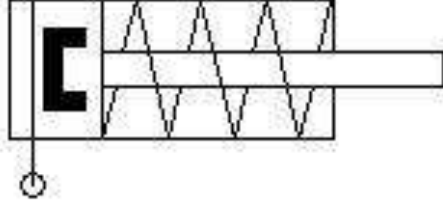


PNÖMATİK TEMEL SEVİYE TP101

SİLİNDİRLER

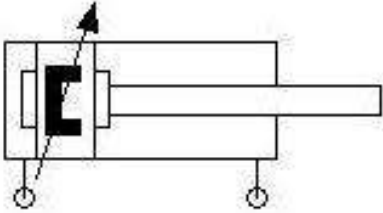


Tek etkili; tek yönde iş üreten silindirdir.

Basınçlı hava silindirin ileriye çıkmasını sağlar.

Geriye hareketi yay basıncı ile olur.

Hava sadece iş strokunda tüketilir.



Çift etkili; her iki yönde de iş üreten silindirdir.

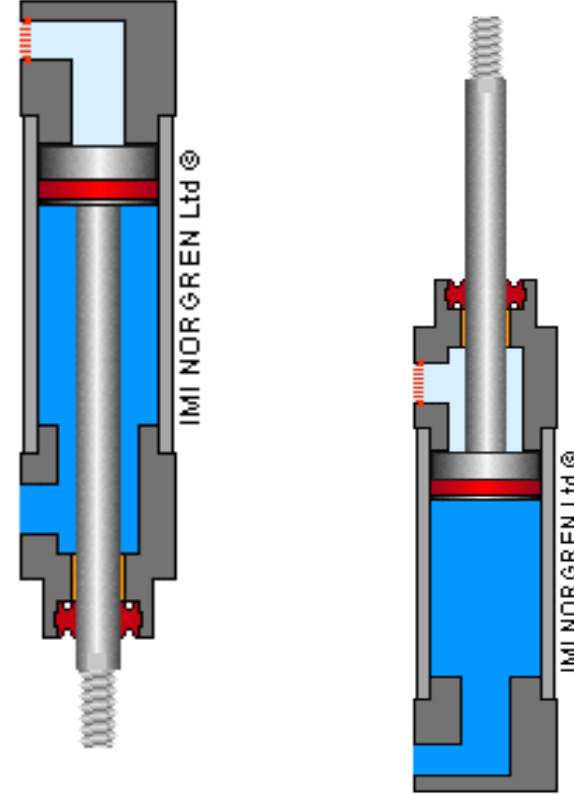
Silindirin her iki hareketi içinde basınçlı hava harcanacaktır.

Hava tüketimi tek etkiliye göre iki mislidir.

Tek Etkili Yaysız Silindir

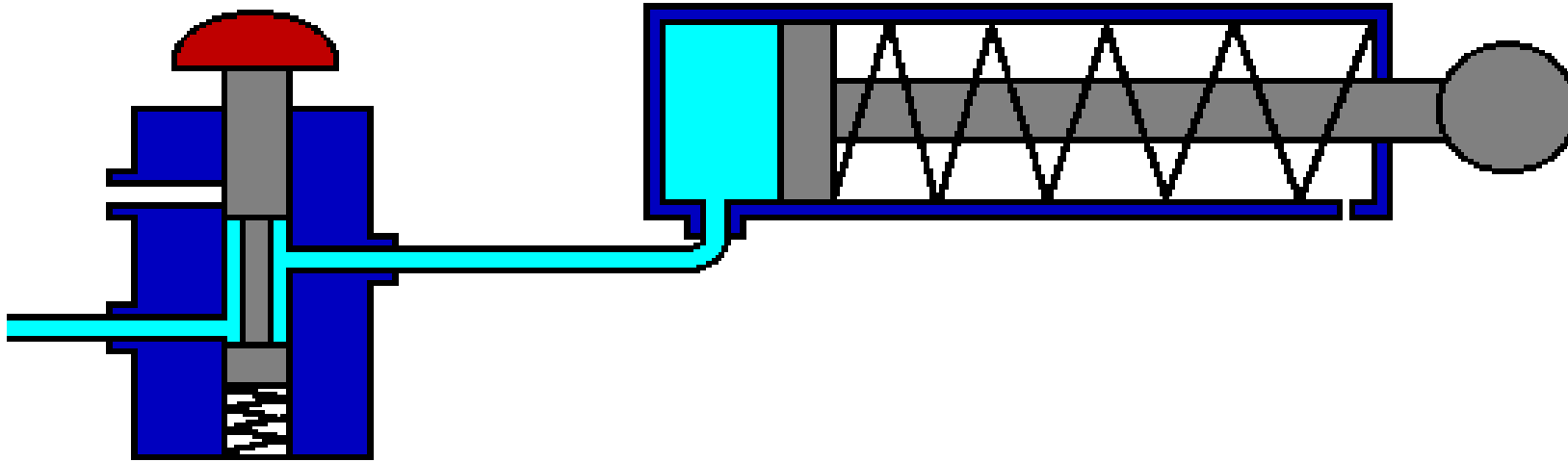
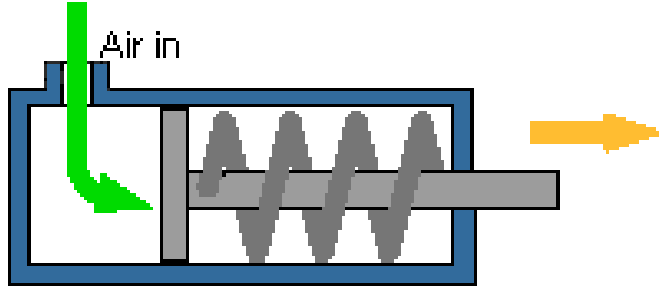
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Yer çekimi yada başka bir etki kuvveti ile geri dönerler.



Tek etkili yay geri dönüşlü Silindir

FESTO

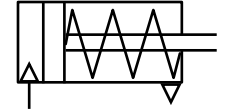
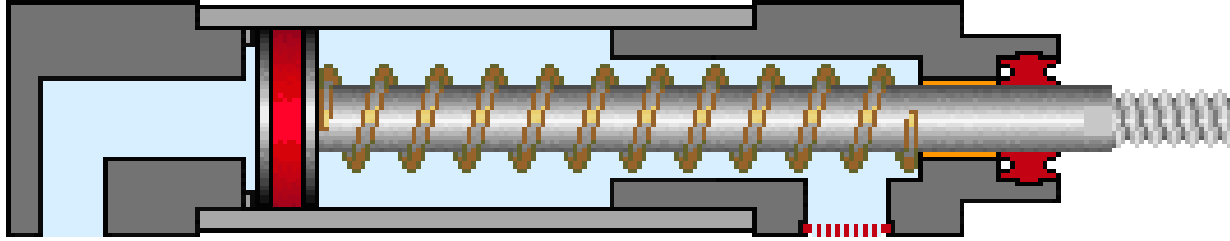


Tek etkili yay geri dönüşlü Silindir

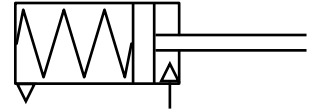
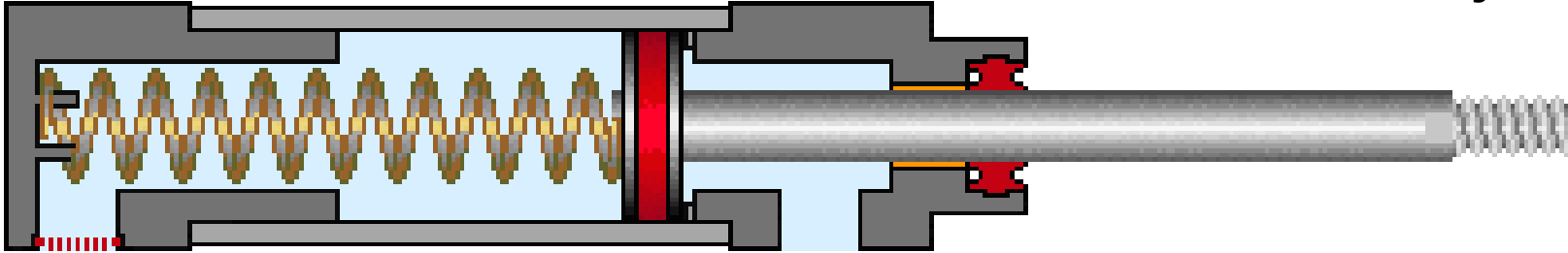
FESTO

Sadece tek yönde kuvvet uygularlar.

Normalde içeride

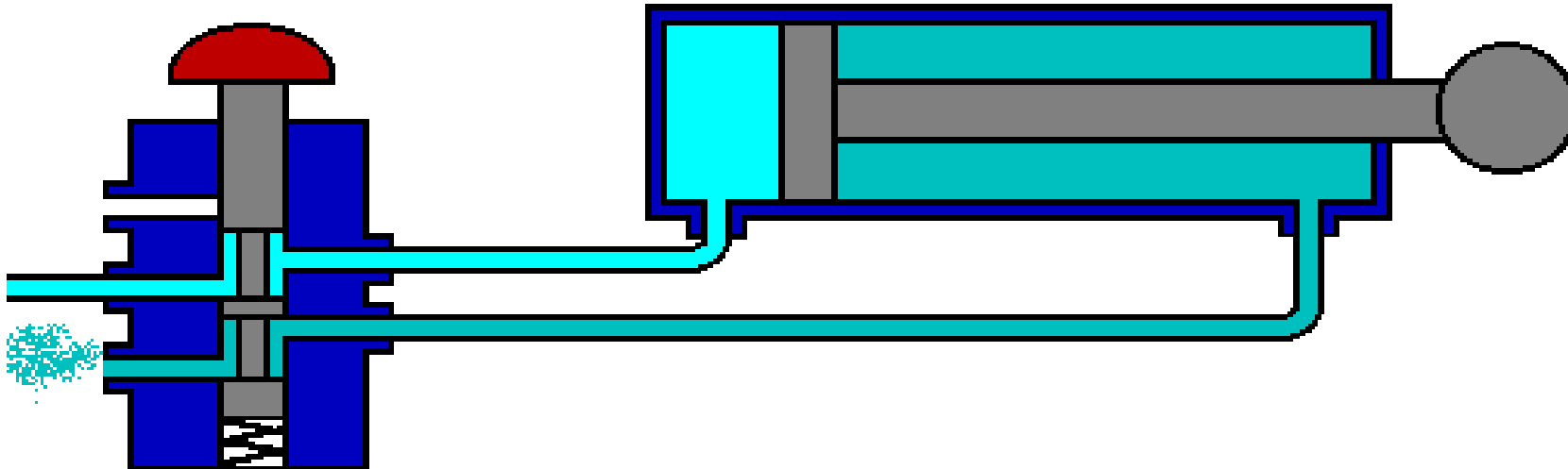
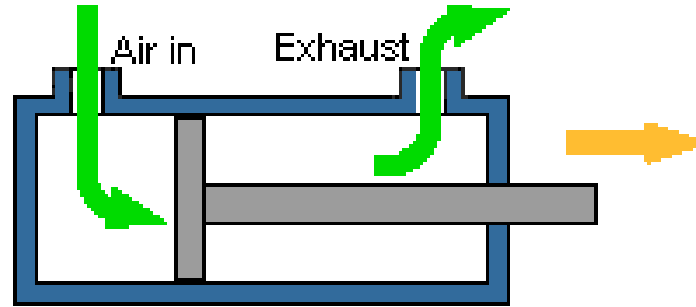


Normalde Dışarıda



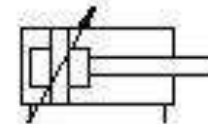
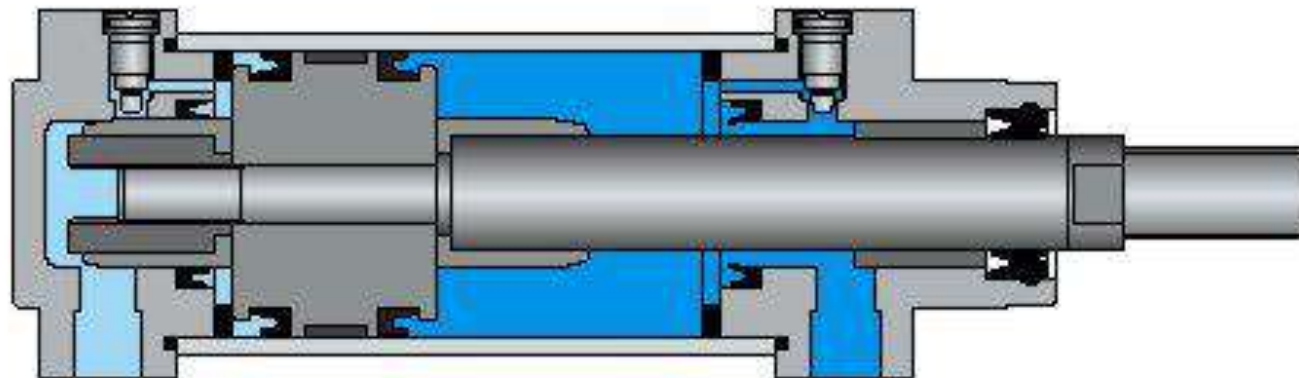
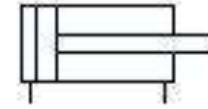
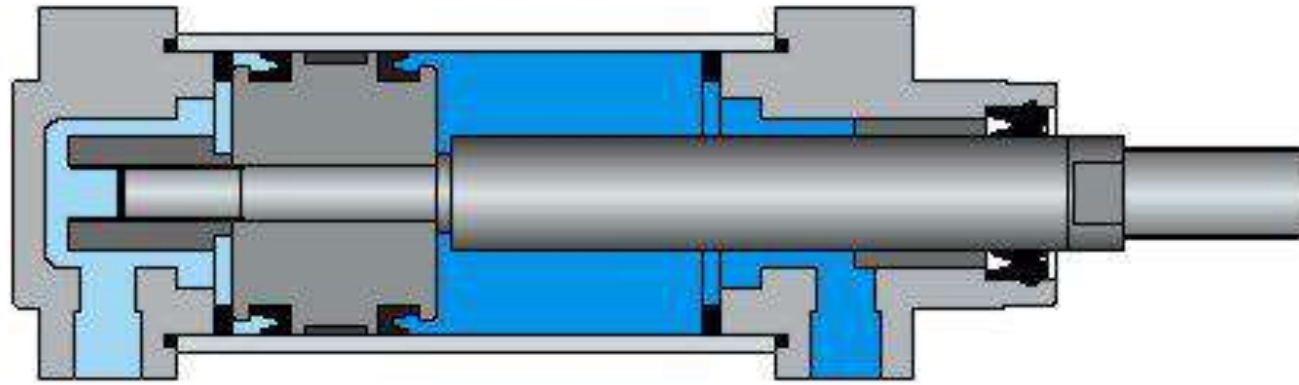
Çift Etkili Silindir

FESTO



Çift Etkili Silindir

FESTO



Pnömatik silindirlerin hava tüketimi (l/cm)



Piston çapı

Çalışma basıncı												
	1	2	3	4	5	6	7	8	9	10	11	12
6	0,0005	0,0008	0,0011	0,0014	0,0016	0,0019	0,0022	0,0025	0,0027	0,003	0,0033	0,0036
12	0,002	0,003	0,004	0,006	0,007	0,008	0,009	0,01	0,011	0,012	0,013	0,014
16	0,004	0,006	0,008	0,01	0,011	0,014	0,016	0,018	0,02	0,022	0,024	0,026
25	0,01	0,014	0,019	0,024	0,029	0,033	0,038	0,043	0,048	0,052	0,057	0,062
35	0,019	0,028	0,038	0,047	0,056	0,066	0,075	0,084	0,093	0,103	0,112	0,121
40	0,025	0,037	0,049	0,061	0,073	0,085	0,097	0,11	0,122	0,135	0,146	0,157
50	0,039	0,058	0,077	0,096	0,115	0,134	0,153	0,172	0,191	0,21	0,229	0,248
70	0,076	0,113	0,15	0,187	0,225	0,262	0,299	0,335	0,374	0,411	0,448	0,485
100	0,155	0,231	0,307	0,383	0,459	0,535	0,611	0,687	0,763	0,839	0,915	0,991
140	0,303	0,452	0,601	0,75	0,899	1,048	1,197	1,346	1,495	1,544	1,793	1,942
200	0,618	0,923	1,277	1,531	1,835	2,139	2,433	2,747	3,052	3,356	3,66	3,954
250	0,966	1,441	1,916	2,392	2,867	3,342	3,817	4,292	4,768	5,243	5,718	6,193

Dikkat edilmesi gereken kurallar:

Silindir parçalarını dağıtırken, toplarken veya monte ederken kritik parçaların kirlenmesini veya hasar görmesini engelleyin.

Silindir ayarlarının bozulmasını engelleyecek tedbirler alın

Boşta silindir çalıştırırken içine yabancı madde girmesini engelleyin

Silindiri bağlayana kadar hava deliklerindeki plastik tapaları sökmeyin

Dikkat edilmesi gereken kurallar:

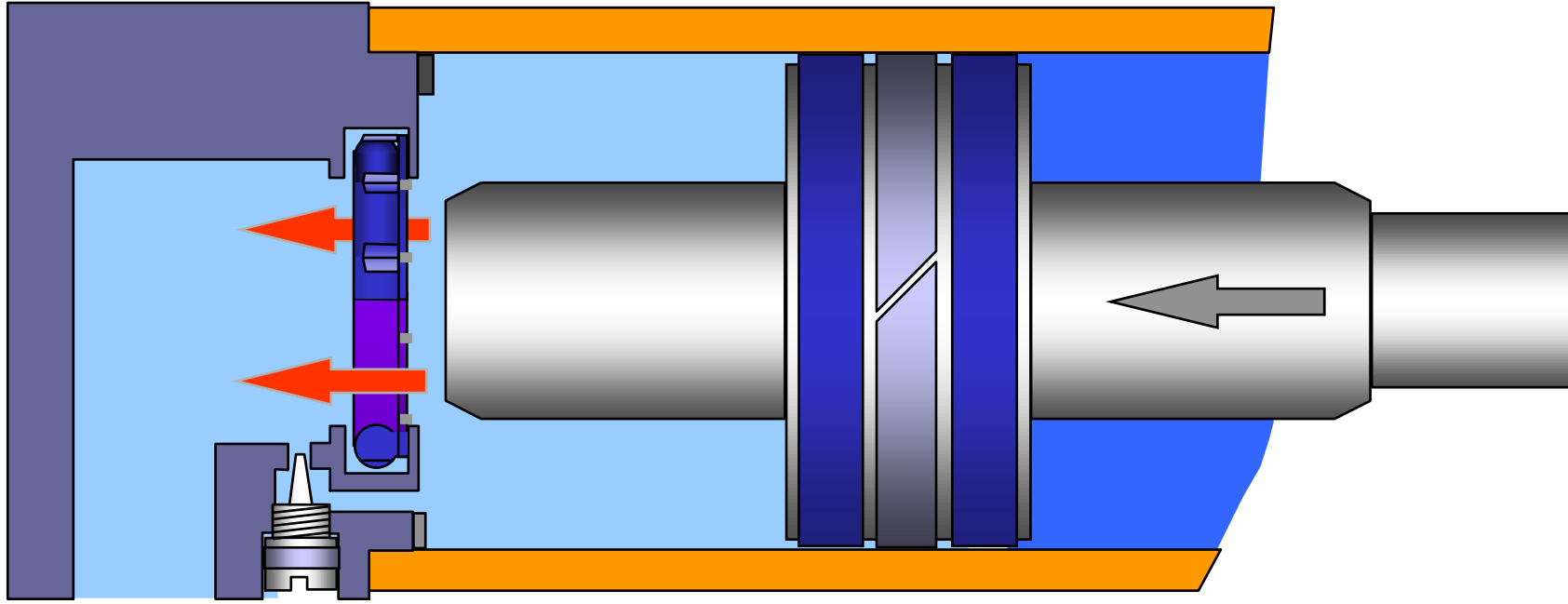
Çalışma sırasında silindirlere yanal yük gelmesini kesinlikle engellenmelidir!!

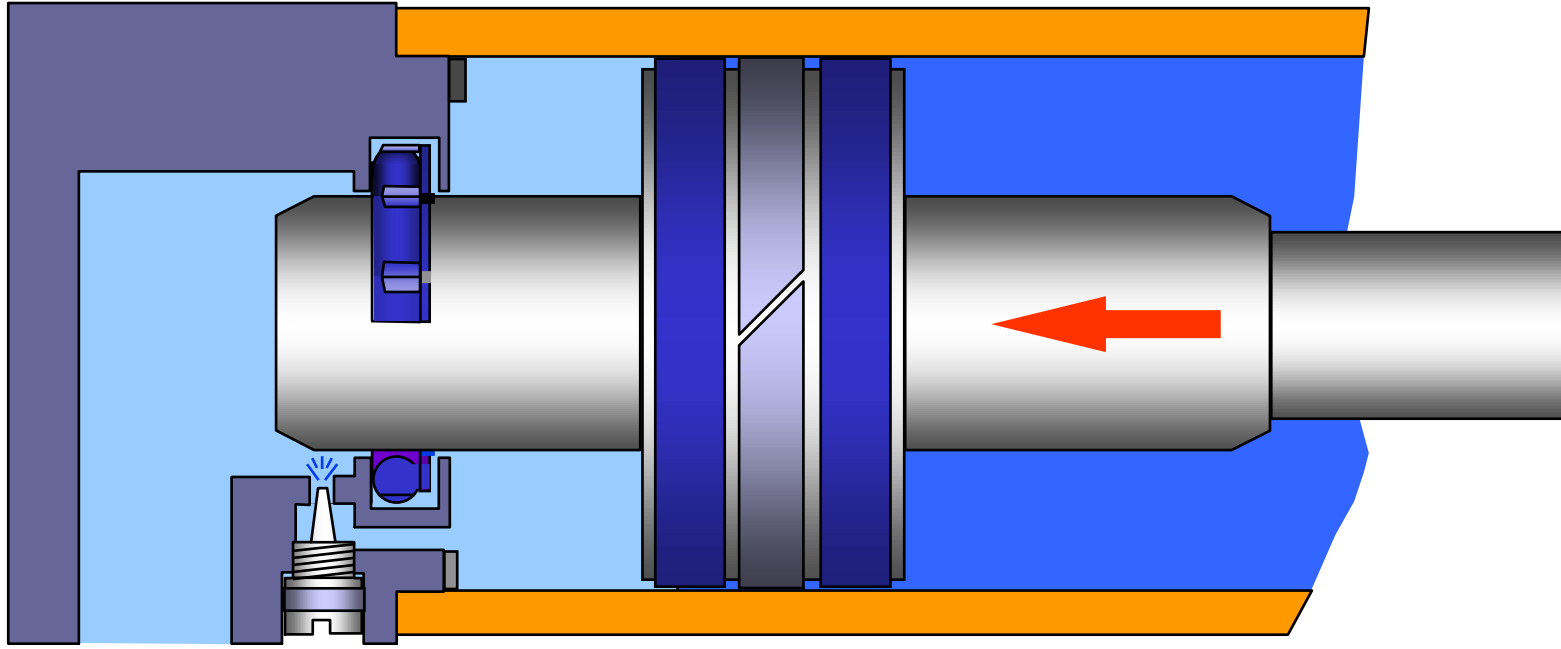
Hava hortumları ve elektrik kabloları silindirin çalışma eksenini dışında bırakılmalıdır

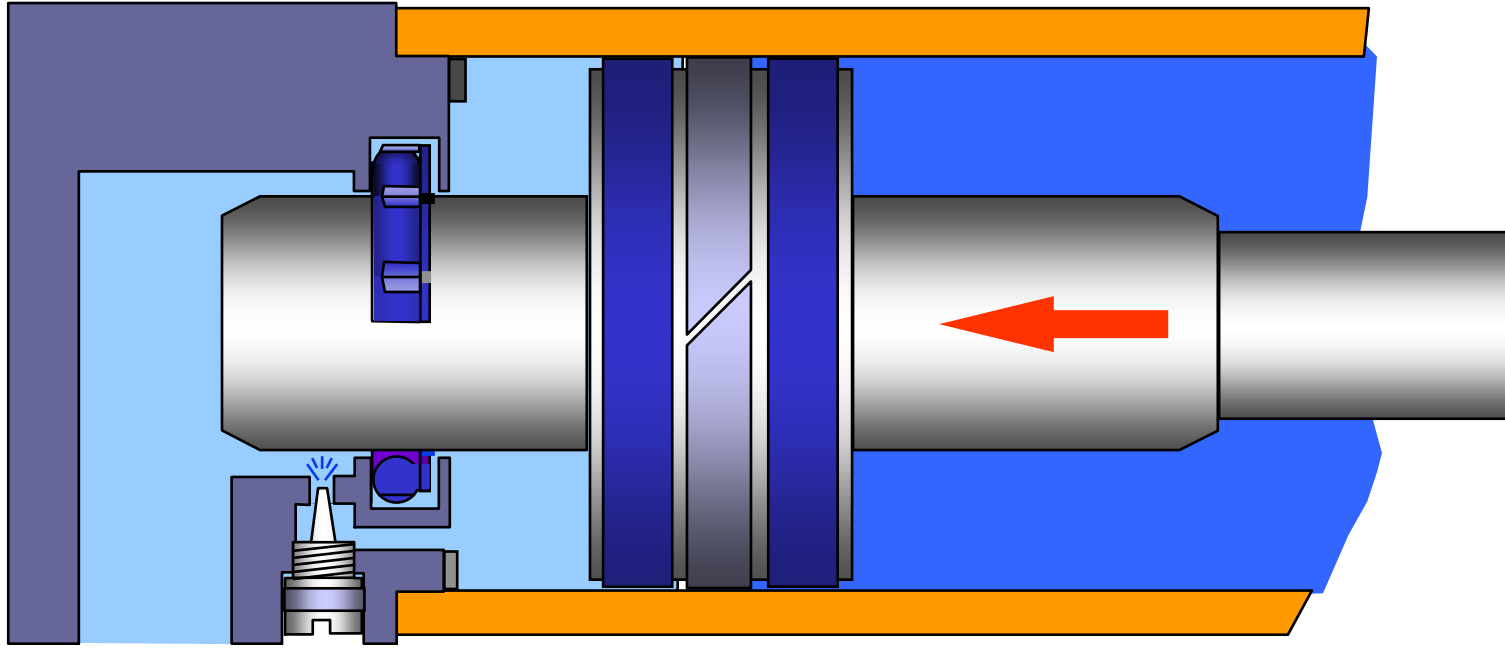
Bütün basınç ayarları doğru yapılmış olmalıdır.
(Doğru basınç = işi yapacak en düşük basınç)

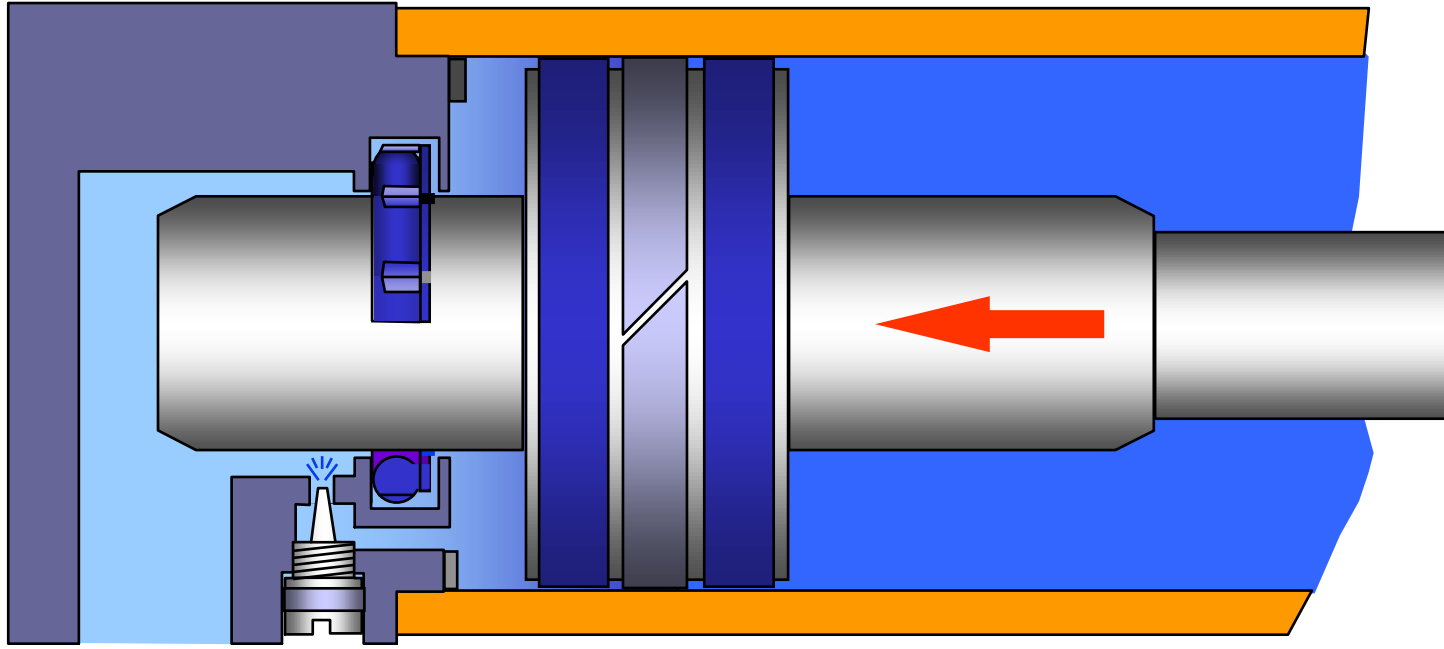
Hava hatlarında keskin dönüşler ve kıvrılmış hortumlar olmamalıdır

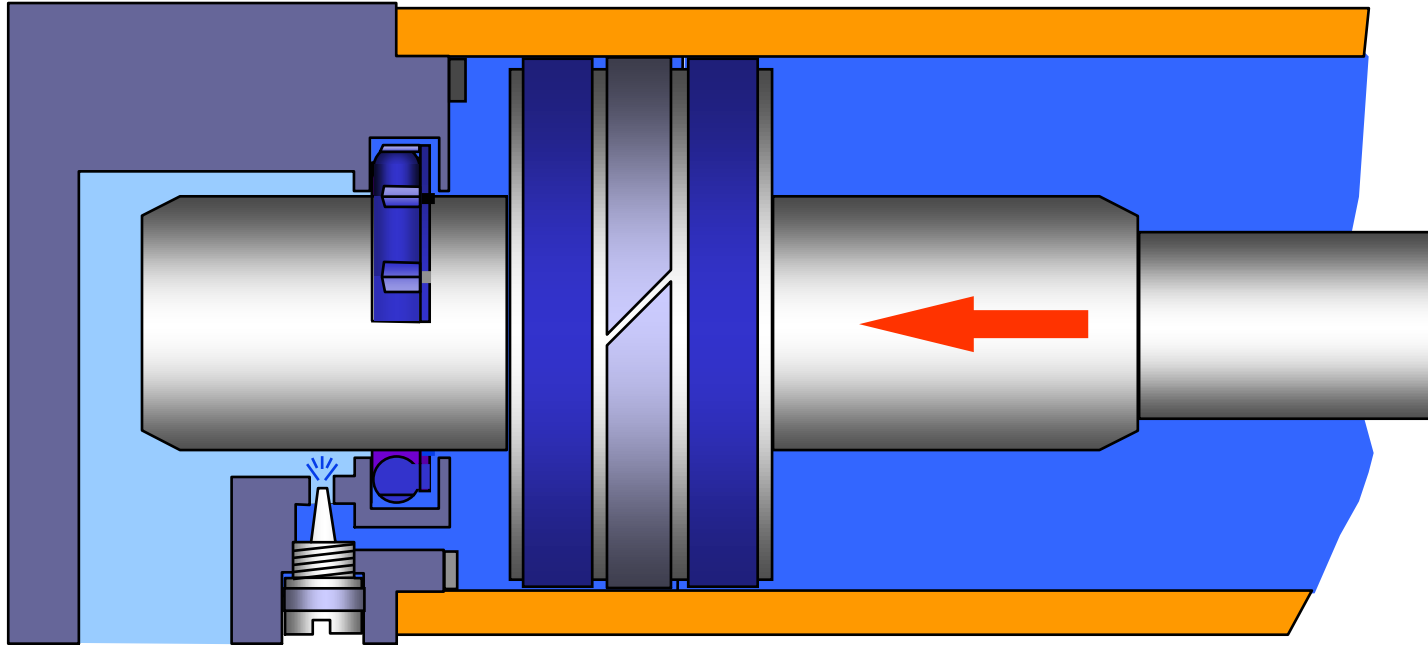
Silindir ömrü için uygun yastıklama ayarı yapılmalıdır.....

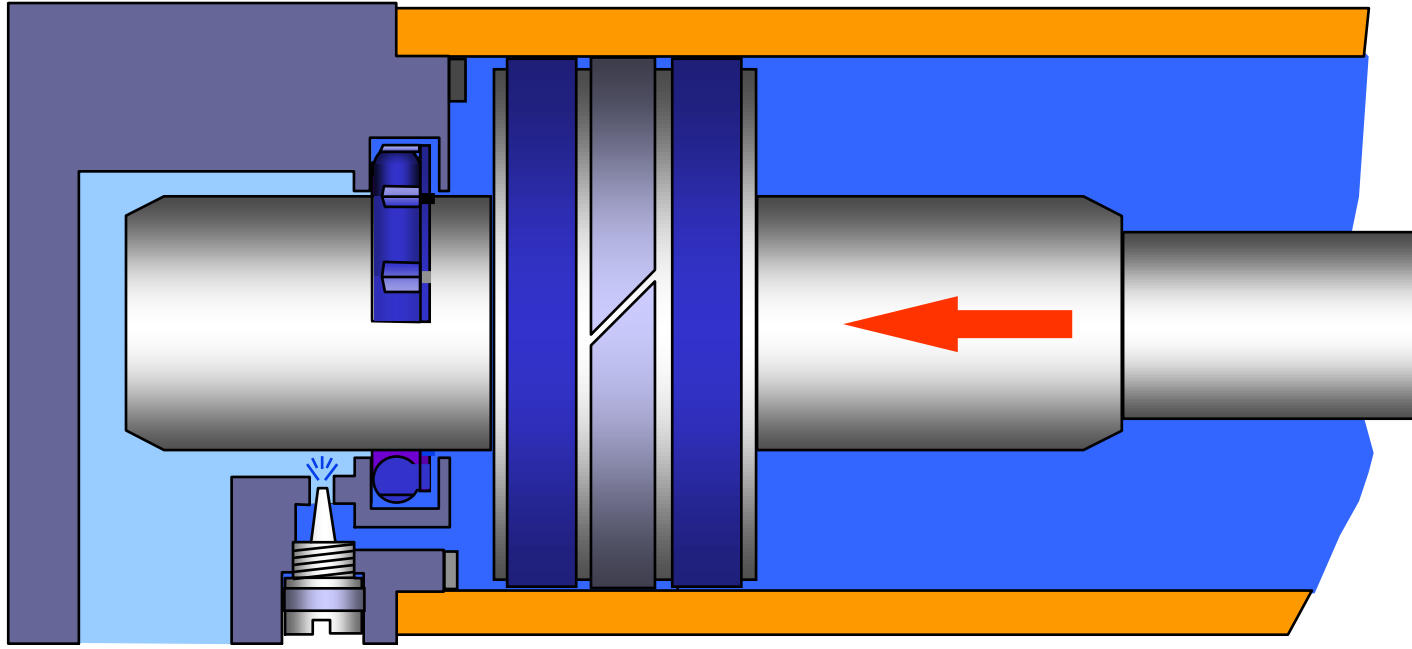


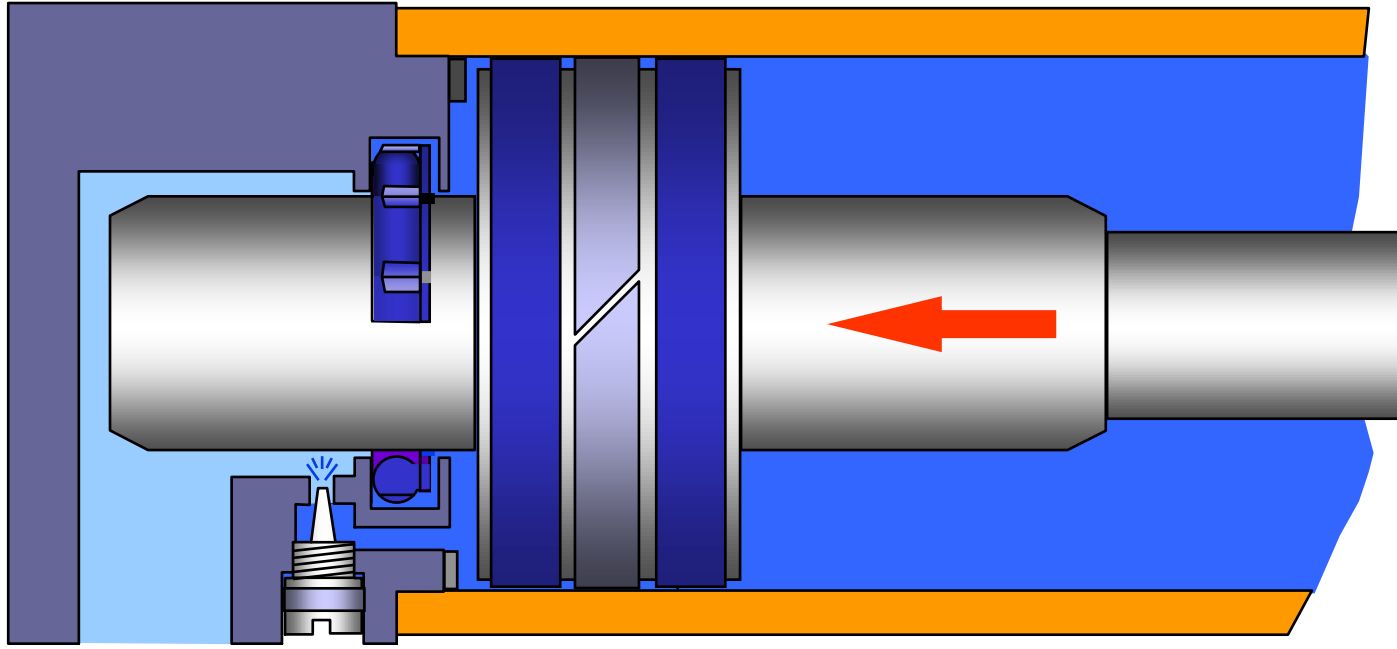


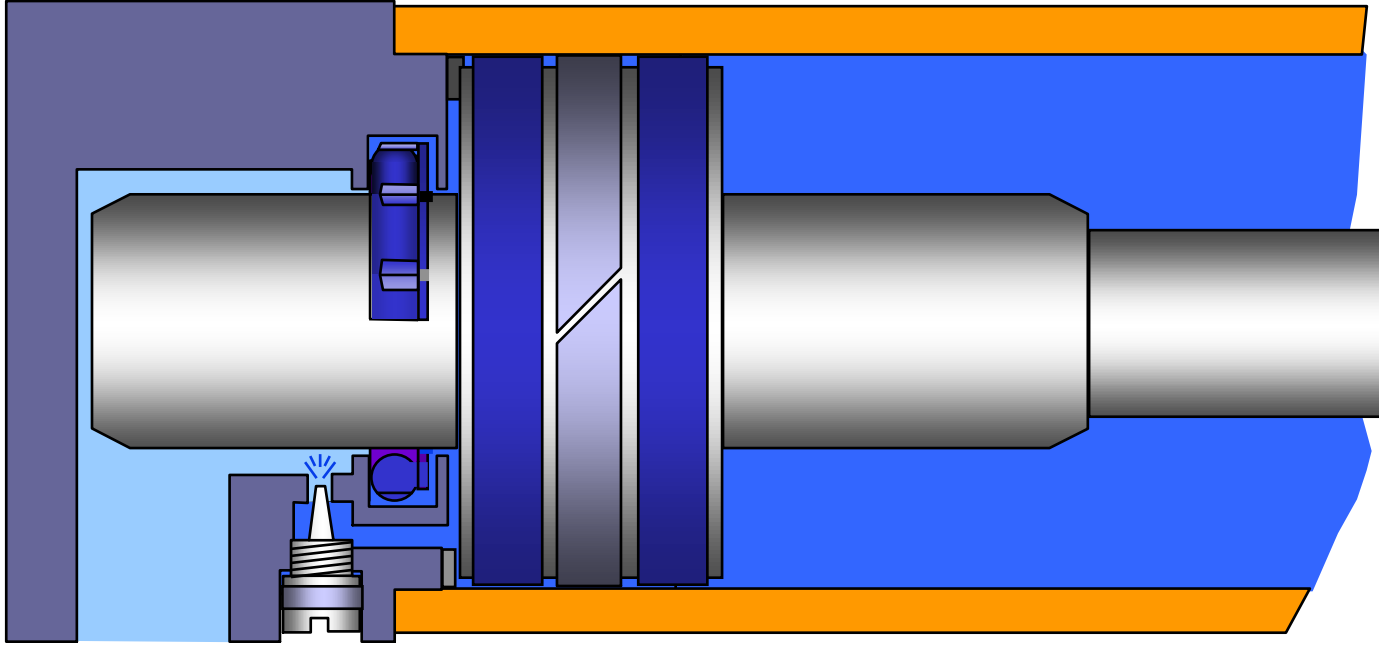


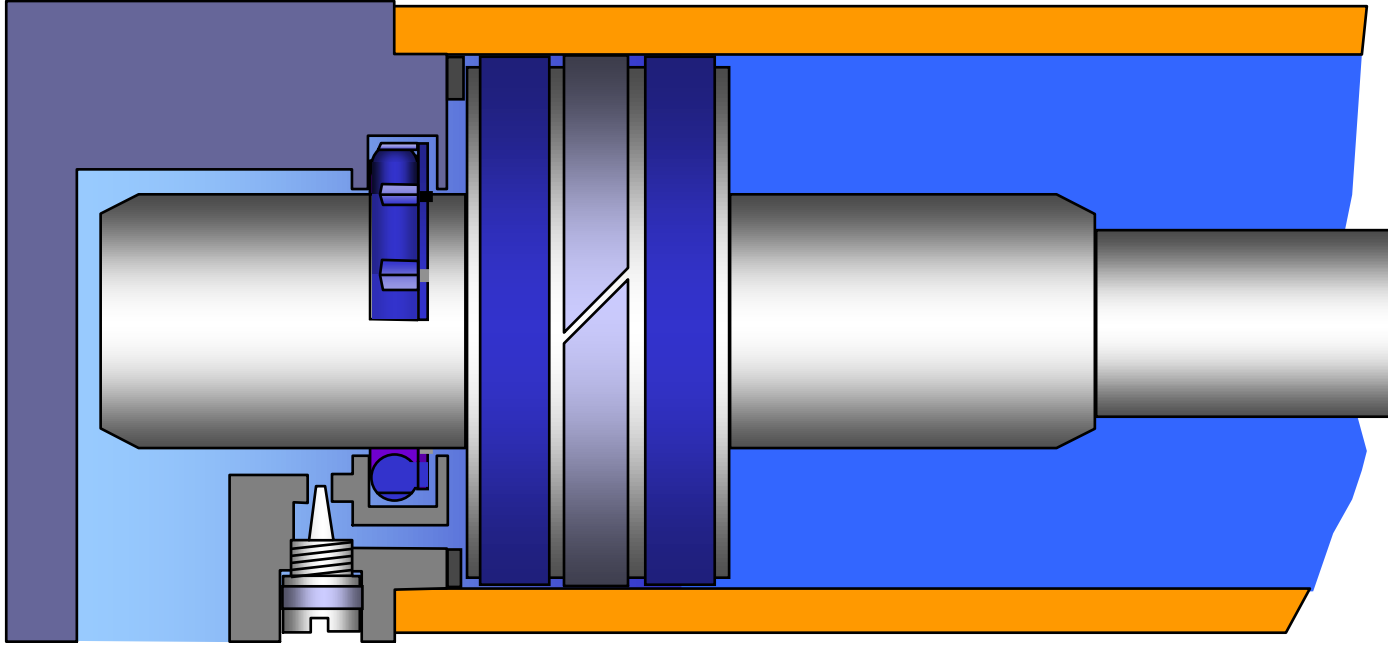


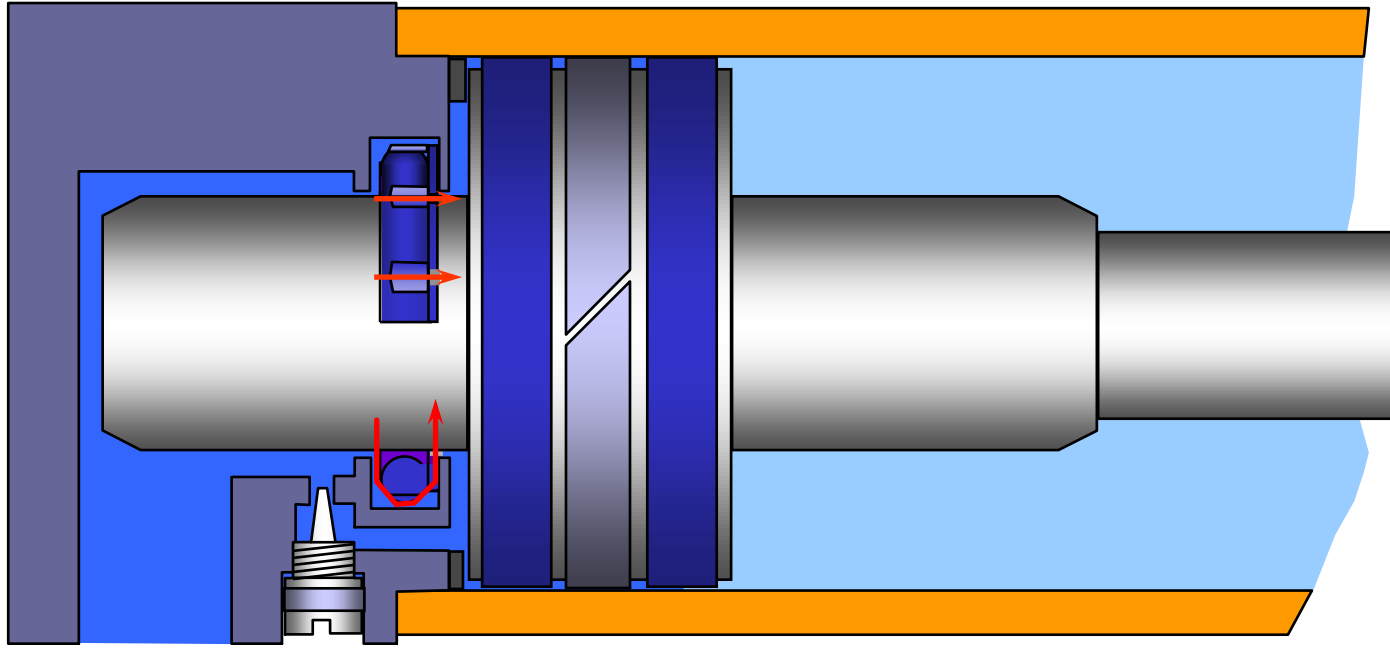


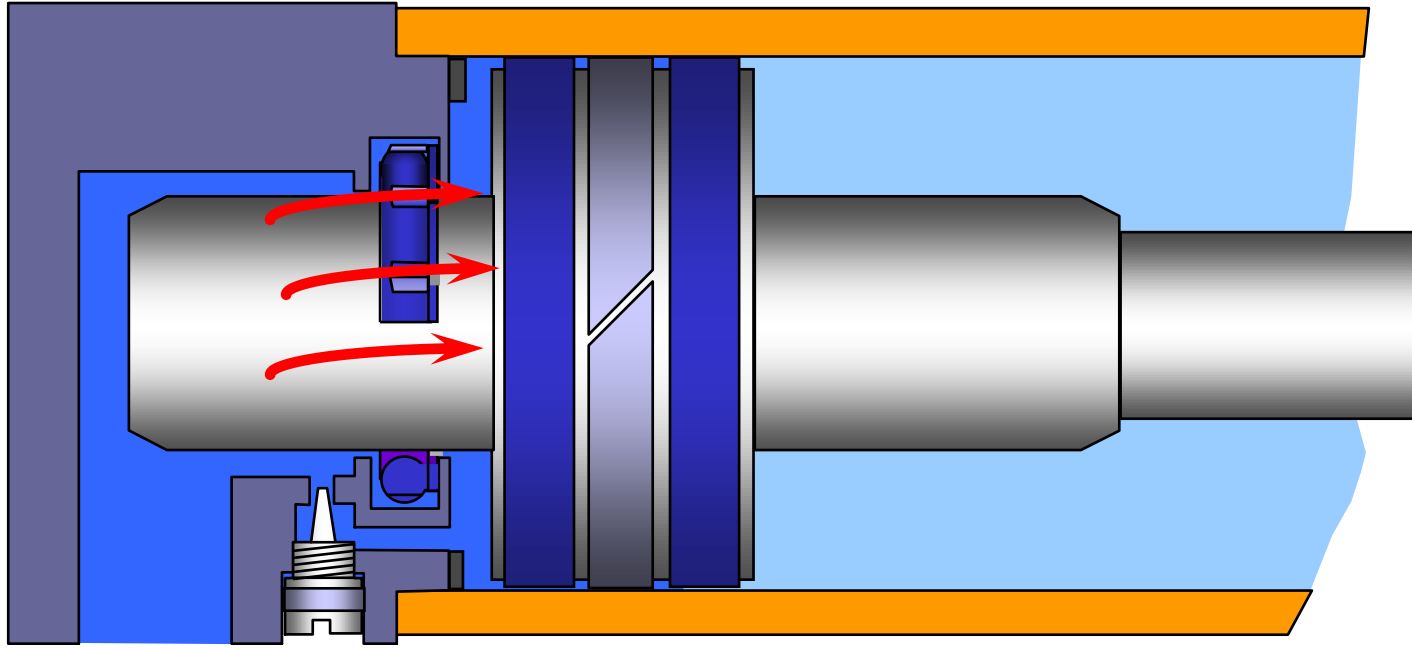


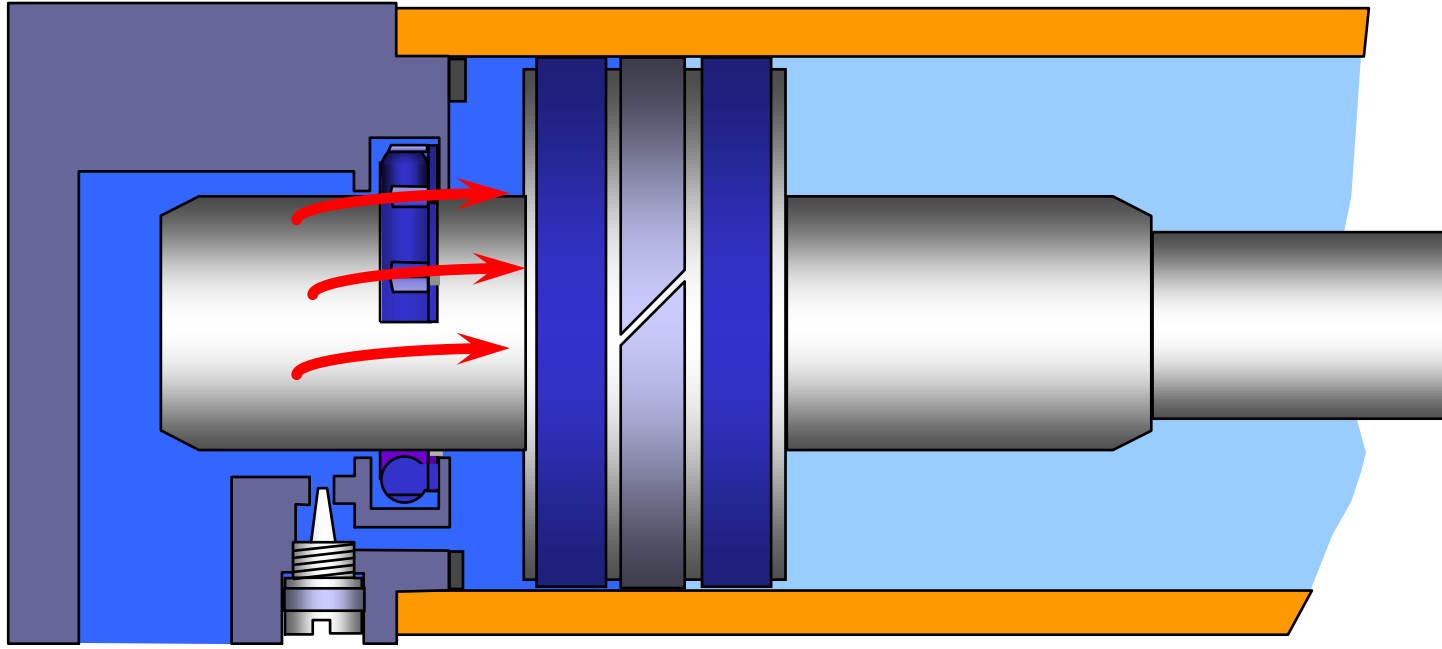


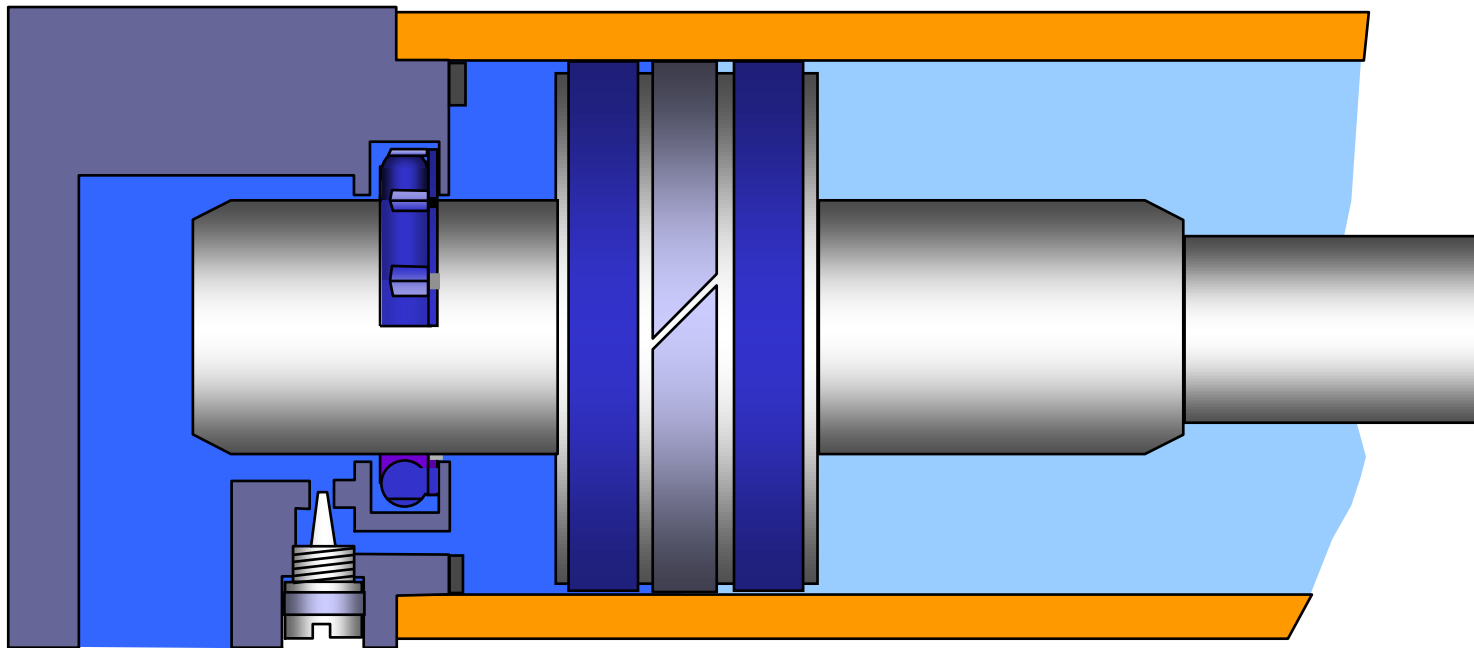


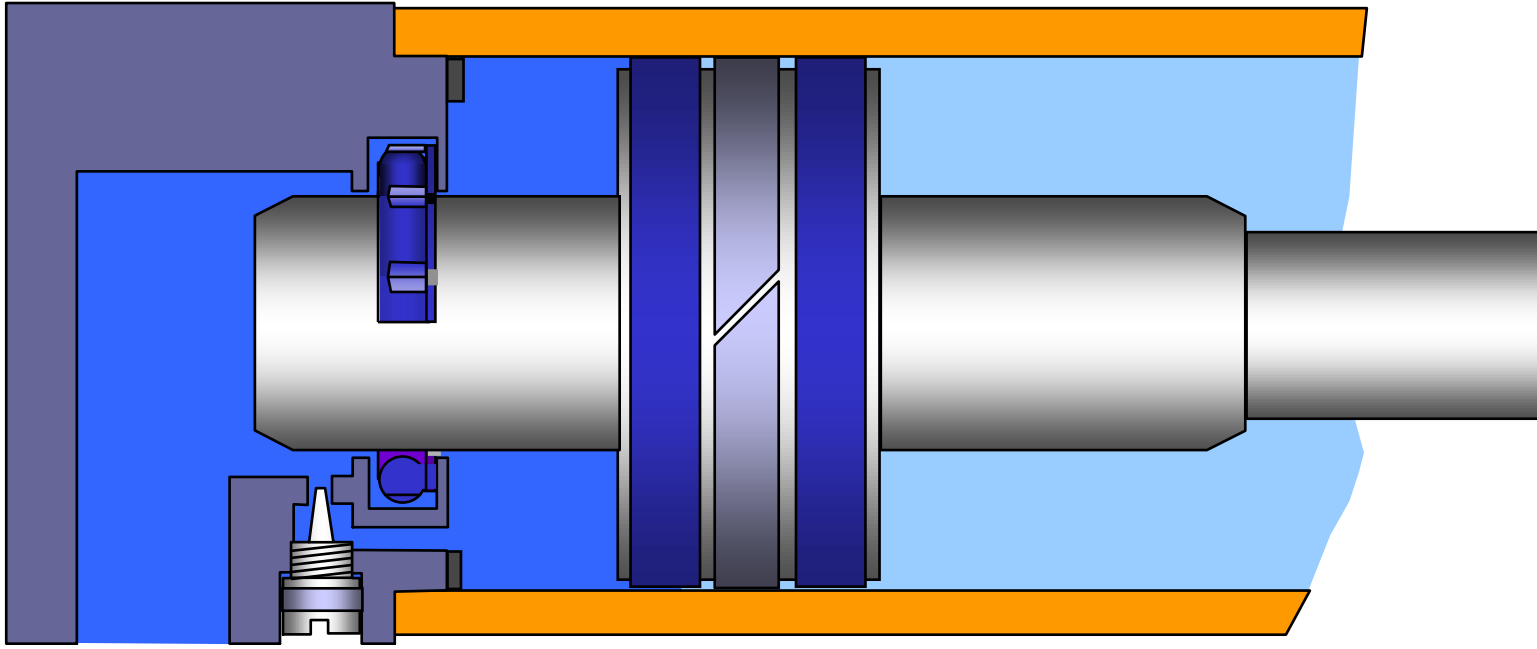


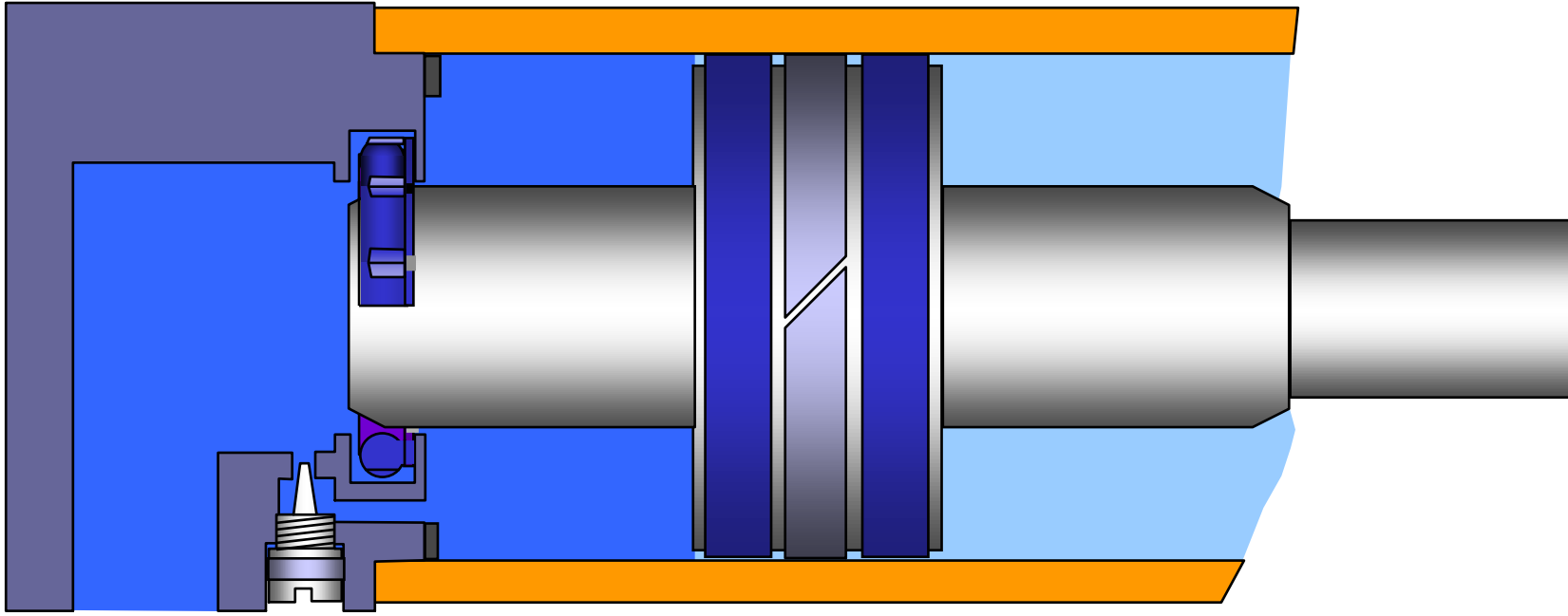


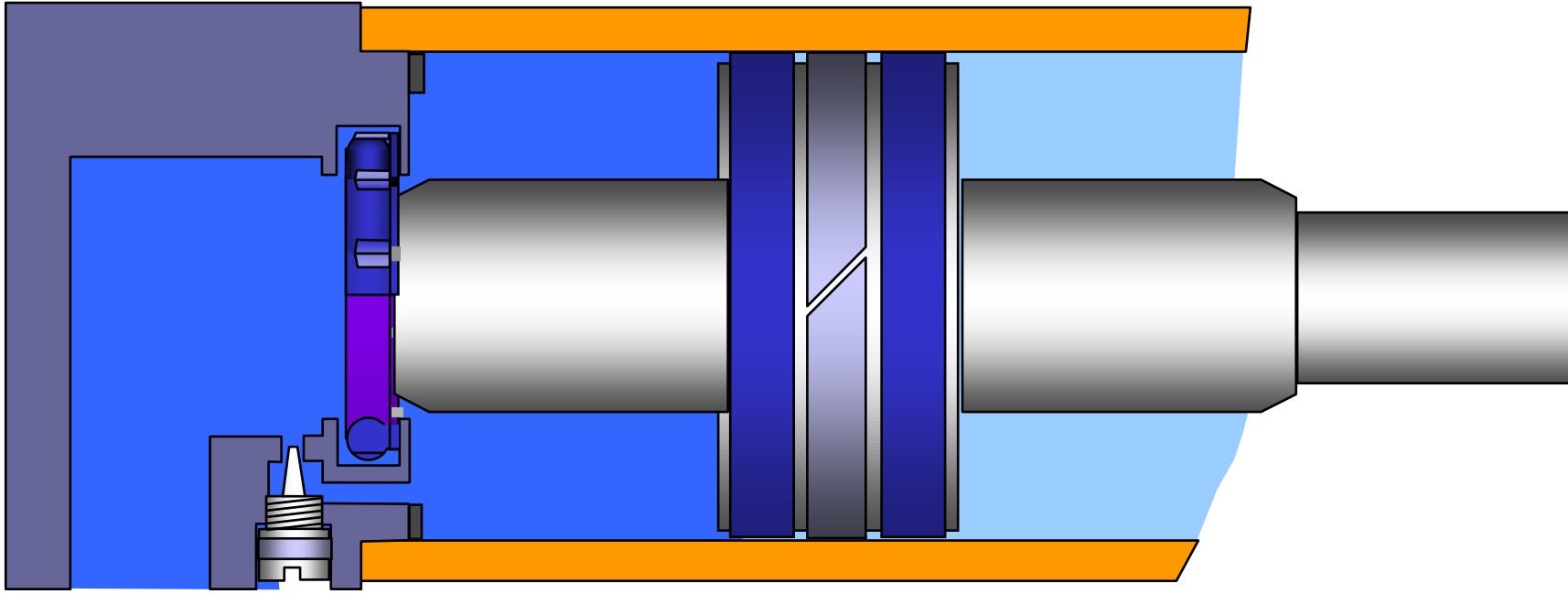












Silindir montajı sırasında silindir mil eksenine gelecek açısal kuvvetler elimine edilmelidir.

Mile gelebilecek açısal kuvvetler silindir ömrünü kısaltan en büyük etkindir.

Silindir ve miline gelebilecek beş değişik istenmeyen yük söz konusudur.

Silindirler

FESTO

CDN silindir



CRHD silindir



Silindirler

FESTO

DNCV silindir



DNCM silindir



Silindirler

FESTO

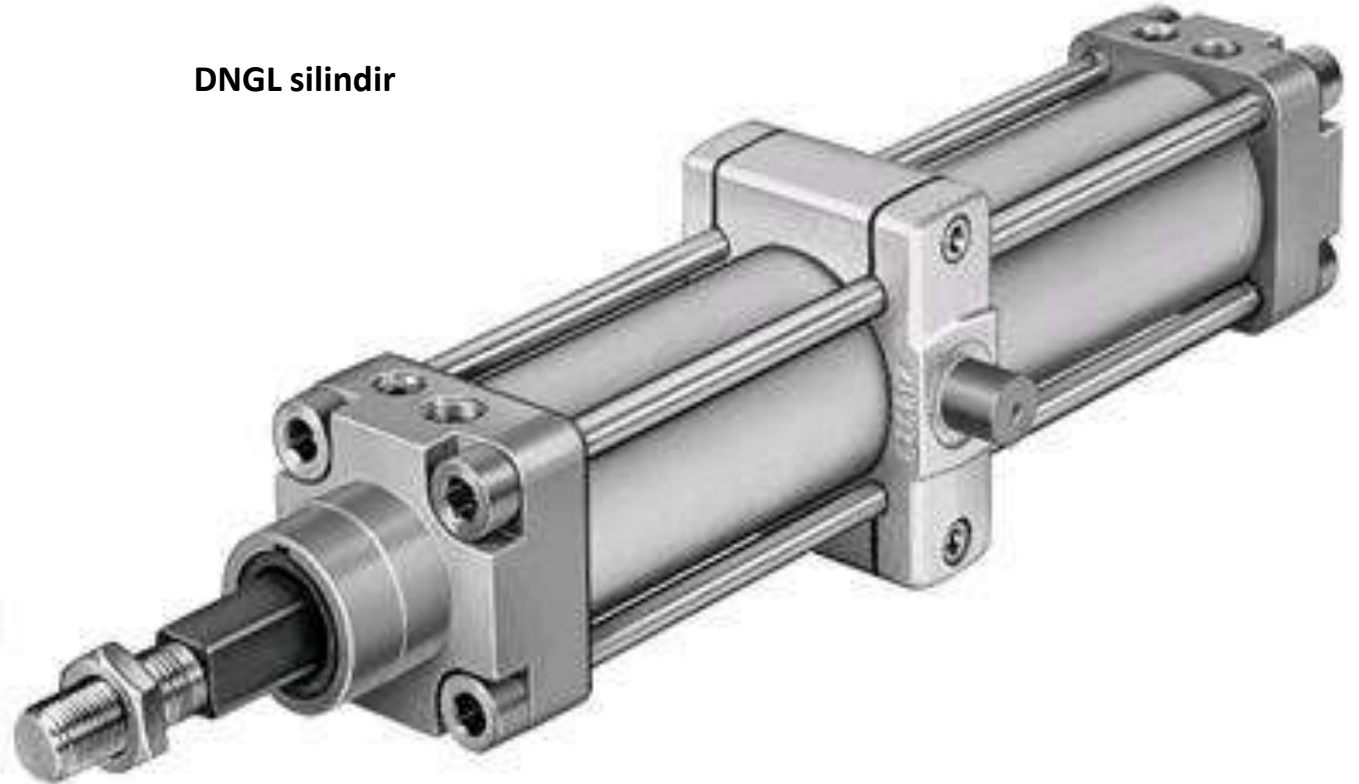
DSN silindir



DSNU silindir



DNGL silindir



DNC silindir



DFM silindir



EZH silindir



DGP silindir



DRQD silindir



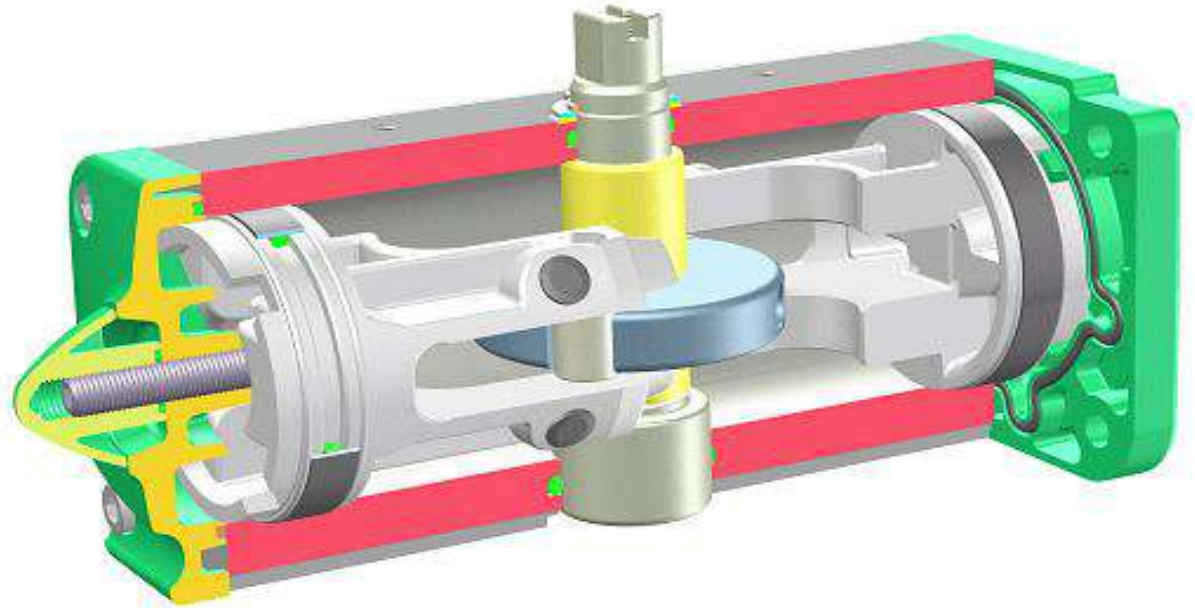
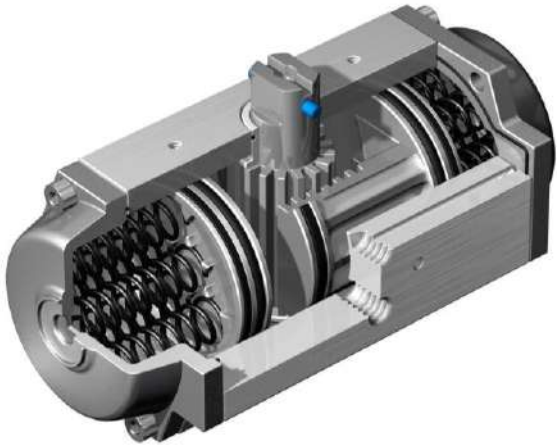
Silindirler

FESTO



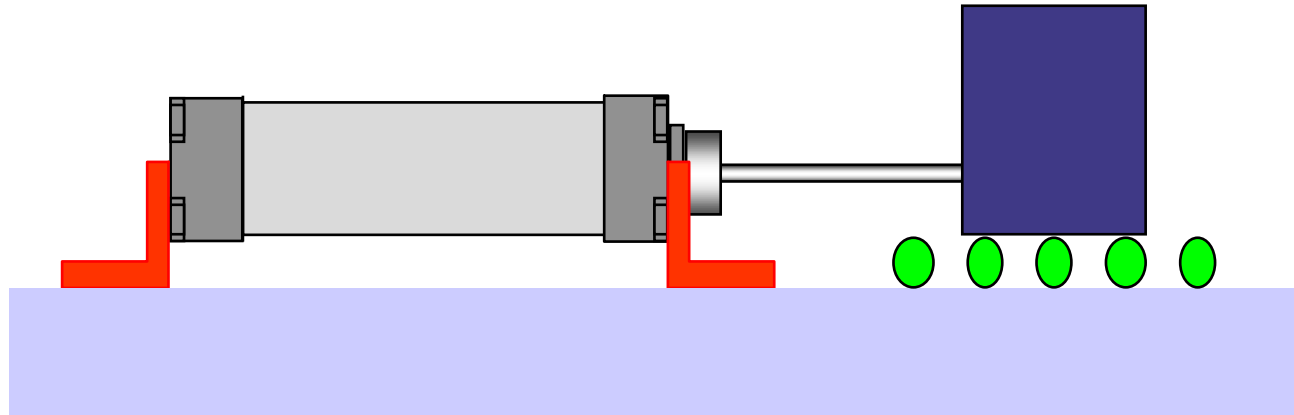
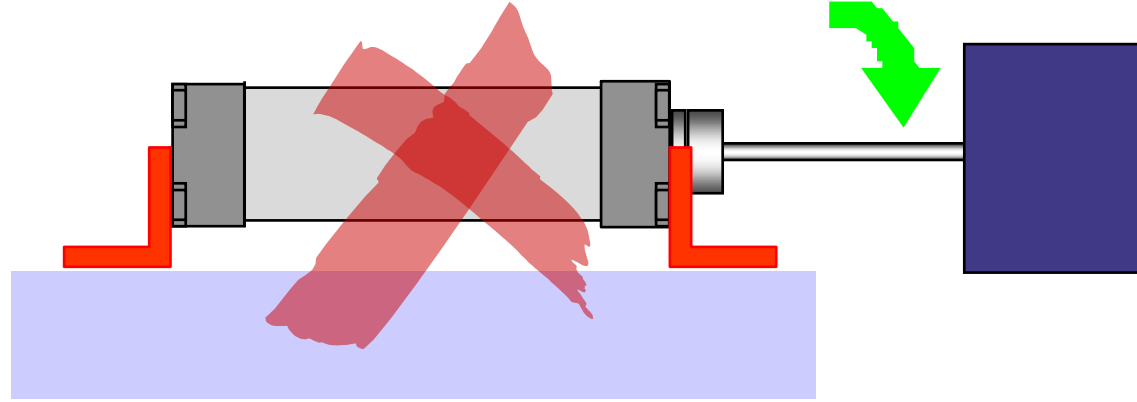
Silindirler

FESTO



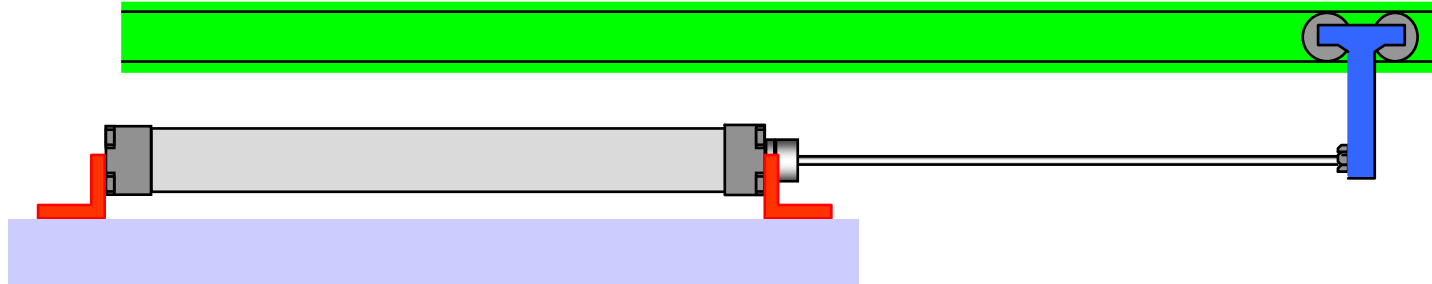
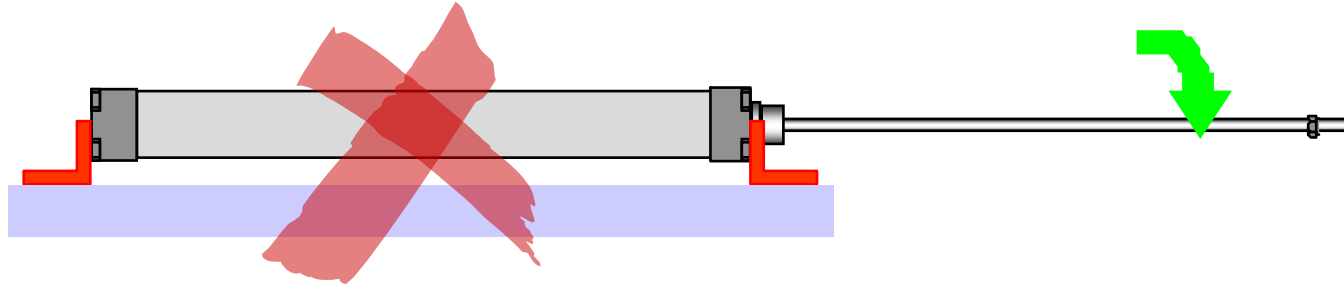
1. Mil Yüğü

FESTO

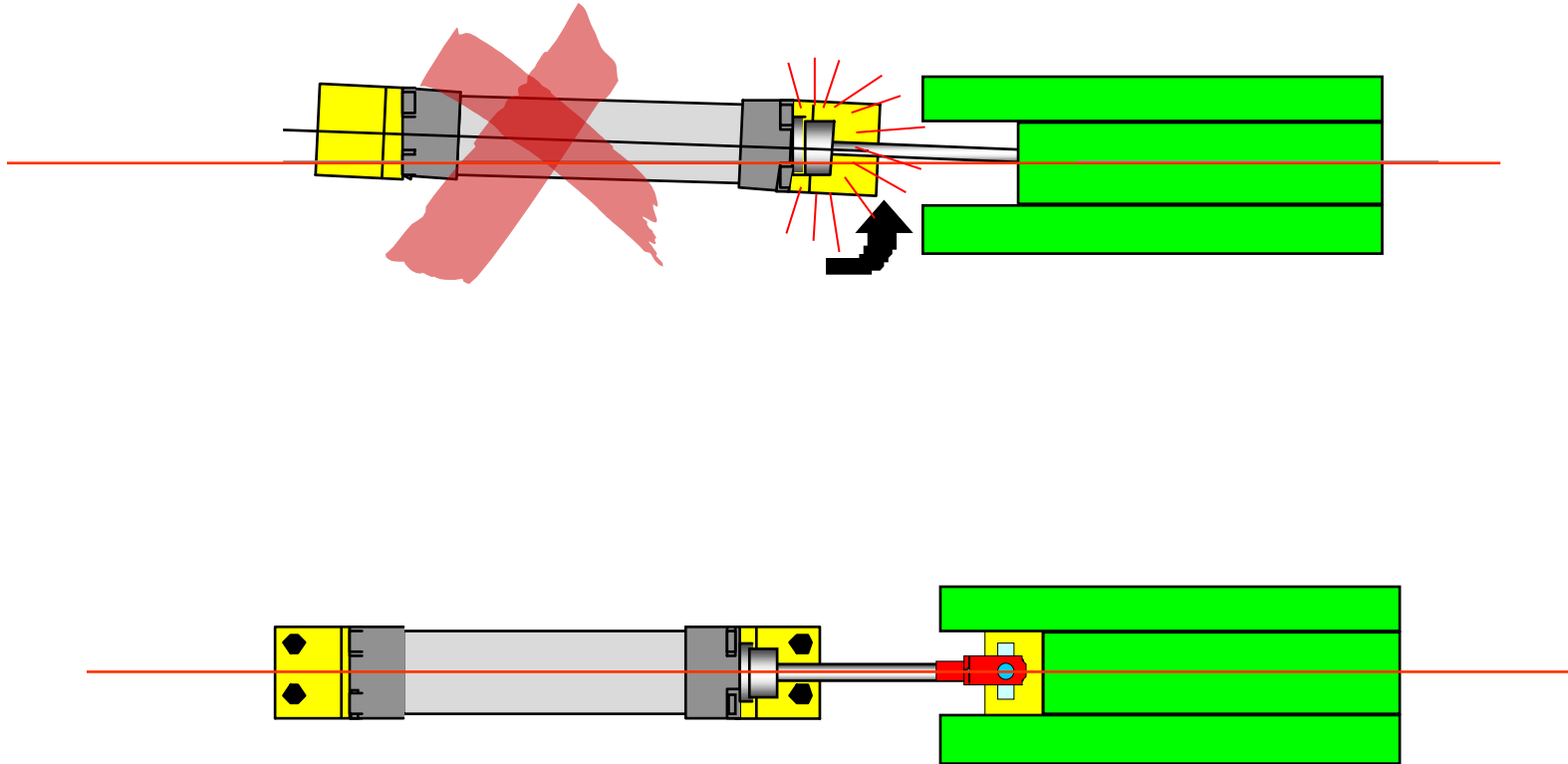


2. Uzun Mil

FESTO

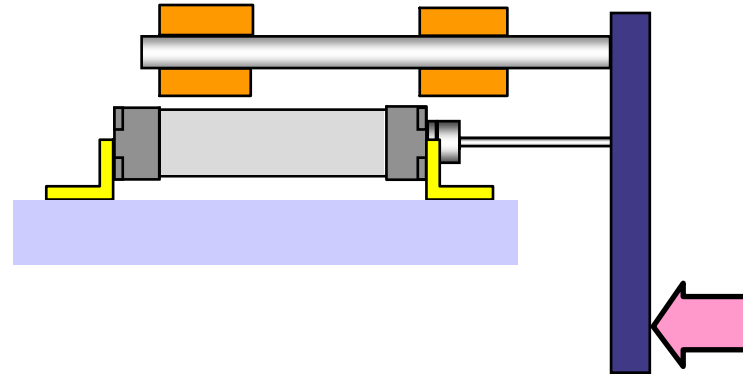
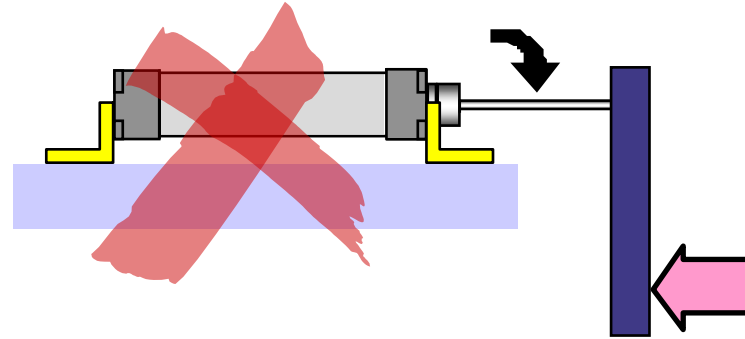


3. Kaçık eksen



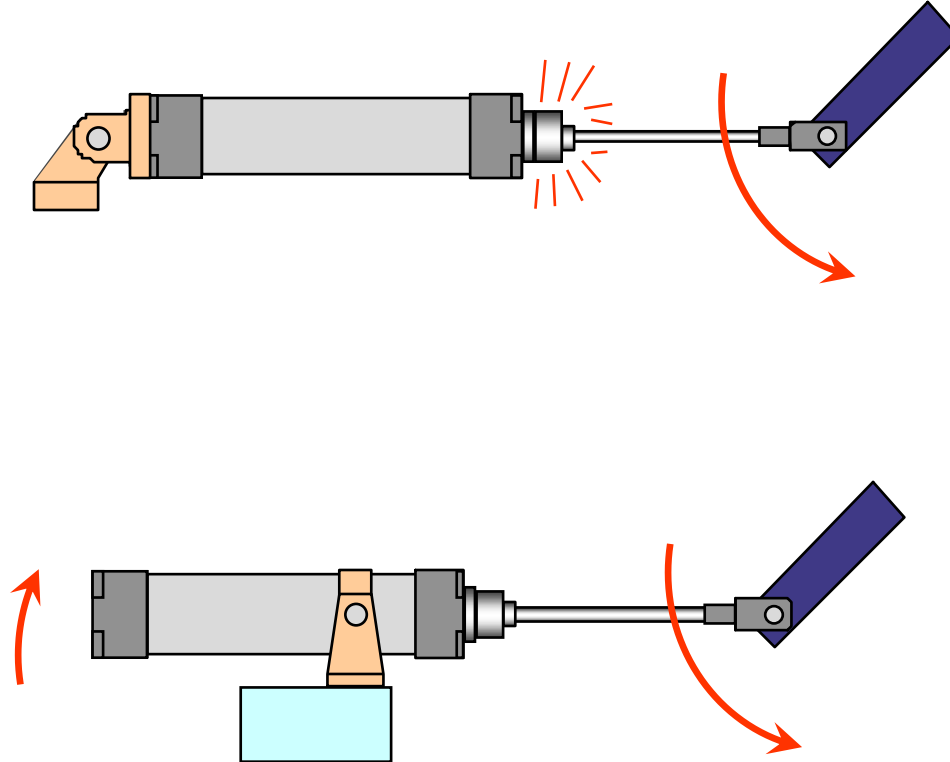
4. Ağırlık merkezi kaçık yük.

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5. Ağırlık merkezi kaçık mafsal.

FESTO





TEŞEKKÜRLER

