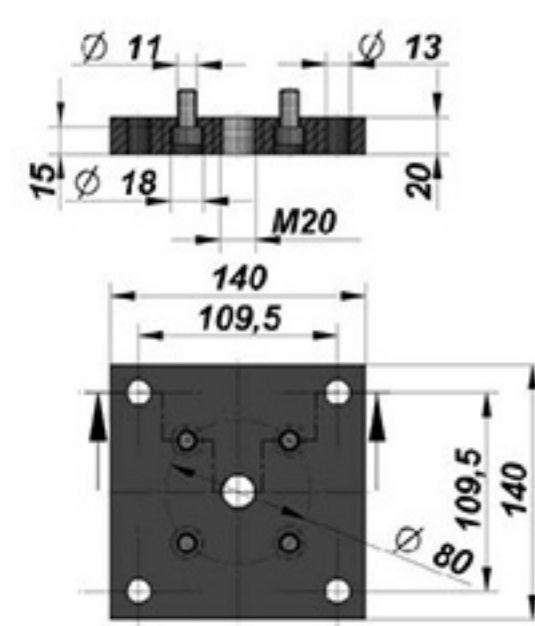
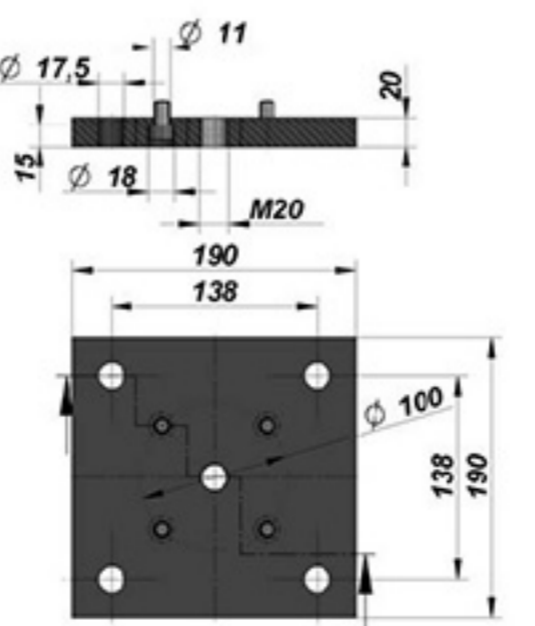
## B11 VE B16 SERİSİ FLANŞLAR

<p><b>B11 – 045</b></p> 	<p><b>B11 – 050</b></p> 	<p><b>B11 – 075</b></p> 
<p><b>B11 – 095</b></p> 	<p><b>B11 – 120</b></p> 	<p><b>B11 – 150</b></p> 
<p><b>B11 – 195</b></p> 	<p><b>B16 – 075</b></p> 	<p><b>B16 – 095</b></p> 
<p><b>B16 – 120</b></p> 	<p><b>B16 – 150</b></p> 	<p><b>B16 – 195</b></p> 

## B21 SERİSİ FLANŞLAR

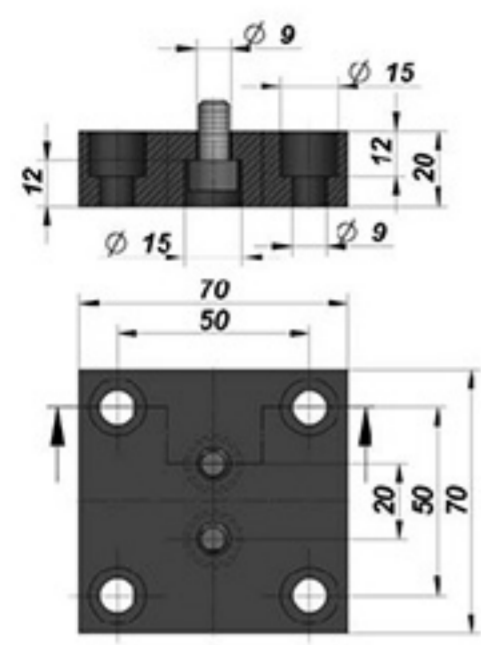
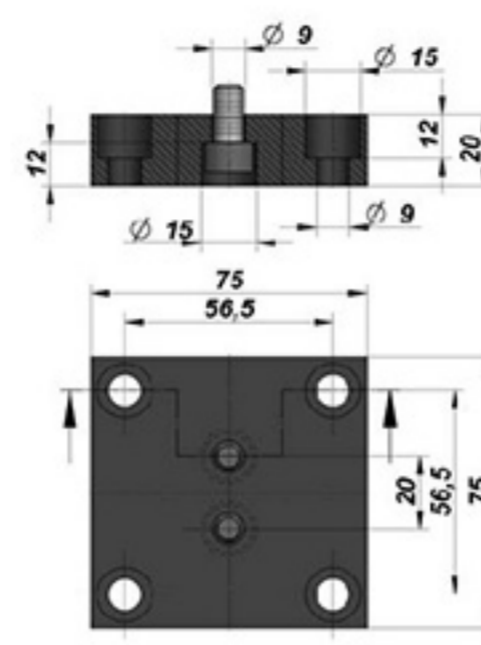
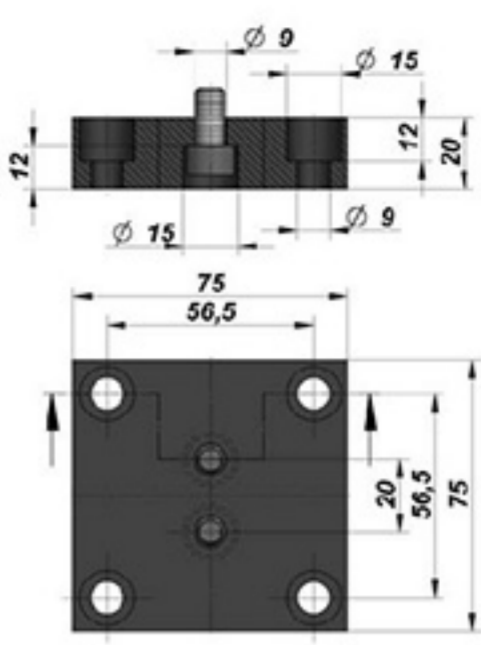
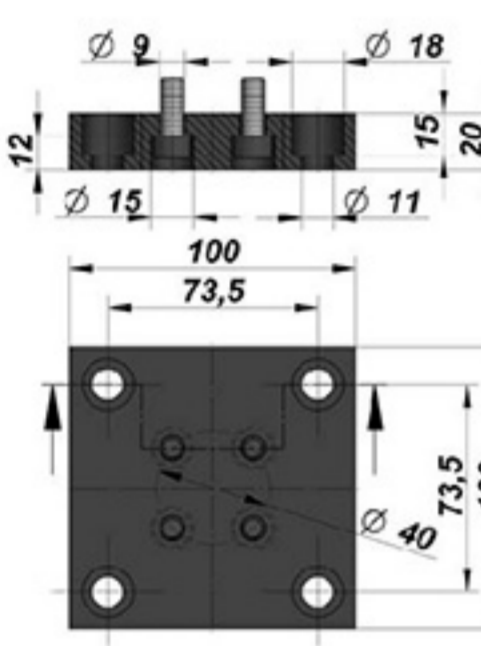
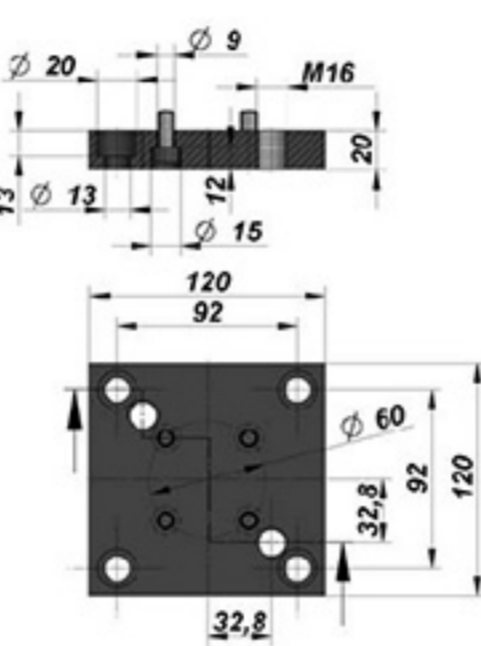
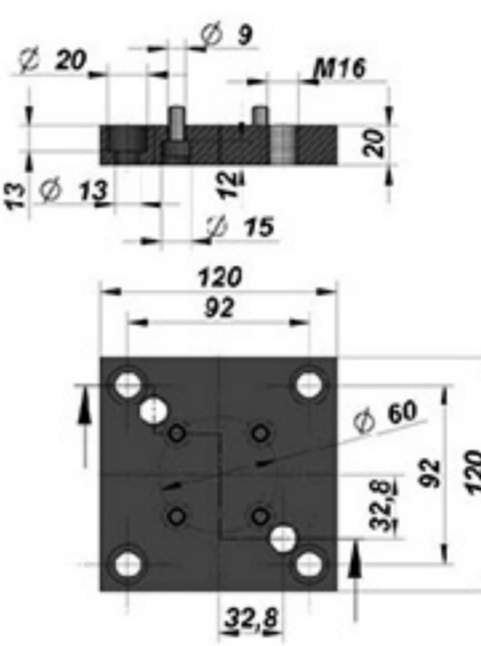
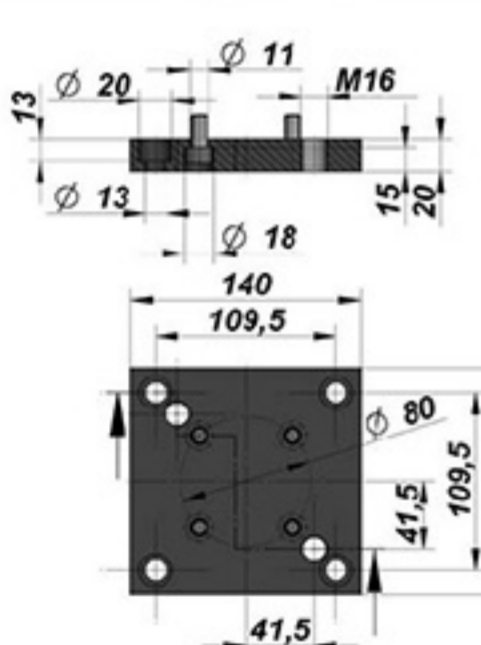

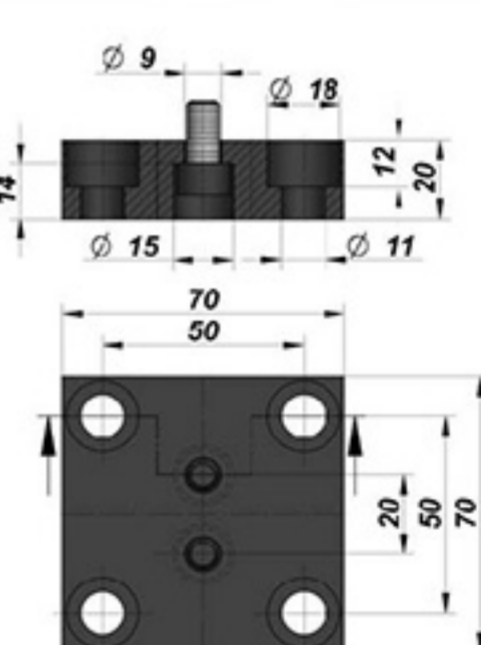
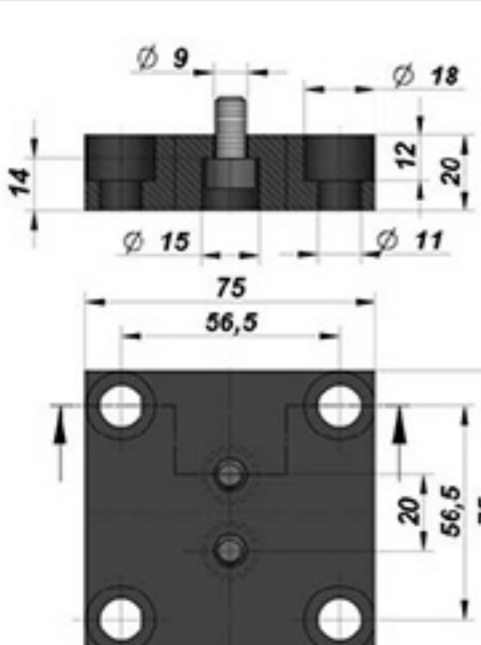
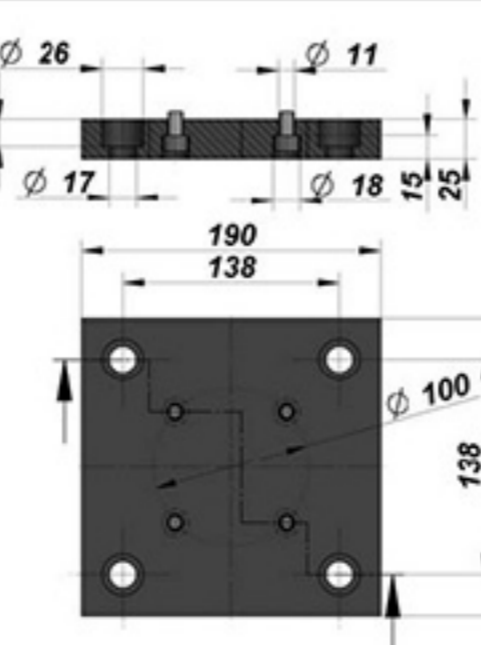
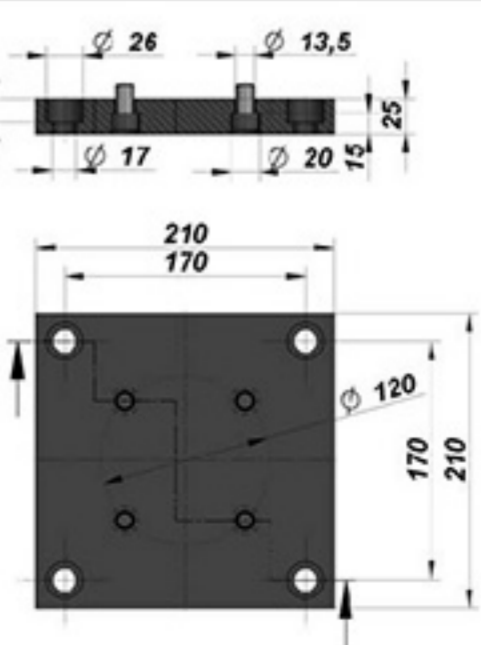
<p><b>B21 – 045</b></p> 	<p><b>B21 – 050</b></p> 	<p><b>B21 – 063</b></p> 
<p><b>B21 – 075</b></p> 	<p><b>B21 – 095</b></p> 	<p><b>B21 – 120</b></p> 
<p><b>B21 – 150</b></p> 	<p><b>B21 – 195</b></p> 	

## B01 VE B36 SERİSİ FLANŞLAR

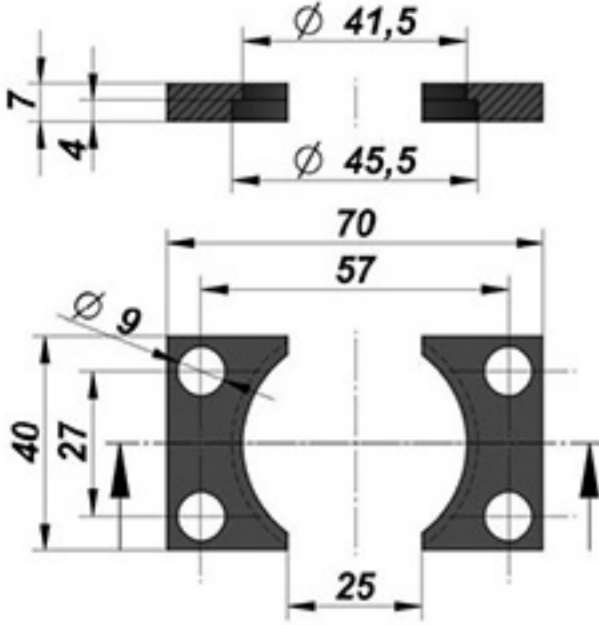
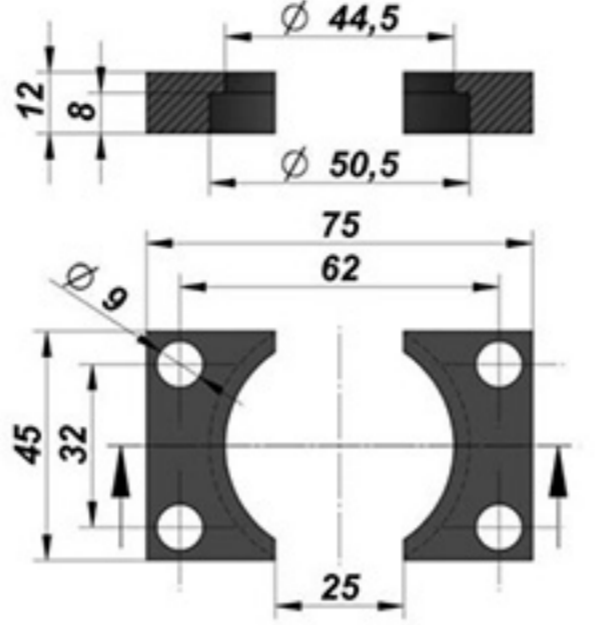
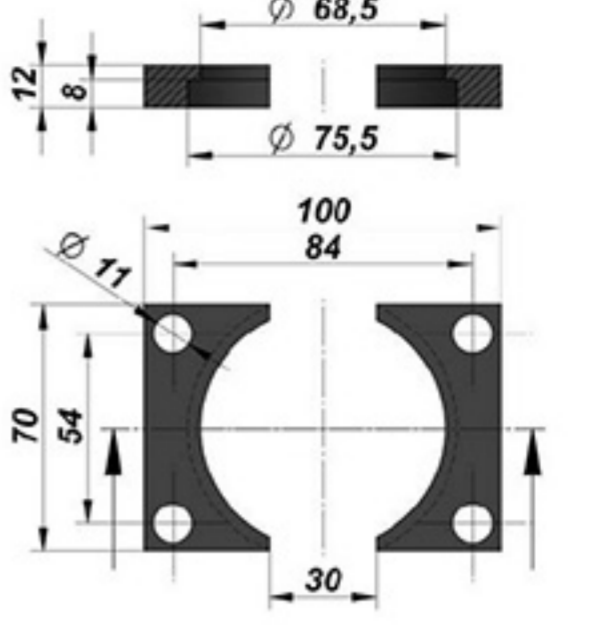
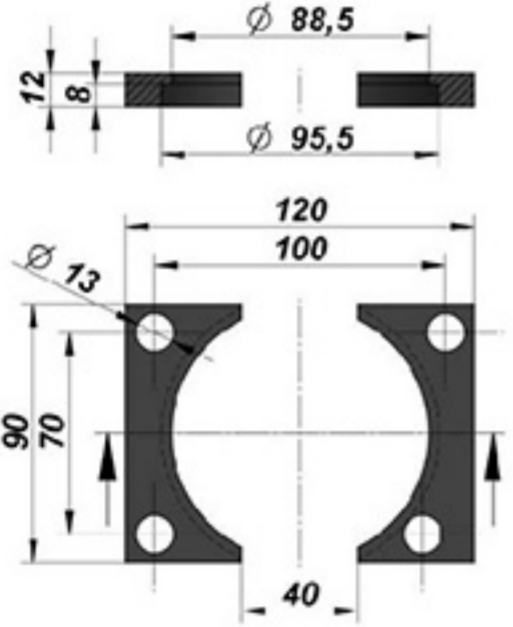
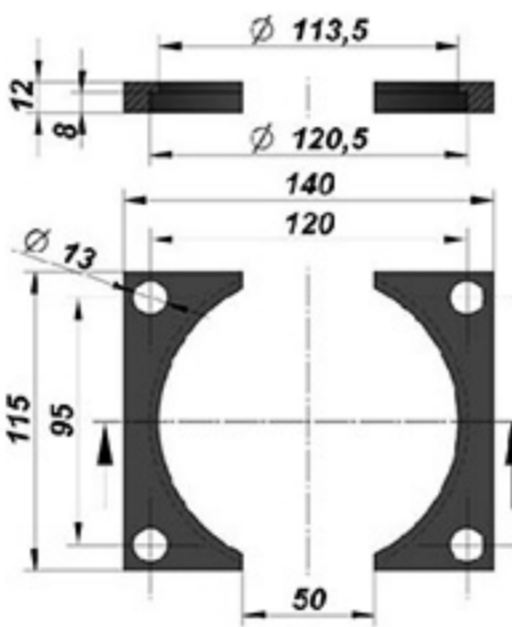
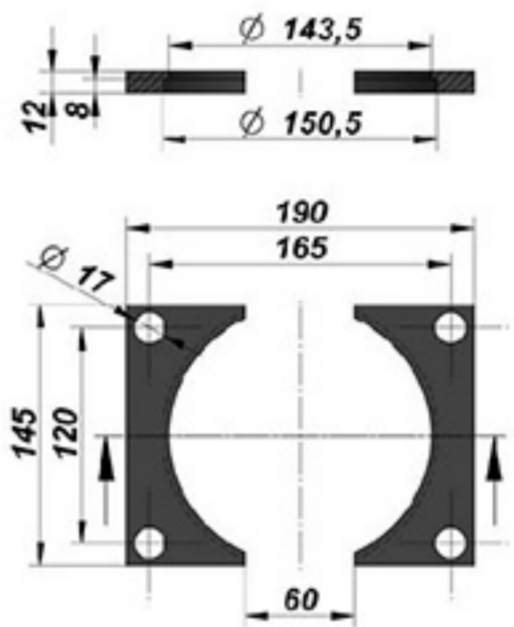
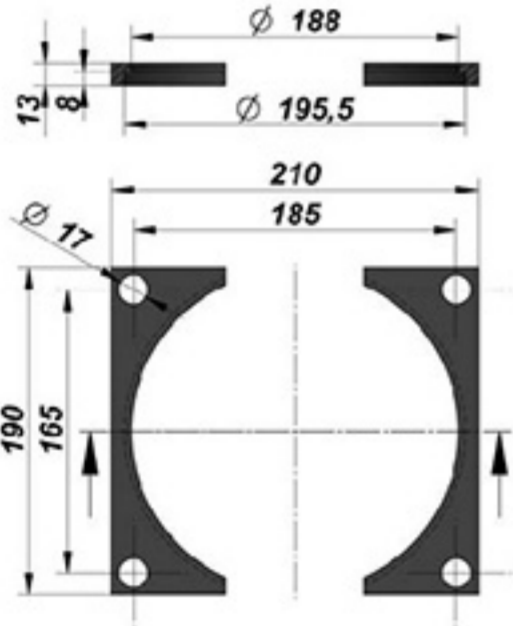
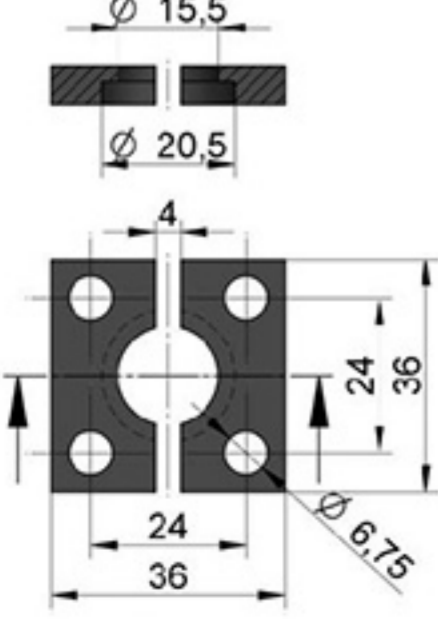
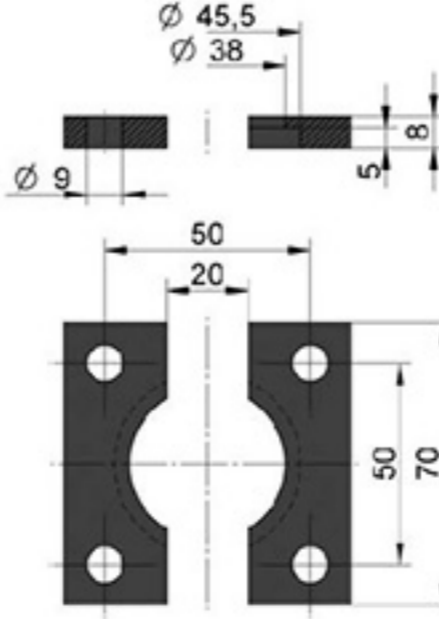
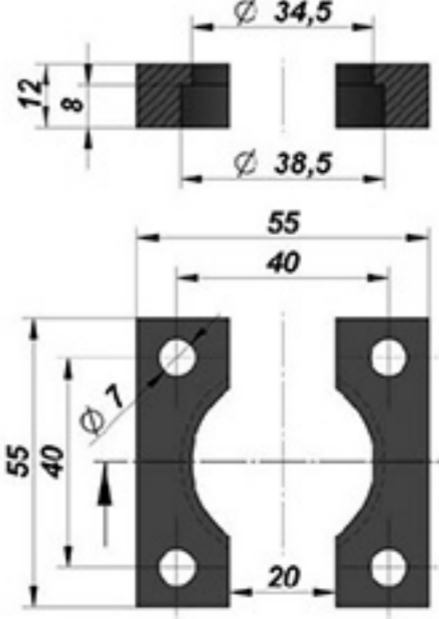
<p><b>B01 – 150</b></p> 	<p><b>B01 – 195</b></p> 	
<p><b>B36 – 045</b></p> 	<p><b>B36 – 050</b></p> 	<p><b>B36 – 063</b></p> 
<p><b>B36 – 075</b></p> 	<p><b>B36 – 095</b></p> 	<p><b>B36 – 105</b></p> 
<p><b>B36 – 120</b></p> 	<p><b>B36 – 150</b></p> 	



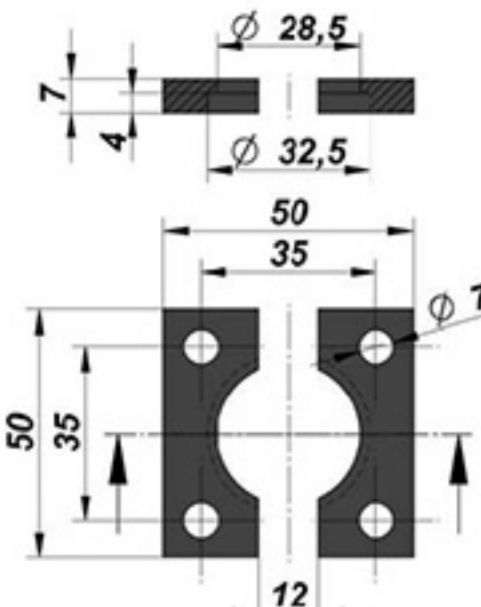
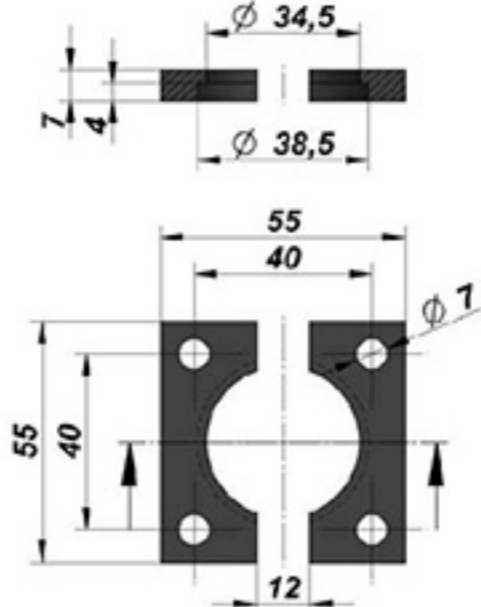
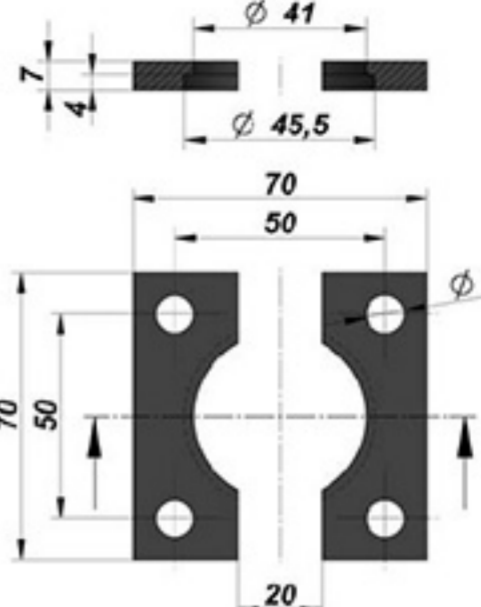
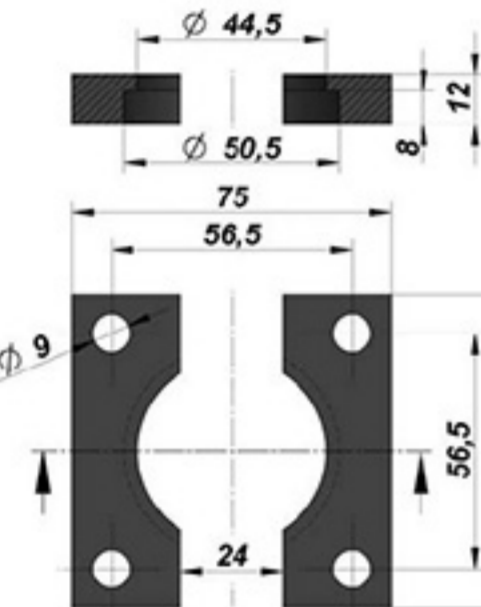
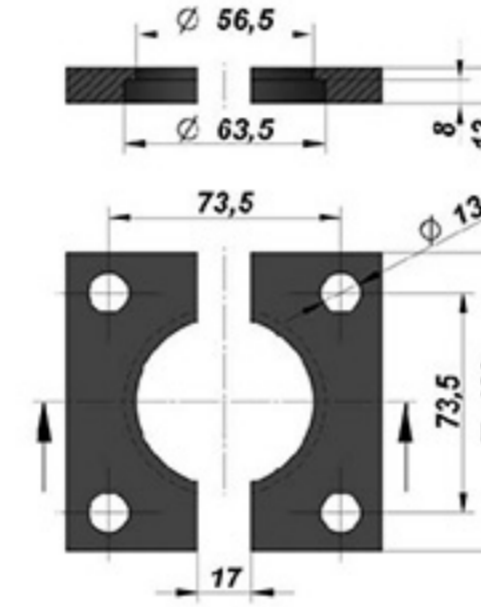
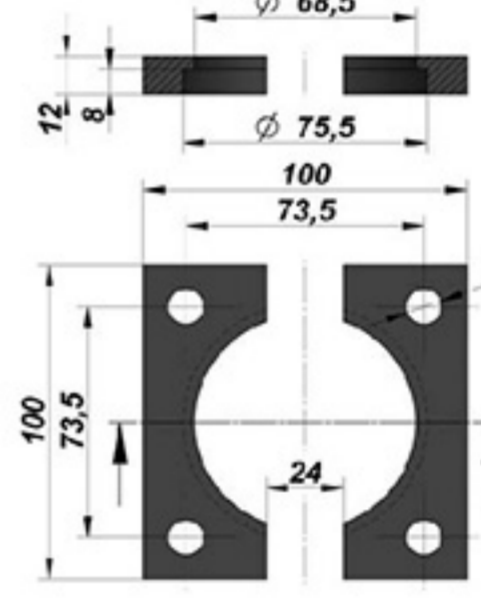
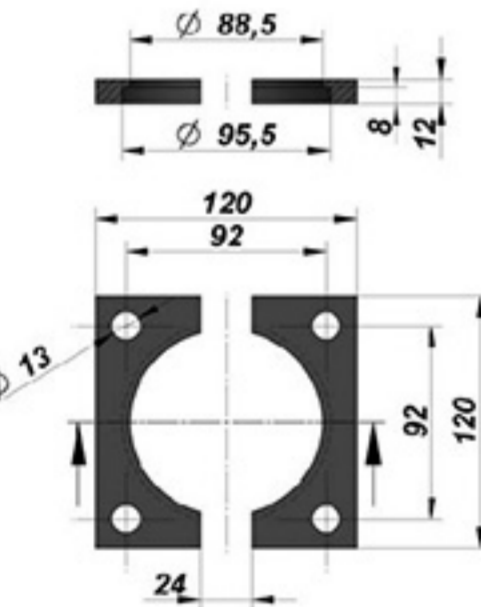
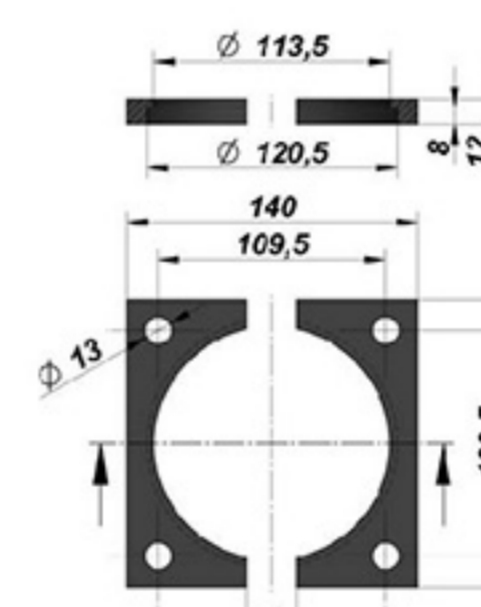
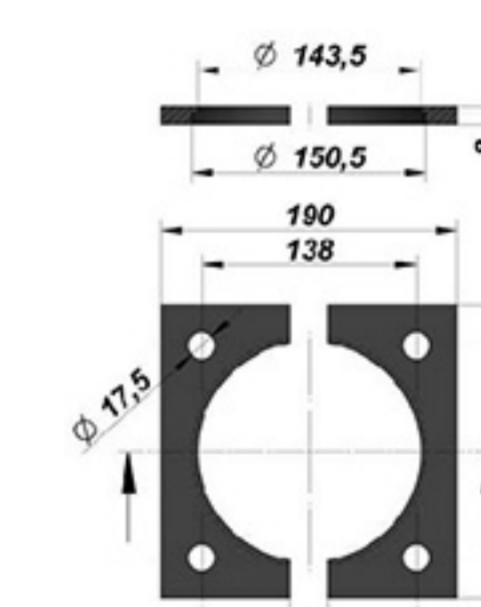
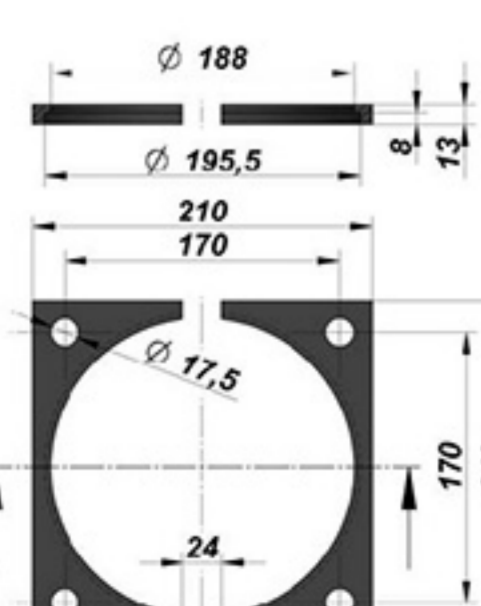
## B41 VE B51 SERİSİ FLANŞLAR

<p><b>B41 – 045</b></p> 	<p><b>B41 – 050</b></p> 	<p><b>B41 – 063</b></p> 
<p><b>B41 – 075</b></p> 	<p><b>B41 – 095</b></p> 	<p><b>B41 – 105</b></p> 
<p><b>B41 – 120</b></p> 	<p><b>B41 – 150</b></p> 	<p><b>B51 – 075</b></p> 
<p><b>B51 – 095</b></p> 	<p><b>B51 – 150</b></p> 	<p><b>B51 – 195</b></p> 

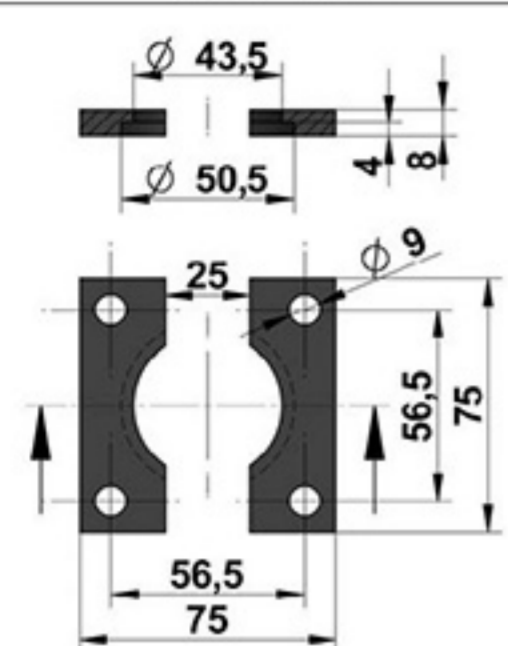
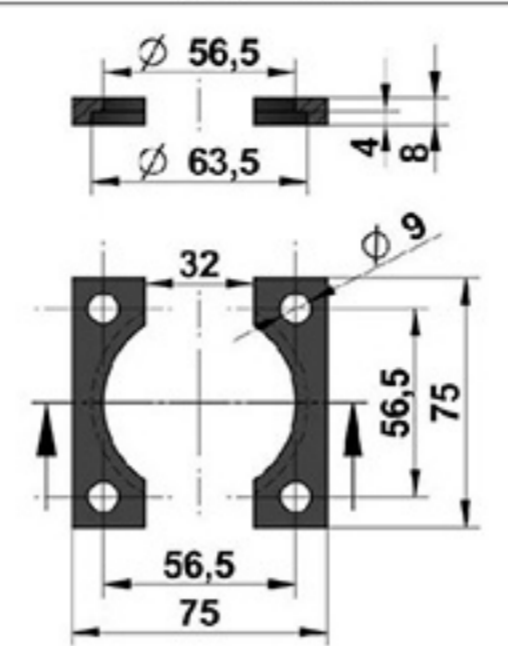
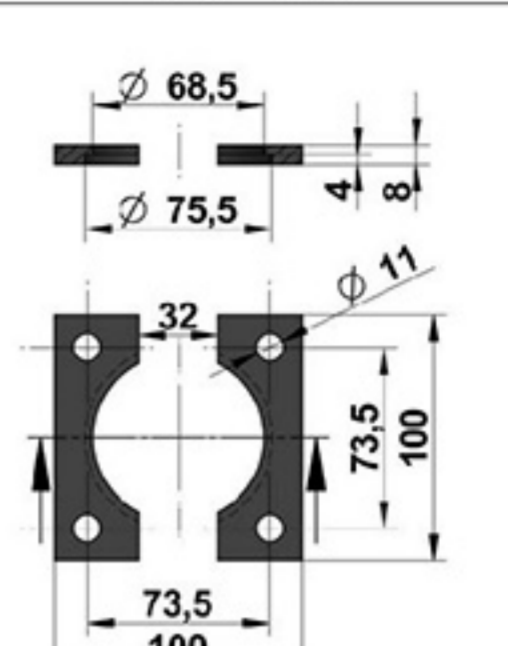
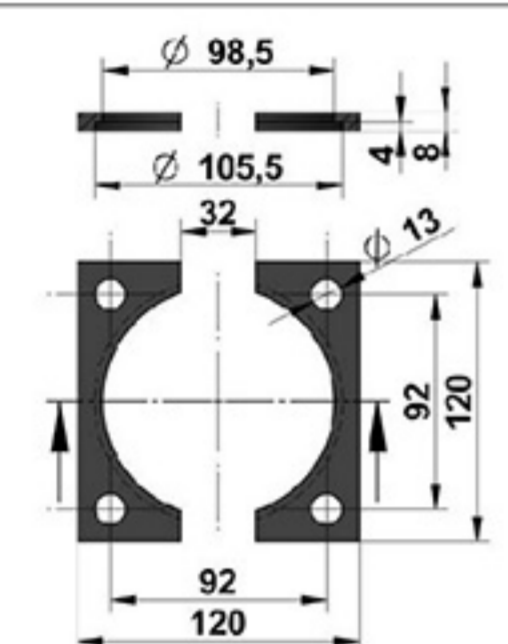
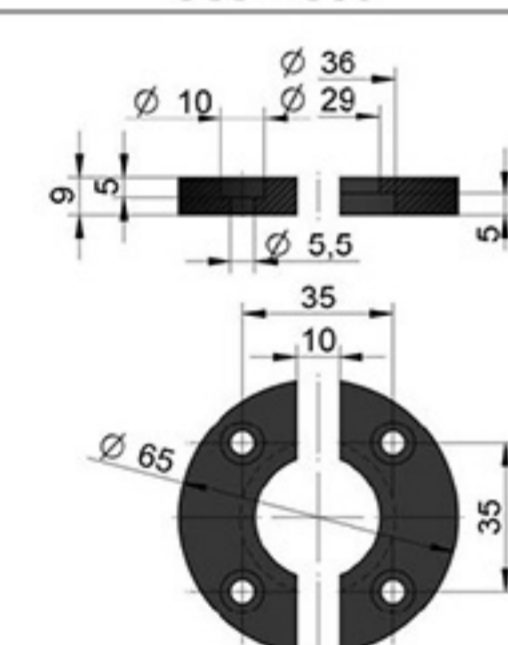
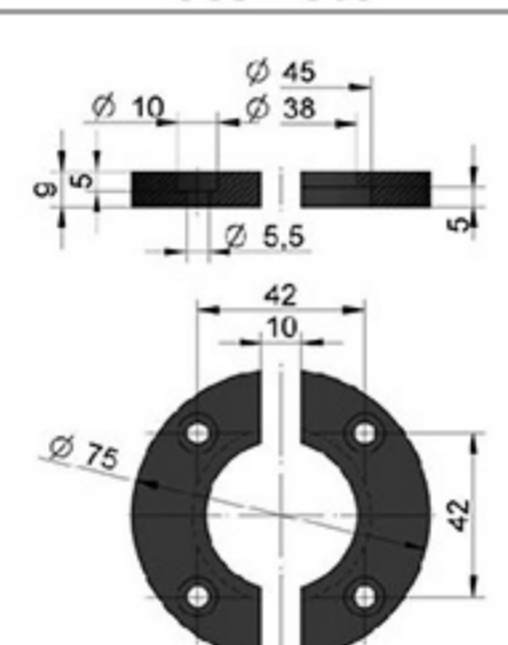
## C05, C15, C30 VE C40 SERİSİ FLANŞLAR

<p><b>C05 - 045</b></p> 	<p><b>C05 - 050</b></p> 	<p><b>C05 - 075</b></p> 
<p><b>C05 - 095</b></p> 	<p><b>C05 - 120</b></p> 	<p><b>C05 - 150</b></p> 
<p><b>C05 - 195</b></p> 		
<p><b>C15 - 020</b></p> 	<p><b>C30 - 045</b></p> 	<p><b>C40 - 038</b></p> 

## C20 SERİSİ FLANŞLAR

<p><b>C20 – 032</b></p> 	<p><b>C20 – 038</b></p> 	<p><b>C20 – 045</b></p> 
<p><b>C20 – 050</b></p> 	<p><b>C20 – 063</b></p> 	<p><b>C20 – 075</b></p> 
<p><b>C20 – 095</b></p> 	<p><b>C20 – 120</b></p> 	<p><b>C20 – 150</b></p> 
<p><b>C20 – 195</b></p> 		

## C55 VE C80 SERİSİ FLANŞLAR

C55 – 050	C55 – 063	C55 – 075
		
		
		

## D02 SERİSİ FLANŞLAR

<p style="text-align: center;"><b>D02 – 025</b></p>	<p style="text-align: center;"><b>D02 – 032</b></p>	
<p style="text-align: center;"><b>D02 – 038</b></p>	<p style="text-align: center;"><b>D02 – 045</b></p>	<p style="text-align: center;"><b>D02 – 050</b></p>
<p style="text-align: center;"><b>D02 – 075</b></p>	<p style="text-align: center;"><b>D02 – 095</b></p>	<p style="text-align: center;"><b>D02 – 120</b></p>
<p style="text-align: center;"><b>D02 – 150</b></p>	<p style="text-align: center;"><b>D02 – 195</b></p>	

## E03, E08, E23 VE E58 SERİSİ FLANŞLAR

<p><b>E03 – 036</b></p>	<p><b>E03 – 045</b></p>	<p><b>E08 – 038</b></p>
<p><b>E23 – 038</b></p>	<p><b>E58 – 028</b></p>	<p><b>E58 – 038</b></p>
<p><b>E58 – 045</b></p>	<p><b>E58 – 050</b></p>	