

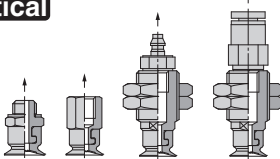
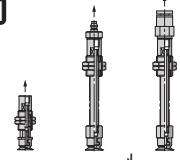
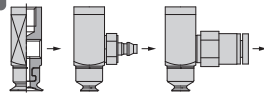
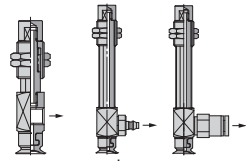
Ventosa de vácuo

Série ZP3

Ø1,5, Ø2, Ø3,5, Ø4, Ø6, Ø8, Ø10, Ø13, Ø16

RoHS

Tipo	Diâmetro da ventosa									Material	Página
	Ø1.5	Ø2	Ø3,5	Ø4	Ø6	Ø8	Ø10	Ø13	Ø16		
 <p>Plana Para adsorção de peças de trabalho em geral. Para adsorção de peças de trabalho com superfície plana e não deformada</p>	●	●	●							NBR Borracha de silicone Borracha de uretano FKM NBR condutor Borracha de silicone condutora	P.1122
 <p>Plana com ranhuras Para uma peça de trabalho que pode deformar Para liberação de uma peça de trabalho corretamente</p>				●	●	●	●	●			
 <p>Foles Para adsorção de peças de trabalho com superfície inclinada</p>				●	●	●	●	●			

Direção da entrada de vácuo	Anexo do amortecedor	Entrada de vácuo		Página
Vertical  ZP3-T □ □ □ - □	Sem amortecedor (com adaptador)	Rosca macho	M3, M5	P.1124
		Rosca fêmea	M3, M5	
		Conexão espigão	Tubo de poliuretano Ø2 Soft-nylon/ Tubo de poliuretano Ø4, Ø6	
		Conexão instantânea	Ø2, Ø4, Ø6	
Vertical  ZP3-T □ □ □ - ^J □ ^K □ - □	Curso com amortecedor 3 mm 6 mm 10 mm 15 mm 20 mm	Rosca fêmea	M3, M5	P.1136
		Conexão espigão	Tubo de poliuretano Ø2 Soft-nylon/ Tubo de poliuretano Ø4, Ø6	
		Conexão instantânea	Ø2, Ø4, Ø6	
Lateral  ZP3-Y □ □ □ - □ - □	Sem amortecedor (com adaptador)	Rosca fêmea	M3, M5	P.1146
		Conexão espigão	Tubo de poliuretano Ø2 Soft-nylon/ Tubo de poliuretano Ø4, Ø6	
		Conexão instantânea	Ø2, Ø4, Ø6	
Lateral  ZP3-Y □ □ □ - ^J □ ^K □ - □	Curso com amortecedor 3 mm 6 mm 10 mm 15 mm 20 mm	Rosca fêmea	M3, M5	P.1152
		Conexão espigão	Tubo de poliuretano Ø2 Soft-nylon/ Tubo de poliuretano Ø4, Ø6	
		Conexão instantânea	Ø2, Ø4, Ø6	

ConstruçãoP.1162

Lista de ventosa aplicável ao adaptadorP.1163

Lista de ventosa aplicável ao amortecedorP.1164

Referência do adaptador de montagem P.1168

Referência do conjunto do amortecedorP.1170



Ventosa compacta

Diâmetro da ventosa $\varnothing 1,5, \varnothing 2, \varnothing 3,5, \varnothing 4, \varnothing 6, \varnothing 8, \varnothing 10, \varnothing 13, \varnothing 16$

Símbolo/Tipo

U: Plana
UM: Plana com ranhura
B: Foles

Como pedir



Unidade da ventosa

ZP3-015 U N

Diâmetro da ventosa

Símbolo	Diâmetro da ventosa
015	$\varnothing 1,5$
02	$\varnothing 2$
035	$\varnothing 3,5$
04	$\varnothing 4$
06	$\varnothing 6$
08	$\varnothing 8$
10	$\varnothing 10$
13	$\varnothing 13$
16	$\varnothing 16$

Material da ventosa

Símbolo	Material
N	NBR
S	Borracha de silicone
U	Borracha de uretano
F	FKM
GN	NBR condutor
GS	Borracha de silicone condutora

Tipo de ventosa—Diâmetro da ventosa

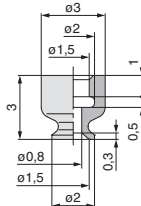
Tipo de ventosa	Diâmetro da ventosa (Símbolo)								
	015	02	035	04	06	08	10	13	16
U (Plana)	●	●	●	—	—	—	—	—	—
UM (Plana com ranhura)	—	—	—	—	—	●	●	●	●
B (Foles)	—	—	—	●	●	●	●	●	●

**Unidade de vendas
 $\varnothing 1,5$ a $\varnothing 8$: 10 peças
 $\varnothing 10$ a $\varnothing 16$: 5 peças

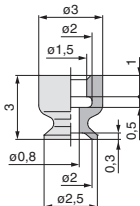
Dimensões: Unidade da ventosa

Plana

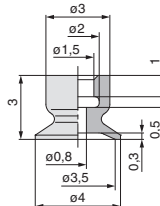
ZP3-015U □ [peso: 0,1 g]



ZP3-02U □ [peso: 0,1 g]

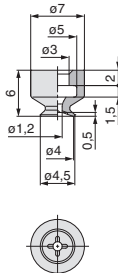


ZP3-035U □ [peso: 0,1 g]

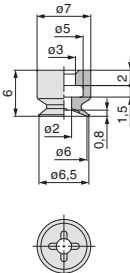


Plana com ranhuras

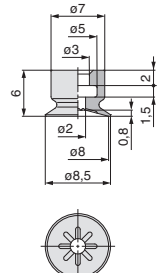
ZP3-04UM □ [peso: 0,3 g]



ZP3-06UM □ [peso: 0,3 g]



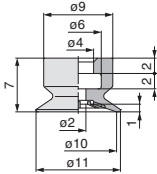
ZP3-08UM □ [peso: 0,3 g]



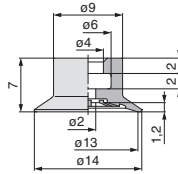
Dimensões: Unidade da ventosa

Plana com ranhuras

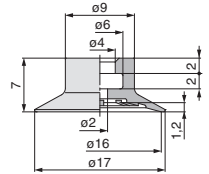
ZP3-10UM □ [peso: 0,6 g]



ZP3-13UM □ [peso: 0,7 g]

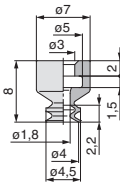


ZP3-16UM □ [peso: 0,8 g]

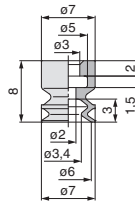


Foles

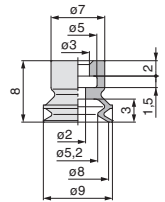
ZP3-04B □ [peso: 0,3 g]



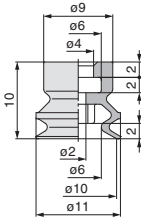
ZP3-06B □ [peso: 0,3 g]



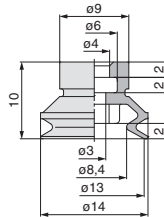
ZP3-08B □ [peso: 0,4 g]



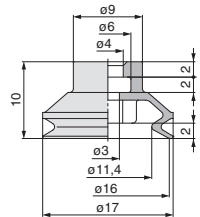
ZP3-10B □ [peso: 0,8 g]



ZP3-13B □ [peso: 1,0 g]



ZP3-16B □ [peso: 1,1 g]



ZP3

ZP2

ZP2V

ZP

ZPT

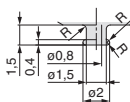
ZPR

XT661

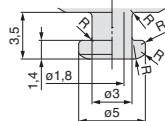
Dimensões de montagem da ventosa

Se um adaptador for produzido pelo cliente, projete o adaptador com as dimensões indicadas a seguir.

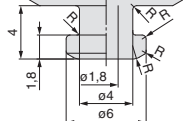
Ventosa aplicável
015U/02U/035U



Ventosa aplicável
04UM/06UM/08UM/04B/06B/08B

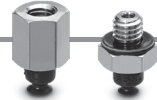


Ventosa aplicável
10UM/13UM/16UM/10B/13B/16B



Nota) A peça precisa ser lisa sem cantos. *Consulte as páginas 1168 e 1169 sobre o adaptador aplicável.

Como pedir



Entrada de vácuo vertical/
Com adaptador

ZP3-T 015 U N -A6 -B3

Direção da entrada de vácuo

Símbolo	Direção
T	Vertical

Diâmetro da ventosa

Símbolo	Diâmetro da ventosa	Símbolo	Diâmetro da ventosa
015	ø1,5	08	ø8
02	ø2	10	ø10
035	ø3,5	13	ø13
04	ø4	16	ø16
06	ø6		

Tipo de ventosa—Diâmetro da ventosa

Diâmetro da ventosa (Símbolo)		015	02	035	04	06
Tipo de ventosa						
U (Plana)		●	●	●	—	—
UM (Plana com ranhura)		—	—	—	●	●
B (Foles)		—	—	—	●	●

Diâmetro da ventosa (Símbolo)		08	10	13	16
Tipo de ventosa					
U (Plano)		—	—	—	—
UM (Plana com ranhura)		●	●	●	●
B (Foles)		●	●	●	●

Entrada de vácuo (◇)

Símbolo	Entrada de vácuo	Tamanho da rosca de montagem		
		A6	A10	A12
B3	Rosca fêmea M3 x 0,5	—	—	—
B5	Rosca fêmea M5 x 0,8	—	—	—
U2	Tubo/conexão espigão ø2 *1	●	●	●
U4	Tubo/conexão espigão ø4 *2	—	●	●
U6	Tubo/conexão espigão ø6 *2	—	—	●
02	ø2 tubulação	●	●	●
04	ø4 tubulação	—	●	●
06	ø6 tubulação	—	—	●
Nada	—	A3/A5/B3/B5		

*1 Tubulação de poliuretano

*2 Tubulação de soft-nylon/poliuretano

Tamanho da rosca de montagem

	Símbolo	Montagem Tamanho da rosca	Ø		
			ø1,5 a ø3,5	ø4 a ø8	ø10 a ø16
Rosca macho	A3*	M3 x 0,5	●	—	—
	A5*	M5 x 0,8	—	●	—
	A6	M6 x 0,75	●	—	—
	A10	M10 x 1	—	●	—
Rosca fêmea	A12	M12 x 1	—	—	●
	B3*	M3 x 0,5	●	—	—
	B5*	M5 x 0,8	—	—	●

* indica entrada de vácuo o símbolo é "Nada".

Material da ventosa (□)

Símbolo	Material
N	NBR
S	Borracha de silicone
U	Borracha de uretano
F	FKM
GN	NBR condutor
GS	Borracha de silicone condutora

Referência das peças de reposição

Diâmetro da ventosa: ø1,5 a ø3,5

Modelo	Referência da unidade da ventosa	Referência do adaptador
ZP3-T (015/02/035) U□-A3		ZP3A-T1-A3
ZP3-T (015/02/035) U□-B3	ZP3-(015/02/035)U□	ZP3A-T1-B3
ZP3-T (015/02/035) U□-A6-◇		ZP3A-T1-A6-B3

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-3AU-2,U4: M-3AU-4-X83

02: KJH02-M3,04: KJH04-M3-X83

Diâmetro da ventosa: ø4 a ø8

Modelo	Referência da unidade da ventosa	Referência do adaptador
ZP3-T (04/06/08) UM□-A5	ZP3-(04/06/08) UM□	ZP3A-T2-A5
ZP3-T (04/06/08) B□-A5	ZP3-(04/06/08) B□	
ZP3-T (04/06/08) UM□-B5	ZP3-(04/06/08) UM□	ZP3A-T2-B5
ZP3-T (04/06/08) B□-B5	ZP3-(04/06/08) B□	
ZP3-T (04/06/08) UM□-A10-◇	ZP3-(04/06/08) UM□	ZP3A-T2-A10-B5
ZP3-T (04/06/08) B□-A10-◇	ZP3-(04/06/08) B□	
ZP3-T (04/06/08) UM□-A10-04	ZP3-(04/06/08) UM□	ZP3A-T2-A10-04
ZP3-T (04/06/08) B□-A10-04	ZP3-(04/06/08) B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2,U4: M-5AU-4-X83,

02: KJH02-M5

Diâmetro da ventosa: ø10 a ø16

Modelo	Referência da unidade da ventosa	Referência do adaptador
ZP3-T (10/13/16) UM□-A5	ZP3-(10/13/16) UM□	ZP3A-T3-A5
ZP3-T (10/13/16) B□-A5	ZP3-(10/13/16) B□	
ZP3-T (10/13/16) UM□-B5	ZP3-(10/13/16) UM□	ZP3A-T3-B5
ZP3-T (10/13/16) B□-B5	ZP3-(10/13/16) B□	
ZP3-T (10/13/16) UM□-A12-◇	ZP3-(10/13/16) UM□	ZP3A-T3-A12-B5
ZP3-T (10/13/16) B□-A12-◇	ZP3-(10/13/16) B□	
ZP3-T (10/13/16) UM□-A12-04	ZP3-(10/13/16) UM□	ZP3A-T3-A12-04
ZP3-T (10/13/16) B□-A12-04	ZP3-(10/13/16) B□	
ZP3-T (10/13/16) UM□-A12-06	ZP3-(10/13/16) UM□	ZP3A-T3-A12-06
ZP3-T (10/13/16) B□-A12-06	ZP3-(10/13/16) B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2,U4: M-5AU-4-X83

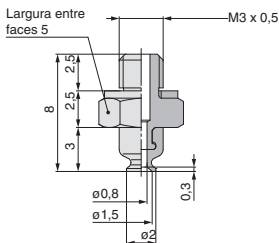
U6: M-5AU-6-X83,02: KJH02-M5

Dimensões/Com adaptador: entrada de vácuo **Vertical**

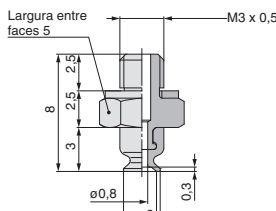
Diâmetro da ventosa ø1,5 a ø3,5

Tipo de ventosa Plana

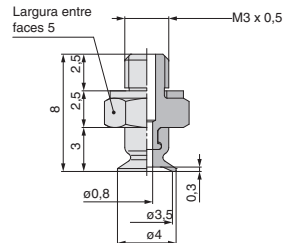
ZP3-T015U□-A3
[Peso: 0,6 g]



ZP3-T02U□-A3
[Peso: 0,6 g]



ZP3-T035U□-A3
[Peso: 0,6 g]

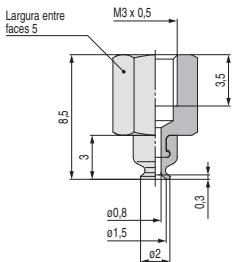


Diâmetro da ventosa $\varnothing 1,5$ a $\varnothing 3,5$

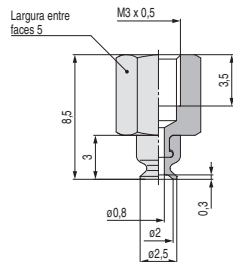
Tipo de ventosa Plana

Dimensões/Com adaptador: entrada de vácuo **Vertical**

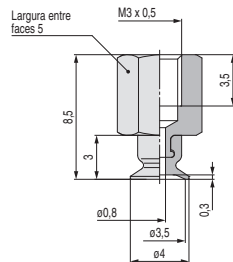
ZP3-T015U□-B3
[Peso: 0,9 g]



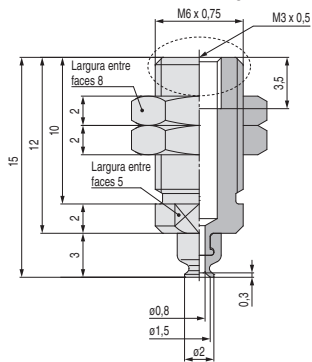
ZP3-T02U□-B3
[Peso: 0,9 g]



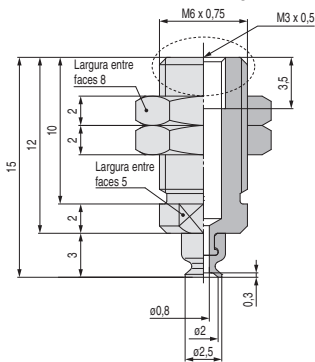
ZP3-T035U□-B3
[Peso: 0,9 g]



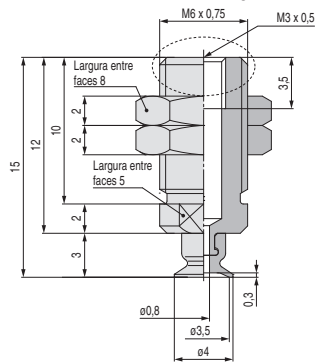
ZP3-T015U□-A6-B3
[Peso: 2,8 g]



ZP3-T02U□-A6-B3
[Peso: 2,8 g]



ZP3-T035U□-A6-B3
[Peso: 2,8 g]



Dimensões da entrada de vácuo

	ZP3-T015U□-A6-U2 ZP3-T02U□-A6-U2 ZP3-T035U□-A6-U2	ZP3-T015U□-A6-U4 ZP3-T02U□-A6-U4 ZP3-T035U□-A6-U4
Conexão espigão		
	M-3AU-2 [Peso: 0,7 g] ²	M-3AU-4-X83 [Peso: 0,7 g] ²

	ZP3-T015U□-A6-02 ZP3-T02U□-A6-02 ZP3-T035U□-A6-02	ZP3-T015U□-A6-04 ZP3-T02U□-A6-04 ZP3-T035U□-A6-04
Conexão instantânea		
	KJH02-M3 [Peso: 1,1 g] ²	KJH04-M3-X83 [Peso: 1,9 g] ²

*1 Consulte "ZP3-T▲▲▲U□-A6-B3" para obter as dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲▲U□-A6-B3".

ZP3

ZP2

ZP2V

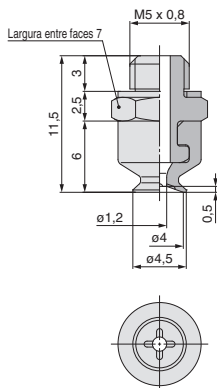
ZP

ZPT

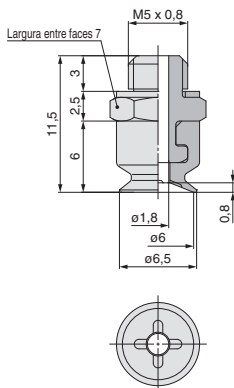
ZPR

XT661

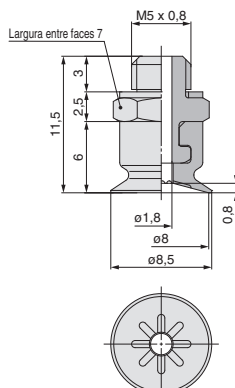
ZP3-T04UM□-A5
[Peso: 1,7 g]



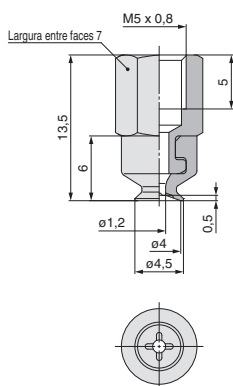
ZP3-T06UM□-A5
[Peso: 1,7 g]



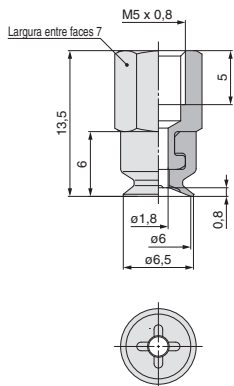
ZP3-T08UM□-A5
[Peso: 1,7 g]



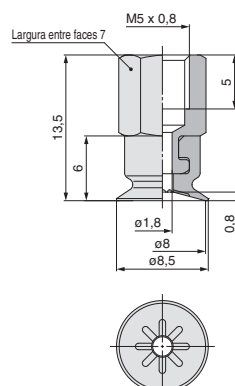
ZP3-T04UM□-B5
[Peso: 2,3 g]



ZP3-T06UM□-B5
[Peso: 2,3 g]



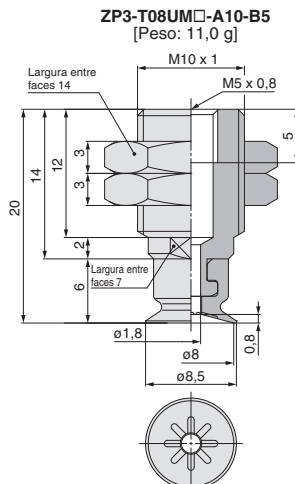
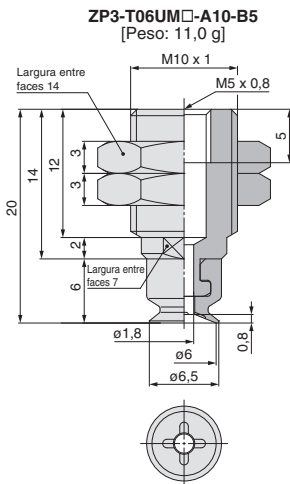
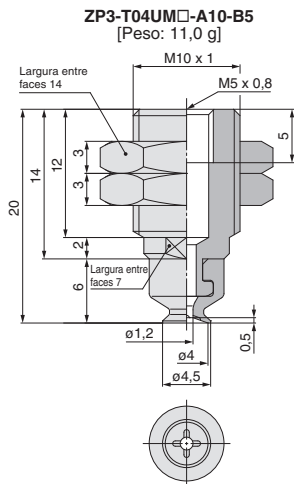
ZP3-T08UM□-B5
[Peso: 2,3 g]



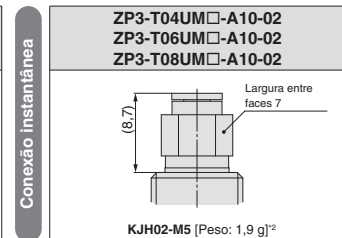
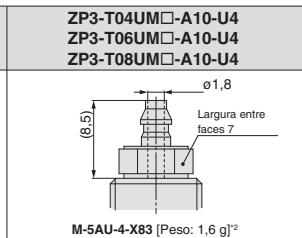
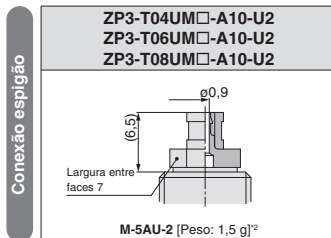
Diâmetro da ventosa $\phi 4$ a $\phi 8$

Tipo de ventosa Plana com ranhuras

Dimensões/Com adaptador: entrada de vácuo Vertical

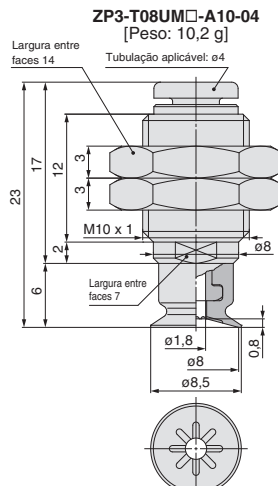
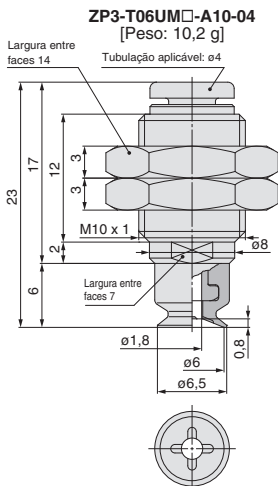
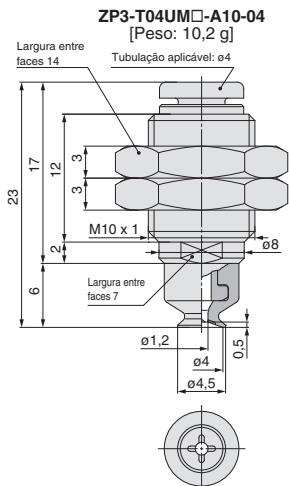


Dimensões da entrada de vácuo



*1 Consulte "ZP3-T▲▲UM□-A10-B5" para obter as dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲UM□-A10-B5".



ZP3

ZP2

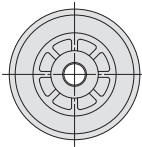
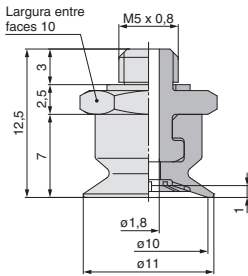
ZP2V

ZP

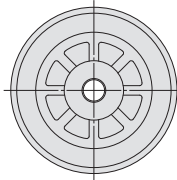
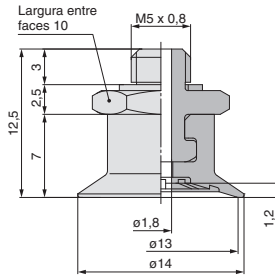
**ZPT
ZPR**

XT661

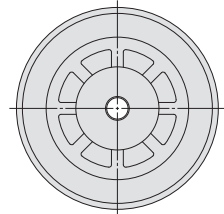
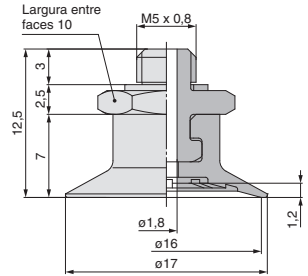
ZP3-T10UM□-A5
[Peso: 3,0 g]



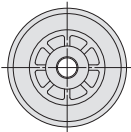
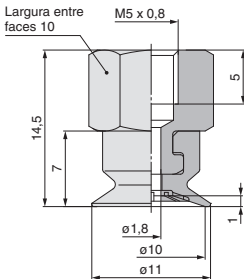
ZP3-T13UM□-A5
[Peso: 3,1 g]



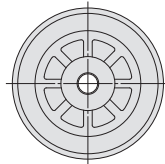
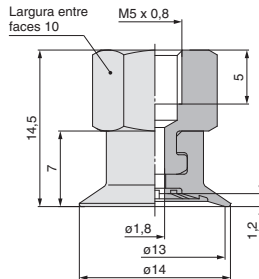
ZP3-T16UM□-A5
[Peso: 3,2 g]



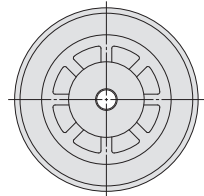
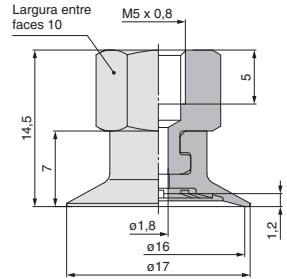
ZP3-T10UM□-B5
[Peso: 5,7 g]



ZP3-T13UM□-B5
[Peso: 5,8 g]



ZP3-T16UM□-B5
[Peso: 5,9 g]

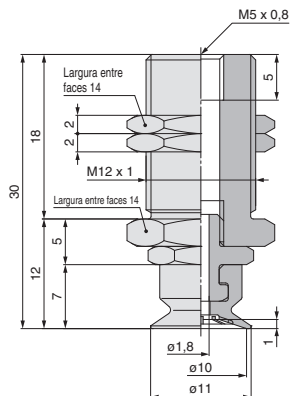


Diâmetro da ventosa $\phi 10$ a $\phi 16$

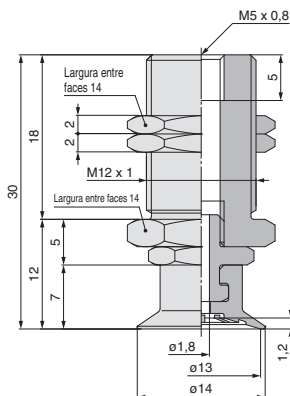
Tipo de ventosa Plana com ranhuras

Dimensões/Com adaptador: entrada de vácuo **Vertical**

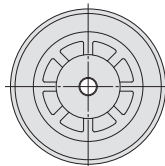
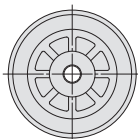
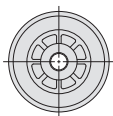
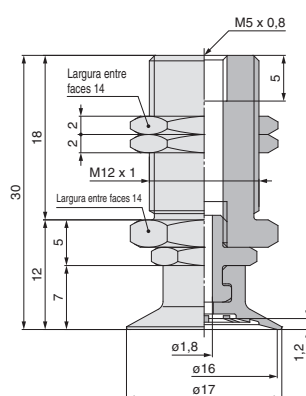
ZP3-T10UM□-A12-B5
[Peso: 18,8 g]



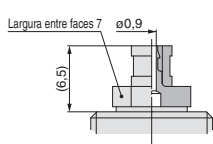
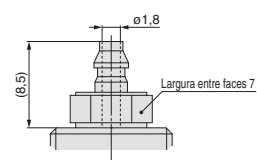
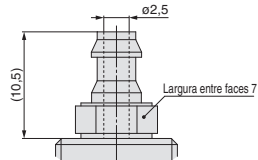
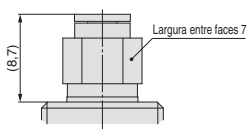
ZP3-T13UM□-A12-B5
[Peso: 18,9 g]



ZP3-T16UM□-A12-B5
[Peso: 19,0 g]



Dimensões da entrada de vácuo

Conexão espigão	<p>ZP3-T10UM□-A12-U2 ZP3-T13UM□-A12-U2 ZP3-T16UM□-A12-U2</p>  <p>M-5AU-2 [Peso: 1,5 g]²</p>	<p>ZP3-T10UM□-A12-U4 ZP3-T13UM□-A12-U4 ZP3-T16UM□-A12-U4</p>  <p>M-5AU-4-X83 [Peso: 1,6 g]²</p>	<p>ZP3-T10UM□-A12-U6 ZP3-T13UM□-A12-U6 ZP3-T16UM□-A12-U6</p>  <p>M-5AU-6-X83 [Peso: 1,8 g]²</p>
	<p>ZP3-T10UM□-A12-O2 ZP3-T13UM□-A12-O2 ZP3-T16UM□-A12-O2</p>  <p>KJH02-M5 [Peso: 1,9 g]²</p>		

ZP3

ZP2

ZP2V

ZP

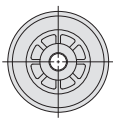
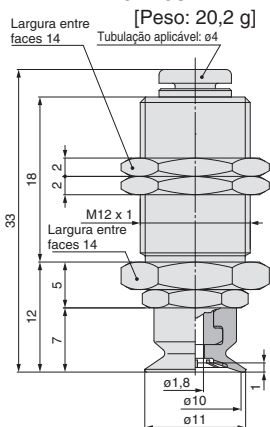
ZPT
ZPR

XT661

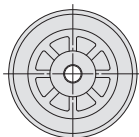
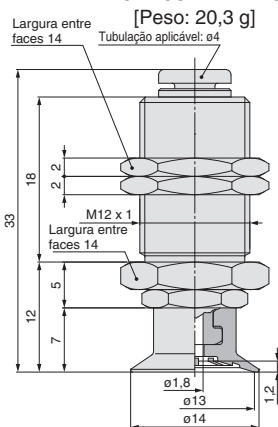
*1 Consulte "ZP3-T▲▲UM□-A12-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲UM□-A12-B5".

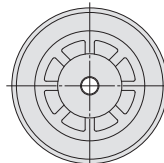
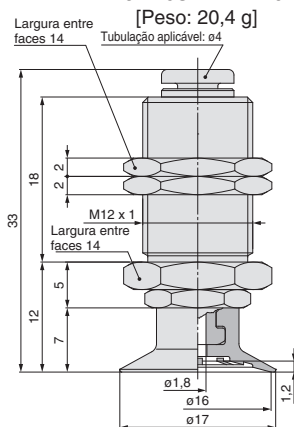
ZP3-T10UM□-A12-04



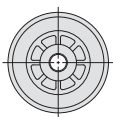
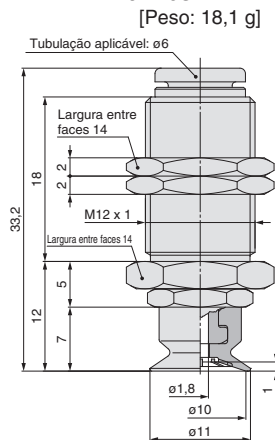
ZP3-T13UM□-A12-04



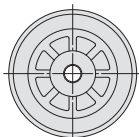
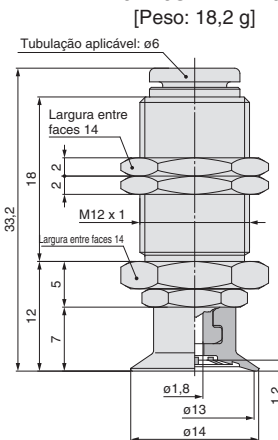
ZP3-T16UM□-A12-04



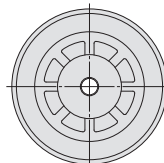
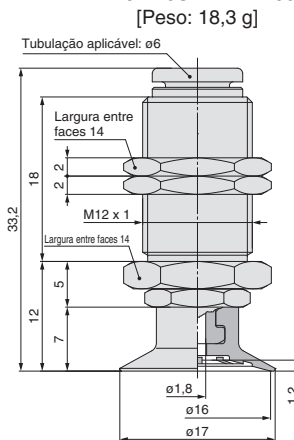
ZP3-T10UM□-A12-06



ZP3-T13UM□-A12-06



ZP3-T16UM□-A12-06



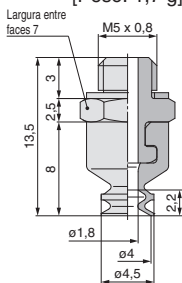
Diâmetro da ventosa $\phi 4$ a $\phi 8$

Tipo de ventosa **Foles**

Dimensões/Com adaptador: entrada de vácuo **Vertical**

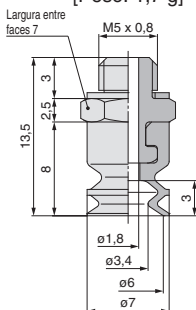
ZP3-T04B□-A5

[Peso: 1,7 g]



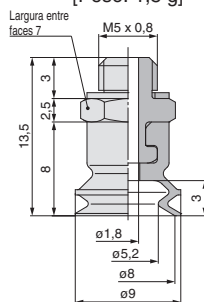
ZP3-T06B□-A5

[Peso: 1,7 g]



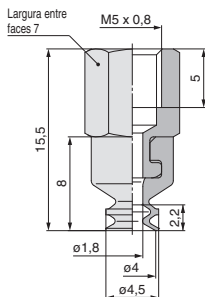
ZP3-T08B□-A5

[Peso: 1,8 g]



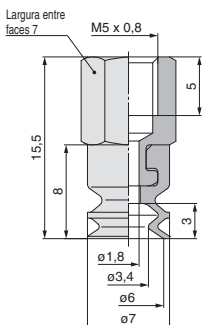
ZP3-T04B□-B5

[Peso: 2,3 g]



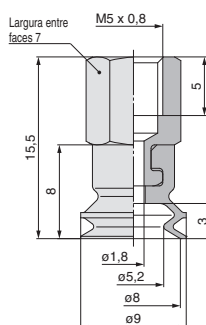
ZP3-T06B□-B5

[Peso: 2,3 g]



ZP3-T08B□-B5

[Peso: 2,4 g]



ZP3

ZP2

ZP2V

ZP

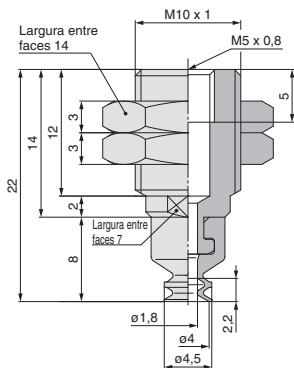
ZPT

ZPR

XT661

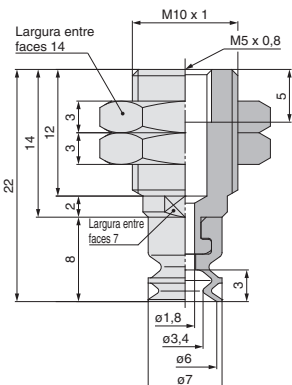
ZP3-T04B□-A10-B5

[Peso: 11,0 g]



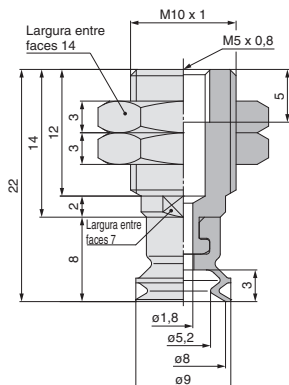
ZP3-T06B□-A10-B5

[Peso: 11,0 g]



ZP3-T08B□-A10-B5

[Peso: 11,1 g]



Dimensões da entrada de vácuo

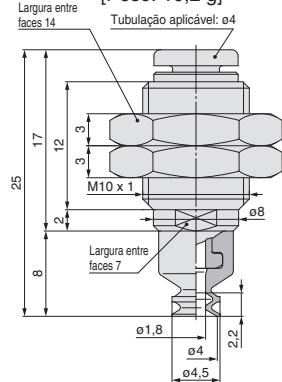
Conexão espigão	<p>ZP3-T04B□-A10-U2 ZP3-T06B□-A10-U2 ZP3-T08B□-A10-U2</p> <p>M-5AU-2 [Peso: 1,5 g]²</p>	<p>ZP3-T04B□-A10-U4 ZP3-T06B□-A10-U4 ZP3-T08B□-A10-U4</p> <p>M-5AU-4-X83 [Peso: 1,6 g]²</p>	Conexão Instantânea	<p>ZP3-T04B□-A10-02 ZP3-T06B□-A10-02 ZP3-T08B□-A10-02</p> <p>KJH02-M5 [Peso: 1,8 g]²</p>

*1 Consulte "ZP3-T▲▲B□-A10-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲B□-A10-B5".

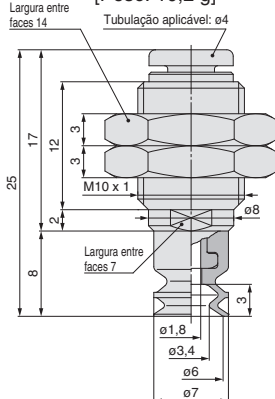
ZP3-T04B□-A10-04

[Peso: 10,2 g]



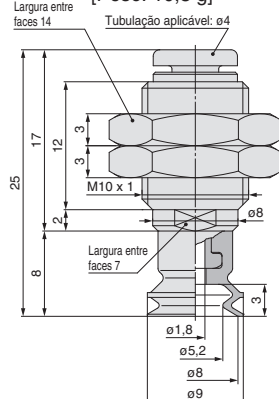
ZP3-T06B□-A10-04

[Peso: 10,2 g]



ZP3-T08B□-A10-04

[Peso: 10,3 g]



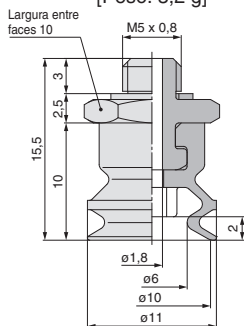
Diâmetro da ventosa $\phi 10$ a $\phi 16$

Tipo de ventosa **Foles**

Dimensões/Com adaptador: entrada de vácuo **Vertical**

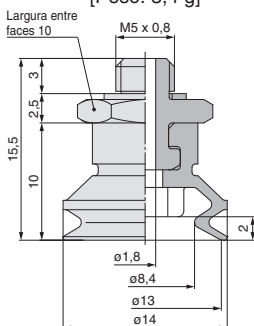
ZP3-T10B□-A5

[Peso: 3,2 g]



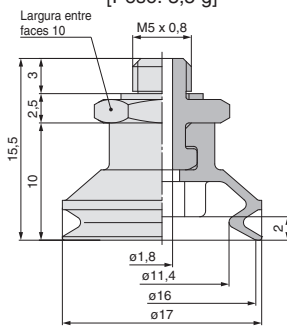
ZP3-T13B□-A5

[Peso: 3,4 g]



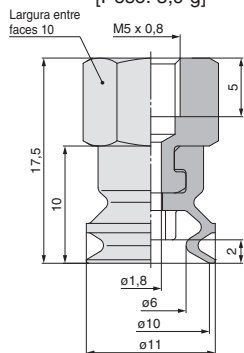
ZP3-T16B□-A5

[Peso: 3,5 g]



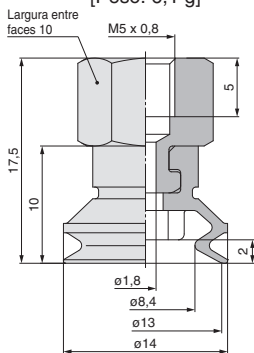
ZP3-T10B□-B5

[Peso: 5,9 g]



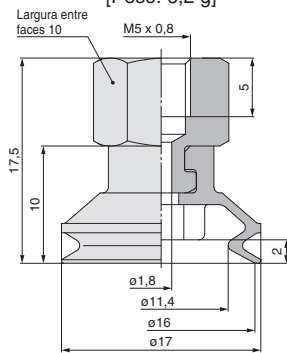
ZP3-T13B□-B5

[Peso: 6,1 g]



ZP3-T16B□-B5

[Peso: 6,2 g]



ZP3

ZP2

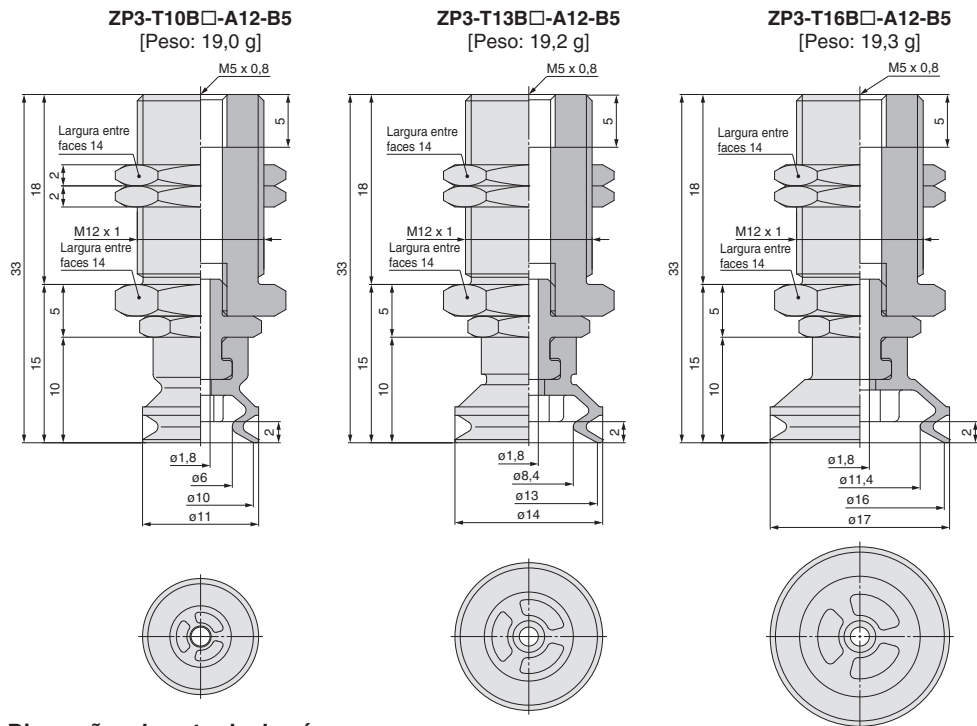
ZP2V

ZP

ZPT

ZPR

XT661



Dimensões da entrada de vácuo

Conexão espigão	<p>ZP3-T10B□-A12-U2 ZP3-T13B□-A12-U2 ZP3-T16B□-A12-U2</p>	<p>ZP3-T10B□-A12-U4 ZP3-T13B□-A12-U4 ZP3-T16B□-A12-U4</p>	<p>ZP3-T10B□-A12-U6 ZP3-T13B□-A12-U6 ZP3-T16B□-A12-U6</p>
	<p>M-5AU-2 [Peso: 1,5 g]²</p>	<p>M-5AU-4-X83 [Peso: 1,6 g]²</p>	<p>M-5AU-6-X83 [Peso: 1,8 g]²</p>
	<p>ZP3-T10B□-A12-O2 ZP3-T13B□-A12-O2 ZP3-T16B□-A12-O2</p>	<p>KJH02-M5 [Peso: 1,9 g]²</p>	

*1 Consulte "ZP3-T▲▲B□-A12-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲B□-A12-B5".

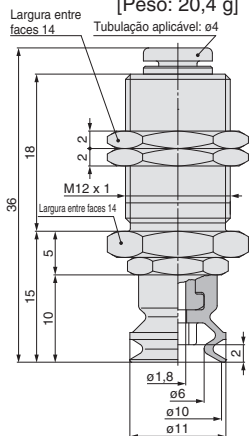
Diâmetro da ventosa $\phi 10$ a $\phi 16$

Tipo de ventosa **Foles**

Dimensões/Com adaptador: entrada de vácuo **Vertical**

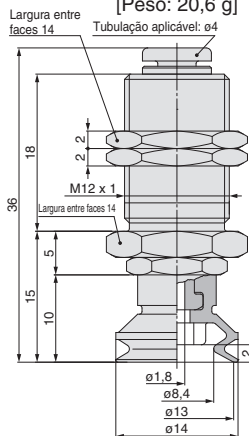
ZP3-T10B□-A12-04

[Peso: 20,4 g]



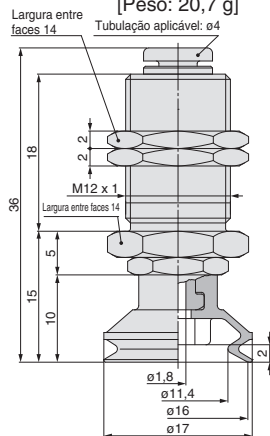
ZP3-T13B□-A12-04

[Peso: 20,6 g]



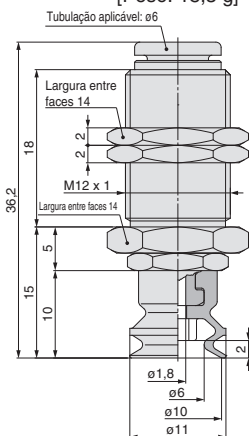
ZP3-T16B□-A12-04

[Peso: 20,7 g]



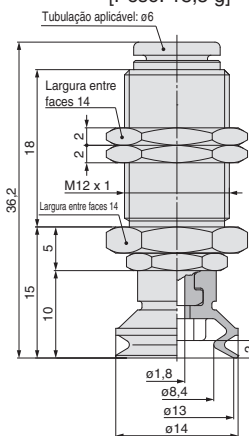
ZP3-T10B□-A12-06

[Peso: 18,3 g]



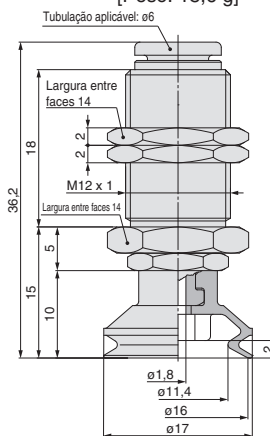
ZP3-T13B□-A12-06

[Peso: 18,5 g]



ZP3-T16B□-A12-06

[Peso: 18,6 g]



ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

Como pedir

Entrada de vácuo vertical/
Com amortecedor

ZP3-T 015 U N J 3 - B3

Direção da entrada de vácuo

Símbolo	Direção
T	Vertical

Diâmetro da ventosa

Símbolo	Diâmetro da ventosa
015	ø1,5
02	ø2
035	ø3,5
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16

Tipo de ventosa—Diâmetro da ventosa

Diâmetro da ventosa (Símbolo)	015	02	035	04	06
U (Plana)	●	●	●	—	—
UM (Plana com ranhura)	—	—	—	●	●
B (Foles)	—	—	—	●	●

Diâmetro da ventosa (Símbolo)	08	10	13	16
U (Plana)	—	—	—	—
UM (Plana com ranhura)	●	●	●	●
B (Foles)	●	●	●	●

Material da ventosa (□)

Símbolo	Material
N	NBR
S	Borracha de silicone
U	Borracha de uretano
F	FKM
GN	NBR condutor
GS	Borracha de silicone condutora

Entrada de vácuo (◇)

	Símbolo	Conexão	ø1,5 a ø3,5	ø4 a ø8	ø10 a ø16
Rosca fêmea	B3	M3 x 0,5	●	—	—
	B5	M5 x 0,8	—	●	●
Conexão espigão	U2	ø2 tubulação *1	●	●	●
	U4	ø4 tubulação *2	●	●	●
Conexão instantânea	06	ø6 tubulação*2	—	—	●
	04	ø4 tubulação	●	●	●
	06	ø6 tubulação	—	—	●

*1 Tubulação de poliuretano

*2 Tubulação de soft-nylon/políuretano

Curso (■)—Especificações do amortecedor

Curso	ø1,5 a ø3,5		ø4 a ø16	
	J	K	J	K
3	●	●	—	●
6	●	●	—	●
10	—	—	●	●
15	—	—	—	●
20	—	—	—	●

*Consulte as "Especificações" abaixo para obter o curso aplicável.

Especificações do amortecedor (☆)

J	Rotativo
JB	Rotativo, com bucha
K	Não rotativo

Especificações

Diâmetro da ventosa	Especificações do amortecedor	Curso (mm)	Torque de aperto (N·m)	Montagem	Força de reação da mola	
					Em curso 0 (N)	Em curso completo (N)
ø1,5 a ø3,5	J	3, 6	1,5 a 1,8	M6 x 0,75	0,2	0,4
	K					
ø4 a ø16	J	3, 6, 10	2,0 a 2,5	M8 x 0,75	0,2	0,5
	JB	15, 20				
	K	3, 6, 10, 15, 20				

Referência das peças de reposição

Diâmetro da ventosa: ø1,5 a ø3,5

Modelo	Referência da unidade da ventosa	Referência do conjunto do amortecedor (M1)
ZP3-T(015/02/035)U□(J/K)3-◇	ZP3-(015/02/035)U□	ZP3B-T1(J/K)3-B3
ZP3-T(015/02/035)U□(J/K)6-◇		ZP3B-T1(J/K)6-B3

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-3AU-2, U4: M-3AU-4-X83
02: KJH02-M3, 04: KJH04-M3-X83

Diâmetro da ventosa: ø4 a ø8

Modelo	Referência da unidade da ventosa	Referência do conjunto do amortecedor (M1)
ZP3-T(04/06/08)UM□(J/K)3-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/K)3-B5
ZP3-T(04/06/08)B□(J/K)3-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(J/K)6-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/K)6-B5
ZP3-T(04/06/08)B□(J/K)6-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(J/K)10-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/K)10-B5
ZP3-T(04/06/08)B□(J/K)10-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(JB/K)15-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(JB/K)15-B5
ZP3-T(04/06/08)B□(JB/K)15-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(JB/K)20-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(JB/K)20-B5
ZP3-T(04/06/08)B□(JB/K)20-◇	ZP3-(04/06/08)B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2, U4: M-5AU-4-X83
02: KJH02-M5, 04: KJH04-M5

Diâmetro da ventosa: ø10 a ø16

Modelo	Referência da unidade da ventosa	Referência do conjunto do amortecedor (M1)
ZP3-T(10/13/16)UM□(J/K)3-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/K)3-B5
ZP3-T(10/13/16)B□(J/K)3-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(J/K)6-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/K)6-B5
ZP3-T(10/13/16)B□(J/K)6-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(J/K)10-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/K)10-B5
ZP3-T(10/13/16)B□(J/K)10-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(JB/K)15-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(JB/K)15-B5
ZP3-T(10/13/16)B□(JB/K)15-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(JB/K)20-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(JB/K)20-B5
ZP3-T(10/13/16)B□(JB/K)20-◇	ZP3-(10/13/16)B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2, U4: M-5AU-4-X83
U6: M-5AU-6-X83, 02: KJH02-M5
04: KJH04-M5, 06: KJH06-M5

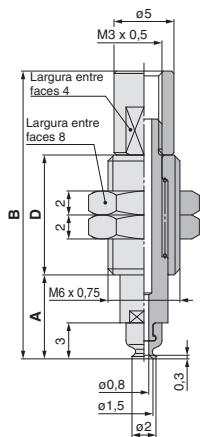
Diâmetro da ventosa $\varnothing 1,5$ a $\varnothing 3,5$

Tipo de ventosa **Plana**

Curso **3, 6 mm**

Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

ZP3-T015U□J■-B3

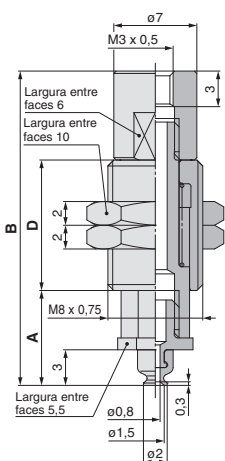


Dimensões (por curso)

Modelo	A	B	D	Peso [g]
ZP3-T015U□J3-B3	7	24	10	3,4
ZP3-T015U□J6-B3	10	31	14	4,4

Nota) □ na tabela indica o material da ventosa *N, S, U, F, GN, GS*.

ZP3-T015U□K■-B3

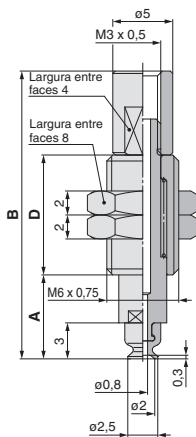


Dimensões (por curso)

Modelo	A	B	D	Peso [g]
ZP3-T015U□K3-B3	8	26,5	11	6,8
ZP3-T015U□K6-B3	11	33	14,5	8,2

Nota) □ na tabela indica o material da ventosa *N, S, U, F, GN, GS*.

ZP3-T02U□J■-B3

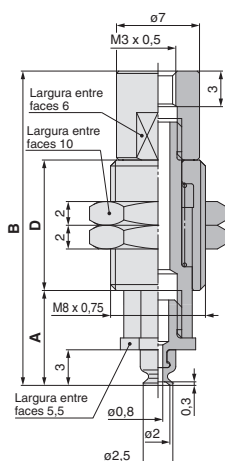


Dimensões (por curso)

Modelo	A	B	D	Peso [g]
ZP3-T02U□J3-B3	7	24	10	3,4
ZP3-T02U□J6-B3	10	31	14	4,4

Nota) □ na tabela indica o material da ventosa *N, S, U, F, GN, GS*.

ZP3-T02U□K■-B3

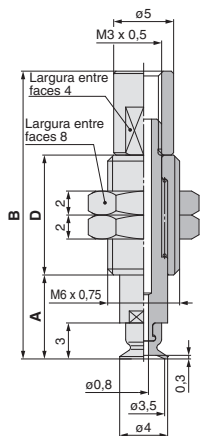


Dimensões (por curso)

Modelo	A	B	D	Peso [g]
ZP3-T02U□K3-B3	8	26,5	11	6,8
ZP3-T02U□K6-B3	11	33	14,5	8,2

Nota) □ na tabela indica o material da ventosa *N, S, U, F, GN, GS*.

ZP3-T035U□J■-B3

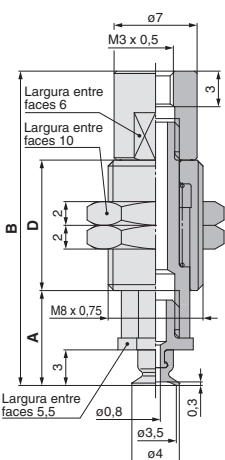


Dimensões (por curso)

Modelo	A	B	D	Peso [g]
ZP3-T035U□J3-B3	7	24	10	3,4
ZP3-T035U□J6-B3	10	31	14	4,4

Nota) □ na tabela indica o material da ventosa *N, S, U, F, GN, GS*.

ZP3-T035U□K■-B3



Dimensões (por curso)

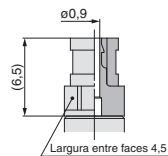
Modelo	A	B	D	Peso [g]
ZP3-T035U□K3-B3	8	26,5	11	6,8
ZP3-T035U□K6-B3	11	33	14,5	8,2

Nota) □ na tabela indica o material da ventosa *N, S, U, F, GN, GS*.

Dimensões da entrada de vácuo

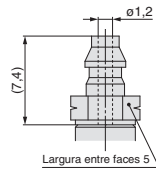
Conexão espigão

ZP3-T015U□☆■-U2
ZP3-T02U□☆■-U2
ZP3-T035U□☆■-U2



M-3AU-2 [Peso: 0,7 g]²

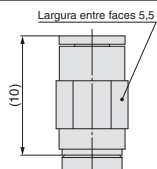
ZP3-T015U□☆■-U4
ZP3-T02U□☆■-U4
ZP3-T035U□☆■-U4



M-3AU-4-X83 [Peso: 0,7 g]²

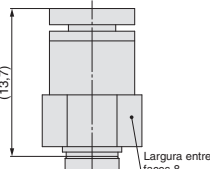
Conexão instantânea

ZP3-T015U□☆■-02
ZP3-T02U□☆■-02
ZP3-T035U□☆■-02



KJH02-M3 [Peso: 1,1 g]²

ZP3-T015U□☆■-04
ZP3-T02U□☆■-04
ZP3-T035U□☆■-04



KJH04-M3-X83 [Peso: 1,9 g]²

*1 Consulte "ZP3-T▲▲▲U□☆■-B3" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲▲U□☆■-B3".

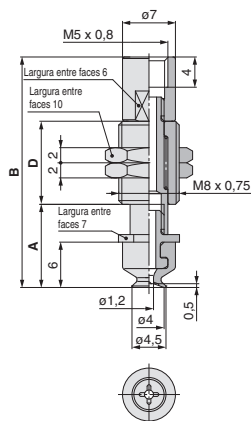
Diâmetro da ventosa $\varnothing 4$ a $\varnothing 8$

Tipo de ventosa Plana com ranhuras

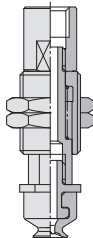
Curso 3, 6, 10 mm

Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

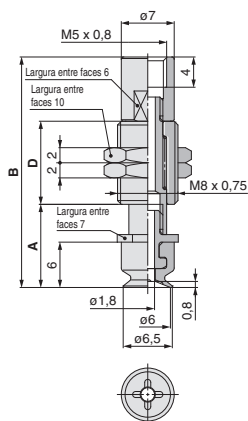
ZP3-T04UM□J■-B5



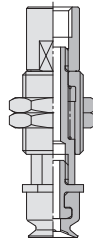
ZP3-T04UM□K■-B5



ZP3-T06UM□J■-B5



ZP3-T06UM□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T04UM□☆3-B5	11	30,5	11	7,4	7,3
ZP3-T04UM□☆6-B5	14	37	14,5	8,6	8,6
ZP3-T04UM□☆10-B5	18	47	20,5	10,5	10,5

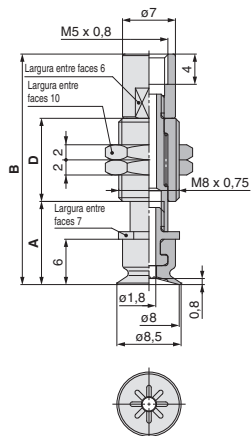
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".
Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Dimensões (por curso)

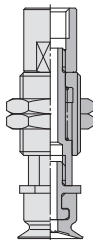
Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T06UM□☆3-B5	11	30,5	11	7,4	7,3
ZP3-T06UM□☆6-B5	14	37	14,5	8,6	8,6
ZP3-T06UM□☆10-B5	18	47	20,5	10,5	10,5

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".
Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

ZP3-T08UM□J■-B5



ZP3-T08UM□K■-B5



Dimensões (por curso)

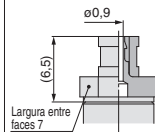
Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T08UM□☆3-B5	11	30,5	11	7,4	7,3
ZP3-T08UM□☆6-B5	14	37	14,5	8,6	8,6
ZP3-T08UM□☆10-B5	18	47	20,5	10,5	10,5

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".
Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Dimensões da entrada de vácuo

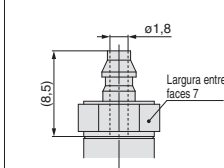
Conexão espigão

ZP3-T04UM□☆■-U2
ZP3-T06UM□☆■-U2
ZP3-T08UM□☆■-U2



M-5AU-2 [Peso: 1,5 g]²

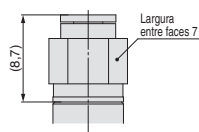
ZP3-T04UM□☆■-U4
ZP3-T06UM□☆■-U4
ZP3-T08UM□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

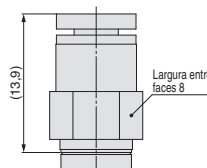
Conexão instantânea

ZP3-T04UM□☆■-02
ZP3-T06UM□☆■-02
ZP3-T08UM□☆■-02



KJH02-M5 [Peso: 1,9 g]²

ZP3-T04UM□☆■-04
ZP3-T06UM□☆■-04
ZP3-T08UM□☆■-04



KJH04-M5 [Peso: 2,4 g]²

*1 Consulte "ZP3-T▲▲▲U□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲▲U□☆■-B5".

Diâmetro da ventosa ø4 a ø8

Tipo de ventosa Plana com ranhuras

Curso 15, 20 mm

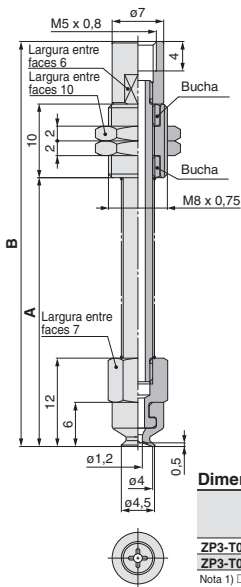
Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

ZP3-T04UM□JB■-B5

ZP3-T04UM□K■-B5

ZP3-T06UM□JB■-B5

ZP3-T06UM□K■-B5

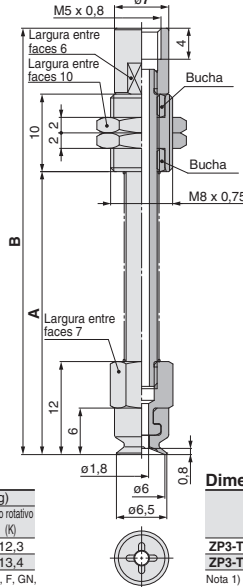


Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T04UM□☆15-B5	36,5	55	10,3	12,3
ZP3-T04UM□☆20-B5	44	62,5	10,9	13,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".



Dimensões (por curso)

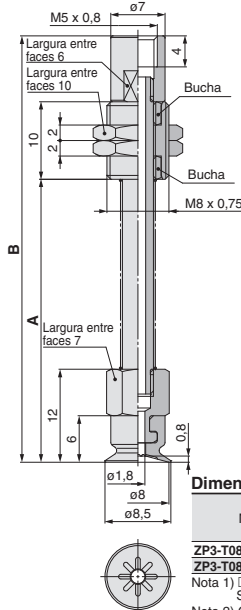
Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T06UM□☆15-B5	36,5	55	10,3	12,3
ZP3-T06UM□☆20-B5	44	62,5	10,9	13,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

ZP3-T08UM□JB■-B5

ZP3-T08UM□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T08UM□☆15-B5	36,5	55	10,3	12,3
ZP3-T08UM□☆20-B5	44	62,5	10,9	13,4

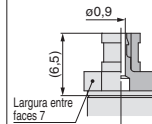
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

Dimensões da entrada de vácuo

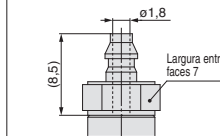
Conexão espigão

- ZP3-T04UM□☆■-U2
- ZP3-T06UM□☆■-U2
- ZP3-T08UM□☆■-U2



M-5AU-2 [Peso: 1,5 g]²

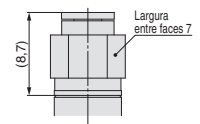
- ZP3-T04UM□☆■-U4
- ZP3-T06UM□☆■-U4
- ZP3-T08UM□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

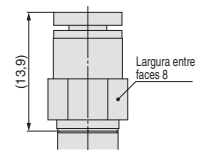
Conexão instantânea

- ZP3-T04UM□☆■-02
- ZP3-T06UM□☆■-02
- ZP3-T08UM□☆■-02



KJH02-M5 [Peso: 1,9 g]²

- ZP3-T04UM□☆■-04
- ZP3-T06UM□☆■-04
- ZP3-T08UM□☆■-04



KJH04-M5 [Peso: 2,4 g]²

¹ Consulte "ZP3-T▲▲UM□☆■-B5" para obter dimensões.

² Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲UM□☆■-B5".

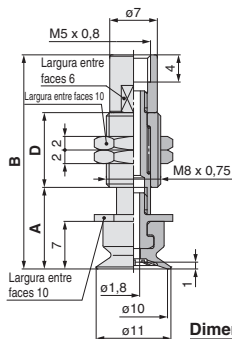
Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

ZP3-T10UM□J■-B5

ZP3-T10UM□K■-B5

ZP3-T13UM□J■-B5

ZP3-T13UM□K■-B5

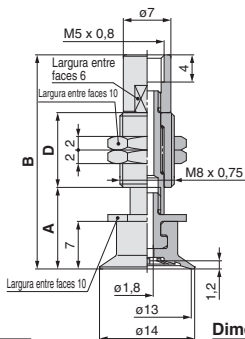


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T10UM□☆3-B5	12	31,5	11	8,4	8,3
ZP3-T10UM□☆6-B5	15	38	14,5	9,6	9,6
ZP3-T10UM□☆10-B5	19	48	20,5	11,7	11,7

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".



Dimensões (por curso)

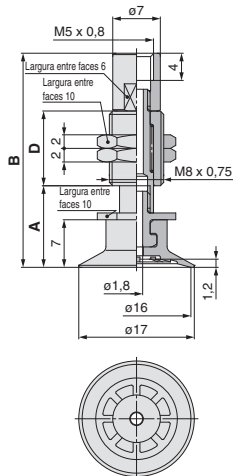
Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T13UM□☆3-B5	12	31,5	11	8,5	8,4
ZP3-T13UM□☆6-B5	15	38	14,5	9,7	9,7
ZP3-T13UM□☆10-B5	19	48	20,5	11,8	11,8

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

ZP3-T16UM□J■-B5

ZP3-T16UM□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T16UM□☆3-B5	12	31,5	11	8,6	8,5
ZP3-T16UM□☆6-B5	15	38	14,5	9,8	9,8
ZP3-T16UM□☆10-B5	19	48	20,5	11,9	11,9

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

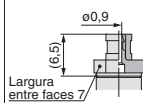
Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Dimensões da entrada de vácuo

Conexão espigão

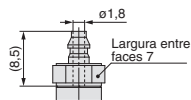
Conexão instantânea

ZP3-T10UM□☆■-U2
ZP3-T13UM□☆■-U2
ZP3-T16UM□☆■-U2



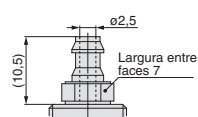
M-5AU-2 [Peso: 1,5 g]²

ZP3-T10UM□☆■-U4
ZP3-T13UM□☆■-U4
ZP3-T16UM□☆■-U4



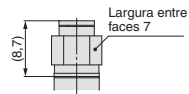
M-5AU-4-X83 [Peso: 1,6 g]²

ZP3-T10UM□☆■-U6
ZP3-T13UM□☆■-U6
ZP3-T16UM□☆■-U6



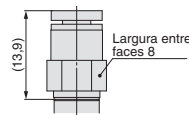
M-5AU-6-X83 [Peso: 1,8 g]²

ZP3-T10UM□☆■-02
ZP3-T13UM□☆■-02
ZP3-T16UM□☆■-02



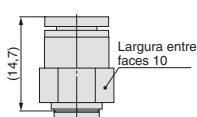
KJH02-M5 [Peso: 1,9 g]²

ZP3-T10UM□☆■-04
ZP3-T13UM□☆■-04
ZP3-T16UM□☆■-04



KJH04-M5 [Peso: 2,4 g]²

ZP3-T10UM□☆■-06
ZP3-T13UM□☆■-06
ZP3-T16UM□☆■-06



KJH06-M5 [Peso: 3,3 g]²

*1 Consulte "ZP3-T▲▲UM□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲UM□☆■-B5".

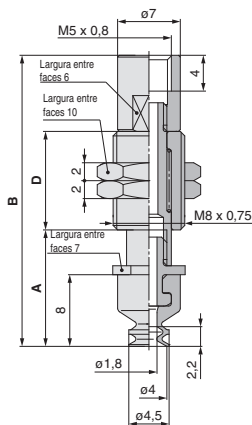
Diâmetro da ventosa $\varnothing 4$ a $\varnothing 8$

Tipo de ventosa **Foles**

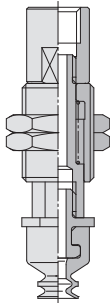
Curso **3, 6, 10 mm**

Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

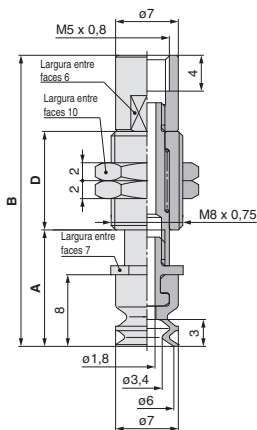
ZP3-T04B□J■-B5



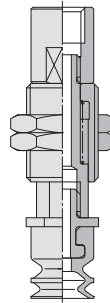
ZP3-T04B□K■-B5



ZP3-T06B□J■-B5



ZP3-T06B□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T04B□☆3-B5	13	32,5	11	7,4	7,3
ZP3-T04B□☆6-B5	16	39	14,5	8,6	8,6
ZP3-T04B□☆10-B5	20	49	20,5	10,5	10,5

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

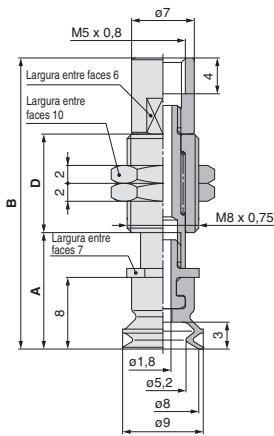
Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T06B□☆3-B5	13	32,5	11	7,4	7,3
ZP3-T06B□☆6-B5	16	39	14,5	8,6	8,6
ZP3-T06B□☆10-B5	20	49	20,5	10,5	10,5

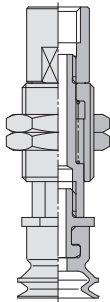
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

ZP3-T08B□J■-B5



ZP3-T08B□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T08B□☆3-B5	13	32,5	11	7,5	7,4
ZP3-T08B□☆6-B5	16	39	14,5	8,7	8,7
ZP3-T08B□☆10-B5	20	49	20,5	10,6	10,6

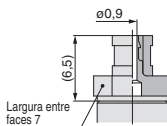
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆☆" indica o tipo de amortecedor "J" ou "K".

Dimensões da entrada de vácuo

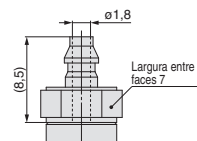
Conexão espigão

ZP3-T04B□☆■-U2
ZP3-T06B□☆■-U2
ZP3-T08B□☆■-U2



M-5AU-2 [Peso: 1,5 g]*2

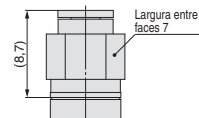
ZP3-T04B□☆■-U4
ZP3-T06B□☆■-U4
ZP3-T08B□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]*2

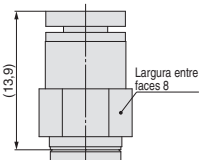
Conexão instantânea

ZP3-T04B□☆■-02
ZP3-T06B□☆■-02
ZP3-T08B□☆■-02



KJH02-M5 [Peso: 1,9 g]*2

ZP3-T04B□☆■-04
ZP3-T06B□☆■-04
ZP3-T08B□☆■-04



KJH04-M5 [Peso: 2,4 g]*2

*1 Consulte "ZP3-T▲▲B□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲B□☆■-B5".

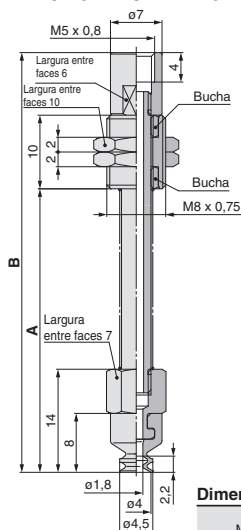
Diâmetro da ventosa $\varnothing 4$ a $\varnothing 8$

Tipo de ventosa **Foles**

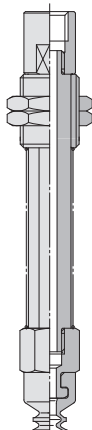
Curso **15, 20 mm**

Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

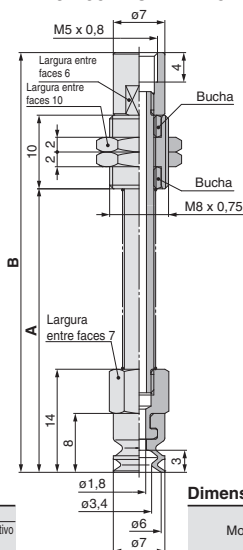
ZP3-T04B□JB■-B5



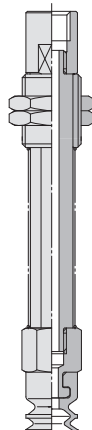
ZP3-T04B□K■-B5



ZP3-T06B□JB■-B5



ZP3-T06B□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T04B□☆15-B5	38,5	57	10,3	12,3
ZP3-T04B□☆20-B5	46	64,5	10,9	13,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

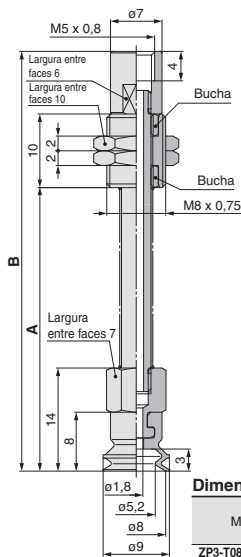
Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T06B□☆15-B5	38,5	57	10,3	12,3
ZP3-T06B□☆20-B5	46	64,5	10,9	13,4

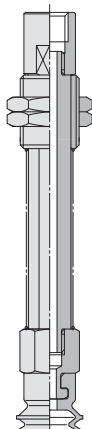
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆☆" indica o tipo de amortecedor "JB" ou "K".

ZP3-T08B□JB■-B5



ZP3-T08B□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T08B□☆15-B5	38,5	57	10,4	12,4
ZP3-T08B□☆20-B5	46	64,5	11,0	13,5

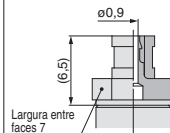
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆☆" indica o tipo de amortecedor "JB" ou "K".

Dimensões da entrada de vácuo

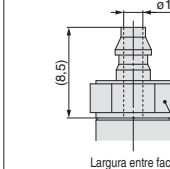
Conexão espigão

ZP3-T04B□☆☆-U2
ZP3-T06B□☆☆-U2
ZP3-T08B□☆☆-U2



M-5AU-2 [Peso: 1,5 g]²

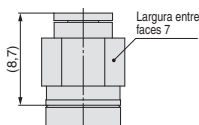
ZP3-T04B□☆☆-U4
ZP3-T06B□☆☆-U4
ZP3-T08B□☆☆-U4



M-5AU-4-X83 [Peso: 1,6 g]²

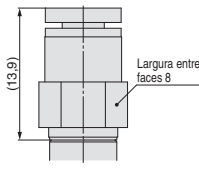
Conexão instantânea

ZP3-T04B□☆☆-02
ZP3-T06B□☆☆-02
ZP3-T08B□☆☆-02



KJH02-M5 [Peso: 1,9 g]²

ZP3-T04B□☆☆-04
ZP3-T06B□☆☆-04
ZP3-T08B□☆☆-04



KJH04-M5 [Peso: 2,4 g]²

*1 Consulte "ZP3-T▲▲B□☆☆-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲B□☆☆-B5".

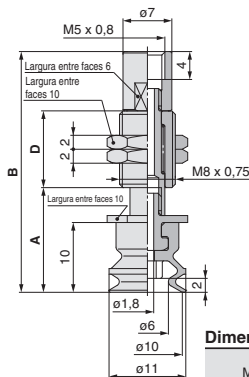
Diâmetro da ventosa $\varnothing 10$ a $\varnothing 16$

Tipo de ventosa **Foles**

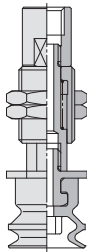
Curso **3, 6, 10 mm**

Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

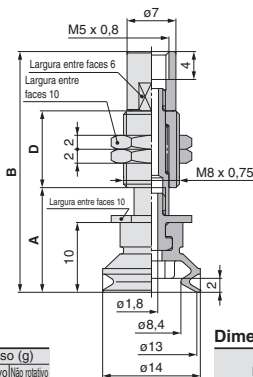
ZP3-T10B□J■-B5



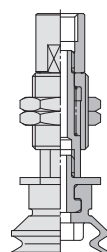
ZP3-T10B□K■-B5



ZP3-T13B□J■-B5



ZP3-T13B□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T10B□☆3-B5	15	34,5	11	8,6	8,5
ZP3-T10B□☆6-B5	18	41	14,5	9,7	9,7
ZP3-T10B□☆10-B5	22	51	20,5	11,7	11,7

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

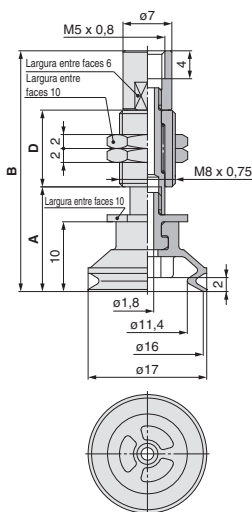
Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T13B□☆3-B5	15	34,5	11	8,7	8,6
ZP3-T13B□☆6-B5	18	41	14,5	9,8	9,8
ZP3-T13B□☆10-B5	22	51	20,5	11,8	11,8

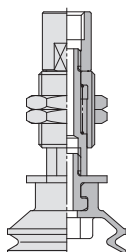
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

ZP3-T16B□J■-B5



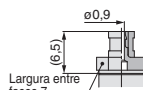
ZP3-T16B□K■-B5



Dimensões da entrada de vácuo

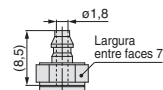
Conexão espigão

ZP3-T10B□☆■-U2
ZP3-T13B□☆■-U2
ZP3-T16B□☆■-U2



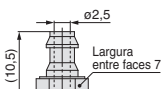
M-5AU-2 [Peso: 1,5 g]²

ZP3-T10B□☆■-U4
ZP3-T13B□☆■-U4
ZP3-T16B□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

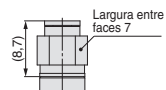
ZP3-T10B□☆■-U6
ZP3-T13B□☆■-U6
ZP3-T16B□☆■-U6



M-5AU-6-X83 [Peso: 1,8 g]²

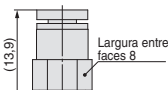
Conexão instantânea

ZP3-T10B□☆■-02
ZP3-T13B□☆■-02
ZP3-T16B□☆■-02



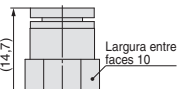
KJH02-M5 [Peso: 1,9 g]²

ZP3-T10B□☆■-04
ZP3-T13B□☆■-04
ZP3-T16B□☆■-04



KJH04-M5 [Peso: 2,4 g]²

ZP3-T10B□☆■-06
ZP3-T13B□☆■-06
ZP3-T16B□☆■-06



KJH06-M5 [Peso: 3,3 g]²

Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-T16B□☆3-B5	15	34,5	11	8,8	8,7
ZP3-T16B□☆6-B5	18	41	14,5	9,9	9,9
ZP3-T16B□☆10-B5	22	51	20,5	11,9	11,9

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

*1 Consulte "ZP3-T▲▲B□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲B□☆■-B5".

Com amortecedor: Entrada de vácuo **Vertical** Série **ZP3**

Diâmetro da ventosa $\phi 10$ a $\phi 16$

Tipo de ventosa **Foles**

Curso **15, 20 mm**

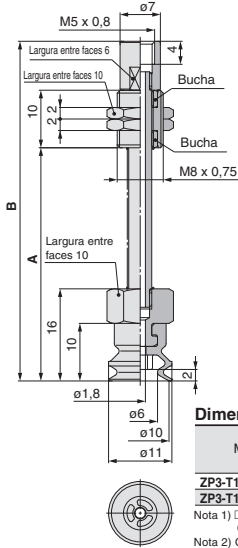
Dimensões/Com amortecedor: Entrada de vácuo **Vertical**

ZP3-T10B□JB■-B5

ZP3-T10B□K■-B5

ZP3-T13B□JB■-B5

ZP3-T13B□K■-B5

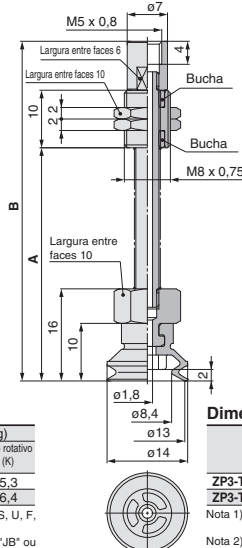


Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T10B□☆15-B5	40,5	59	13,3	15,3
ZP3-T10B□☆20-B5	48	66,5	16,4	16,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".



Dimensões (por curso)

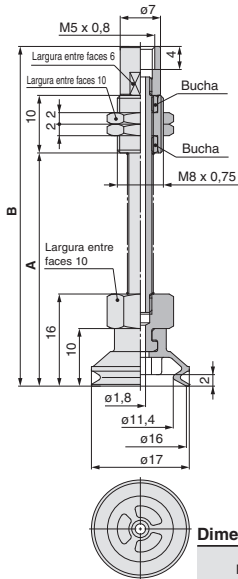
Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T13B□☆15-B5	40,5	59	13,5	15,5
ZP3-T13B□☆20-B5	48	66,5	16,6	16,6

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

ZP3-T16B□JB■-B5

ZP3-T16B□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-T16B□☆15-B5	40,5	59	13,6	15,6
ZP3-T16B□☆20-B5	48	66,5	16,7	16,7

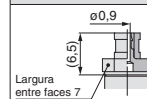
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

Dimensões da entrada de vácuo

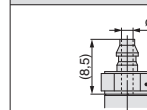
Conexão espigão

ZP3-T10B□☆■-U2
ZP3-T13B□☆■-U2
ZP3-T16B□☆■-U2



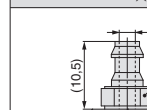
M-5AU-2 [Peso: 1,5 g]*2

ZP3-T10B□☆■-U4
ZP3-T13B□☆■-U4
ZP3-T16B□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]*2

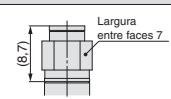
ZP3-T10B□☆■-U6
ZP3-T13B□☆■-U6
ZP3-T16B□☆■-U6



M-5AU-6-X83 [Peso: 1,8 g]*2

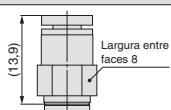
Conexão instantânea

ZP3-T10B□☆■-02
ZP3-T13B□☆■-02
ZP3-T16B□☆■-02



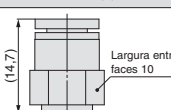
KJH02-M5 [Peso: 1,9 g]*2

ZP3-T10B□☆■-04
ZP3-T13B□☆■-04
ZP3-T16B□☆■-04



KJH04-M5 [Peso: 2,4 g]*2

ZP3-T10B□☆■-06
ZP3-T13B□☆■-06
ZP3-T16B□☆■-06



KJH06-M5 [Peso: 3,3 g]*2

*1 Consulte "ZP3-T▲▲B□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-T▲▲B□☆■-B5".

Como pedir



Entrada de vácuo lateral/
Com amortecedor

ZP3-Y 015 U N-B3-B3

Direção da entrada de vácuo

Símbolo	Direção
Y	Lateral

Diâmetro da ventosa

Símbolo	Diâmetro da ventosa
015	ø 1,5
02	ø 2
035	ø 3,5
04	ø 4
06	ø 6
08	ø 8
10	ø 10
13	ø 13
16	ø 16

Entrada de vácuo (◇)

	Símbolo	Conexão	ø 1,5 a ø 3,5	ø 4 a ø 8	ø 10 a ø 16
Rosca fêmea	B3	M3 x 0,5	●	—	—
	B5	M5 x 0,8	—	●	●
Conexão	U2	ø 2 tubulação *1	●	●	●
espigão	U4	ø 4 tubulação *2	●	●	●
	U6	ø 6 tubulação *2	—	—	●
Conexão instantânea	02	ø 2	●	●	●
	04	ø 4	●	●	●
	06	ø 6	—	—	●

*1 Tubulação de poliuretano

*2 Tubulação de soft-nylon/poliuretano

Tamanho da rosca de montagem

	Símbolo	Tamanho da rosca	ø 1,5 a ø 3,5	ø 4 a ø 16
Rosca fêmea	B3	M3 x 0,5	●	—
	B5	M5 x 0,8	—	●

Material da ventosa (□)

Símbolo	Material
N	NBR
S	Borracha de silicone
U	Borracha de uretano
F	FKM
GN	NBR condutor
GS	Borracha de silicone condutora

Tipo de ventosa—Diâmetro da ventosa

Tipo de ventosa	Diâmetro da ventosa (Símbolo)								
	015	02	035	04	06	08	10	13	16
U (Plana)	●	●	●	—	—	—	—	—	—
UM (Plana com ranhura)	—	—	—	●	●	●	●	●	●
B (Foles)	—	—	—	●	●	●	●	●	●

Especificações

Diâmetro da ventosa: ø 1,5 a ø 3,5

Modelo	Referência da unidade da ventosa	Referência do adaptador
ZP3-Y(015/02/035)U□-B3-◇	ZP3-(015/02/035)U□	ZP3A-Y1-B3

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-3AU-2, U4: M-3AU-4-X83
02: KJH02-M3,04: KJH04-M3-X83

Diâmetro da ventosa: ø 4 a ø 8

Modelo	Referência da unidade da ventosa	Referência do adaptador
ZP3-Y(04/06/08)UM□-B5-◇	ZP3-(04/06/08)UM□	ZP3A-Y2-B5
ZP3-Y(04/06/08)B□-B5-◇	ZP3-(04/06/08)B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2, U4: M-5AU-4-X83
02: KJH02-M5,04: KJH04-M5

Diâmetro da ventosa: ø 10 a ø 16

Modelo	Referência da unidade da ventosa	Referência do adaptador
ZP3-Y(10/13/16)UM□-B5-◇	ZP3-(10/13/16)UM□	ZP3A-Y3-B5
ZP3-Y(10/13/16)B□-B5-◇	ZP3-(10/13/16)B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

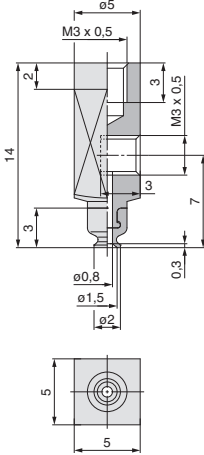
Sufixo de como pedir (◇) U2: M-5AU-2, U4: M-5AU-4-X83
U6: M-5AU-6-X83,02: KJH02-M5
04: KJH04-M5, 06: KJH06-M5

Diâmetro da ventosa $\varnothing 1,5$ a $\varnothing 3,5$

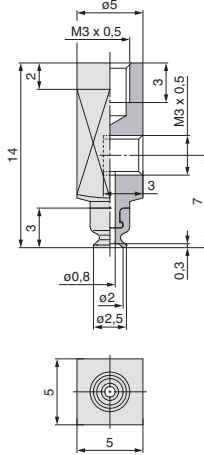
Tipo de ventosa **Plana**

Dimensões/Com adaptador: entrada de vácuo Lateral

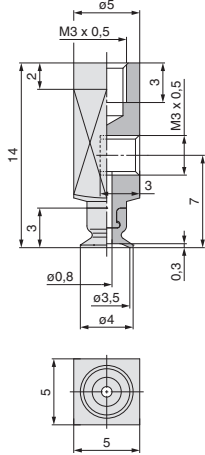
ZP3-Y015U□-B3-B3
[Peso: 1,9 g]



ZP3-Y02U□-B3-B3
[Peso: 1,9 g]



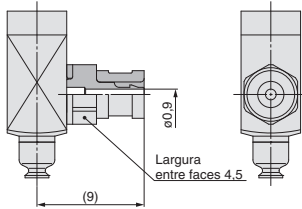
ZP3-Y035U□-B3-B3
[Peso: 1,9 g]



Dimensões da entrada de vácuo

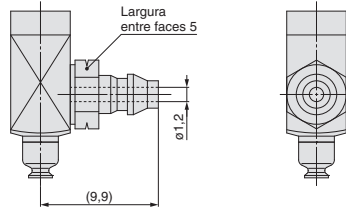
Conexão espigão

ZP3-Y015U□-B3-U2
ZP3-Y02U□-B3-U2
ZP3-Y035U□-B3-U2



M-3AU-2 [Peso: 0,7 g]²

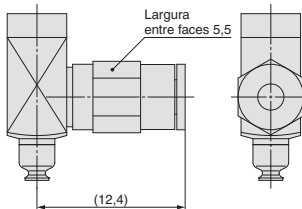
ZP3-Y015U□-B3-U4
ZP3-Y02U□-B3-U4
ZP3-Y035U□-B3-U4



M-3AU-4-X83 [Peso: 0,7 g]²

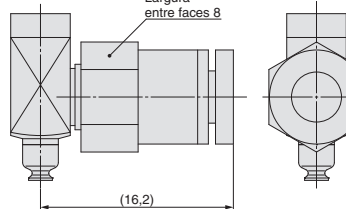
Conexão instantânea

ZP3-Y015U□-B3-02
ZP3-Y02U□-B3-02
ZP3-Y035U□-B3-02



KJH02-M3 [Peso: 1,1 g]²

ZP3-Y015U□-B3-04
ZP3-Y02U□-B3-04
ZP3-Y035U□-B3-04



KJH04-M3-X83 [Peso: 1,9 g]²

*1 Consulte "ZP3-Y▲▲▲U□-B3-B3" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲▲U□-B3-B3".

ZP3

ZP2

ZP2V

ZP

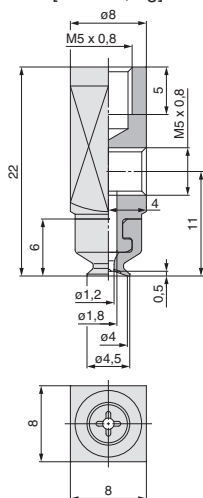
ZPT

ZPR

XT661

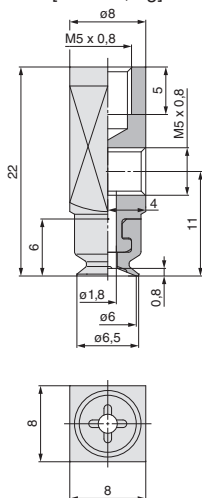
ZP3-Y04UM□-B5-B5

[Peso: 7,0 g]



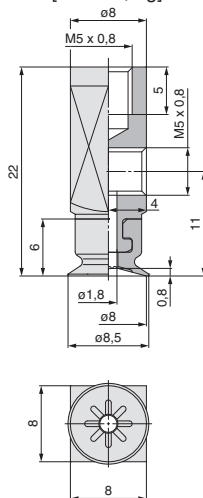
ZP3-Y06UM□-B5-B5

[Peso: 7,0 g]



ZP3-Y08UM□-B5-B5

[Peso: 7,0 g]



Dimensões da entrada de vácuo

Conexão espigão	<p>ZP3-Y04UM□-B5-U2 ZP3-Y06UM□-B5-U2 ZP3-Y08UM□-B5-U2</p> <p>M-5AU-2 [Peso: 1,5 g]²</p>	<p>ZP3-Y04UM□-B5-U4 ZP3-Y06UM□-B5-U4 ZP3-Y08UM□-B5-U4</p> <p>M-5AU-4-X83 [Peso: 1,6 g]²</p>
	Conexão instantânea	<p>ZP3-Y04UM□-B5-02 ZP3-Y06UM□-B5-02 ZP3-Y08UM□-B5-02</p> <p>KJH02-M5 [Peso: 1,9 g]²</p>

*1 Consulte "ZP3-Y▲▲UM□-B5-B5" para obter dimensões.

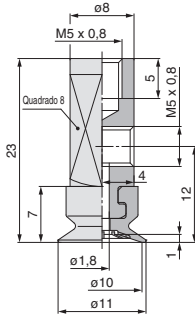
*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲UM□-B5-B5".

Diâmetro da ventosa $\varnothing 10$ a $\varnothing 16$

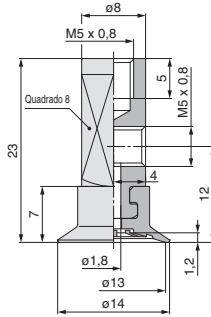
Dimensões/Com adaptador: entrada de vácuo **Lateral**

Tipo de ventosa Plana com ranhuras

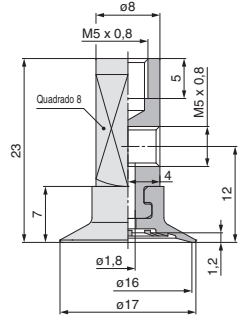
ZP3-Y10UM□-B5-B5
[Peso: 7,7 g]



ZP3-Y13UM□-B5-B5
[Peso: 7,8 g]



ZP3-Y16UM□-B5-B5
[Peso: 7,9 g]



Dimensões da entrada de vácuo

Conexão espigão	<p>ZP3-Y10UM□-B5-U2 ZP3-Y13UM□-B5-U2 ZP3-Y16UM□-B5-U2</p> <p>M-5AU-2 [Peso: 1,5 g]²</p>	<p>ZP3-Y10UM□-B3-U4 ZP3-Y13UM□-B3-U4 ZP3-Y16UM□-B3-U4</p> <p>M-5AU-4-X83 [Peso: 1,6 g]²</p>	<p>ZP3-Y10UM□-B5-U6 ZP3-Y13UM□-B5-U6 ZP3-Y16UM□-B5-U6</p> <p>M-5AU-6-X83 [Peso: 1,8 g]²</p>	
	Conexão Instantânea	<p>ZP3-Y10UM□-B5-O2 ZP3-Y13UM□-B5-O2 ZP3-Y16UM□-B5-O2</p> <p>KJH02-M5 [Peso: 1,9 g]²</p>	<p>ZP3-Y10UM□-B3-O4 ZP3-Y13UM□-B3-O4 ZP3-Y16UM□-B3-O4</p> <p>KJH04-M5 [Peso: 2,4 g]²</p>	<p>ZP3-Y10UM□-B5-O6 ZP3-Y13UM□-B5-O6 ZP3-Y16UM□-B5-O6</p> <p>KJH06-M5 [Peso: 3,3 g]²</p>

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

*1 Consulte "ZP3-Y▲▲UM□-B5-B5" para obter dimensões.

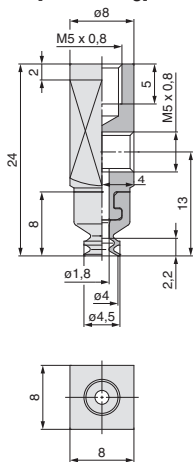
*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲UM□-B5-B5".

Diâmetro da ventosa $\varnothing 4$ a $\varnothing 8$
 Tipo de ventosa **Foles**

Dimensões/Com adaptador: entrada de vácuo **Lateral**

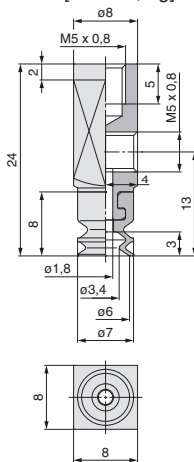
ZP3-Y04B□-B5-B5

[Peso: 7,0 g]



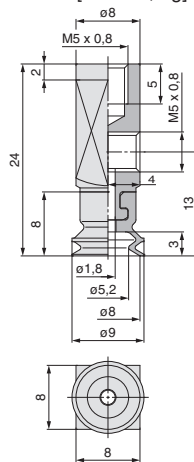
ZP3-Y06B□-B5-B5

[Peso: 7,0 g]



ZP3-Y08B□-B5-B5

[Peso: 7,1 g]



Dimensões da entrada de vácuo

Conexão espigão	ZP3-Y04B□-B5-U2 ZP3-Y06B□-B5-U2 ZP3-Y08B□-B5-U2	ZP3-Y04B□-B5-U4 ZP3-Y06B□-B5-U4 ZP3-Y08B□-B5-U4
	<p>M-5AU-2 [Peso: 0,7 g]²</p>	<p>M-5AU-4-X83 [Peso: 0,7 g]²</p>
Conexão Instantânea	ZP3-Y04B□-B5-02 ZP3-Y06B□-B5-02 ZP3-Y08B□-B5-02	ZP3-Y04B□-B5-04 ZP3-Y06B□-B5-04 ZP3-Y08B□-B5-04
	<p>KJH02-M5 [Peso: 1,1 g]²</p>	<p>KJH04-M5 [Peso: 1,9 g]²</p>

*1 Consulte "ZP3-Y▲▲UM□-B5-B5" para obter dimensões.

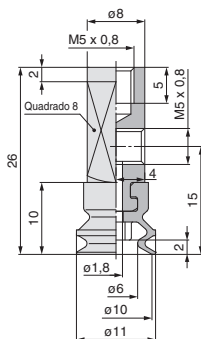
*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲UM□-B5-B5".

Diâmetro da ventosa $\phi 10$ a $\phi 16$

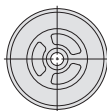
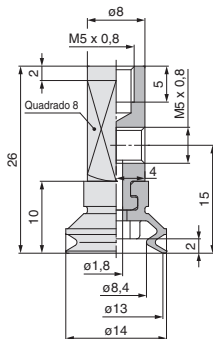
Dimensões/Com adaptador: entrada de vácuo **Lateral**

Tipo de ventosa **Foles**

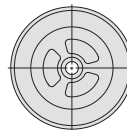
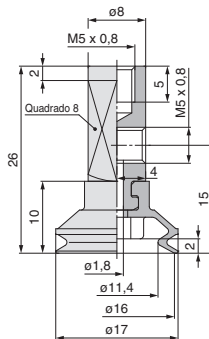
ZP3-Y10B□-B5-B5
[Peso: 7,9 g]



ZP3-Y13B□-B5-B5
[Peso: 8,1 g]



ZP3-Y16B□-B5-B5
[Peso: 8,2 g]



Dimensões da entrada de vácuo

Conexão espigão	<p>ZP3-Y10B□-B5-U2 ZP3-Y13B□-B5-U2 ZP3-Y16B□-B5-U2</p> <p>M-5AU-2 [Peso: 1,5 g]²</p>	<p>ZP3-Y10B□-B5-U4 ZP3-Y13B□-B5-U4 ZP3-Y16B□-B5-U4</p> <p>M-5AU-4-X83 [Peso: 1,6 g]²</p>	<p>ZP3-Y10B□-B5-U6 ZP3-Y13B□-B5-U6 ZP3-Y16B□-B5-U6</p> <p>M-5AU-6-X83 [Peso: 1,8 g]²</p>	
	Conexão instantânea	<p>ZP3-Y10B□-B5-02 ZP3-Y13B□-B5-02 ZP3-Y16B□-B5-02</p> <p>KJH02-M5 [Peso: 1,9 g]²</p>	<p>ZP3-Y10B□-B5-04 ZP3-Y13B□-B5-04 ZP3-Y16B□-B5-04</p> <p>KJH04-M5 [Peso: 2,4 g]²</p>	<p>ZP3-Y10B□-B5-06 ZP3-Y13B□-B5-06 ZP3-Y16B□-B5-06</p> <p>KJH06-M5 [Peso: 3,3 g]²</p>

*1 Consulte "ZP3-Y▲▲B□-B5-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲B□-B5-B5".

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

Como pedir

Entrada de vácuo lateral/
Com amortecedor

ZP3-Y 015 U N J 3-B3

Direção da entrada de vácuo

Símbolo	Direção
Y	Lateral

Diâmetro da ventosa

Símbolo	Diâmetro da ventosa
015	ø1,5
02	ø2
035	ø3,5
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16

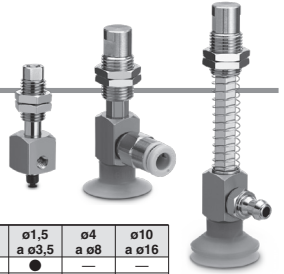
Tipo de ventosa—Diâmetro da ventosa

Diâmetro da ventosa (Símbolo)	015	02	035	04	06
Tipo de ventosa					
U (Plana)	●	●	—	—	—
UM (Plana com ranhura)	—	—	●	●	●
B (Foles)	—	—	—	●	●

Diâmetro da ventosa (Símbolo)	08	10	13	16
Tipo de ventosa				
U (Plana)	—	—	—	—
UM (Plana com ranhura)	●	●	●	●
B (Foles)	●	●	●	●

Material da ventosa (□)

Símbolo	Material
N	NBR
S	Borracha de silicone
U	Borracha de uretano
F	FKM
GN	NBR condutor
GS	Borracha de silicone condutora



Entrada de vácuo (◇)

	Símbolo	Conexão	ø1,5 a ø3,5	ø4 a ø8	ø10 a ø16
Rosca fêmea	B3	M3 x 0,5	●	—	—
	B5	M5 x 0,8	—	●	—
Conexão espigão	U2	ø2 tubulação *1	●	●	●
	U4	ø4 tubulação *2	—	●	●
	U6	ø6 tubulação *2	—	—	●
Conexão instantânea	02	ø2 tubulação	●	●	●
	04	ø4 tubulação	●	●	●
	06	ø6 tubulação	—	—	●

*1 Tubulação de poliuretano

*2 Tubulação de soft-nylon/poliuretano

Curso (■)—Especificações do amortecedor

Curso	ø1,5 a ø3,5		ø4 a ø16	
	J	K	J	JB
3	—	—	—	—
6	●	●	—	—
10	—	—	●	●
15	—	—	—	●
20	—	—	—	●

Especificações do amortecedor (☆)

J	Rotativo
JB	Rotativo, com bucha
K	Não rotativo

Especificações

Diâmetro da ventosa	Especificações do amortecedor	Curso (mm)	Torque de aperto (N-m)	Montagem	Força de reação da mola	
					Em curso 0 (N)	Em curso completo (N)
ø1,5 a ø3,5	J	3, 6	1,5 a 1,8 2,0 a 2,5	M6 x 0,75 M8 x 0,75	0,2	0,4
	K					0,5
ø4 a ø16	J	3, 6, 10 15, 20	2,0 a 2,5	M8 x 0,75	0,2	0,5
	JB					0,5

Referência das peças de reposição

Diâmetro da ventosa: ø1,5 a ø3,5

Modelo	Referência da unidade da ventosa	Referência do conjunto do amortecedor ¹⁾²⁾
ZP3-Y(015/02/035)U□(J/K)3-◇	ZP3-(015/02/035)U□	ZP3B-Y1(J/K)3-B3
ZP3-Y(015/02/035)U□(J/K)6-◇		ZP3B-Y1(J/K)6-B3

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-3AU-2, U4: M-3AU-4-X83
02: KJH02-M3,04: KJH04-M3-X83

Diâmetro da ventosa: ø4 a ø8

Modelo	Referência da unidade da ventosa	Referência do conjunto do amortecedor ¹⁾²⁾
ZP3-Y(04/06/08)UM□(J/K)3-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(J/K)3-B5
ZP3-Y(04/06/08)B□(J/K)3-◇	ZP3-(04/06/08)B□	
ZP3-Y(04/06/08)UM□(J/K)6-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(J/K)6-B5
ZP3-Y(04/06/08)B□(J/K)6-◇	ZP3-(04/06/08)B□	
ZP3-Y(04/06/08)UM□(J/K)10-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(J/K)10-B5
ZP3-Y(04/06/08)B□(J/K)10-◇	ZP3-(04/06/08)B□	
ZP3-Y(04/06/08)UM□(JB/K)15-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(JB/K)15-B5
ZP3-Y(04/06/08)B□(JB/K)15-◇	ZP3-(04/06/08)B□	
ZP3-Y(04/06/08)UM□(JB/K)20-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(JB/K)20-B5
ZP3-Y(04/06/08)B□(JB/K)20-◇	ZP3-(04/06/08)B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2, U4: M-5AU-4-X83
02: KJH02-M5,04: KJH04-M5

Diâmetro da ventosa: ø10 a ø16

Modelo	Referência da unidade da ventosa	Referência do conjunto do amortecedor ¹⁾²⁾
ZP3-Y(10/13/16)UM□(J/K)3-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(J/K)3-B5
ZP3-Y(10/13/16)B□(J/K)3-◇	ZP3-(10/13/16)B□	
ZP3-Y(10/13/16)UM□(J/K)6-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(J/K)6-B5
ZP3-Y(10/13/16)B□(J/K)6-◇	ZP3-(10/13/16)B□	
ZP3-Y(10/13/16)UM□(J/K)10-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(J/K)10-B5
ZP3-Y(10/13/16)B□(J/K)10-◇	ZP3-(10/13/16)B□	
ZP3-Y(10/13/16)UM□(JB/K)15-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(JB/K)15-B5
ZP3-Y(10/13/16)B□(JB/K)15-◇	ZP3-(10/13/16)B□	
ZP3-Y(10/13/16)UM□(JB/K)20-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(JB/K)20-B5
ZP3-Y(10/13/16)B□(JB/K)20-◇	ZP3-(10/13/16)B□	

Nota 1) □ na tabela indica o material da ventosa.

Nota 2) ◇ na tabela indica a entrada de vácuo.

Nota 3) A conexão é pedida separadamente.

Sufixo de como pedir (◇) U2: M-5AU-2, U4: M-5AU-4-X83
U6: M-5AU-6-X83,02: KJH02-M5
04: KJH04-M5,06: KJH06-M5

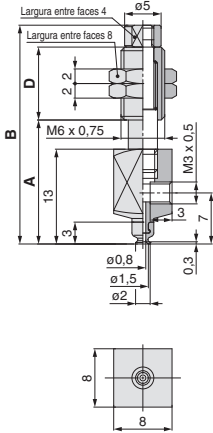
Diâmetro da ventosa $\varnothing 1,5$ a $\varnothing 3,5$

Tipo de ventosa **Plana**

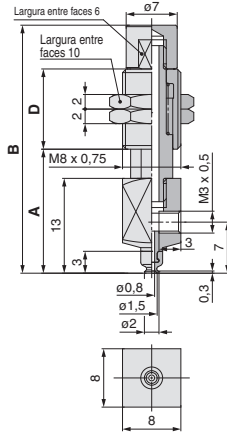
Curso **3, 6 mm**

Dimensões/Com amortecedor: Entrada de vácuo Lateral

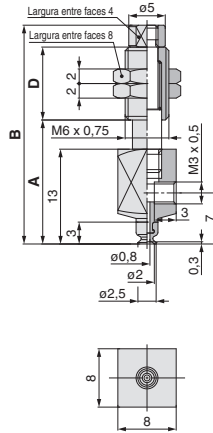
ZP3-Y015U□J■-B3



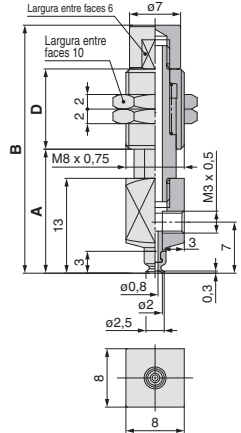
ZP3-Y015U□K■-B3



ZP3-Y02U□J■-B3



ZP3-Y02U□K■-B3



Dimensões (por curso)

Modelo	A	B	D	Peso (g)
ZP3-Y015U□J3-B3	17	30	10	7,7
ZP3-Y015U□J6-B3	20	37	14	8,6

Nota) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Dimensões (por curso)

Modelo	A	B	D	Peso (g)
ZP3-Y015U□K3-B3	17	34	11	11,0
ZP3-Y015U□K6-B3	20	40,5	14,5	12,2

Nota) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Dimensões (por curso)

Modelo	A	B	D	Peso (g)
ZP3-Y02U□J3-B3	17	30	10	7,7
ZP3-Y02U□J6-B3	20	37	14	8,6

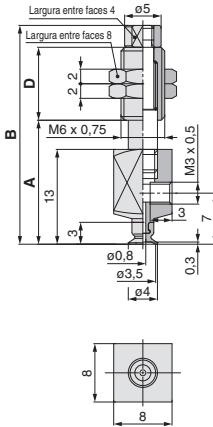
Nota) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Dimensões (por curso)

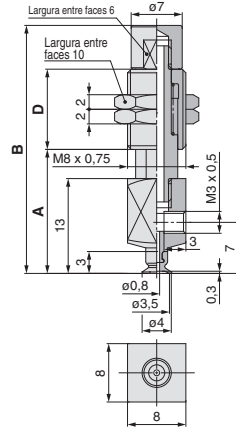
Modelo	A	B	D	Peso (g)
ZP3-Y02U□K3-B3	17	34	11	11,0
ZP3-Y02U□K6-B3	20	40,5	14,5	12,2

Nota) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

ZP3-Y035U□J■-B3



ZP3-Y035U□K■-B3



Dimensões (por curso)

Modelo	A	B	D	Peso (g)
ZP3-Y035U□J3-B3	17	30	10	7,7
ZP3-Y035U□J6-B3	20	37	14	8,6

Nota) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Dimensões (por curso)

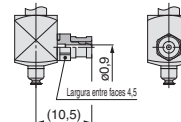
Modelo	A	B	D	Peso (g)
ZP3-Y035U□K3-B3	17	34	11	11,0
ZP3-Y035U□K6-B3	20	40,5	14,5	12,2

Nota) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Dimensões da entrada de vácuo

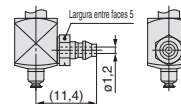
Conexão espigão

ZP3-Y015U□J■-U2
ZP3-Y02U□J■-U2
ZP3-Y035U□J■-U2



M-3AU-2 [Peso: 0,7 g]²

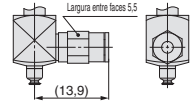
ZP3-Y015U□J■-U4
ZP3-Y02U□J■-U4
ZP3-Y035U□J■-U4



M-3AU-4-X83 [Peso: 0,7 g]²

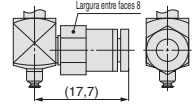
Conexão instantânea

ZP3-Y015U□J■-02
ZP3-Y02U□J■-02
ZP3-Y035U□J■-02



KJH02-M3 [Peso: 1,1 g]²

ZP3-Y015U□J■-04
ZP3-Y02U□J■-04
ZP3-Y035U□J■-04



KJH04-M3-X83 [Peso: 1,9 g]²

¹ Consulte "ZP3-Y▲▲▲▲□☆■-B3" para obter dimensões.

² Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲▲▲□☆■-B3".

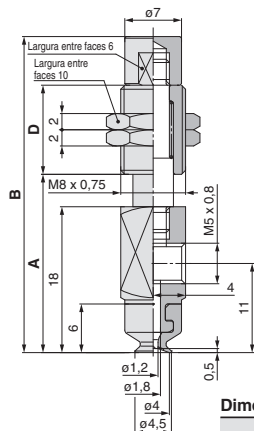
Dimensões/Com amortecedor: Entrada de vácuo Lateral

ZP3-Y04UM□J■-B5

ZP3-Y04UM□K■-B5

ZP3-Y06UM□J■-B5

ZP3-Y06UM□K■-B5

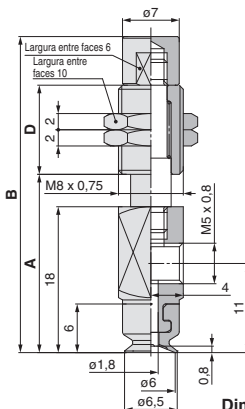
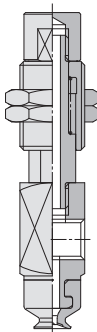
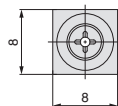


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y04UM□3-B5	22,5	40	11	12,8	12,2
ZP3-Y04UM□6-B5	25	46	14,5	14,2	13,4
ZP3-Y04UM□10-B5	29	56	20,5	16,6	15,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "■" indica o tipo de amortecedor "J" ou "K".

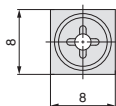


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y06UM□3-B5	22,5	40	11	12,8	12,2
ZP3-Y06UM□6-B5	25	46	14,5	14,2	13,4
ZP3-Y06UM□10-B5	29	56	20,5	16,6	15,4

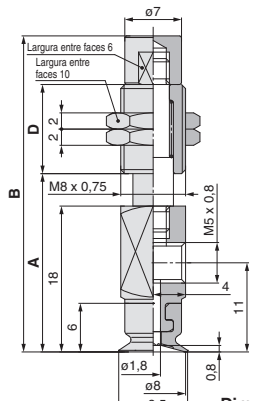
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "■" indica o tipo de amortecedor "J" ou "K".



ZP3-Y08UM□J■-B5

ZP3-Y08UM□K■-B5

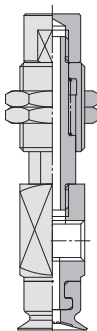
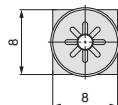


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y08UM□3-B5	22,5	40	11	12,8	12,2
ZP3-Y08UM□6-B5	25	46	14,5	14,2	13,4
ZP3-Y08UM□10-B5	29	56	20,5	16,6	15,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

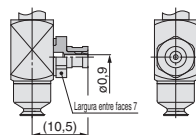
Nota 2) O símbolo "■" indica o tipo de amortecedor "J" ou "K".



Dimensões da entrada de vácuo

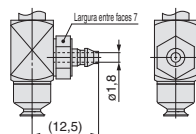
Conexão espigão

ZP3-Y04UM□J■-U2
ZP3-Y06UM□J■-U2
ZP3-Y08UM□J■-U2



M-5AU-2 [Peso: 1,5 g]²

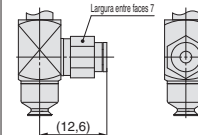
ZP3-Y04UM□K■-U4
ZP3-Y06UM□K■-U4
ZP3-Y08UM□K■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

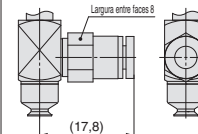
Conexão instantânea

ZP3-Y04UM□J■-02
ZP3-Y06UM□J■-02
ZP3-Y08UM□J■-02



KJH02-M5 [Peso: 1,9 g]²

ZP3-Y04UM□K■-04
ZP3-Y06UM□K■-04
ZP3-Y08UM□K■-04



KJH04-M5 [Peso: 2,4 g]²

*1 Consulte "ZP3-Y▲▲UM□J■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲UM□J■-B5".

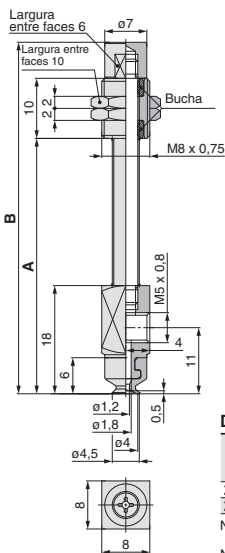
Diâmetro da ventosa $\phi 4$ a $\phi 8$

Tipo de ventosa Plana com ranhuras

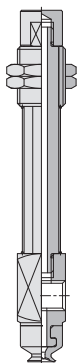
Curso 15, 20 mm

Dimensões/Com amortecedor: Entrada de vácuo **Lateral**

ZP3-Y04UM□JB■-B5



ZP3-Y04UM□K■-B5



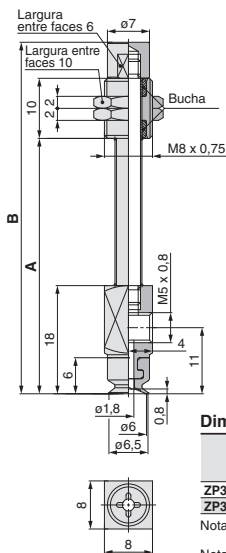
Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y04UM□15-B5	42,5	59	14,3	15,5
ZP3-Y04UM□20-B5	50	66,5	15,1	16,6

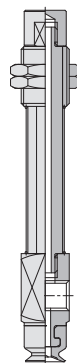
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "■" indica o tipo de amortecedor "JB" ou "K".

ZP3-Y06UM□JB■-B5



ZP3-Y06UM□K■-B5



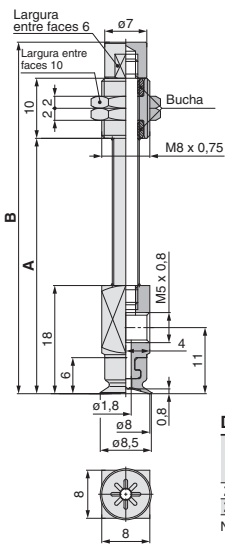
Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y06UM□15-B5	42,5	59	14,3	15,5
ZP3-Y06UM□20-B5	50	66,5	15,1	16,6

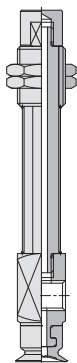
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "■" indica o tipo de amortecedor "JB" ou "K".

ZP3-Y08UM□JB■-B5



ZP3-Y08UM□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y08UM□15-B5	42,5	59	14,3	15,5
ZP3-Y08UM□20-B5	50	66,5	15,1	16,6

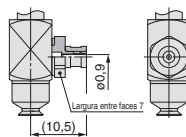
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "■" indica o tipo de amortecedor "JB" ou "K".

Dimensões da entrada de vácuo

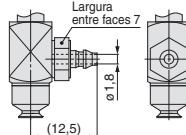
Conexão espigão

ZP3-Y04UM□■-U2
ZP3-Y06UM□■-U2
ZP3-Y08UM□■-U2



M-5AU-2 [Peso: 1,5 g]²

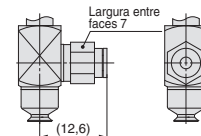
ZP3-Y04UM□■-U4
ZP3-Y06UM□■-U4
ZP3-Y08UM□■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

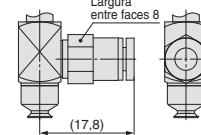
Conexão instantânea

ZP3-Y04UM□■-02
ZP3-Y06UM□■-02
ZP3-Y08UM□■-02



KJH02-M5 [Peso: 1,9 g]²

ZP3-Y04UM□■-04
ZP3-Y06UM□■-04
ZP3-Y08UM□■-04



KJH04-M5 [Peso: 2,4 g]²

*1 Consulte "ZP3-Y▲▲UM□■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲UM□■-B5".

Diâmetro da ventosa $\varnothing 10$ a $\varnothing 16$

Tipo de ventosa Plana com ranhuras

Curso 3, 6, 10 mm

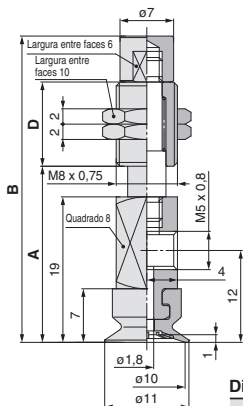
Dimensões/Com amortecedor: Entrada de vácuo Lateral

ZP3-Y10UM□J■-B5

ZP3-Y10UM□K■-B5

ZP3-Y13UM□J■-B5

ZP3-Y13UM□K■-B5

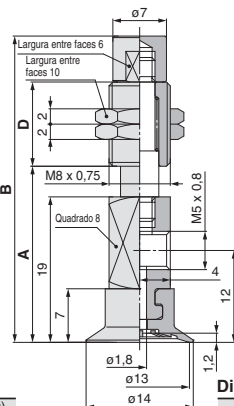


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y10UM□☆3-B5	23,5	41	11	13,6	13,0
ZP3-Y10UM□☆6-B5	26	47	14,5	14,9	14,2
ZP3-Y10UM□☆10-B5	30	57	20,5	17,3	16,1

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

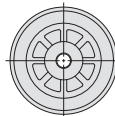


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y13UM□☆3-B5	23,5	41	11	13,7	13,1
ZP3-Y13UM□☆6-B5	26	47	14,5	15,0	14,3
ZP3-Y13UM□☆10-B5	30	57	20,5	17,4	16,2

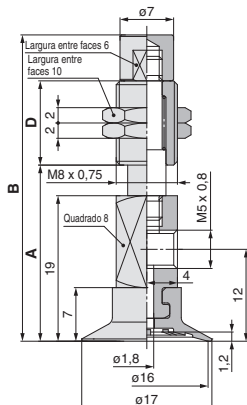
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".



ZP3-Y16UM□J■-B5

ZP3-Y16UM□K■-B5

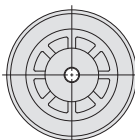


Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y16UM□☆3-B5	23,5	41	11	13,8	13,2
ZP3-Y16UM□☆6-B5	26	47	14,5	15,1	14,4
ZP3-Y16UM□☆10-B5	30	57	20,5	17,5	16,3

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

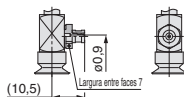


Dimensões da entrada de vácuo

Conexão espigão

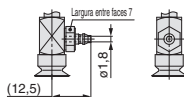
Conexão instantânea

ZP3-Y10UM□☆■-U2
ZP3-Y13UM□☆■-U2
ZP3-Y16UM□☆■-U2



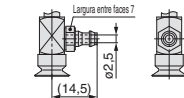
M-5AU-2 [Peso: 1,5 g]²

ZP3-Y10UM□☆■-U4
ZP3-Y13UM□☆■-U4
ZP3-Y16UM□☆■-U4



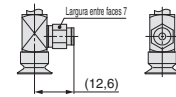
M-5AU-4-X83 [Peso: 1,6 g]²

ZP3-Y10UM□☆■-U6
ZP3-Y13UM□☆■-U6
ZP3-Y16UM□☆■-U6



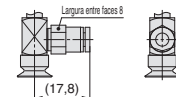
M-5AU-6-X83 [Peso: 1,8 g]²

ZP3-Y10UM□☆■-02
ZP3-Y13UM□☆■-02
ZP3-Y16UM□☆■-02



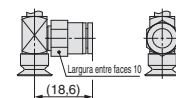
KJH02-M5 [Peso: 1,9 g]²

ZP3-Y10UM□☆■-04
ZP3-Y13UM□☆■-04
ZP3-Y16UM□☆■-04



KJH04-M5 [Peso: 2,4 g]²

ZP3-Y10UM□☆■-06
ZP3-Y13UM□☆■-06
ZP3-Y16UM□☆■-06



KJH06-M5 [Peso: 3,3 g]²

*1 Consulte "ZP3-Y▲▲UM□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲UM□☆■-B5".

Diâmetro da ventosa $\phi 10$ a $\phi 16$

Tipo de ventosa Plana com ranhuras

Curso 15, 20 mm

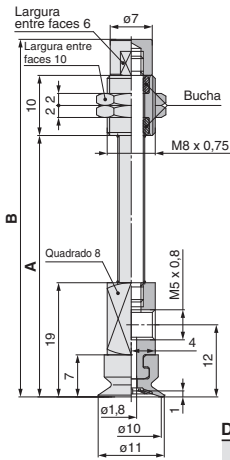
Dimensões/Com amortecedor: Entrada de vácuo **Lateral**

ZP3-Y10UM \square JB \blacksquare -B5

ZP3-Y10UM \square K \blacksquare -B5

ZP3-Y13UM \square JB \blacksquare -B5

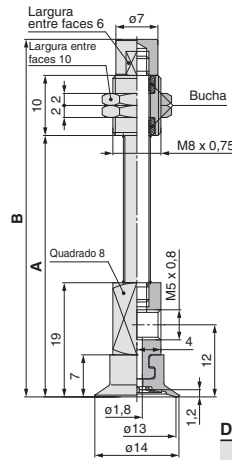
ZP3-Y13UM \square K \blacksquare -B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y10UM \square 15-B5	43,5	60	15,0	16,2
ZP3-Y10UM \square 20-B5	51	67,5	15,8	17,3

Nota 1) \square na tabela indica o material da ventosa "N, S, U, F, GN, GS".
Nota 2) O símbolo "*" indica o tipo de amortecedor "JB" ou "K".



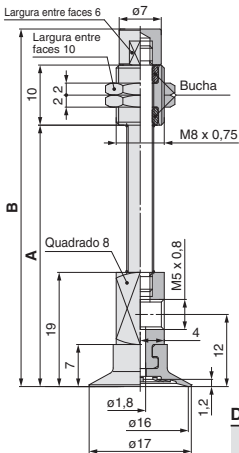
Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y13UM \square 15-B5	43,5	60	15,1	16,3
ZP3-Y13UM \square 20-B5	51	67,5	15,9	17,4

Nota 1) \square na tabela indica o material da ventosa "N, S, U, F, GN, GS".
Nota 2) O símbolo "*" indica o tipo de amortecedor "JB" ou "K".

ZP3-Y16UM \square JB \blacksquare -B5

ZP3-Y16UM \square K \blacksquare -B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y16UM \square 15-B5	43,5	60	15,2	16,4
ZP3-Y16UM \square 20-B5	51	67,5	16,0	17,5

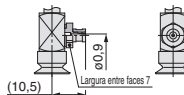
Nota 1) \square na tabela indica o material da ventosa "N, S, U, F, GN, GS".
Nota 2) O símbolo "*" indica o tipo de amortecedor "JB" ou "K".

Dimensões da entrada de vácuo

Conexão espigão

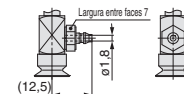
Conexão instantânea

ZP3-Y10UM \square * \blacksquare -U2
ZP3-Y13UM \square * \blacksquare -U2
ZP3-Y16UM \square * \blacksquare -U2



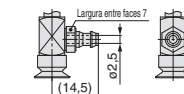
M-5AU-2 [Peso: 1,5 g]²

ZP3-Y10UM \square * \blacksquare -U4
ZP3-Y13UM \square * \blacksquare -U4
ZP3-Y16UM \square * \blacksquare -U4



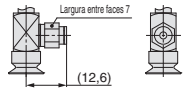
M-5AU-4-X83 [Peso: 1,6 g]²

ZP3-Y10UM \square * \blacksquare -U6
ZP3-Y13UM \square * \blacksquare -U6
ZP3-Y16UM \square * \blacksquare -U6



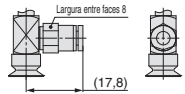
M-5AU-6-X83 [Peso: 1,8 g]²

ZP3-Y10UM \square * \blacksquare -02
ZP3-Y13UM \square * \blacksquare -02
ZP3-Y16UM \square * \blacksquare -02



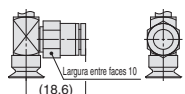
KJH02-M5 [Peso: 1,9 g]²

ZP3-Y10UM \square * \blacksquare -04
ZP3-Y13UM \square * \blacksquare -04
ZP3-Y16UM \square * \blacksquare -04



KJH04-M5 [Peso: 2,4 g]²

ZP3-Y10UM \square * \blacksquare -06
ZP3-Y13UM \square * \blacksquare -06
ZP3-Y16UM \square * \blacksquare -06



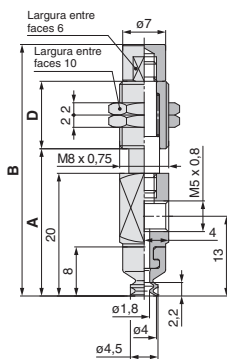
KJH06-M5 [Peso: 3,3 g]²

*1 Consulte "ZP3-Y \blacktriangle \square * \blacksquare -B5" para obter dimensões.

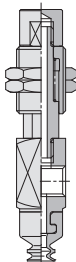
*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y \blacktriangle \square * \blacksquare -B5".

Dimensões/Com amortecedor: Entrada de vácuo **Lateral**

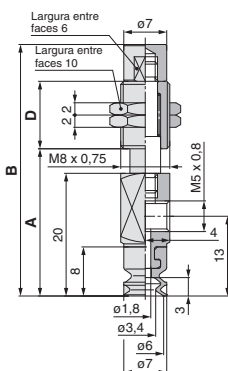
ZP3-Y04B□J■-B5



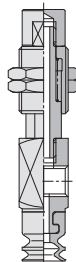
ZP3-Y04B□K■-B5



ZP3-Y06B□J■-B5



ZP3-Y06B□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y04B□☆3-B5	24,5	42	11	12,8	12,2
ZP3-Y04B□☆6-B5	27	48	14,5	14,2	13,4
ZP3-Y04B□☆10-B5	31	58	20,5	16,6	15,4

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

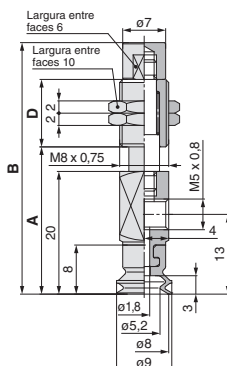
Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y06B□☆3-B5	24,5	42	11	12,8	12,2
ZP3-Y06B□☆6-B5	27	48	14,5	14,2	13,4
ZP3-Y06B□☆10-B5	31	58	20,5	16,6	15,4

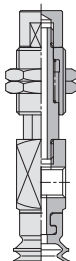
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

ZP3-Y08B□J■-B5



ZP3-Y08B□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y08B□☆3-B5	24,5	42	11	12,9	12,3
ZP3-Y08B□☆6-B5	27	48	14,5	14,3	13,5
ZP3-Y08B□☆10-B5	31	58	20,5	16,7	15,5

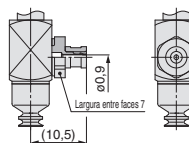
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Dimensões da entrada de vácuo

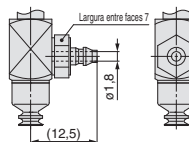
Conexão espigão

ZP3-Y04B□☆■-U2
ZP3-Y06B□☆■-U2
ZP3-Y08B□☆■-U2



M-5AU-2 [Peso: 1,5 g]²

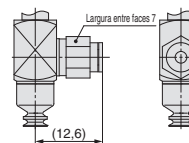
ZP3-Y04B□☆■-U4
ZP3-Y06B□☆■-U4
ZP3-Y08B□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

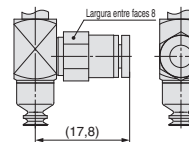
Conexão instantânea

ZP3-Y04B□☆■-02
ZP3-Y06B□☆■-02
ZP3-Y08B□☆■-02



KJH02-M5 [Peso: 1,9 g]²

ZP3-Y04B□☆■-04
ZP3-Y06B□☆■-04
ZP3-Y08B□☆■-04



KJH04-M5 [Peso: 2,4 g]²

*1 Consulte "ZP3-Y▲▲B□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲B□☆■-B5".

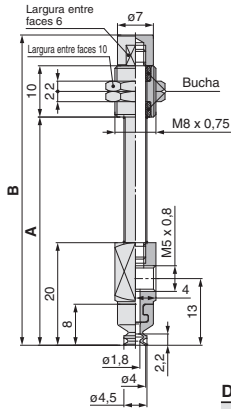
Diâmetro da ventosa ø4 a ø8

Tipo de ventosa Foles

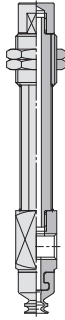
Curso 15, 20 mm

Dimensões/Com amortecedor: Entrada de vácuo **Lateral**

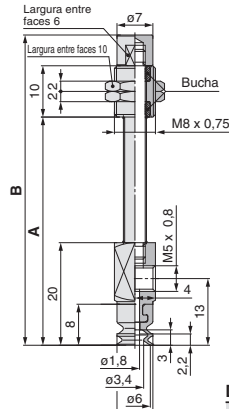
ZP3-Y04B□JB■-B5



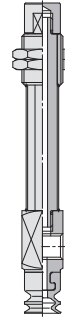
ZP3-Y04B□K■-B5



ZP3-Y06B□JB■-B5



ZP3-Y06B□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y04B□☆15-B5	44,5	61	14,3	15,5
ZP3-Y04B□☆20-B5	52	68,5	15,1	16,6

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

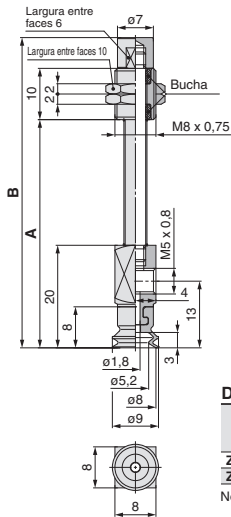
Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y06B□☆15-B5	44,5	61	14,3	15,5
ZP3-Y06B□☆20-B5	52	68,5	15,1	16,6

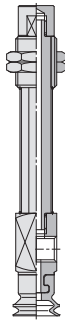
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

ZP3-Y08B□JB■-B5



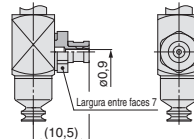
ZP3-Y08B□K■-B5



Dimensões da entrada de vácuo

Conexão espigão

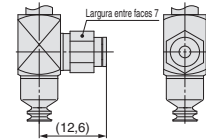
ZP3-Y04B□☆■-U2
ZP3-Y06B□☆■-U2
ZP3-Y08B□☆■-U2



M-5AU-2 [Peso: 1,5 g]²

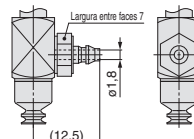
Conexão instantânea

ZP3-Y04B□☆■-02
ZP3-Y06B□☆■-02
ZP3-Y08B□☆■-02



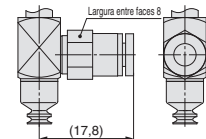
KJH02-M5 [Peso: 1,9 g]²

ZP3-Y04B□☆■-U4
ZP3-Y06B□☆■-U4
ZP3-Y08B□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

ZP3-Y04B□☆■-04
ZP3-Y06B□☆■-04
ZP3-Y08B□☆■-04



KJH04-M5 [Peso: 2,4 g]²

Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y08B□☆15-B5	44,5	61	14,4	15,6
ZP3-Y08B□☆20-B5	52	68,5	15,2	16,7

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

*1 Consulte "ZP3-Y▲▲B□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲B□☆■-B5".

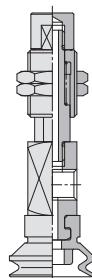
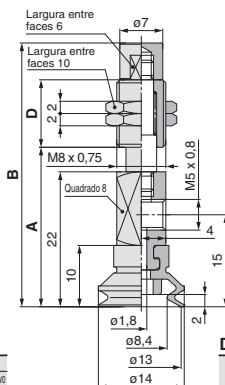
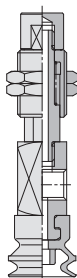
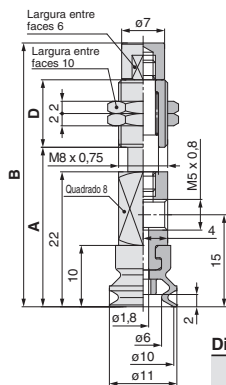
Dimensões/Com amortecedor: Entrada de vácuo **Lateral**

ZP3-Y10B□J■-B5

ZP3-Y10B□K■-B5

ZP3-Y13B□J■-B5

ZP3-Y13B□K■-B5



Dimensões (por curso)

Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y10B□-3-B5	26,5	44	11	13,8	13,2
ZP3-Y10B□-6-B5	29	50	14,5	15,1	14,2
ZP3-Y10B□-10-B5	33	60	20,5	17,5	16,3

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "*" indica o tipo de amortecedor "J" ou "K".

Dimensões (por curso)

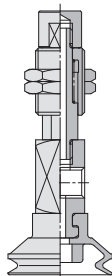
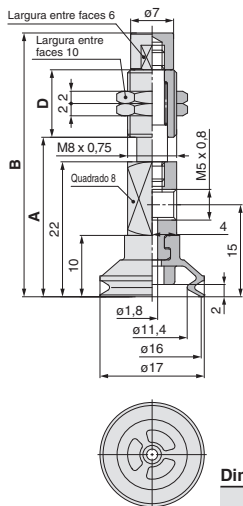
Modelo	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y13B□-3-B5	26,5	44	11	14,0	13,4
ZP3-Y13B□-6-B5	29	50	14,5	15,3	14,4
ZP3-Y13B□-10-B5	33	60	20,5	17,7	16,5

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "*" indica o tipo de amortecedor "J" ou "K".

ZP3-Y16B□J■-B5

ZP3-Y16B□K■-B5



Dimensões (por curso)

Model	A	B	D	Peso (g)	
				Rotativo (J)	Não rotativo (K)
ZP3-Y16B□-3-B5	26,5	44	11	14,1	13,5
ZP3-Y16B□-6-B5	29	50	14,5	15,4	14,5
ZP3-Y16B□-10-B5	33	60	20,5	17,8	16,6

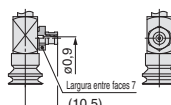
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "*" indica o tipo de amortecedor "J" ou "K".

Dimensões da entrada de vácuo

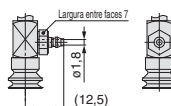
Conexão espigão

ZP3-Y10B□-U2
ZP3-Y13B□-U2
ZP3-Y16B□-U2



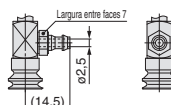
M-5AU-2 [Peso: 1,5 g]²

ZP3-Y10B□-U4
ZP3-Y13B□-U4
ZP3-Y16B□-U4



M-5AU-4-X83 [Peso: 1,6 g]²

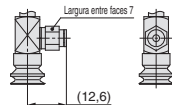
ZP3-Y10B□-U6
ZP3-Y13B□-U6
ZP3-Y16B□-U6



M-5AU-6-X83 [Peso: 1,8 g]²

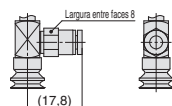
Conexão instantânea

ZP3-Y10B□-02
ZP3-Y13B□-02
ZP3-Y16B□-02



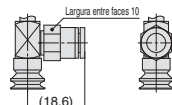
KJH02-M5 [Peso: 1,9 g]²

ZP3-Y10B□-04
ZP3-Y13B□-04
ZP3-Y16B□-04



KJH04-M5 [Peso: 2,4 g]²

ZP3-Y10B□-06
ZP3-Y13B□-06
ZP3-Y16B□-06



KJH06-M5 [Peso: 3,3 g]²

*1 Consulte "ZP3-Y▲▲B□-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲B□-B5".

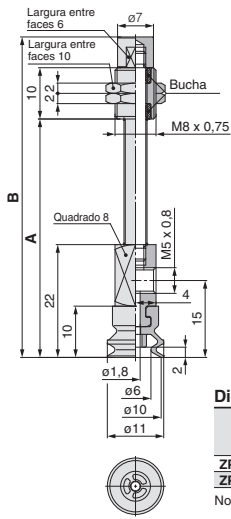
Diâmetro da ventosa $\varnothing 10$ a $\varnothing 16$

Tipo de ventosa **Foles**

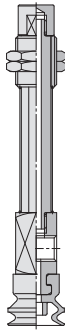
Curso **15, 20 mm**

Dimensões/Com amortecedor: Entrada de vácuo **Lateral**

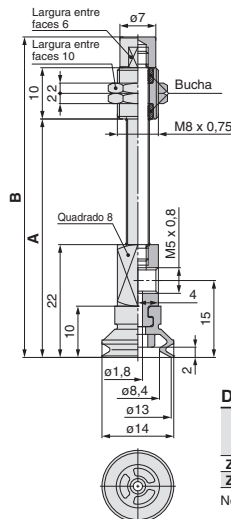
ZP3-Y10B□JB■-B5



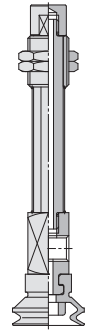
ZP3-Y10B□K■-B5



ZP3-Y13B□JB■-B5



ZP3-Y13B□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y10B□☆15-B5	46,5	63	15,2	16,4
ZP3-Y10B□☆20-B5	54	70,5	16,0	17,5

Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

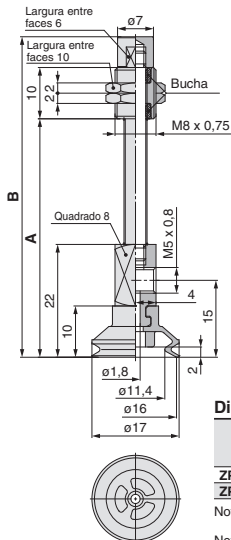
Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y13B□☆15-B5	46,5	63	15,4	16,6
ZP3-Y13B□☆20-B5	54	70,5	16,2	17,7

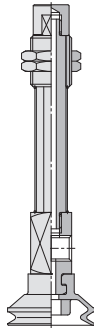
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

ZP3-Y16B□JB■-B5



ZP3-Y16B□K■-B5



Dimensões (por curso)

Modelo	A	B	Peso (g)	
			Rotativo (J)	Não rotativo (K)
ZP3-Y16B□☆15-B5	46,5	63	15,5	16,7
ZP3-Y16B□☆20-B5	54	70,5	16,3	17,8

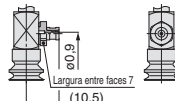
Nota 1) □ na tabela indica o material da ventosa "N, S, U, F, GN, GS".

Nota 2) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

Dimensões da entrada de vácuo

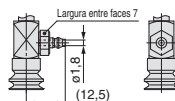
Conexão espigão

ZP3-Y10B□☆■-U2
ZP3-Y13B□☆■-U2
ZP3-Y16B□☆■-U2



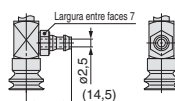
M-5AU-2 [Peso: 1,5 g]²

ZP3-Y10B□☆■-U4
ZP3-Y13B□☆■-U4
ZP3-Y16B□☆■-U4



M-5AU-4-X83 [Peso: 1,6 g]²

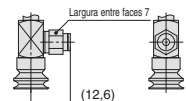
ZP3-Y10B□☆■-U6
ZP3-Y13B□☆■-U6
ZP3-Y16B□☆■-U6



M-5AU-6-X83 [Peso: 1,8 g]²

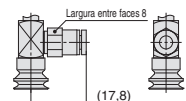
Conexão instantânea

ZP3-Y10B□☆■-02
ZP3-Y13B□☆■-02
ZP3-Y16B□☆■-02



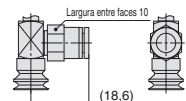
KJH02-M5 [Peso: 1,9 g]²

ZP3-Y10B□☆■-04
ZP3-Y13B□☆■-04
ZP3-Y16B□☆■-04



KJH04-M5 [Peso: 2,4 g]²

ZP3-Y10B□☆■-06
ZP3-Y13B□☆■-06
ZP3-Y16B□☆■-06



KJH06-M5 [Peso: 3,3 g]²

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

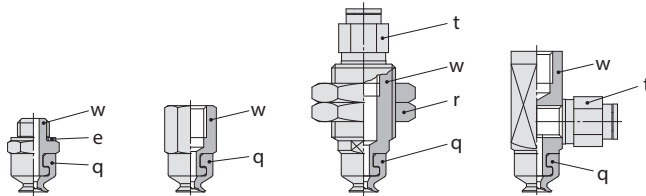
*1 Consulte "ZP3-Y▲▲B□☆■-B5" para obter dimensões.

*2 Ao calcular o peso, adicione o peso da conexão a "ZP3-Y▲▲B□☆■-B5".

Série ZP3 Construção

Lista de peças de componentes

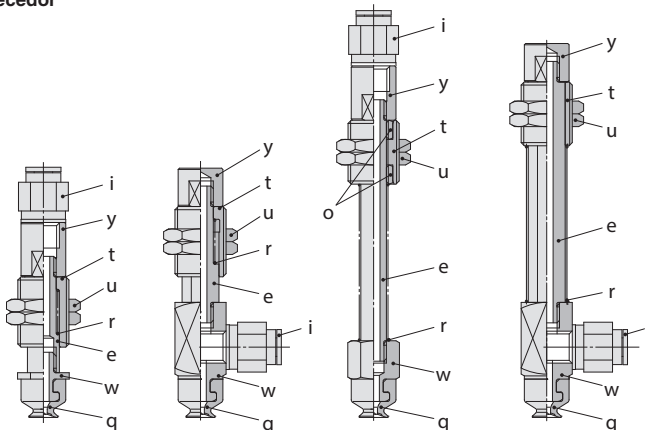
Ventosa com adaptador



Lista de peças

Nº	Descrição	Material (tratamento de superfície)	Nota
1	Ventosa	NBR/Borracha de silicone Borracha de uretano/FKM NBR condutor/Borracha de silicone condutora	
2	Adaptador	Latão (revestido com níquel)	
3	Gaxeta	Aço inoxidável 304/NBR	
4	Porca	Aço estrutural (trivalente cromado)	M6 x 0,75
		Latão (revestido com níquel)	M8 x 0,75
		—	M12 x 1
5	Conexão		M10 x 1

Ventosa com amortecedor























Lista de peças

Nº	Descrição	Material (tratamento de superfície)	Nota
1	Ventosa	NBR/borracha de silicone Borracha de uretano/FKM NBR condutor/Borracha de silicone condutora	
2	Adaptador	Latão (revestido com níquel)	
3	Haste do pistão	Aço inoxidável	
4	Mola de retorno	Aço inoxidável	
5	Corpo do amortecedor	Latão (revestido com níquel)	
6	Adaptador do amortecedor	Latão (revestido com níquel)	
7	Porca	Aço estrutural (trivalente cromado)	
8	Conexão	—	
9	Bucha	—	

Série ZP3

Lista de ventosa aplicável ao adaptador

Referência do adaptador de montagem da Série ZP3

Referência do adaptador		Referência da ventosa aplicável	Página	Referência do adaptador		Referência da ventosa aplicável	Página
		Série ZP3				Série ZP3	
ZP3A-T1-A3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1168	ZP3A-T3-A12-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169
ZP3A-T1-B3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1168		ZP3A-T3-A12-04		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□
ZP3A-T1-A6-B3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1168	ZP3A-T3-A12-06			ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□
ZP3A-T2-A5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168		ZP3A-T2-A10-B5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□
ZP3A-T2-B5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168	ZP3A-T2-A10-04			ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□
ZP3A-T2-A10-B5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168		ZP3A-T3-A5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□
ZP3A-T2-A10-04		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168	ZP3A-T3-B5			ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□
ZP3A-T3-A5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1168		ZP3A-Y1-B3		ZP3-015U□ ZP3-02U□ ZP3-035U□
ZP3A-T3-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169	ZP3A-Y2-B5			ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□
ZP3A-T3-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169		ZP3A-Y3-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□

ZP3

ZP2

ZP2V

ZP

ZPT




ZPR





XT661

Série ZP3




Lista de ventosa aplicável ao adaptador


Referência do conjunto do amortecedor

Referência do conjunto do amortecedor	Referência da ventosa aplicável	Página	
			Série ZP3
ZP3B-T1J3-B3		ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1170
ZP3B-T1J6-B3			
ZP3B-T1K3-B3		ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1170
ZP3B-T1K6-B3			
ZP3B-T2AJ3-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AJ6-B5			
ZP3B-T2AJ10-B5			
ZP3B-T2AJ10-B5			

Referência do conjunto do amortecedor	Referência da ventosa aplicável	Página	
			Série ZP3
ZP3B-T2AK3-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK6-B5			
ZP3B-T2AK10-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AJB15-B5			
ZP3B-T2AJB20-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK15-B5			
ZP3B-T2AK20-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK20-B5			

Referência do conjunto do amortecedor

Referência do conjunto do amortecedor	Referência da ventosa aplicável	Página	
			Série ZP3
ZP3B-T2BJ3-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJ6-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJ10-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK3-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK6-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK10-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJB15-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJB20-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171

Referência do conjunto do amortecedor	Referência da ventosa aplicável	Página	
			Série ZP3
ZP3B-T2BK15-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK20-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-Y1J3-B3		ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172
ZP3B-Y1J6-B3		ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172
ZP3B-Y1K3-B3		ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172
ZP3B-Y1K6-B3		ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172

ZP3

ZP2

ZP2V

ZP

ZPT



ZPR

XT661



Série ZP3


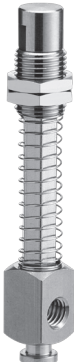
Referência do conjunto do amortecedor

Referência do conjunto do amortecedor	Referência da ventosa aplicável	Série ZP3	
		Referência do conjunto do amortecedor	Página
ZP3B-Y2AJ3-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AJ6-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AJ10-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK3-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK6-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK10-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172

Referência do conjunto do amortecedor	Referência da ventosa aplicável	Série ZP3	
		Referência do conjunto do amortecedor	Página
ZP3B-Y2AJB15-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AJB20-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK15-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK20-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172

Referência do conjunto do amortecedor

Referência do conjunto do amortecedor		Referência da ventosa aplicável	Página
		Série ZP3	
ZP3B-Y2BJ3-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BJ6-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BJ10-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK3-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK6-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK10-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173

Referência do conjunto do amortecedor		Referência da ventosa aplicável	Página
		Série ZP3	
ZP3B-Y2BJB15-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BJB20-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK15-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK20-B5		ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173

ZP3

ZP2

ZP2V

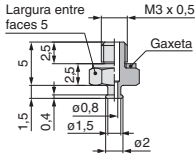
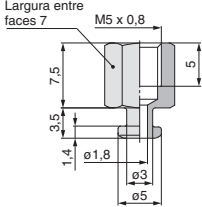
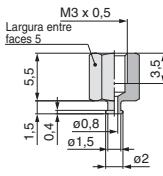
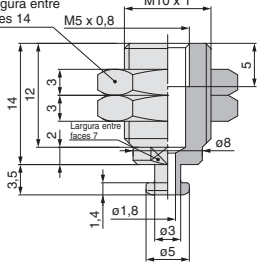
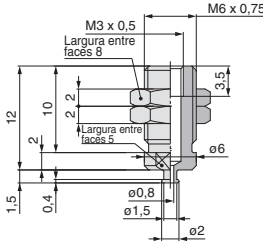
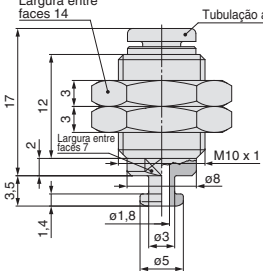
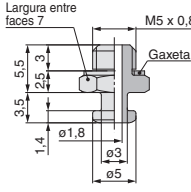
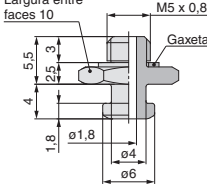
ZP

ZPT

ZPR

XT661

Direção da entrada de vácuo **Vertical**

<p>Referência do adaptador ZP3A-T1-A3 [Peso: 0,5 g]</p>	<p>Referência do adaptador ZP3A-T2-B5 [Peso: 2,0 g]</p>
 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-015U ZP3-02U ZP3-035U 	 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-04UM ZP3-06UM ZP3-08UM ZP3-04B ZP3-06B ZP3-08B
<p>Referência do adaptador ZP3A-T1-B3 [Peso: 0,8 g]</p>	<p>Referência do adaptador ZP3A-T2-A10-B5 [Peso: 10,7 g]</p>
 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-015U ZP3-02U ZP3-035U 	 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-04UM ZP3-06UM ZP3-08UM ZP3-04B ZP3-06B ZP3-08B
<p>Referência do adaptador ZP3A-T1-A6-B3 [Peso: 2,7 g]</p>	<p>Referência do adaptador ZP3A-T2-A10-04 [Peso: 9,9 g]</p>
 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-015U ZP3-02U ZP3-035U 	 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-04UM ZP3-06UM ZP3-08UM ZP3-04B ZP3-06B ZP3-08B
<p>Referência do adaptador ZP3A-T2-A5 [Peso: 1,4 g]</p>	<p>Referência do adaptador ZP3A-T3-A5 [Peso: 2,4 g]</p>
 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-04UM ZP3-06UM ZP3-08UM ZP3-04B ZP3-06B ZP3-08B 	 <p>Referência da ventosa aplicável</p> <ul style="list-style-type: none"> ZP3-10UM ZP3-13UM ZP3-16UM ZP3-10B ZP3-13B ZP3-16B

Direção da entrada de vácuo Vertical

Referência do adaptador **ZP3A-T3-B5** [Peso: 5,1 g]

Referência da ventosa aplicável

- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

Referência do adaptador **ZP3A-T3-A12-04** [Peso: 19,6 g]

Referência da ventosa aplicável

- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

Referência do adaptador **ZP3A-T3-A12-B5** [Peso: 18,2 g]

Referência da ventosa aplicável

- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

Referência do adaptador **ZP3A-T3-A12-06** [Peso: 17,5 g]

Referência da ventosa aplicável

- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

Direção da entrada de vácuo Lateral

Referência do adaptador **ZP3A-Y1-B3** [Peso: 1,8 g]

Referência da ventosa aplicável

- ZP3-015U
- ZP3-02U
- ZP3-035U

Referência do adaptador **ZP3A-Y2-B5** [Peso: 6,7 g]

Referência da ventosa aplicável

- ZP3-04UM
- ZP3-06UM
- ZP3-08UM
- ZP3-04B
- ZP3-06B
- ZP3-08B

Referência do adaptador **ZP3A-Y3-B5** [Peso: 7,1 g]

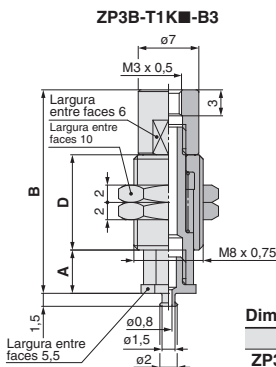
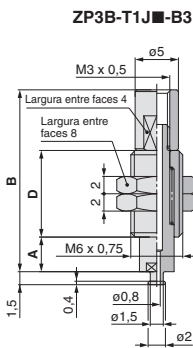
Referência da ventosa aplicável

- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

- ZP3
- ZP2
- ZP2V
- ZP
- ZPT
- ZPR
- XT661

Direção da entrada de vácuo **Vertical**

Referência do conjunto do amortecedor	Peso (g)
ZP3B-T1J3-B3	3,5
ZP3B-T1J6-B3	4,3
ZP3B-T1K3-B3	6,7
ZP3B-T1K6-B3	8,1



Referência da ventosa aplicável
ZP3-015U
ZP3-02U
ZP3-035U

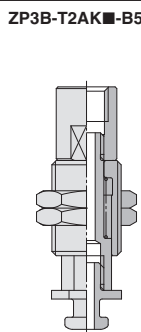
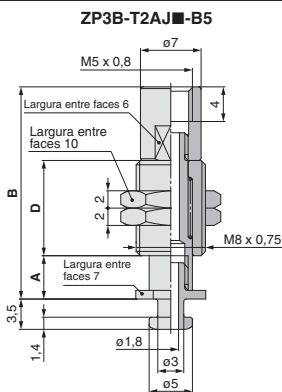
Dimensões (por curso)

Modelo	A	B	D
ZP3B-T1J3-B3	4	21	10
ZP3B-T1J6-B3	7	28	14

Dimensões (por curso)

Modelo	A	B	D
ZP3B-T1K3-B3	5	23,5	11
ZP3B-T1K6-B3	8	30	14,5

Referência do conjunto do amortecedor	Peso (g)
ZP3B-T2AJ3-B5	7,1
ZP3B-T2AJ6-B5	8,3
ZP3B-T2AJ10-B5	10,2
ZP3B-T2AK3-B5	7,0
ZP3B-T2AK6-B5	8,3
ZP3B-T2AK10-B5	10,2



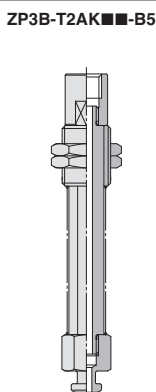
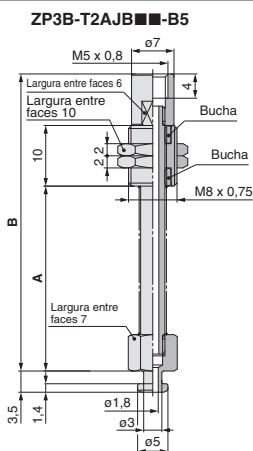
Referência da ventosa aplicável
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

Dimensões (por curso)

Modelo	A	B	D
ZP3B-T2A☆3-B5	5	24,5	11
ZP3B-T2A☆6-B5	8	31	14,5
ZP3B-T2A☆10-B5	12	41	20,5

Nota) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Referência do conjunto do amortecedor	Peso (g)
ZP3B-T2AJB15-B5	10,0
ZP3B-T2AJB20-B5	10,6
ZP3B-T2AK15-B5	12,0
ZP3B-T2AK20-B5	13,1



Referência da ventosa aplicável
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

Dimensões (por curso)

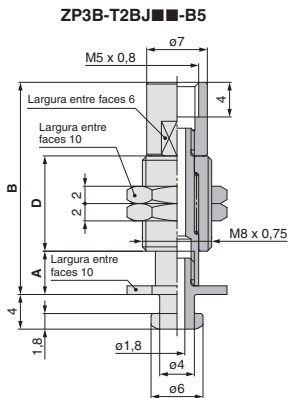
Modelo	A	B
ZP3B-T2A☆15-B5	30,5	49
ZP3B-T2A☆20-B5	38	56,5

Nota) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

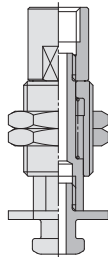
* Consulte a página 897 para saber o torque de aperto da porca.

Direção da entrada de vácuo **Vertical**

Referência do conjunto do amortecedor	Peso (g)
ZP3B-T2BJ3-B5	7,8
ZP3B-T2BJ6-B5	8,9
ZP3B-T2BJ10-B5	10,9
ZP3B-T2BK3-B5	7,7
ZP3B-T2BK6-B5	8,9
ZP3B-T2BK10-B5	10,9



ZP3B-T2BK■■■-B5



Referência da ventosa aplicável

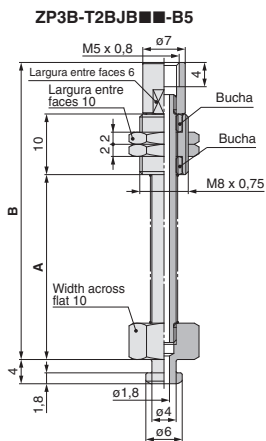
- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

Dimensões (por curso)

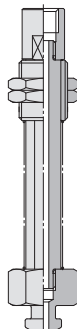
Modelo	A	B	D
ZP3B-T2B☆3-B5	5	24,5	11
ZP3B-T2B☆6-B5	8	31	14,5
ZP3B-T2B☆10-B5	12	41	20,5

Nota) O símbolo "☆☆" indica o tipo de amortecedor "J" ou "K".

Referência do conjunto do amortecedor	Peso (g)
ZP3B-T2BJB15-B5	12,5
ZP3B-T2BJB20-B5	15,6
ZP3B-T2BK15-B5	14,5
ZP3B-T2BK20-B5	15,6



ZP3B-T2BK■■■-B5



Referência da ventosa aplicável

- ZP3-10UM
- ZP3-13UM
- ZP3-16UM
- ZP3-10B
- ZP3-13B
- ZP3-16B

Dimensões (por curso)

Modelo	A	B
ZP3B-T2B☆15-B5	30,5	49
ZP3B-T2B☆20-B5	38	56,5

Nota) O símbolo "☆☆" indica o tipo de amortecedor "JB" ou "K".

ZP3

ZP2

ZP2V

ZP

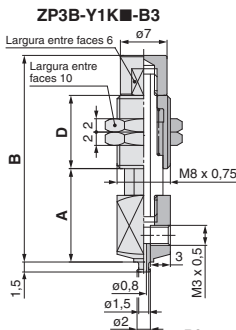
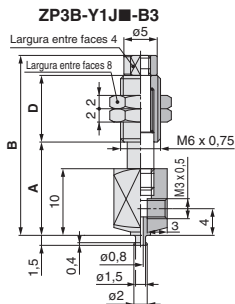
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Direção da entrada de vácuo **Lateral**

Referência do conjunto do amortecedor	Peso (g)
ZP3B-Y1J3-B3	7,6
ZP3B-Y1J6-B3	8,5
ZP3B-Y1K3-B3	10,9
ZP3B-Y1K6-B3	12,1



Referência da ventosa aplicável
ZP3-015U
ZP3-02U
ZP3-035U

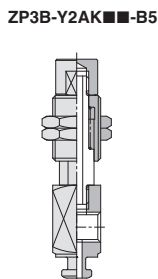
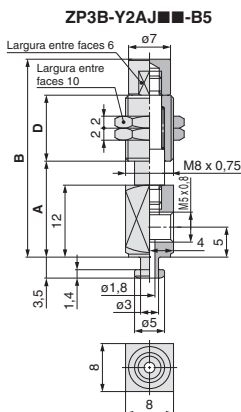
Dimensões (por curso)

Modelo	A	B	D
ZP3B-Y1J3-B3	14	27	10
ZP3B-Y1J6-B3	17	34	14

Dimensões (por curso)

Modelo	A	B	D
ZP3B-Y1K3-B3	14	31	11
ZP3B-Y1K6-B3	17	37,5	14,5

Referência do conjunto do amortecedor	Peso (g)
ZP3B-Y2AJ3-B5	12,5
ZP3B-Y2AJ6-B5	13,9
ZP3B-Y2AJ10-B5	16,3
ZP3B-Y2AK3-B5	11,9
ZP3B-Y2AK6-B5	13,1
ZP3B-Y2AK10-B5	15,1



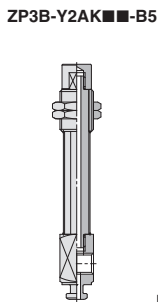
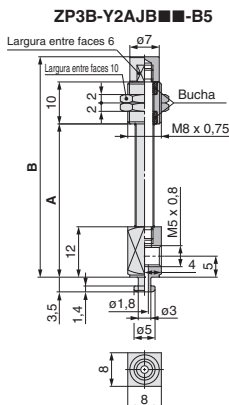
Referência da ventosa aplicável
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

Dimensões (por curso)

Modelo	A	B	D
ZP3B-Y2A☆3-B5	16,5	34	11
ZP3B-Y2A☆6-B5	19	40	14,5
ZP3B-Y2A☆10-B5	23	50	20,5

Nota) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Referência do conjunto do amortecedor	Peso (g)
ZP3B-Y2AJB15-B5	14,0
ZP3B-Y2AJB20-B5	14,8
ZP3B-Y2AK15-B5	15,2
ZP3B-Y2AK20-B5	16,3



Referência da ventosa aplicável
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

Dimensões (por curso)

Modelo	A	B
ZP3B-Y2A☆15-B5	36,5	53
ZP3B-Y2A☆20-B5	44	60,5

Nota) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

Referência do conjunto do amortecedor *Série ZP3*

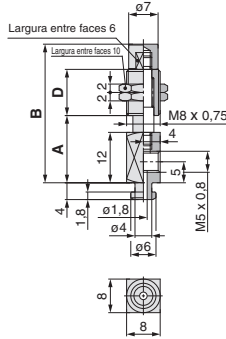
* Consulte a página 897 para saber o torque de aperto da porca.

Direção da entrada de vácuo **Lateral**

Referência do conjunto do amortecedor	Peso (g)
ZP3B-Y2BJ3-B5	13,0
ZP3B-Y2BJ6-B5	14,3
ZP3B-Y2BJ10-B5	16,7
ZP3B-Y2BK3-B5	12,4
ZP3B-Y2BK6-B5	13,6
ZP3B-Y2BK10-B5	15,5

ZP3B-Y2BJ■-B5

ZP3B-Y2BK■-B5



Referência da ventosa aplicável

ZP3-10UM
ZP3-13UM
ZP3-16UM
ZP3-10B
ZP3-13B
ZP3-16B

Dimensões (por curso)

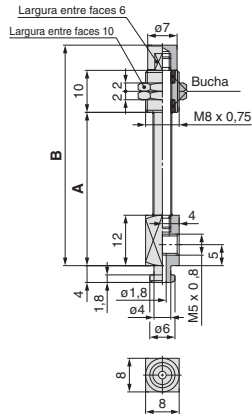
Modelo	A	B	D
ZP3B-Y2B☆3-B5	16,5	34	11
ZP3B-Y2B☆6-B5	19	40	14,5
ZP3B-Y2B☆10-B5	23	50	20,5

Nota) O símbolo "☆" indica o tipo de amortecedor "J" ou "K".

Referência do conjunto do amortecedor	Peso (g)
ZP3B-Y2BJB15-B5	14,4
ZP3B-Y2BJB20-B5	15,2
ZP3B-Y2BK15-B5	15,6
ZP3B-Y2BK20-B5	16,7

ZP3B-Y2BJB■-B5

ZP3B-Y2BK■-B5



Referência da ventosa aplicável

ZP3-10UM
ZP3-13UM
ZP3-16UM
ZP3-10B
ZP3-13B
ZP3-16B

Dimensões (por curso)

Modelo	A	B
ZP3B-Y2B☆15-B5	36,5	53
ZP3B-Y2B☆20-B5	44	60,5

Nota) O símbolo "☆" indica o tipo de amortecedor "JB" ou "K".

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

