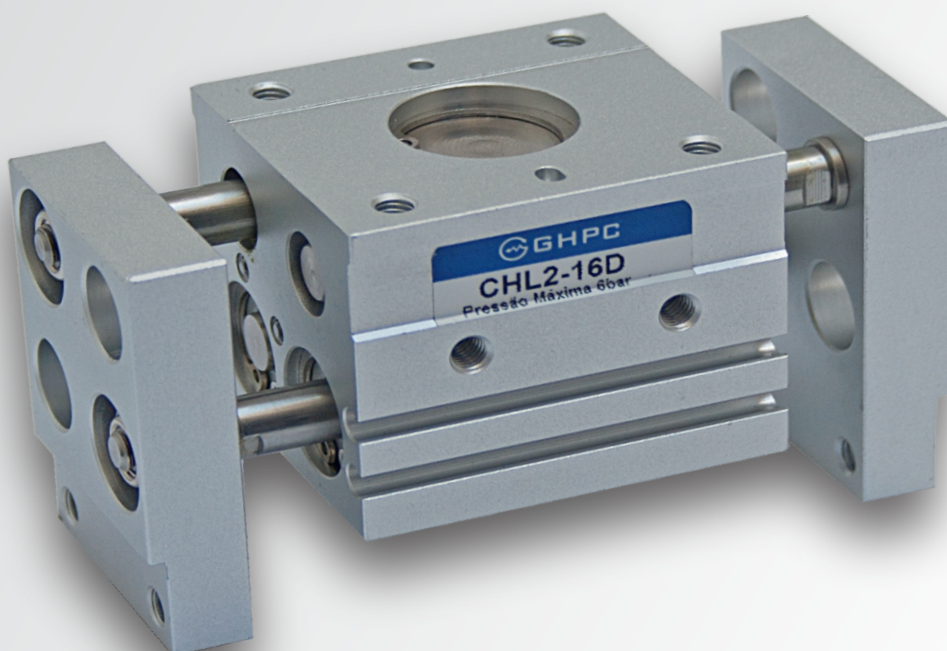
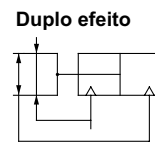
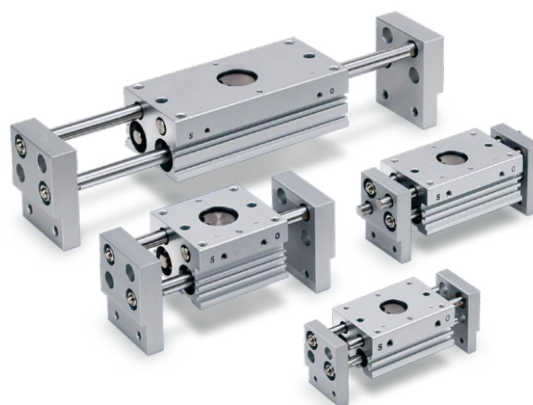


Garra Paralela Guiada de 2 Dedos *Série CHL2*



Vantagens

- Alta Precisão
- Grande robustez e força de aperto
- Curso Longo
- Disponível nos
Ø10, 16, 20, 25, 32, 40mm

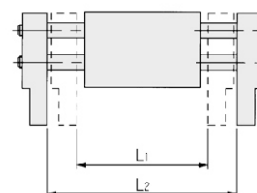


Características Técnicas

Ø (mm)	10	16	20	25	32	40
Fluído	Ar Comprimido					
Atuação	Dupla Ação					
Pressão de Trabalho (Bar)	1.5 ~ 6 Bar	1 ~ 6 Bar				
Temperatura de Trabalho	-10 ~ 60 °C					
Repetibilidade	± 0.1 mm					
Lubrificação	Não Requer *					
Força de Retenção Efetiva (N) à 5 Bar	14	45	74	131	228	396

* Não requer Lubrificação, porém uma vez lubrificado terá que se manter a lubrificação, óleo VG-32.

MODELO	Ø (mm)	Máx. operação por minuto c.p.m	Curso Abertura / Fechamento (L2-L1)	Garra Fechada (mm) (L1)	Garra Aberta (mm) (L2)	Peso (G)
CHL2-10D	10	60	20	56	76	280
CHL2-10D1		40	40	78	118	345
CHL2-10D2			60	96	156	425
CHL2-16D	16	60	30	68	98	585
CHL2-16D1		40	60	110	170	795
CHL2-16D2			80	130	210	935
CHL2-20D	20	60	40	82	122	1025
CHL2-20D1		40	80	142	222	1495
CHL2-20D2			100	162	262	1690
CHL2-25D	25	60	50	100	150	1690
CHL2-25D1		40	100	182	282	2560
CHL2-25D2			120	200	320	2775
CHL2-32D	32	30	70	150	220	2905
CHL2-32D1		20	120	198	318	3820
CHL2-32D2			160	242	402	4655
CHL2-40D	40	30	100	188	288	5270
CHL2-40D1		20	160	246	406	6830
CHL2-40D2			200	286	486	7905



Nota: Os intervalos de tempo de abertura e fechamento representam o valor quando o exterior da peça está a ser retido.

Codificação

CHL 2 -			D	
		Dupla Ação		
		Abertura		
Diâmetro				
10	10mm	-	Básico	
16	16mm	1	Médio	
20	20mm	2	Longo	
25	25mm			
32	32mm			
40	40mm			

Exemplo:

CHL2-10D - Garra paralela guiada, Ø10mm, dupla ação, abertura básica

CHL2-25D2 - Garra paralela guiada, Ø25mm, dupla ação, Abertura Longa

Sensor Aplicável



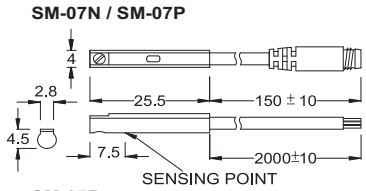
SM-07

Tipo	
R	Reed (2 fios)
P	PNP (3 fios)
N	NPN (3 fios)

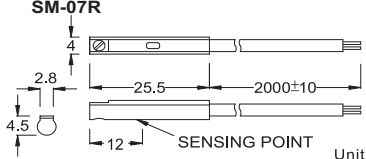
Cabo	
2M	2 metros
M8	Conector M8

Exemplo: SM-07P-M8
SM-07N-2M

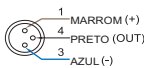
SM-07N / SM-07P



SM-07R



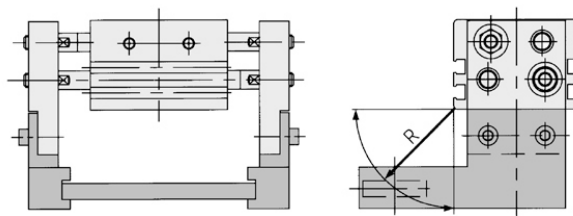
Unit:mm



Kit de Reparo		
Ø da Garra	Código	Compõe o kit
10	KR-CHL2-10	Vedações do êmbolo Vedações da haste.
16	KR-CHL2-16	
20	KR-CHL2-20	
25	KR-CHL2-25	
32	KR-CHL2-32	
40	KR-CHL2-40	

Distância do ponto de Retenção

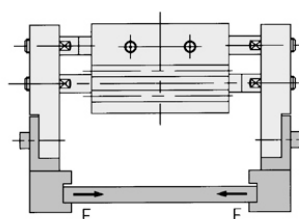
Certifique-se de que a distância do ponto de aperto da carga se situa dentro da margem das curvas de força de aperto indicada por cada pressão do gráfico de força de aperto efetiva.



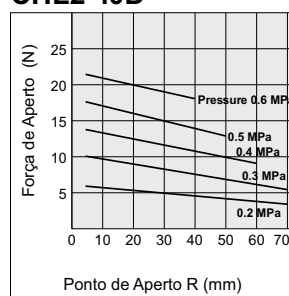
R: posição de Retenção (mm)

Força de retenção efetiva

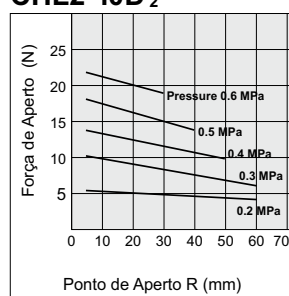
- **Indiscação da força de retenção efetiva.**
A força de retenção indicada nas tabelas abaixo representam a força de retenção de um dedo quando todos os dedos da garra estão em contato com a carga. **F = força de um dedo.**



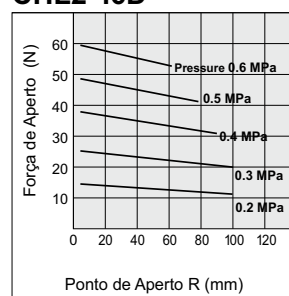
CHL2-10D



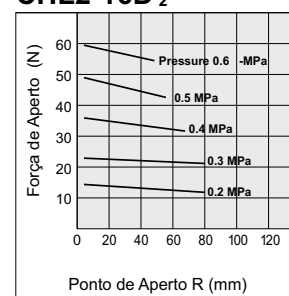
CHL2-10D_{1/2}



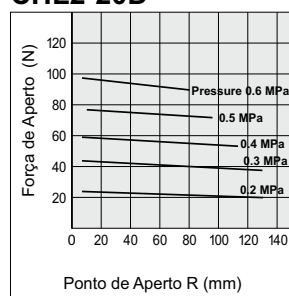
CHL2-16D



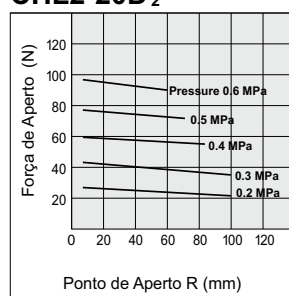
CHL2-16D_{1/2}



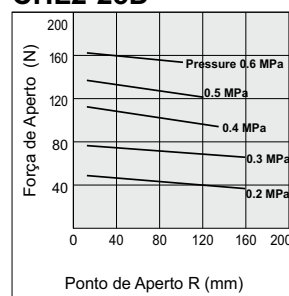
CHL2-20D



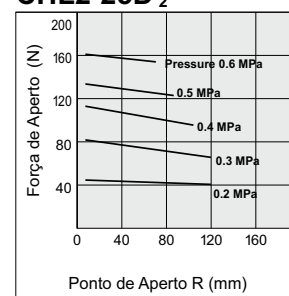
CHL2-20D_{1/2}



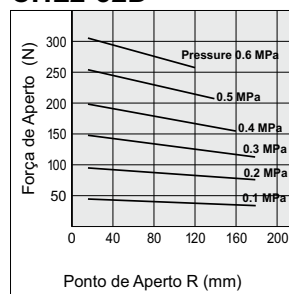
CHL2-25D



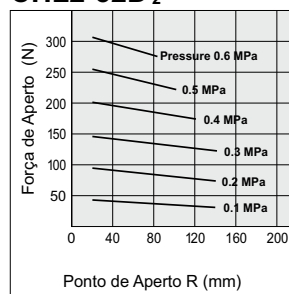
CHL2-25D_{1/2}



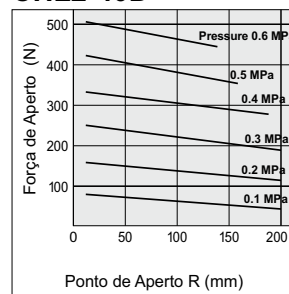
CHL2-32D



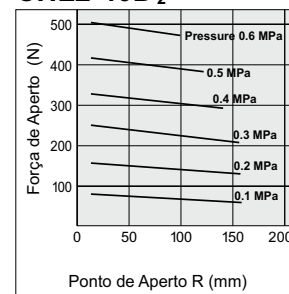
CHL2-32D_{1/2}

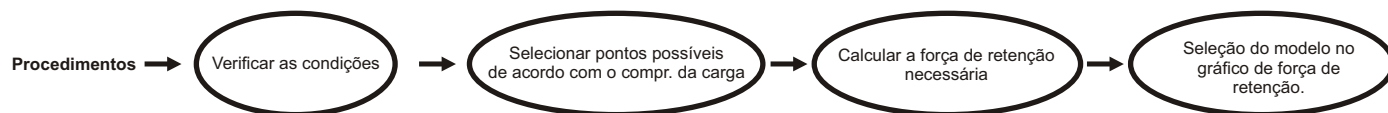


CHL2-40D



CHL2-40D_{1/2}

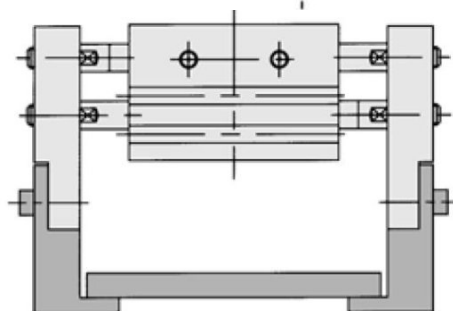




Peso da carga: 0.3 Kg

Formato da carga
Diâmetro: 200mm
Comprimento: 20mm

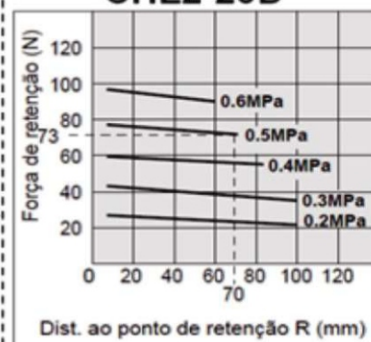
Abertura: 28 ou mais
Selecione um modelo que possa criar uma força de retenção de 10 a 20 vezes maior que o peso da carga.



Para definir a força de retenção como pelo menos 20 vezes maior que o peso da carga:

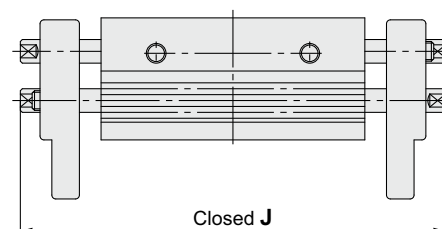
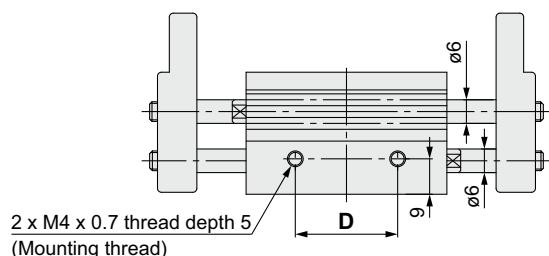
$$\text{Força necessária} = 0.3\text{kg} \times 9.8\text{m/s}^2 = 58.8\text{N}$$

CHL2-20D



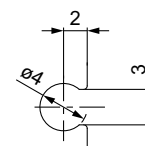
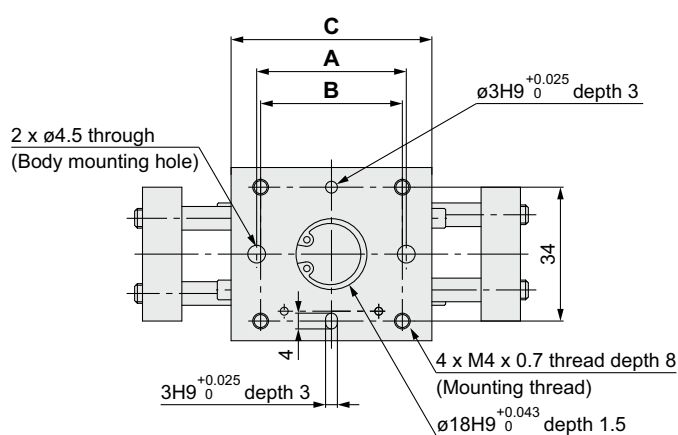
Nota: Se não for totalmente necessário posicionar a carga e se a garra pneumática for utilizada para prender apenas a carga nos dedos, é possível deslocar uma carga que tenha um peso proporcional à força de aperto.

Dimensional CHL2-10

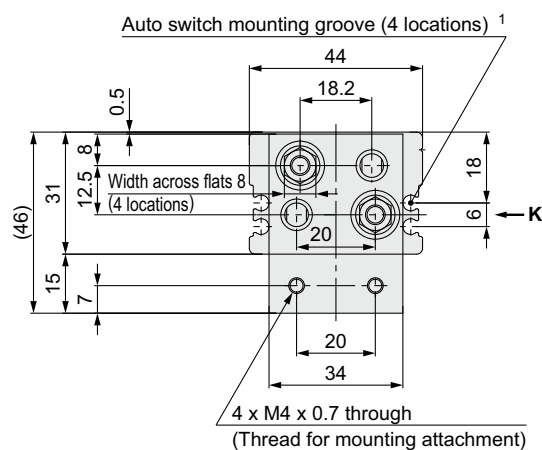
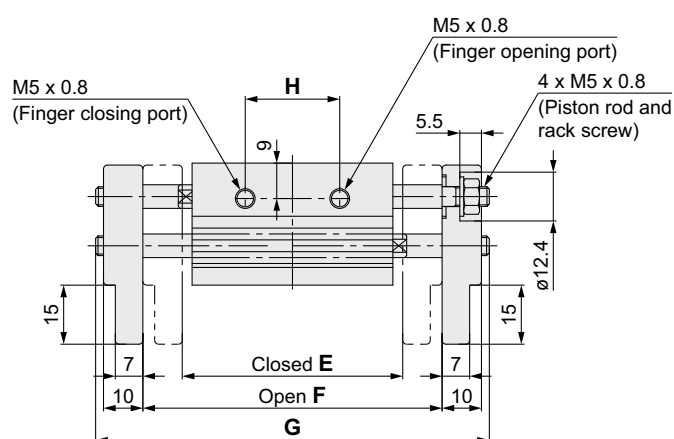


View K (Fingers closed)

A figura acima mostra a CHL2-10D1/CHL2-10D2.

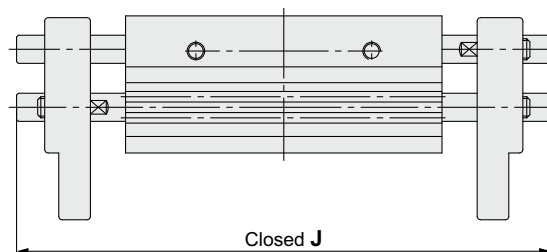
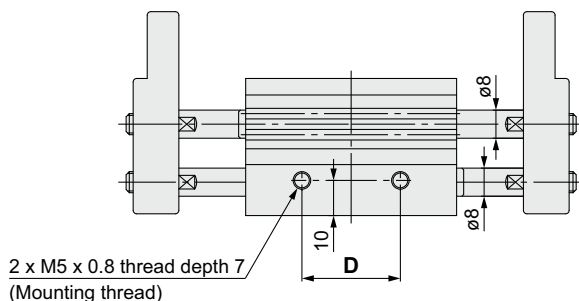


1 Dimensions of auto switch mounting groove (Enlarged view)



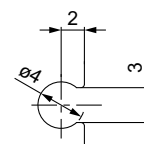
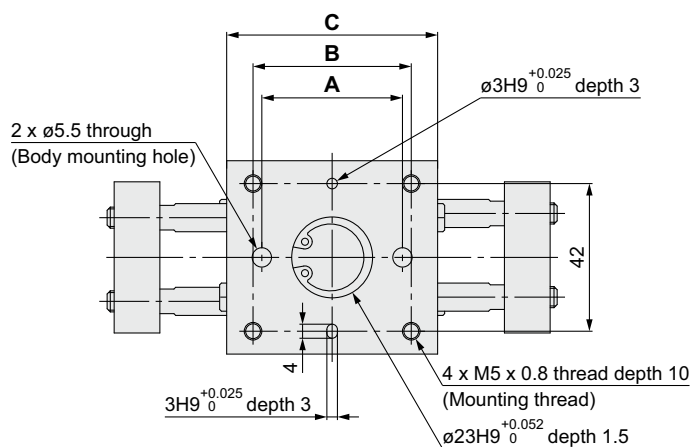
Modelo	A	B	C	D	E	F	G	H	J
CHL2-10DZ	38	36	51	26	56	76	100	24	80
CHL2-10D1Z	54	52	67	42	78	118	142	39	108
CHL2-10D2Z	72	70	85	60	96	156	180	57	146

Dimensional CHL2-16

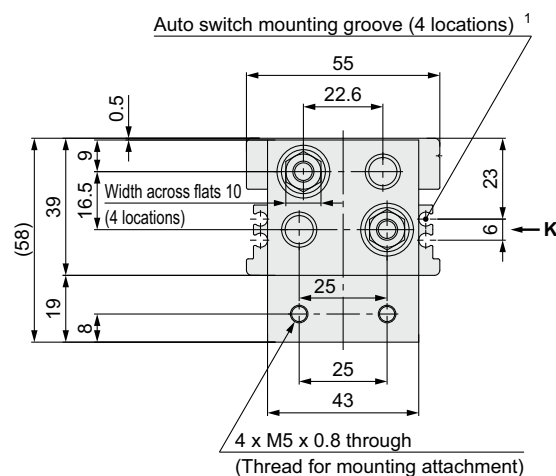
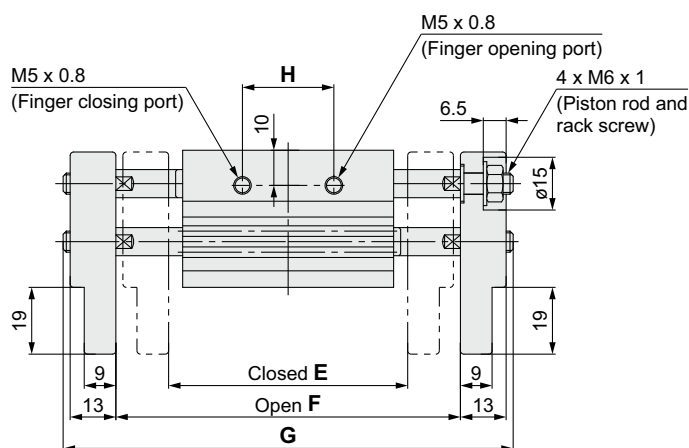


View K (Fingers closed)

A figura acima mostra a CHL2-16D1/CHL2-16D2.

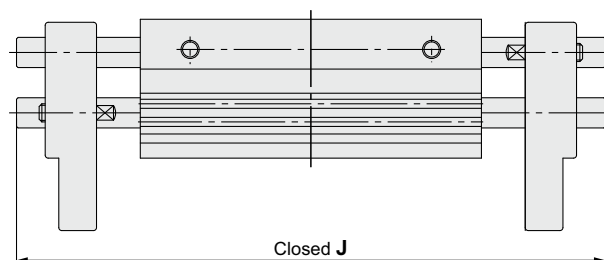
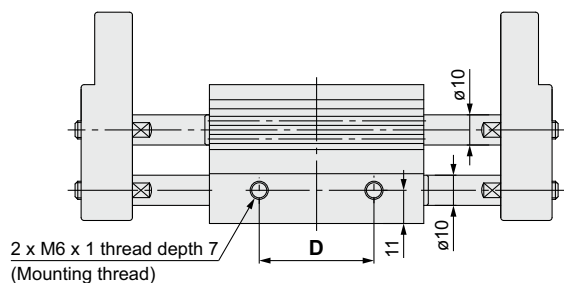


1 Dimensions of auto switch mounting groove (Enlarged view)



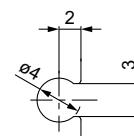
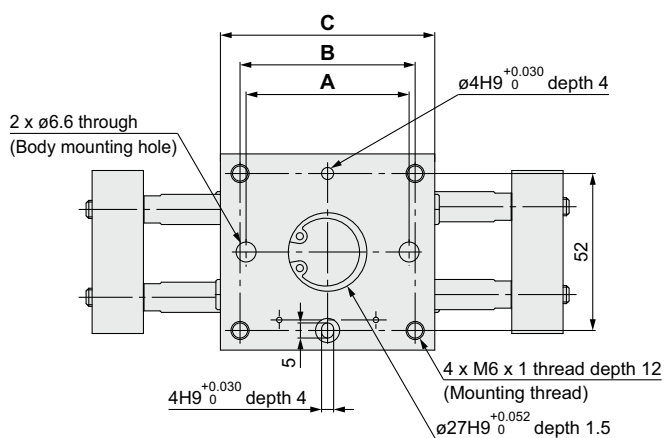
Modelo	A	B	C	D	E	F	G	H	J
CHL2-16DZ	40	45	60	28	68	98	128	26	98
CHL2-16D1Z	70	75	90	58	110	170	200	50	152
CHL2-16D2Z	90	95	110	78	130	210	240	70	192

Dimensional CHL2-20

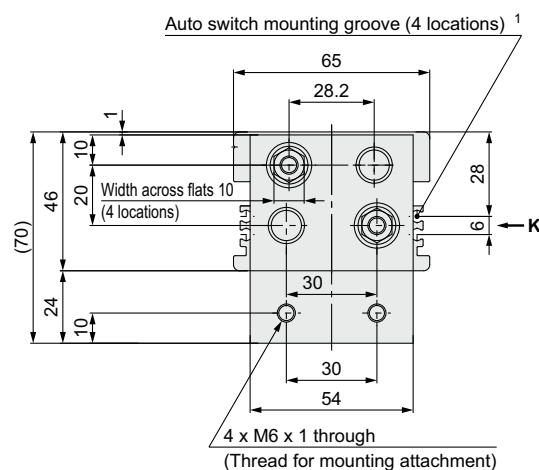
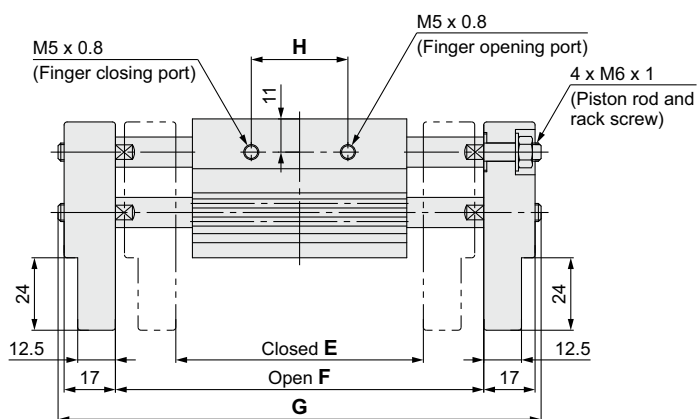


View K (Fingers closed)

A figura acima mostra a CHL2-20D1/CHL2-20D2.



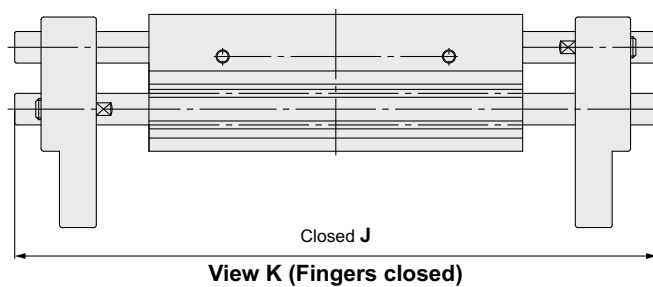
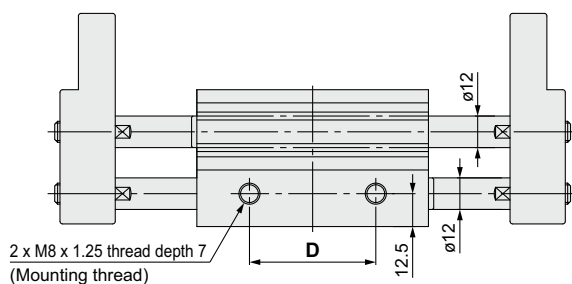
1 Dimensions of auto switch mounting groove (Enlarged view)



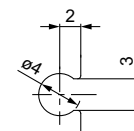
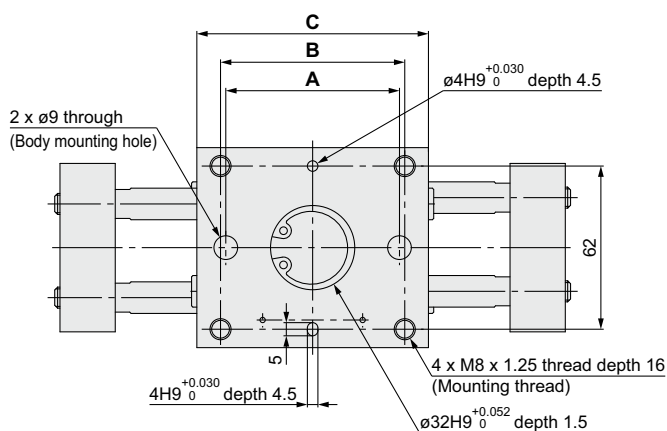
Modelo	A	B	C	D	E	F	G	H	J
CHL2-20D	54	58	71	38	82	122	160	32	120
CHL2-20D1	96	100	113	80	142	222	260	68	195
CHL2-20D2	116	120	133	100	162	262	300	88	235

Dimensional

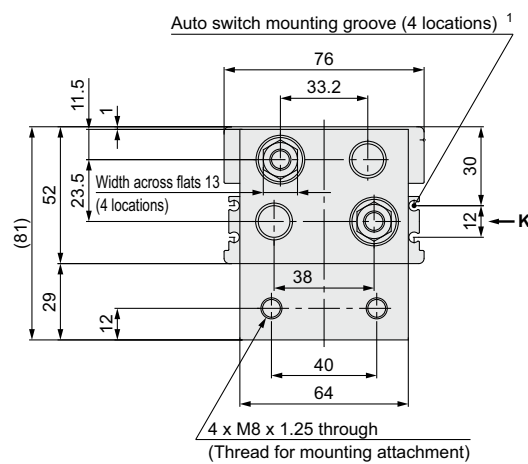
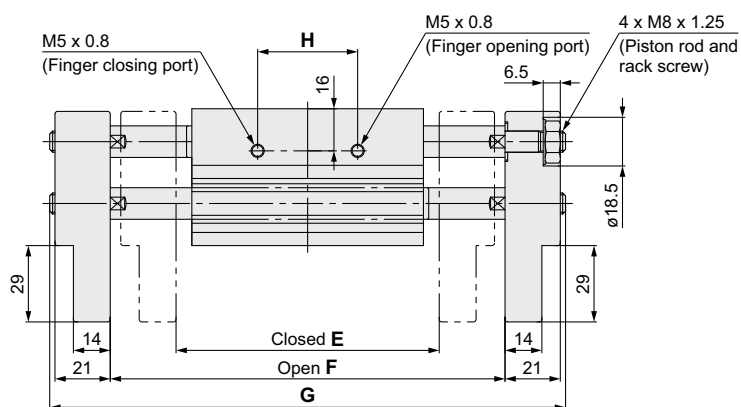
• CHL2-25



The above figure shows the MHL2-25D1Z/25D2Z.



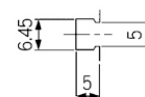
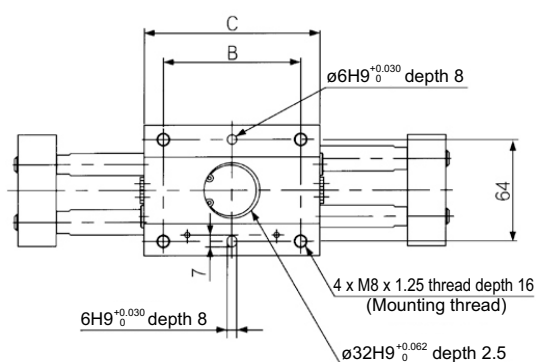
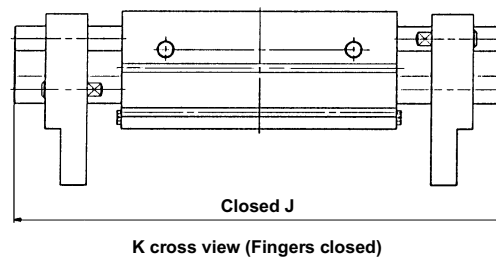
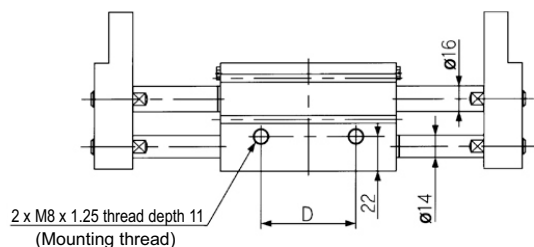
1 Dimensions of auto switch mounting groove (Enlarged view)



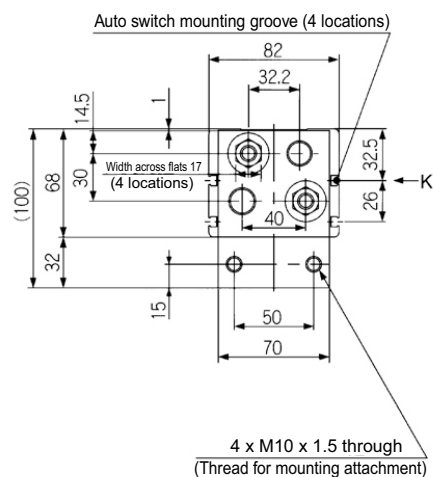
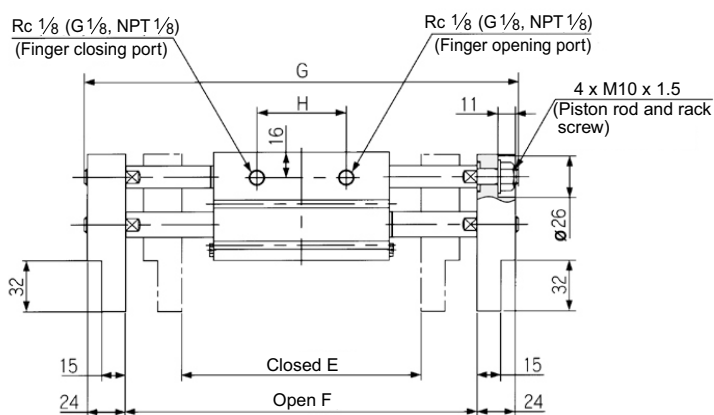
Modelo	A	B	C	D	E	F	G	H	J
CHL2-25D	66	70	88	48	100	150	196	38	146
CHL2-25D1	120	124	142	102	182	282	328	86	244
CHL2-25D2	138	142	160	120	200	320	366	104	282

Dimensional

• CHL2-32



Dimensions of auto switch mounting groove (Enlarged view)



(mm)

Modelo	B	C	D	E	F	G	H	J
CHL2-32D	86	110	60	150	220	272	56	202
CHL2-32D1	134	158	108	198	318	370	104	282
CHL2-32D2	178	202	152	242	402	454	148	366

Nota 1) J é referente à peça totalmente fechada

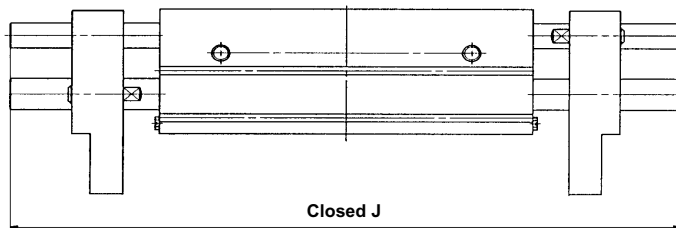
Nota 2) D1 é diferente de D2 no dedo fechado porque o eixo é ejetado do final do dedo.

Nota 3) Medidas G e J é referente às extremidades das hastes, e não da face do cabeçote.

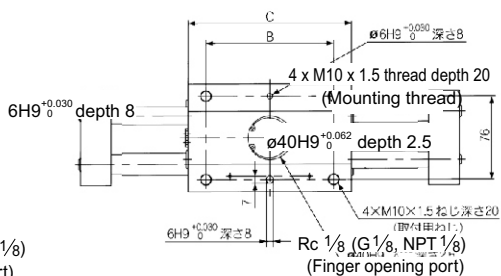
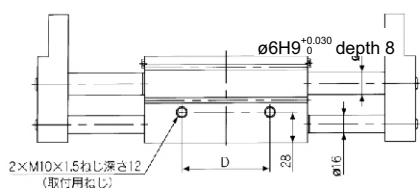
Dimensional

- **CHL2-40**

2 x M10 x 1.5 thread depth 12
(Mounting thread)

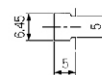
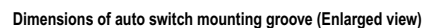


K cross view (Fingers closed)

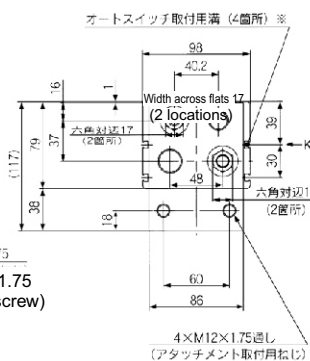
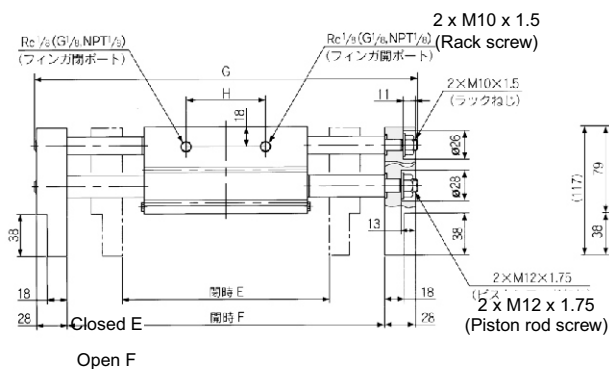


Rc 1/8 (G 1/8, NPT 1/8)
(Finger closing port)

Rc 1/8 (G1/8, NPT 1/8)
(Finger opening port)



※オートスイッチ用 Auto switch mounting groove (4 locations)



Width across flats 19
(2 locations)

4 x M12 x 1.75 through
(Thread for mounting attachment)

(mm)

Model	B	C	D	E	F	G	H	J
CHL2-40D	116	148	80	188	288	348	72	252
CHL2-40D1	174	206	138	246	406	466	130	370
CHL2-40D2	214	246	178	286	486	546	170	450

Note 1) J dimension is at fully closed.

Note 2) D1 is different from D2 at finger closed because shaft is ejected from finger end. J dimension is different from the value which is subtracted stroke from G dimension.



Precauções

- Certifique-se de verificar o Atuador por completo antes da instalação.
- As aplicações precisam ser tratadas com cuidado e atenção quanto à pressões máximas e mínimas, fluxo requerido, materiais de construção, compatibilidade química, função e tamanho à ser utilizado.
- Garantir o pleno funcionamento do sistema de tratamento de ar, prolongando assim, a vida útil dos produtos.
- Garantir a total limpeza dos tubos e conexões antes de serem conectados ao atuador.
- Não exceder a pressão máxima de trabalho, afim de evitar danos ao produto, máquina e até mesmo ao operador.