

Soft gripper HPSX

FESTO



Characteristics

At a glance

Link [hpsx](#)

With its soft fingers, the soft gripper HPSX is specifically designed to gently grip delicate objects such as fruit or luxury items. It adapts flexibly to different shapes and geometries. The gripper is used in the food and packaging industries as well as in other sectors where sensitive and differently shaped objects need to be handled reliably.

- Suitable for direct contact with food according to European Regulation (EC) No. 1935/2004
- Soft fingers for gently gripping sensitive objects
- Food safety thanks to food contact materials (FDA) and IP69K certification
- Less machine downtime, maintenance and cleaning effort thanks to the clean design and simple installation
- Flexible gripper thanks to the different sizes and number of gripper fingers
- Collaborative: Suitable for use on cobots and industrial robots thanks to its soft design
- Quick and easy to install thanks to ISO-standardised interface ISO50 with defined positioning
- Supplied as individual components for quick and easy self-assembly

Engineering tools

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Gripper selection:

- This tool helps you to select the right grippers by simply entering the exact parameters for your application

Number of fingers

[2]	2 pieces	[3]	3 pieces
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[4]	4 pieces
-----	----------



Characteristics

Robot connection

[RA50] Flange ISO 9409-1-50-4-M6

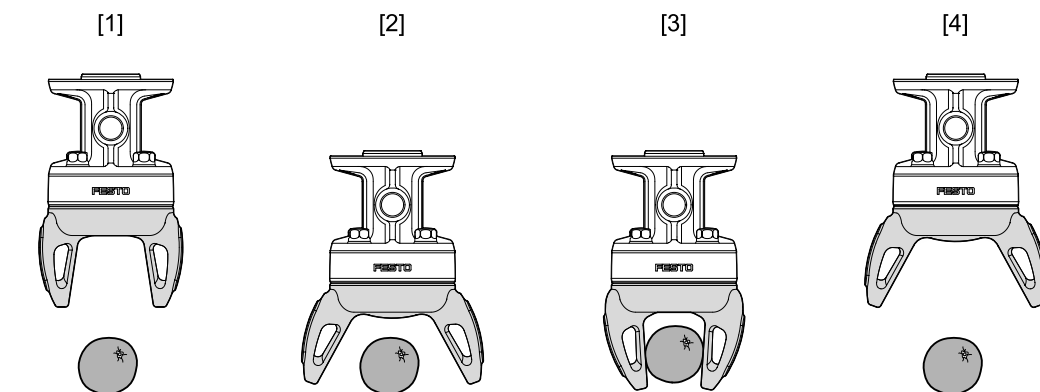
The gripper with robot connection can be quickly integrated in a lightweight robot environment.

The gripper can be connected to a wide range of robots with the ISO 9409-1-50-4-M6 interface. For example, to robots from the manufacturers:

- Universal Robots
- Fanuc
- Hanwha
- Aubo
- Doosan

The scope of delivery of the gripper with robot connection also includes the centring pin required for mounting.

Overview



Functional principle of the actuation:

[1] Positioning element:

- Move the gripper over the gripped object
- Gripper is exhausted

[2] Open:

- Exhaust the gripper or apply overpressure to open the gripper fingers
- Align the gripper with the gripped object

[3] Gripping:

- Apply low pressure to the gripper to close the gripper fingers
- The gripper fingers adapt flexibly to the shape of the gripped object
- Regulate the vacuum accordingly so that the object is held gently yet reliably

[4] Setting down:

- Exhaust the gripper or apply overpressure to open the gripper fingers
- Move the gripper away from the gripped object

Type code

001	Series	
HPSX	Soft gripper	
002	Size [mm]	
40	40	
70	70	
100	100	
003	Number of fingers	
2	2 pieces	
3	3 pieces	
4	4 pieces	

004	Material	
S	Silicone	
005	Shore hardness	
40	40	
006	Colour	
BU	Blue	
007	Robot connection	
RA50	Flange ISO 9409-1-50-4-M6	

Datasheet

General technical data

The technical data is valid for the following conditions:

Gripping object: Steel ball with smooth, turned surface

Diameter:

- HPSX-40: Ø 30/55 mm
- HPSX-70: Ø 55/80 mm
- HPSX-100: Ø 80/110 mm

Weight:

- HPSX-40: 50 g
- HPSX-70: 200 g
- HPSX-100: 500 g

The values may differ if another type of object needs to be gripped.

Sharp-edged gripped objects can affect the service life of the inverting cap.

Size	40			70			100		
Number of gripper fingers	2	3	4	2	3	4	2	3	4
Working stroke	0 ... 55 mm			20 ... 90 mm			30 ... 125 mm		
Design	Form-fitting Frictional locking								
Drive system	Pneumatic								
Mode of operation	Double-acting								
Gripper function	Adaptive								
Pneumatic connection	G1/4								
Max. operating frequency of gripper	5 Hz								
Type of mounting	To ISO 9409-1-50-4-M6								
Mounting position	Any								
Min. ø to be gripped	30 mm			55 mm			80 mm		
Max. ø to be gripped	55 mm			80 mm			110 mm		
Total gripping force	5 N		9 N	7 N	10 N	11 N	15 N	22 N	23 N
Product weight	240 g	248 g	262 g	299 g	318 g	329 g	532 g	582 g	632 g
Shore hardness	A 40 +5								
Colour	Blue								

Operating and environmental conditions

Size	40	70	100
Operating pressure	-0.085 ... 0.02 MPa		
Operating pressure	-0.85 ... 0.2 bar		
Operating pressure	-12.325 ... 2.9 psi		
Burst pressure of cap	0.06 MPa		
Burst pressure of cap	0.6 bar		
Burst pressure of cap	8.7 psi		
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]		
Ambient temperature ¹⁾	0 ... 60°C		
Suitable for use with food	See supplementary material information		
Degree of protection	IP69K		
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6		
Corrosion resistance class CRC ²⁾	4 - Very high corrosion stress		

¹⁾ Observe the application range of the proximity switches

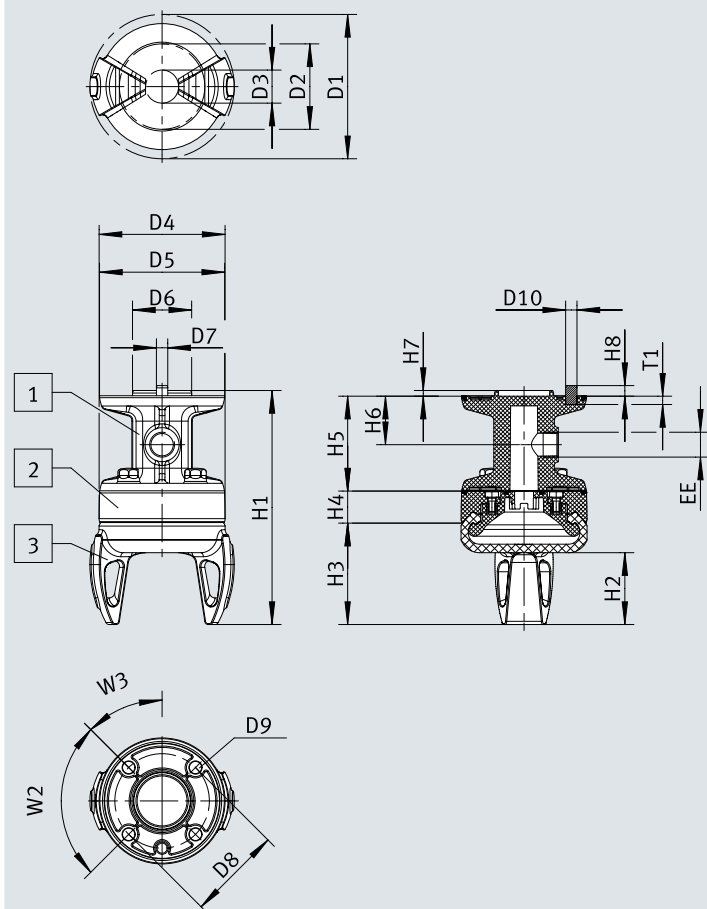
²⁾ More information www.festo.com/x/topic/crc

Datasheet

Materials			
Size	40	70	100
Material adapter	Reinforced PA		
Material cap	Reinforced PA		
Gripper finger material	VMQ (silicone), metal detectable		
Material screws	Stainless steel		
Note on materials	RoHS compliant		
LABS (PWIS) conformity	VDMA24364 zone III		

Dimensions

Dimensions – Soft gripper HPSX with 2 fingers

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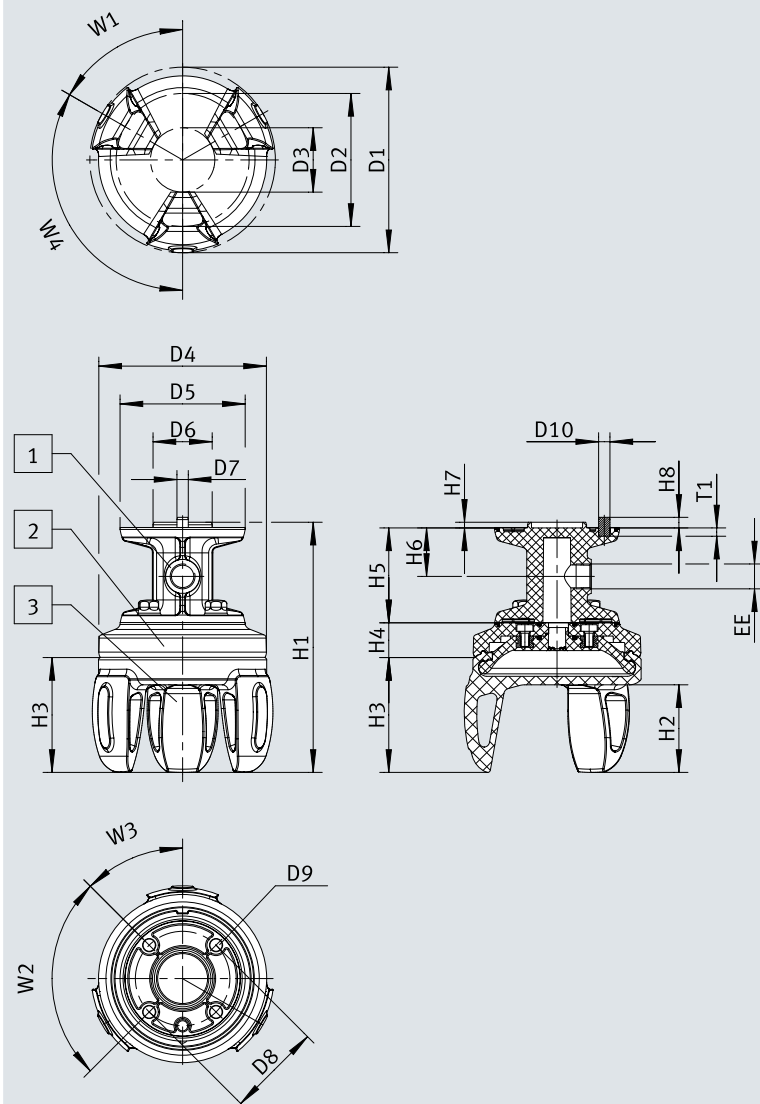
- [1] Adapter kit HAMA-MA-B33-RA50
 [2] Mounting kit HAMA-MM-B33-...
 [3] Gripper finger cap HAMA-GA-B33-...-S-40-BU

	D1 max.	D2 ø	D3 ø	D4 ø	D5 ø −0,4	D6 ø −0,1	D7 ø h8	D8 ø
HPSX-40-2-S-40-BU-RA50	76,4	45,2 ±0,35	17,5 ±0,2	66,6	66	31,3	6	50
HPSX-70-2-S-40-BU-RA50	98	70 ±0,5	34 ±0,35	89				
HPSX-100-2-S-40-BU-RA50	136	98 ±0,5	46 ±0,35	120				
	D9 ø +0,2	D10 ø +0,05	EE	H1	H2 ±0,4	H3	H4	H5 ±0,2
HPSX-40-2-S-40-BU-RA50	6,5	6	G1/4	123,8	38	53,7	17	50,2
HPSX-70-2-S-40-BU-RA50				132,3	46,3	60,7	18,4	
HPSX-100-2-S-40-BU-RA50				162,9	65	83,7	26	
	H6	H7	H8	T1 +0,1	W2	W3		
HPSX-40-2-S-40-BU-RA50	25,7	3	5,6	4,4	90°	45°		
HPSX-70-2-S-40-BU-RA50								
HPSX-100-2-S-40-BU-RA50								

Dimensions

Dimensions – Soft gripper HPSX with 3 fingers

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- [1] Adapter kit HAMA-MA-B33-RA50
- [2] Mounting kit HAMA-MM-B33-...
- [3] Gripper finger cap HAMA-GA-B33-...-S-40-BU

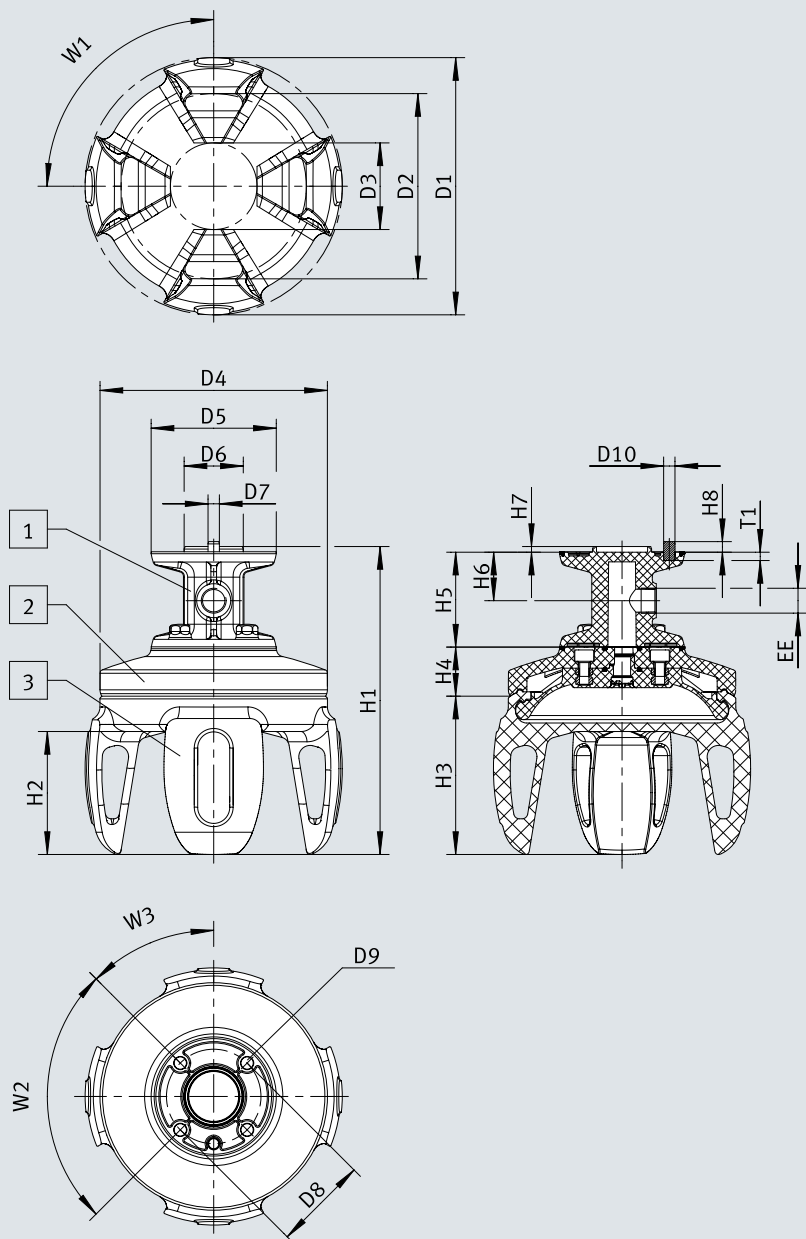
Dimensions

	D1 max.	D2 ∅	D3 ∅	D4 ∅	D5 ∅ −0,4	D6 ∅ −0,1	D7 ∅ h8	D8 ∅
HPSX-40-3-S-40-BU-RA50	76,4	45,2 ±0,35	17,5 ±0,2	66,6	66	31,3	6	50
HPSX-70-3-S-40-BU-RA50	98	70 ±0,5	34 ±0,35	89				
HPSX-100-3-S-40-BU-RA50	136	98 ±0,5	46 ±0,35	120				
	D9 ∅ +0,2	D10 ∅ +0,05	EE	H1	H2 ±0,4	H3	H4	H5 ±0,2
HPSX-40-3-S-40-BU-RA50	6,5	6	G1/4	123,8	38	53,7	17	50,2
HPSX-70-3-S-40-BU-RA50				132,3	46,3	60,7	18,4	
HPSX-100-3-S-40-BU-RA50				162,9	65	83,7	26	
	H6	H7	H8	T1 +0,1	W1	W2	W3	W4
HPSX-40-3-S-40-BU-RA50	25,7	3	5,6	4,4	60°	90°	45°	120°
HPSX-70-3-S-40-BU-RA50								
HPSX-100-3-S-40-BU-RA50								

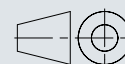
Dimensions

Dimensions – Soft gripper HPSX with 4 fingers

Download CAD data www.festo.com



- [1] Adapter kit HAMA-MA-B33-RA50
- [2] Mounting kit HAMA-MM-B33-...
- [3] Gripper finger cap HAMA-GA-B33-...-S-40-BU

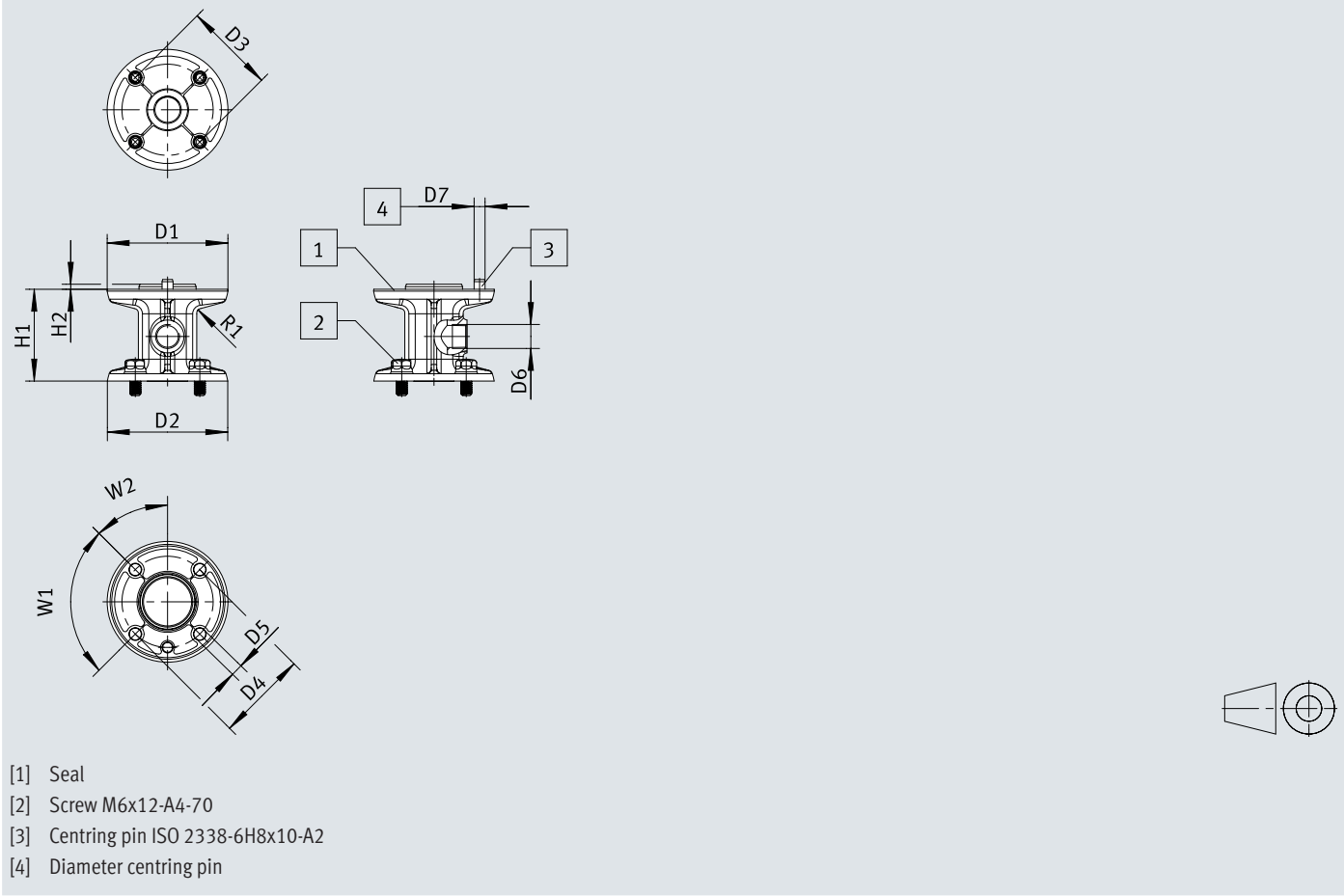


Dimensions

	D1 max.	D2 ø	D3 ø	D4 ø	D5 ø −0,4	D6 ø −0,1	D7 ø h8	D8 ø
HPSX-40-4-S-40-BU-RA50	76,4	45,2 ±0,35	17,5 ±0,2	66,6	66	31,3	6	50
HPSX-70-4-S-40-BU-RA50	98	70 ±0,5	34 ±0,35	89				
HPSX-100-4-S-40-BU-RA50	136	98 ±0,5	46 ±0,35	120				
	D9 ø +0,2	D10 ø +0,05	EE	H1	H2 ±0,4	H3	H4	H5 ±0,2
HPSX-40-4-S-40-BU-RA50	6,5	6	G1/4	123,8	38	53,7	17	50,2
HPSX-70-4-S-40-BU-RA50				132,3	46,3	60,7	18,4	
HPSX-100-4-S-40-BU-RA50				162,9	65	83,7	26	
	H6	H7	H8	T1 +0,1	W1	W2	W3	
HPSX-40-4-S-40-BU-RA50	25,7	3	5,6	4,4	90°	90°	45°	
HPSX-70-4-S-40-BU-RA50								
HPSX-100-4-S-40-BU-RA50								

Dimensions

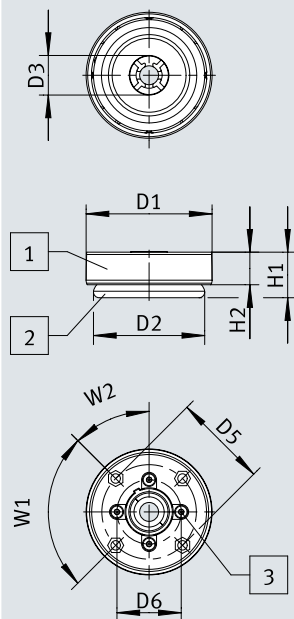
Dimensions – Adapter kit HAMA-MA-B33-RA50 Download CAD data www.festo.com



	D1 ø -0,4	D2 ø +0,2	D3 ø	D4 ø	D5 ø +0,2	D6	D7 ø +0,05	H1 ±0,2	H2 -0,1	R1	W1	W2
HAMA-MA-B33-RA50	66	66	50	50	6,5	G1/4	6	50	3	~2,5	90°	45°

Dimensions

Dimensions – Mounting kit HAMA-MM-B33-40

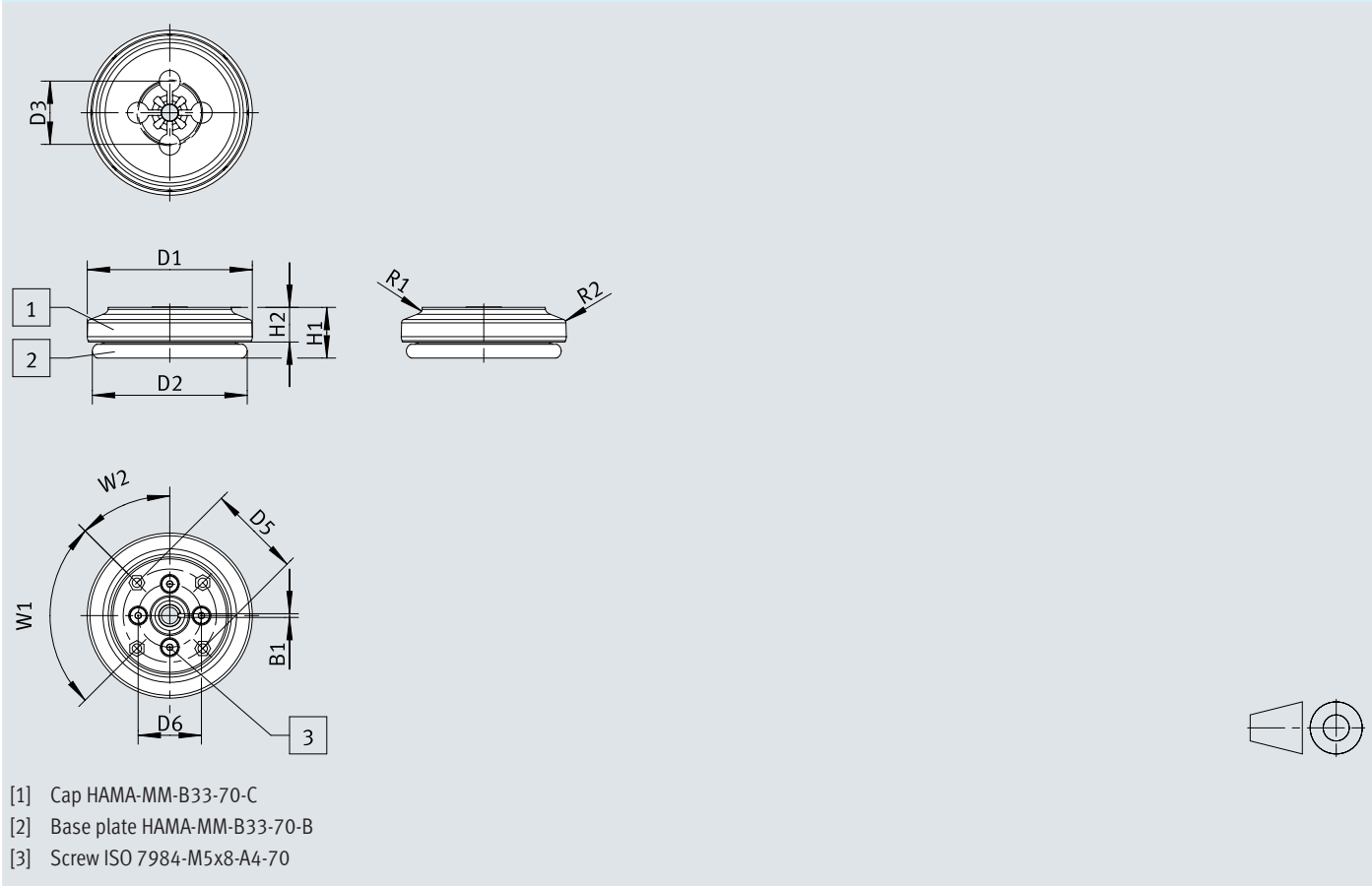
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- [1] Cap HAMA-MM-B33-40-C
 [2] Base plate HAMA-MM-B33-40-B
 [3] Screw DIN 7984-M4x8-A4-70

	D1 Ø +0,2	D2 Ø +0,2	D3 Ø	D5 Ø	D6 Ø	H1	H2	W1	W2
HAMA-MM-B33-40	65,6	58,8	20,7	50	34	~24,1	17	90°	45°

Dimensions

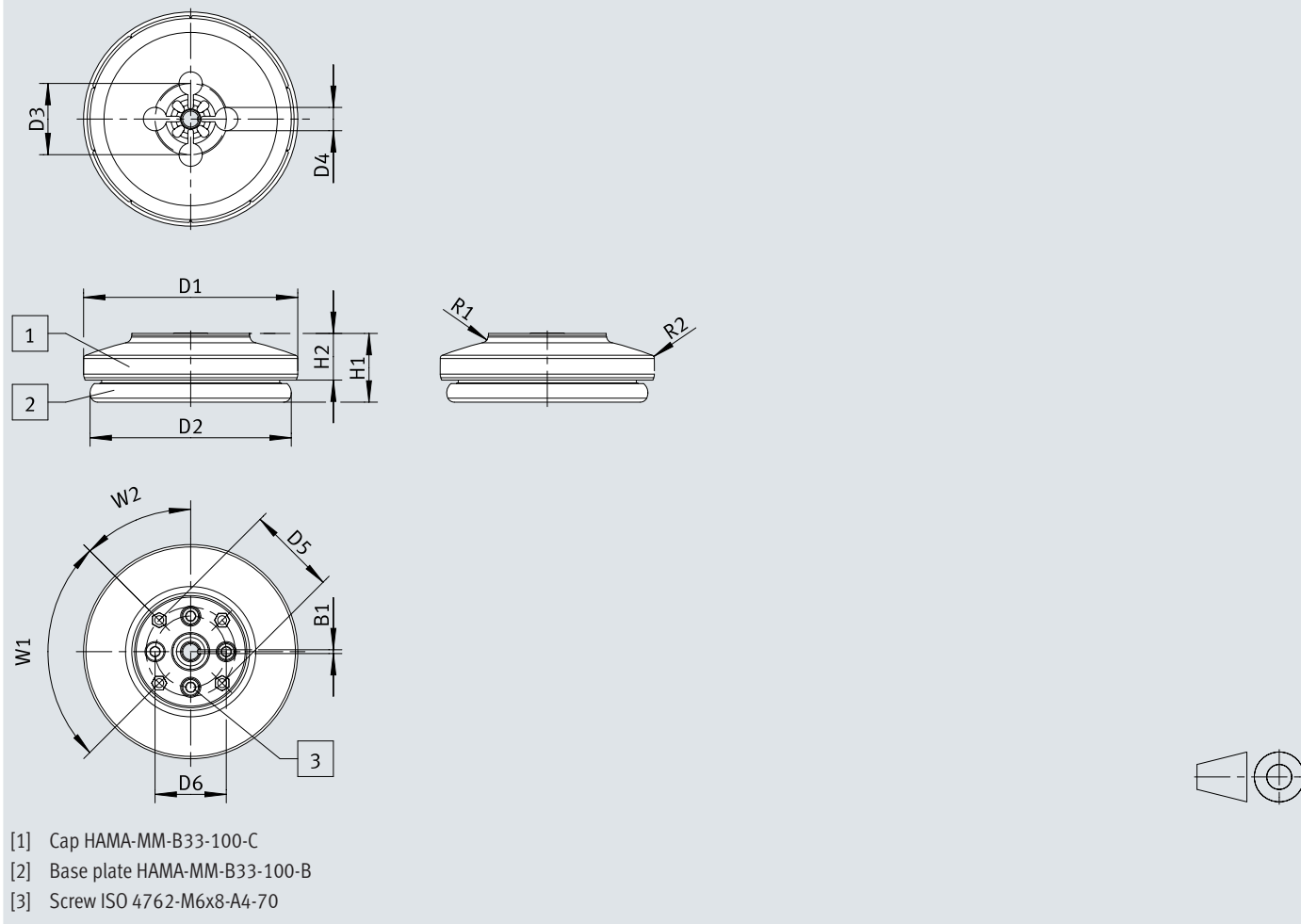
Dimensions – Mounting kit HAMA-MM-B33-70 Download CAD data www.festo.com



	B1	D1 ø	D2 ø	D3 ø	D5 ø	D6 ø	H1	H2	R1	R2	W1	W2
	-0,1	+0,2/-0,1	+0,3									
HAMA-MM-B33-70	2	88	83	34	50	34	~27,2	18,4	~4,3	~1,6	90°	45°

Dimensions

Dimensions – Mounting kit HAMA-MM-B33-100

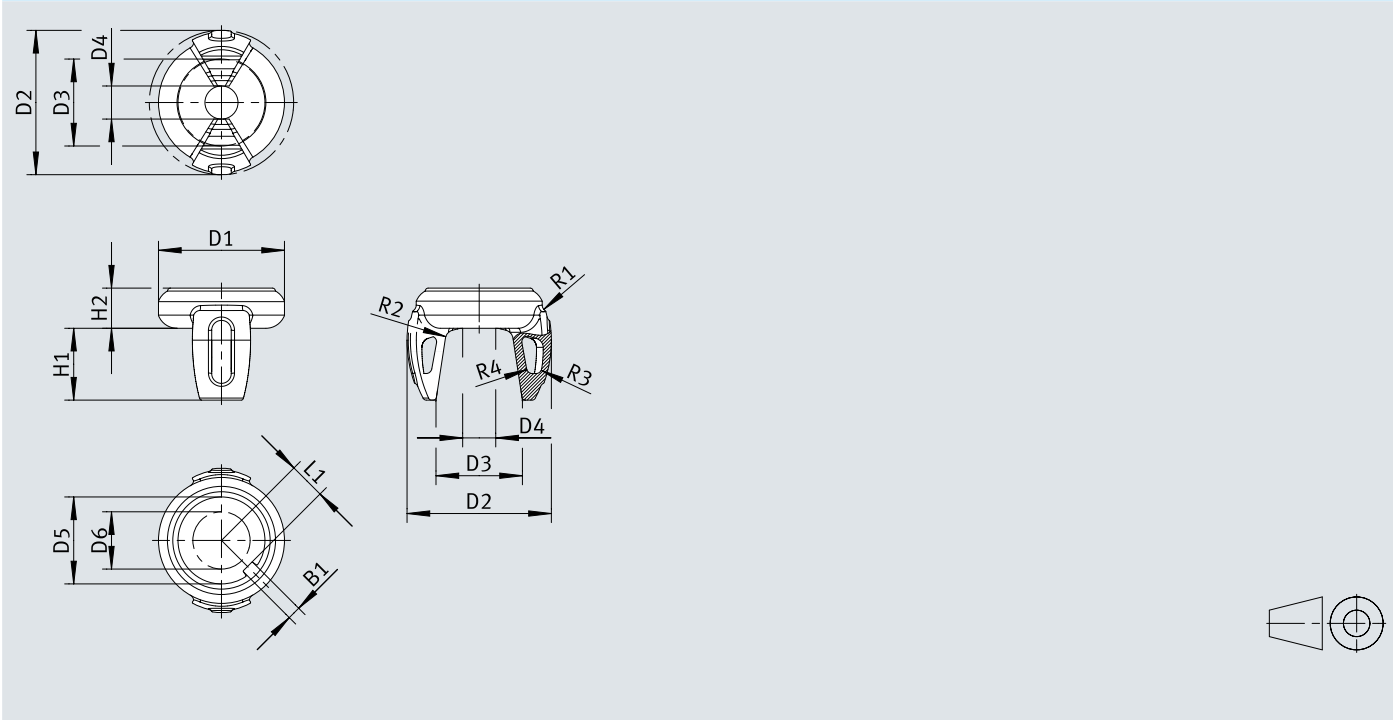
[Download CAD data](http://www.festo.com)


	B1	D1 ø	D2 ø	D3 ø	D4 ø	D5 ø	D6 ø
HAMA-MM-B33-100	-0,1	±0,3	+0,3/-0,1	40	13,1	50	40

	H1	H2	R1	R2	W1	W2
HAMA-MM-B33-100	~38,6	26	~3,9	~1,6	90°	45°

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-40-2-S-40-BU Download CAD data www.festo.com



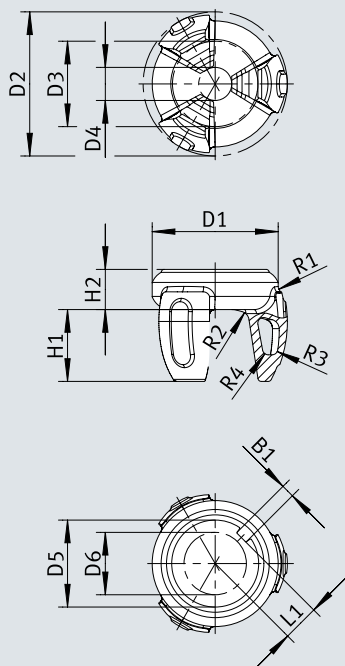
	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ ±0,4	∅ max.	∅ ±0,4	∅ ±0,2	∅ ±0,35	∅
HAMA-GA-B33-40-2-S-40-BU	6,9	66,7	76,4	39,9	17,5	46	33

	H1	H2	L1	R1	R2	R3	R4
	+0,5	±0,2	±0,2	±0,3		+0,3	+0,3
HAMA-GA-B33-40-2-S-40-BU	38	21	19,5	3,5	5	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-40-3-S-40-BU

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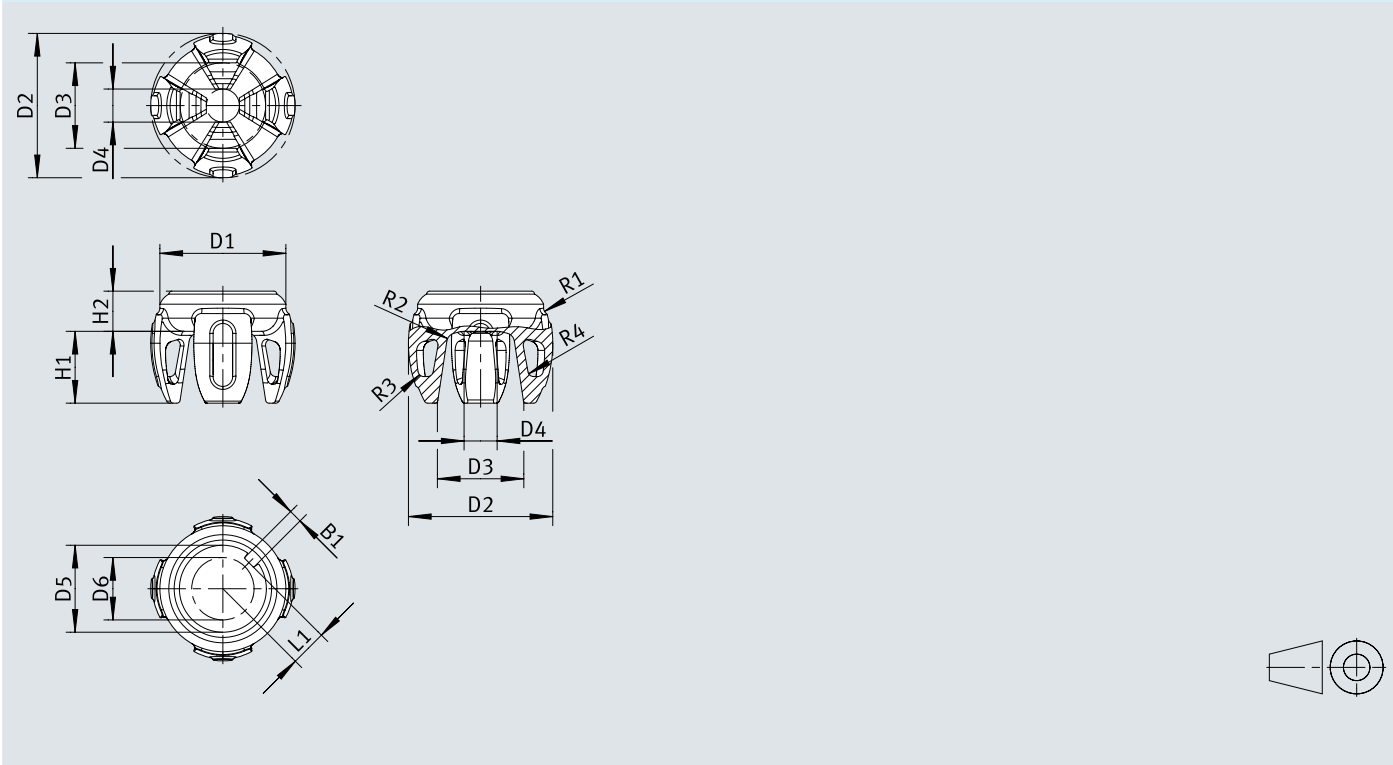


	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ ±0,4	∅ max.	∅ ±0,4	∅ ±0,2	∅ ±0,35	∅
HAMA-GA-B33-40-3-S-40-BU	6,9	66,7	76,4	39,9	17,5	46	33

	H1	H2	L1	R1	R2	R3	R4
	+0,5	±0,2	±0,2	±0,3		+0,3	+0,3
HAMA-GA-B33-40-3-S-40-BU	38	21	19,5	3,5	5	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-40-4-S-40-BU Download CAD data www.festo.com



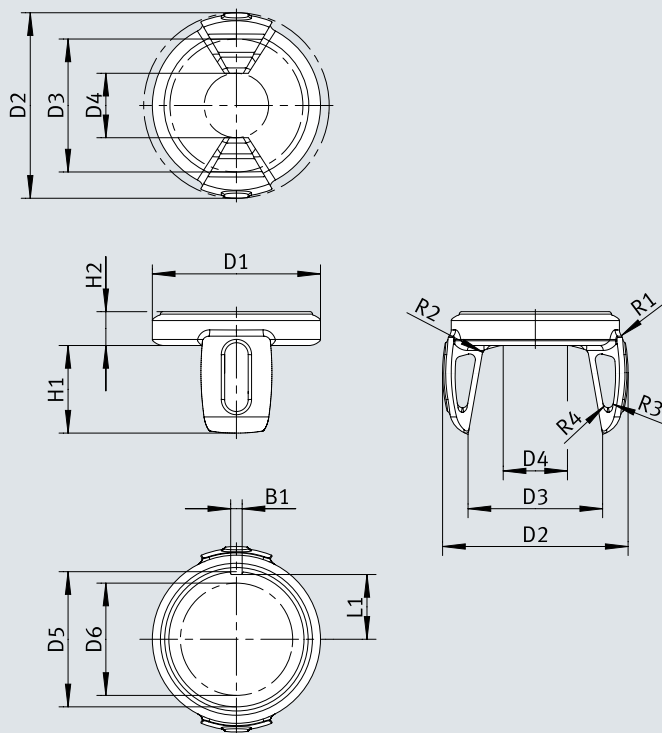
	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ ±0,4	∅	∅ ±0,4	∅ ±0,2	∅ ±0,35	∅
HAMA-GA-B33-40-4-S-40-BU	6,9	66,7	76,4	39,9	17,5	46	33

	H1	H2	L1	R1	R2	R3	R4
	+0,5	±0,2	±0,2	±0,3		+0,3	+0,3
HAMA-GA-B33-40-4-S-40-BU	38	21	19,5	3,5	5	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-70-2-S-40-BU

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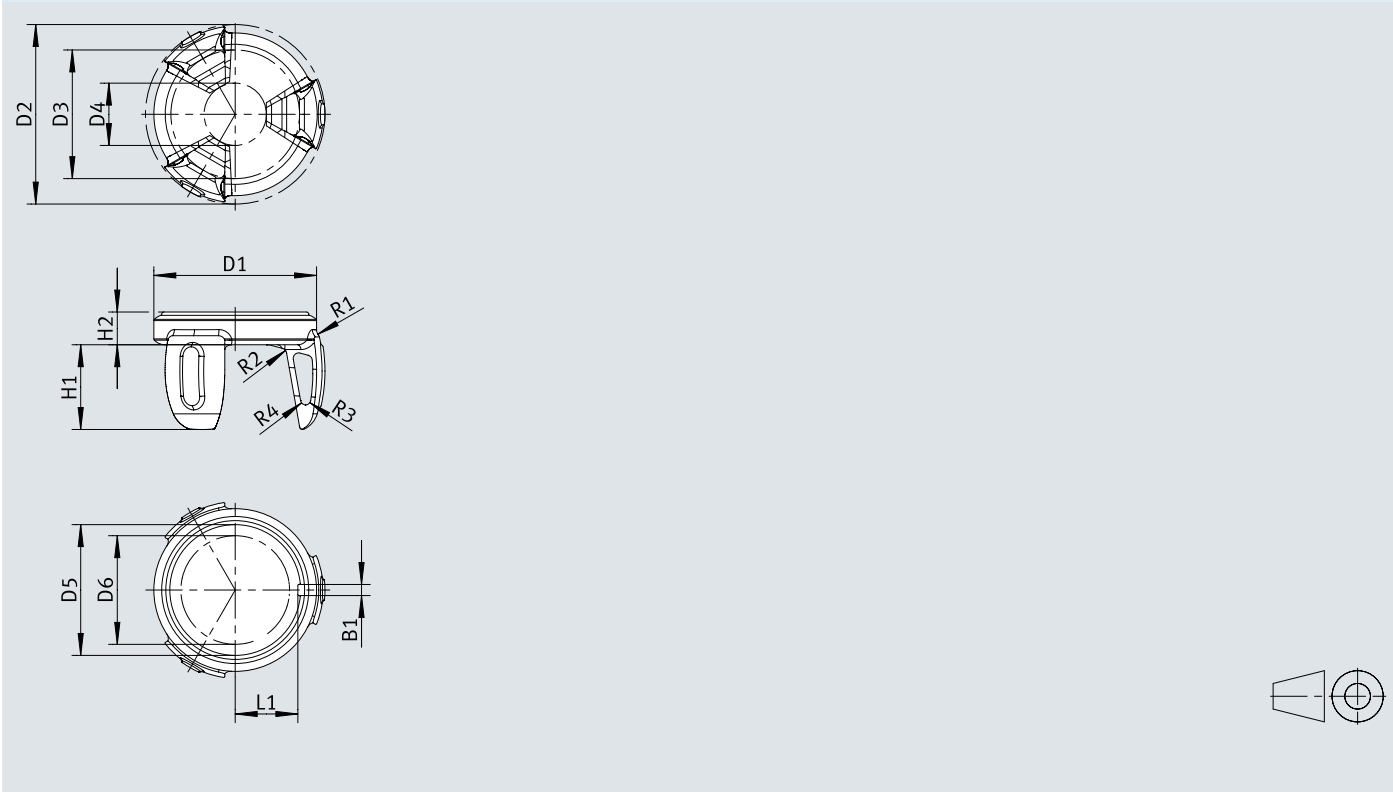


	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ +1	∅ max.	∅ ±0,5	∅ ±0,35	∅ +0,1/-0,3	∅
HAMA-GA-B33-70-2-S-40-BU	6	89	98	70	34	71,5	59,4

	H1	H2	L1	R1	R2	R3	R4
	+0,7	+0,2	+0,2/-0,1	±1		+0,6	+0,6
HAMA-GA-B33-70-2-S-40-BU	46,3	18	34,3	5	~3,4	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-70-3-S-40-BU Download CAD data www.festo.com



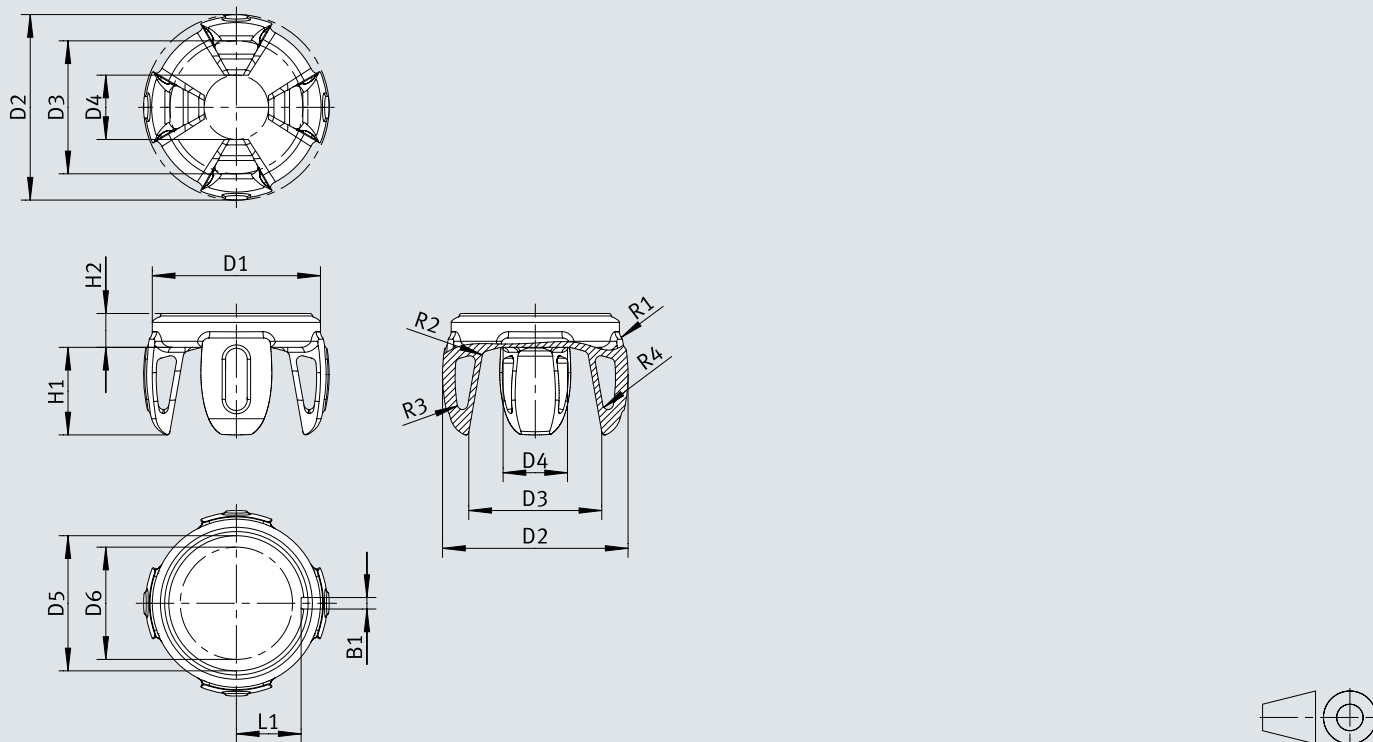
	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ +1	∅ max.	∅ ±0,5	∅ ±0,35	∅ +0,1/-0,3	∅
HAMA-GA-B33-70-3-S-40-BU	6	89	98	70	34	71,5	59,4

	H1	H2	L1	R1	R2	R3	R4
	+0,7	+0,2	+0,2/-0,1	±1		+0,6	+0,6
HAMA-GA-B33-70-3-S-40-BU	46,3	18	34,3	5	~3,4	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-70-4-S-40-BU

Download CAD data www.festo.com

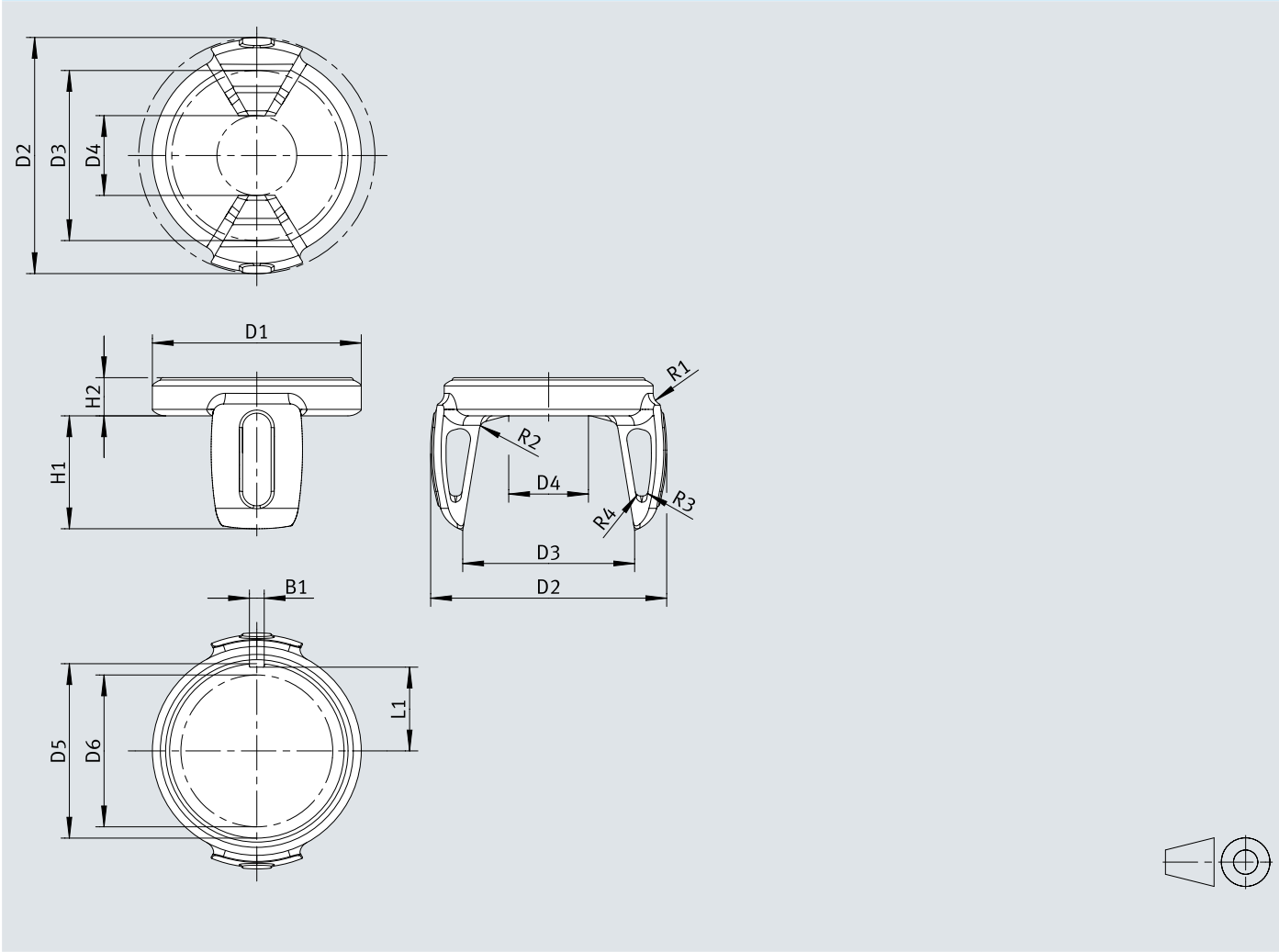


	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ +1	∅ max.	∅ ±0,5	∅ ±0,35	∅ +0,1/-0,3	∅
HAMA-GA-B33-70-4-S-40-BU	6	89	98	70	34	71,5	59,4

	H1	H2	L1	R1	R2	R3	R4
	+0,7	+0,2	+0,2/-0,1	±1		+0,6	+0,6
HAMA-GA-B33-70-4-S-40-BU	46,3	18	34,3	5	~3,4	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-100-2-S-40-BU Download CAD data www.festo.com

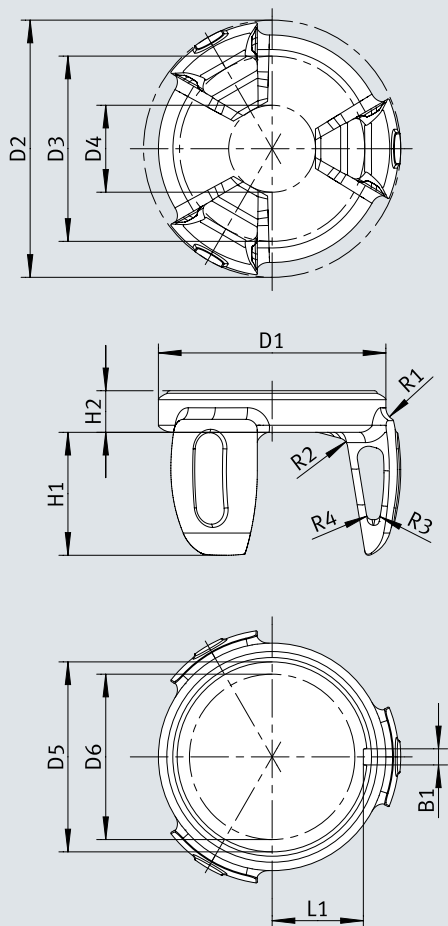


	B1	D1 ø	D2 ø	D3 ø	D4 ø	D5 ø	D6 ø
	±0,15	+0,8	max.	±0,5	±0,35	±0,4	
HAMA-GA-B33-100-2-S-40-BU	8,4	120,3	136	98	46	100,5	87,5

	H1	H2	L1	R1	R2	R3	R4
	±0,4	+0,4	+0,3/-0,1	±1	+0,1	+0,6	+0,6
HAMA-GA-B33-100-2-S-40-BU	65	22	48,3	7	5	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-100-3-S-40-BU

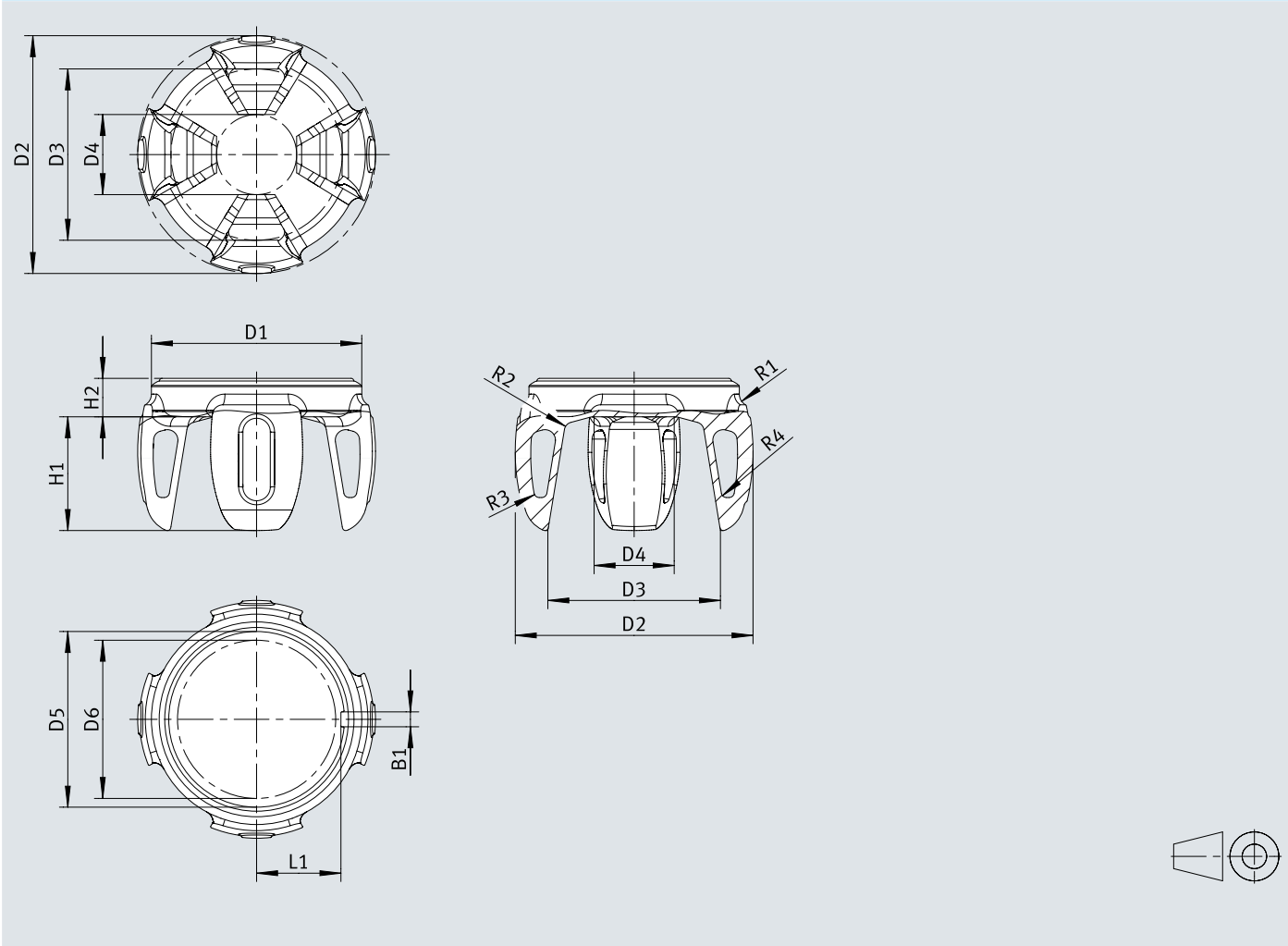
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	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ +0,8	∅ max.	∅ ±0,5	∅ ±0,35	∅ ±0,4	∅
HAMA-GA-B33-100-3-S-40-BU	8,4	120,3	136	98	46	100,5	87,5

	H1	H2	L1	R1	R2	R3	R4
	±0,4	+0,4	+0,3/-0,1	±0,1	+0,1	+0,6	+0,6
HAMA-GA-B33-100-3-S-40-BU	65	22	48,3	7	5	3	3

Dimensions

Dimensions – Gripper finger cap HAMA-GA-B33-100-4-S-40-BU Download CAD data www.festo.com



	B1	D1	D2	D3	D4	D5	D6
	±0,15	∅ +0,8	∅ max.	∅ ±0,5	∅ ±0,35	∅ ±0,4	∅
HAMA-GA-B33-100-4-S-40-BU	8,4	120,3	136	98	46	100,5	87,5

	H1	H2	L1	R1	R2	R3	R4
	±0,4	+0,4	+0,3/-0,1	±1	+0,1	+0,6	+0,6
HAMA-GA-B33-100-4-S-40-BU	65	22	48,3	7	5	3	3

Ordering data

Soft gripper HPSX with 2 fingers					
	Size ¹⁾	Working stroke	Robot connection	Part no.	Type
	40	0 ... 55 mm	Flange ISO 9409-1-50-4-M6	8207885	HPSX-40-2-S-40-BU-RA50
	70	20 ... 90 mm		8207888	HPSX-70-2-S-40-BU-RA50
	100	30 ... 125 mm		8207891	HPSX-100-2-S-40-BU-RA50

1) The gripper HPSX is supplied as three individual kits HAMA-MA, HAMA-MM and HAMA-GA. The kits are also available as accessories.

Soft gripper HPSX with 3 fingers					
	Size ¹⁾	Working stroke	Robot connection	Part no.	Type
	40	0 ... 55 mm	Flange ISO 9409-1-50-4-M6	8207886	HPSX-40-3-S-40-BU-RA50
	70	20 ... 90 mm		8207889	HPSX-70-3-S-40-BU-RA50
	100	30 ... 125 mm		8207892	HPSX-100-3-S-40-BU-RA50

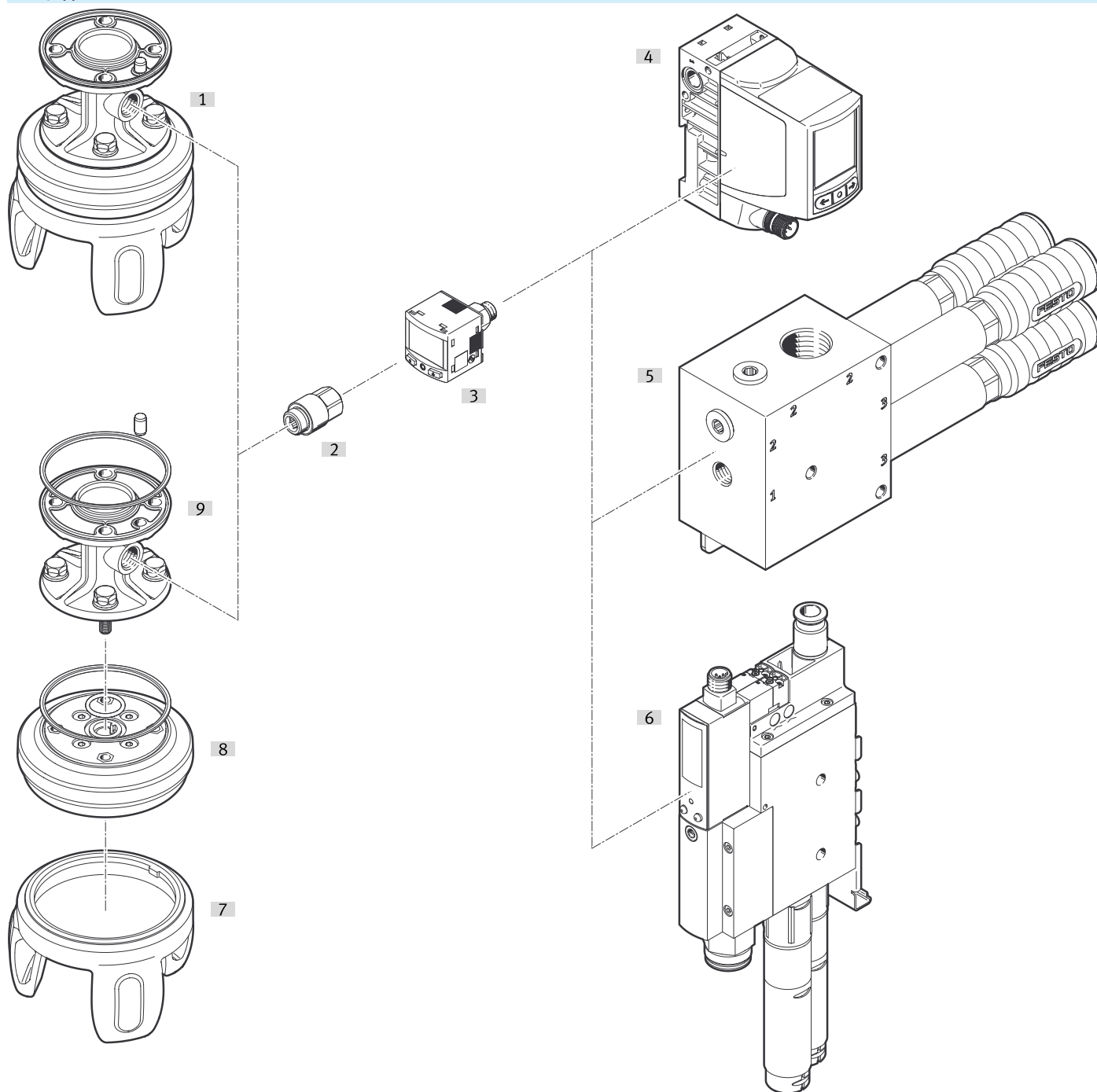
1) The gripper HPSX is supplied as three individual kits HAMA-MA, HAMA-MM and HAMA-GA. The kits are also available as accessories.

Soft gripper HPSX with 4 fingers					
	Size ¹⁾	Working stroke	Robot connection	Part no.	Type
	40	0 ... 55 mm	Flange ISO 9409-1-50-4-M6	8207887	HPSX-40-4-S-40-BU-RA50
	70	20 ... 90 mm		8207890	HPSX-70-4-S-40-BU-RA50
	100	30 ... 125 mm		8207884	HPSX-100-4-S-40-BU-RA50

1) The gripper HPSX is supplied as three individual kits HAMA-MA, HAMA-MM and HAMA-GA. The kits are also available as accessories.

Peripherals

Soft gripper HPSX

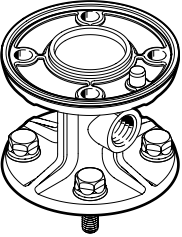


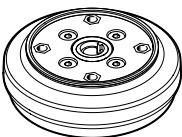
Accessories		→ Link
Type/order code	Description	
[1] Soft gripper HPSX	The gripper HPSX is supplied as three individual kits: • Adapter kit HAMA-MA • Mounting kit HAMA-MM • Gripper finger cap HAMA-GA The kits are also available as accessories.	hpsx
[2] Fitting NPCK	For connecting compressed air tubing with standard O.D.	npck
[2] Push-in fitting stainless steel NPQR	For connecting compressed air tubing with standard O.D.	npqr
[3] Pressure sensor SPAN	To monitor the compressed air	28
[4] Proportional-pressure regulator VPPI	For electronically regulating the compressed air	29
[5] Vacuum generator OVPN	For generating negative pressure	29
[6] Vacuum generator OVEM	For generating negative pressure	29
[7] Gripper finger cap HAMA-GA	Included in the scope of delivery of the gripper HPSX	28

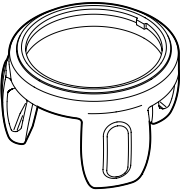
Peripherals

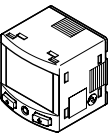
Accessories		→ Link
Type/order code	Description	
[8] Mounting kit HAMA-MM	Included in the scope of delivery of the gripper HPSX	28
[9] Adapter kit HAMA-MA	Included in the scope of delivery of the gripper HPSX	28

Accessories

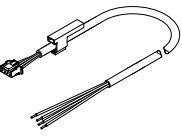
Adapter kit HAMA-MA						
	Description	Type of mounting	Material adapter	Product weight	Part no.	Type
	For size 40, 70, 100	To ISO 9409-1-50-4-M6	Reinforced PA	91 g	8203455	HAMA-MA-B33-RA50

Mounting kit HAMA-MM					
	Description	Material cap	Product weight	Part no.	Type
	For size 40	Reinforced PA	81 g	8203456	HAMA-MM-B33-40
	For size 70		113 g	8203464	HAMA-MM-B33-70
	For size 100		226 g	8203460	HAMA-MM-B33-100

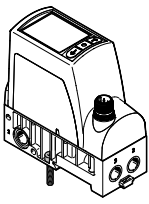
Gripper finger cap HAMA-GA						
	Description	Number of gripper fingers	Gripper finger material	Product weight	Part no.	Type
	For size 40	2	VMQ (silicone), metal detectable	68 g	8203480	HAMA-GA-B33-40-2-S-40-BU
		3		76 g	8203481	HAMA-GA-B33-40-3-S-40-BU
		4		90 g	8203483	HAMA-GA-B33-40-4-S-40-BU
	For size 70	2		95 g	8203484	HAMA-GA-B33-70-2-S-40-BU
		3		114 g	8203485	HAMA-GA-B33-70-3-S-40-BU
		4		125 g	8203486	HAMA-GA-B33-70-4-S-40-BU
	For size 100	2		215 g	8203487	HAMA-GA-B33-100-2-S-40-BU
		3		265 g	8203488	HAMA-GA-B33-100-3-S-40-BU
		4		315 g	8203482	HAMA-GA-B33-100-4-S-40-BU

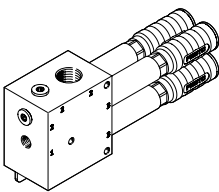
Pressure sensor SPAN						
	Pressure measuring range	Analogue output	Setting options	Pneumatic connection	Part no.	Type
	-1 ... 1 bar	0 - 10 V 4 - 20 mA 1 - 5 V	IO-Link® Teach-in Via display and buttons	Male thread G1/8 Female thread M5	8035534	SPAN-B2R-G18M-PNLK-PNVBA-L1

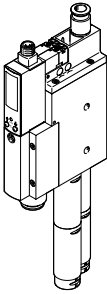
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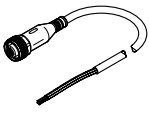
Connecting cables NEBS, straight						
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/cores	Cable length	Part no.	Type
	Plug pattern L1J	Open end	4	2.5 m	572576	NEBS-L1G4-K-2.5-LE4
				5 m	572577	NEBS-L1G4-K-5-LE4

Accessories

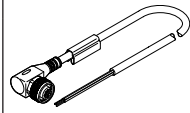
Proportional-pressure regulator VPPI							Link vppl
	Pressure regulation range	Signal range analogue output	Valve function	Operator unit/interface	Part no.	Type	
	-1 ... 1 bar	0 - 10 V	3-way proportional pressure regulator	Display	8104673	VPPI-5L-3-G18-1V1H-V1-S1D	

Vacuum generator OVPN							Link ovpn
	Grid dimension	Nominal size, Laval nozzle	Design	Part no.	Type		
	60 mm	2.6 mm	Vacuum generator, 3-stage	8199150	OVPN-26-L3-PG14-G34-UA		

Vacuum generator OVEM							Link ovem
	Grid dimension	Nominal size, Laval nozzle	Design	Part no.	Type		
	20 mm	0.95 mm	Modular	8037699	OVEM-10-H-B-Q0-CE-N-1PD		

Connecting cables NEBA, straight							
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/cores	Cable length	Part no.	Type	
	M12x1, A-coded to EN 61076-2-101	Open end	5	2.5 m	8078242	NEBA-M12G5-U-2.5-N-LE5	
				5 m	8078243	NEBA-M12G5-U-5-N-LE5	

Accessories

Connecting cables NEBA, angled						
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	5	2.5 m	8078251	NEBA-M12W5-U-2.5-N-LE5
				5 m	8078252	NEBA-M12W5-U-5-N-LE5