Made to Order Air Gripper

MH Series

Made to Order Common Specifications

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5-X50	Without Magnet	P.732
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15 -X81	Anti-corrosive Treatment of Finger	P.748
	-X81A (Special black chromium treatment is made on only the finger.)	
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MHZ MHF MHL MHR MHS MHC MHS MHC MHY MHW -X MRHQ MRHQ D-

Made to Order Common Specifications: Air Gripper -X4: Heat Resistance

Made 1 Orde

Symbol
-X4

1 Heat Resistance (-10 to 100°C)

Seal material and grease have been changed, so that it could be used even at higher temperature up to 100 from -10°C.

Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)		P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)	Magnet is not built-in.	P.664
		MHCM2	Single acting (Normally open)	Magnet is not built-in.	P.673
MHF	Low profile	MHF2	Double acting		P.472
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)		DIFFO
MHK	wedge carri operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)		P.550
MHL	Wide opening	MHL2	Double acting		P.498
	2-finger type	MHS2	Double acting		P.576
	3-finger type	MHS3	Double acting		P.584
	3-finger type with dust cover	MHSJ3	Double acting		P.594
MHS	With through hole	MHSH3	Double acting		D 000
	With through hole and dust cover	MHSHJ3	Double acting		P.602
	Long stroke 3-finger type	MHSL3	Double acting		P.618
	4-finger type	MHS4	Double acting		P.628
MHT	Toggle type	MHT2	Double acting	Including MHT2-DDZ	P.686
MHW	180° angular type	MHW2	Double acting		P.711
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)	Magnet is not built-in.	P.398
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)	Magnet is not built-in.	P.390
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

How to Order

Standard part number for each series



Heat resistance

Specifications

Ambient temperature range	-10°C to 100°C
Seal material	Fluororubber
Grease	Heat resistant grease (GR-F)
Specifications/dimensions other than the above	Same as the standard type

A Warning **Handling Precautions**

Be aware that smoking cigarettes after your hands have come into contact with the grease used for this air gripper can create a gas that is hazardous to humans.

Replacement Parts: Seal Kit

Series	Model	Seal kit no.	Series	Model	Seal kit no.
мнс	MHC2-10 to 25	MHCDD-PS-X4		MHSHJ3	MHSHDA-PS-X4(For cylinder type center pusher)
	MHC2-6	Repaired or replaced by SMC.	MHS	MHSL3	MHSLDD-PS-X4
MINC	MHCA2	Repaired or replaced by SMC.		MHS4	MHSDD-PS-X4
	MHCM2	MHCM7-PS-X4	MHT	MHT2	CQ2BDD-XB6-PS
MHF	MHF2	MHFDD-PS-X4	MHW	MHW2	MHWDD-PS-X4
WITTE	WITIFZ	MHF8-PS-2-X4 for only MHF2-8DS-X4	MHY	MHY2	MHYDD-PS-X4
	MHK2	MHKDD-PS-X4		MHZA2	Repaired or replaced by SMC.
мнк	MHKL2	MHK□□-PS-X4		MHZAJ2	Repaired or replaced by SMC.
MHL	MHL2	MHLDD-PS-X4	мнz	MHZ2-6	Repaired or replaced by SMC.
	MHS2	MHSDD-PS-X4	IVITIZ	MHZ2	MHZDD-PS-X4
мнѕ	MHS3	MHSDD-PS-X4		MHZL2	MHZLDD-PS-X4
мпэ	MHSJ3	MHSJDD-PS-X4		MHZJ2	MHZJDD-PS-X4
	MHSH3	MHSHDD-PS-X4			

Note 1) The cylinder bore size enters
of the seal kit no. Refer to the replacement parts of each model.

Note 2) The seal kit does not include grease. Please order the grease separately. • Grease pack part no.: GR-F-005 (5 g)



Note 1) Magnet is built-in, but when using an auto switch, the acceptable temperature range becomes -10 to 60 °C.

- Note 2) With the part number for the dust cover option, only fluororubber (F) or silicone rubber (S) options may be selected.
- Note 3) With the part number compatible with body options for MHZ series, only E type or M type are compatible.
- Note 4) For lubrication, specialized grease GR-F is recommended.

Made to Order Common Specifications: Air Gripper -X5: Fluororubber Seal

2 Fluororubber Seal

Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)		P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
		MHCM2	Single acting (Normally open)		P.673
MHF	Low profile	MHF2	Double acting		P.472
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is fluororubber only.	P.550
MHK	wedge cam operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is fluororubber only.	P.550
MHL	Wide opening	MHL2	Double acting		P.498
	2-finger type	MHS2	Double acting		P.576
	3-finger type	MHS3	Double acting		P.584
	3-finger type with dust cover	MHSJ3	Double acting	Dust cover material is fluororubber only.	P.594
MHS	With through hole	MHSH3	Double acting		P.602
	With through hole and dust cover	MHSHJ3	Double acting	Dust cover material is fluororubber only.	P.002
	Long stroke 3-finger type	MHSL3	Double acting		P.618
	4-finger type	MHS4	Double acting		P.628
MHT	Toggle type	MHT2	Double acting	Including MHT2-DDZ	P.686
MHW	180° angular type	MHW2	Double acting		P.711
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		P.398
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is fluororubber only.	P.390
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is fluororubber only.	P.440

How to Order

Standard part number for each series



Specifications

Seal material	Fluororubber
Specifications/dimensions other than the above	Same as the standard type of each series

Note 1) Please contact SMC, since the type of chemical and the operating temperature may not allow the use of this product.

- Note 2) Since the standard-type magnet is built-in, please contact SMC for the product's adaptability to the operating environment.
- Note 3) For the air gripper with a dust cover, the dust cover material is also fluororubber. Thus, enter (F) for the fluororubber dust cover in the part number.
- Note 4) With the part number compatible with body options for the MHZ series, only E type or M type are compatible.



Symbol

-X5

Made to Order Common Specifications: Air Gripper -X7: Closing Direction Spring Assist

Made to Order



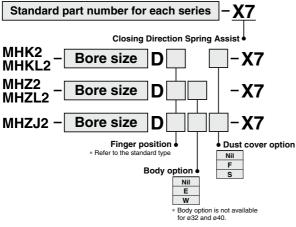
3 Closing Direction Spring Assist

When gripping the exterior of the workpiece, this assists to hold the workpiece in place even when there is no supply of compressed air.

Applicable Series

Series	Description	Model	Action	Note	Standard model page
мнк	Mades con exercise slide suide	MHK2	Double acting		P.550
MHK	Wedge cam operation glide guide	MHKL2	Double acting		P.550
	Parallel type	MHZ2	Double acting		P.408 to 410
MHZ	Parallel type (long stroke)	MHZL2	Double acting		P.426
	Parallel type with dust cover	MHZJ2	Double acting		P.440

How to Order



- Note 1) Operating pressure is different from that of the standard double acting type. (Refer to the table below.)
- Note 2) For the body options of MHZ2, MHZJ2 and MHZL2 ø10 to ø25, only E type or W type are compatible.
- Note 3) Dimensions of MHZ2-32D/-40D and MHZL2 are the same as the single acting type.
- Note 4) For internal grip, the gripping point range limit is the same as the standard type.

Specifications

MHK 2

	12	16	20	25		
Operating	Operating pressure (MPa)		0.25 to 0.5			
Gripping P	Refer to the graphs.					
МНК2	Weight (g)	76	114	237	443	
WITIK2	External grip	18.5	41	57	91.5	
MHKL2	Weight (g)	105	165	314	565	
MHKL2	External grip	18.5	34	56.5	103	

* Gripping force is measured at a pressure of 0.5 MPa, gripping point L = 20 mm, center of stroke.

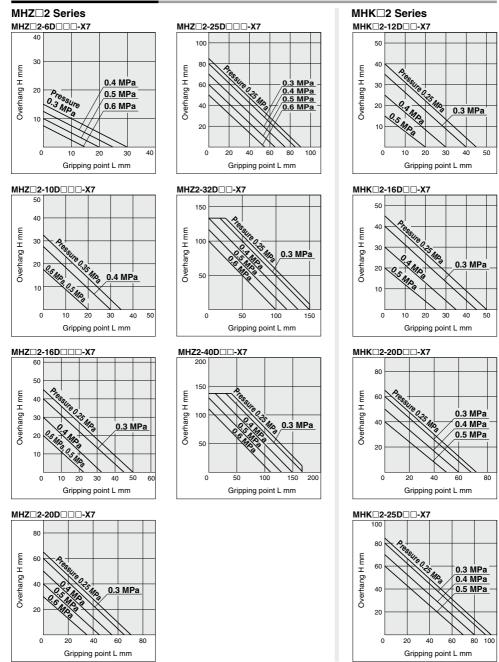
MHZ 2

	Bore size (mm)	6	10	16	20	25	32	40
Operating	pressure (MPa)	0.3 to 0.6	0.35 to 0.6		().25 to 0.	6	
Gripping P	oint Range Limit (External grip)	mit (External grip) Refer to the graphs.						
MHZ2	Weight (g)	27	55	115	240	435	760	1370
MHZ2	External grip	5.5	14.5	40	50	84	187	300
MHZL2	Weight (g)	-	70	140	290	515	-	-
	External grip	-	14.5	40.5	50	82	-	-
MHZJ2	Weight (g)	28	60	130	255	465	-	-
	External grip	5.5	14.5	38	51	84	-	-

* MHZL2 series ø32 and ø40 have the same dimensions as the single acting type.

* Gripping force is measured at a pressure of 0.5 MPa, gripping point L = 20 mm, center of stroke.

Gripping Point Range Limit



SMC

MHF MHL MHR MHK MHK MHS MHC MHT MHW •X

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MHZ

Made to Order Common Specifications: Air Gripper -X12: Opening Direction Spring Assist

Made to Order



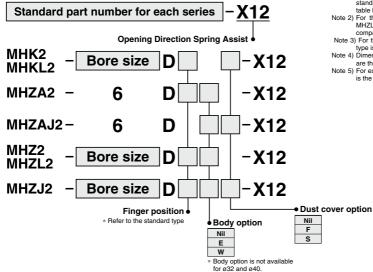
4 Opening Direction Spring Assist

When gripping the interior of the workpiece, this assists to hold the workpiece in place even when there is no supply of compressed air.

Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHK2	Double acting		D CCO
мнк	Wedge cam operation glide guide	MHKL2	Double acting		P.550
	Parallel type (compact)	MHZA2	Double acting		P.398
	Parallel type with dust cover (compact)	MHZAJ2	Double acting		P.390
MHZ	Parallel type	MHZ2	Double acting		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting		P.426
	Parallel type with dust cover	MHZJ2	Double acting		P.440

How to Order



Note 1) Operating pressure is different from that of the standard double acting type. (Refer to the table below.)

Note 2) For the body options of MHZ2, MHZJ2 and MHZL2 ø10 to ø25, only E type or W type are compatible.

Note 3) For the body option of MHZA(J)2-6D, only E type is compatible

Note 4) Dimensions of MHZ2-32D/-40D and MHZL2 are the same as the single acting type.

Note 5) For external grip, the gripping point range limit is the same as the standard type.

Specifications MHK 2

MHK2

Bore size (mm)

Gripping Point Range Limit (Internal grip)

Weight (g)

Weight (g)

MHKL2

L = 20 mm, center of stroke.

Internal gripping force (N)

* Gripping force is measured at a pressure of 0.5 MPa, grippi

Operating pressure (MPa)

12

76 114 237

21.5 43 67

20.5 39 64.5

16 20

314

0.25 to 0.5

Refer to the graph

165 105

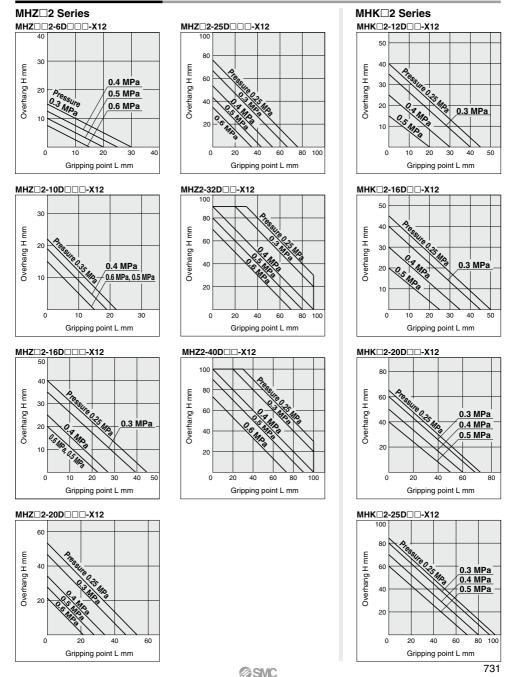
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	25		Bore size (mm)		6	10	16	20	25	32	40
	Operating pressure (MPa)		0.3 to 0.6	0.35 to 0.6		0	.25 to 0.	6			
h	s.		Gripping Poir	nt Range Limit (Internal grip)			Refer	to the g	raphs.		
1	443		1411740	Weight (g)	26	-	-	-	-	-	-
	106		MHZA2	Internal gripping force (N)	7.3	-	-	-	-	-	-
	565		MHZAJ2	Weight (g)	27	-	-	-	-	-	-
	113.5		WITZAJ2	Internal gripping force (N)	7.3	-	-	-	-	-	-
ing point			MHZ2	Weight (g)	27	55	115	240	435	760	1370
			INITZZ	Internal gripping force (N)	7.3	20.5	51.5	74	122	217.5	351.5
		MHZL2	Weight (g)	-	70	140	290	515	-	-	
				Internal gripping force (N)	-	20.5	51.5	74	117.5	-	-
			MH7 12	Weight (g)	28	60	130	255	465	-	-
	MHZJ2		WINZJZ	Internal gripping force (N)	7.3	20	45.5	78.5	122	-	-

* MHZL2 series ø32 and ø40 have the same dimensions as the single acting type.

* Gripping force is measured at a pressure of 0.5 MPa, gripping point L = 20 mm, center of stroke.

Gripping Point Range Limit



MHR MHK MHS MHC MHT MHY MHW -X MRHQ D-

MHZ

MHF

Made to Order Common Specifications: Air Gripper -X50: Without Magnet

Made to Order



5 Without Magnet

Applicable Series

Series	Description	Model	Action	Note	Standard model page
MHC	Angular type	MHC2	Double acting, Single acting (Normally open)	Note 3)	P.675
MHF	Low profile	MHF2	Double acting		P.472
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)		P.550
MULK	wedge can operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)		P.550
MHL	Wide opening	MHL2	Double acting		P.498
	2-finger type	MHS2	Double acting		P.576
	3-finger type MHS3		Double acting		P.584
	3-finger type with dust cover MHSJ3		Double acting		P.594
MHS	With through hole	MHSH3	Double acting		P.602
	With through hole and dust cover	MHSHJ3	Double acting		P.002
	Long stroke 3-finger type	MHSL3	Double acting		P.618
	4-finger type	MHS4	Double acting		P.628
MHT	Toggle type	MHT2	Double acting		P.686
MHW	180° angular type	MHW2	Double acting		P.711
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)	Note 4)	P.408 to 410
MHZ	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)	Note 5)	P.440

How to Order

Standard part number for each series -X50

Without Magnet

Specifications Same as the standard type of each series

Note 1) No symbol is specified for a product without a magnet as standard.

Note 2) MDHR series comes with a magnet. Please use the MHR series when a product

without a magnet is needed. Note 3) MHC2-6 is not applicable. Please use the MHCA2-6.

Note 4) MHZ2-6 is not applicable. Please use the MHZA2-6.

Note 5) MHZJ2-6 is not applicable. Please use the MHZAJ2-6.

6 Ethylene Propylene Rubber Seal

Seal material has been changed to ethylene propylene (EPDM), and grease to fluorine grease

Applicable Series

Series	Description	Model	Action	Note	Standard model page	
мнс	Angular type	MHC2	Double acting, Single acting (Normally open)		P.675	
MINC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664	
MHF	Low profile	MHF2	Double acting		P.472	
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is EPDM only.	P.550	
WINK	wedge carri operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is EPDM only.	P.550	
MHL	Wide opening	MHL2	Double acting		P.498	
	2-finger type	MHS2	Double acting		P.576	
	3-finger type MHS3		Double acting		P.584	
	3-finger type with dust cover	MHSJ3	Double acting	Dust cover material is EPDM only.	P.594	
MHS	With through hole	MHSH3	Double acting		P.602	
	With through hole and dust cover	MHSHJ3	Double acting	Dust cover material is EPDM only.	P.002	
	Long stroke 3-finger type	MHSL3	Double acting		P.618	
	4-finger type	MHS4	Double acting		P.628	
MHW	180° angular type	MHW2	Double acting		P.711	
MHY	180° angular type cam type	MHY2	Double acting		P.704	
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		D 200	
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is EPDM only.	P.398	
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410	
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426	
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)	Dust cover material is EPDM only.	P.440	

How to Order

Standard part number for each series – X53

Ethylene Propylene Rubber Seal (EPDM)

Specifications

Seal material	Ethylene propylene rubber (EPDM) Fluorine grease (GR-F)		
Grease			
Specifications/dimensions other than the above	Same as the standard type for each series		

Marning Handling Precautions

Be aware that smoking cigarettes after your hands have come into contact with the grease used for this air gripper can create a gas that is hazardous to humans.

Note 1) For the product with a dust cover, dust cover material is also ethylene propylene rubber. Thus, enter no symbol for the dust cover in the

Symbol

-X53

- part number. Note 2) With the part number compatible with body
- options, only E type or M type are compatible. Note 3) For lubrication, specialized grease GR-F is recommended.

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MHZ

Made to Order Common Specifications: Air Gripper -X56: Axial Ported

Made to Order



7 Axial Ported **Applicable Series**

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)	ø10, 16, 20, 25 only	P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
		MHCM2	Single acting (Normally open)		P.673
	2-finger type	MHS2	Double acting		P.576
	3-finger type	MHS3	Double acting	ø16, 20, 25, 32, 40, 50, 63 only	P.584
	3-finger type with dust cover	MHSJ3	Double acting		P.594
MHS	With through hole	MHSH3	Double acting	Center pusher type is not compatible.	B 000
	With through hole and dust cover	MHSHJ3	Double acting	Center pusher type is not compatible.	P.602
	Long stroke 3-finger type	MHSL3	Double acting	ø16, 20, 25, 32, 40, 50, 63 only	P.618
	4-finger type	MHS4	Double acting		P.628
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		P.398
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.390
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)	ø10, 16, 20, 25 only	P.409
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)	ø10, 16, 20, 25 only	P.440

X56

Axial Ported

How to Order

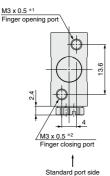
Standard part number for each series

Note 1) Body option is not compatible. Note 2) MHSH3 and MHSHJ3 series (center pusher type) are not compatible.

Dimensions (Dimensions other than specified below are the same as the standard type.)

(mm)

MHCA2-6 Series MHZA2-6 Series



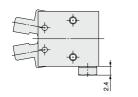
MHCA2 Series

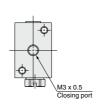
*1) Single acting (normally open) type is not available with a finger opening port. Standard opening port will be a breathing hole.

- MHZA2, MHZAJ2 Series
 *1) Normally open type is not available with a finger opening port. Standard opening port will be a breathing hole.
 *2) Normally closed type is not available with a finger closing port. Standard closing port will be a breathing hole.

Note 1) Standard port is blocked with a M-3P plug. M-3P plug is not interchangeable with a hexagon socket head set screw. Note 2) This cannot be mounted from top side.

MHCM2-7S Series

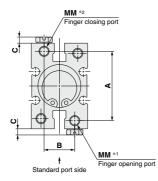






Dimensions (Dimensions other than specified below are the same as the standard type.)

MHC2 Series MHZ2 Series **MHZL2 Series** MHZJ2 Series



(MHC2 has different switch groove.)

MHC2 Series (mm)						
Model	A	В	С	MM		
MHC2-108-X56	13	11	2.4	M3 x 0.5		
MHC2-168-X56	22.6	13	3	M3 x 0.5		
MHC2-20 ^D -X56	34	15	3	M5 x 0.8		
MHC2-258-X56	44	20	3	M5 x 0.8		

*1) For the single acting type, a standard port does not include a plug and will be a breathing hole.

For the single acting type, axial opening ports are not available.

Note 1) Switch groove and standard port positions are different for each model. Note 2) Standard port is blocked with a M-3P or M-5P plug.

MHZ2 Series

MHZ2 Series (mm)					
Model	Α	В	С	MM	
MHZ2-10 -X56	13	11	2.4	M3 x 0.5	
MHZ2-16 -X56	22	15	3	M3 x 0.5	
MHZ2-20 -X56	34	15	3	M5 x 0.8	
MHZ2-25	44	20	3	M5 x 0.8	

MH7L2 Sories

(mm)					
Model	Α	В	С	MM	
MHZL2-10 -X56	13	11	2.4	M3 x 0.5	
MHZL2-16 -X56	22.6	13	3	M3 x 0.5	
MHZL2-20 -X56	34	15	3	M5 x 0.8	
MHZL2-25	44	20	3	M5 x 0.8	

MHZJ2 Series

Model	Α	В	С	MM
MHZJ2-10 -X56	13	11	2.4	M3 x 0.5
MHZJ2-16 -X56	22.6	13	3	M3 x 0.5
MHZJ2-20 -X56	34	15	3	M5 x 0.8
MHZJ2-25	44	20	3	M5 x 0.8

*1) For the single acting type, the port on one side becomes the breathing hole. Note 1) Please contact SMC for bore sizes ø32 and ø40 of the MHZ2 series. Note 2) A plug is located at the same position for the end boss type. Note 3) Bore size ø6 of the MHZ2 and MHZJ2 series is not compatible

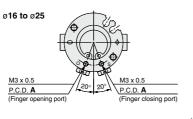
(mm)

SMC

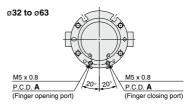
MH Series

Dimensions (Dimensions other than specified below are the same as the standard type.)

MHS²₄ Series



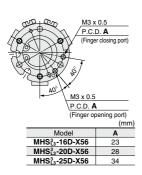
	(mm)
Model	A
MHS ₄ ² -16D-X56	23
MHS ₄ -20D-X56	27
MHS ₄ -25D-X56	32

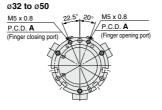


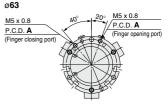
	(mm)
Model	Α
MHS ₄ -32D-X56	44
MHS ₄ ² -40D-X56	52
MHS ₄ -50D-X56	62
MHS ₄ ² -63D-X56	75

 MHS_{L3}^{3} Series

ø16 to ø25



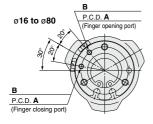




	(mm)
Model	Α
MHS ³ ₃ -32D-X56	44
MHS ³ _{L3} -40D-X56	53
MHS ³ _{L3} -50D-X56	62

	(mm)
Model	Α
MHS ³ _{L3} -63D-X56	75

MHSH3 Series MHS^{J3}_{HJ3} Series



		(mm)
Model	Α	В
MHSH3-16D-X56	23	
MHSJ3-16DD-X56	23	
MHSH3-20D-X56	27	M3 x 0.5
MHSJ3-20D -X56	21	IVI3 X U.5
MHSH3-25D-X56	32	
MHSJ3-25D -X56	32	
MHSH3-32D-X56	44	
MHS ^{J3} _{HJ3} -32D□-X56	44	
MHSH3-40D-X56	52	
MHS ^{J3} _{HJ3} -40D□-X56	52	
MHSH3-50D-X56	63	M5 x 0.8
MHS HJ3 -50D -X56	03	WIS X 0.0
MHSH3-63D-X56	78	
MHS ^{J3} _{HJ3} -63D□-X56	70	
MHSH3-80D-X56	94	
MHS HJ3 -80D -X56	34	

SMC

Note 1) Standard side piping ports are
blocked with the following plugs.
ø16: M-3P plug
ø20 to ø63: M-5P plug
ø80: Rc 1/8 tapered screw plug
Note 2) For the MHS3 and MHSL3 series, a
piping port cannot be used
depending on the port size since the

port is located close to a positioning pin hole or long hole, or just above the pin hole. Note 3) Please contact SMC separately for

bore sizes ø80, ø100 and ø125 of the MHS3 and MHSL3 series.

Made to Order Common Specifications: Air Gripper -X63: Fluorine Grease

Made to Order

8 Fluoro Grease

Symbol **-X63**

Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)		P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
		MHCM2	Single acting (Normally open)		P.673
MHF	Low profile	MHF2	Double acting		P.472
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)		DEEA
MHK	MHKL2		Double acting, Single acting (Normally open, Normally closed)		P.550
MHL	Wide opening	MHL2	Double acting		P.498
		MHR2	Double acting		D 547
мнв	Beten estuator	MDHR2	Double acting		P.517
МНК	Rotary actuator	MHR3	Double acting		D 500
		MDHR3	Double acting		P.530
	2-finger type	MHS2	Double acting		P.576
	3-finger type	MHS3	Double acting		P.584
	3-finger type with dust cover	MHSJ3	Double acting		P.594
MHS	With through hole	MHSH3	Double acting		B 000
	With through hole and dust cover	MHSHJ3	Double acting		P.602
	Long stroke 3-finger type	MHSL3	Double acting		P.618
	4-finger type	MHS4	Double acting		P.628
MHT	Toggle type	MHT2	Double acting	Including MHT2-DDZ	P.686
MHW	180° angular type	MHW2	Double acting		P.711
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		D 000
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.398
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

How to Order

Standard part number for each series



Fluorine Grease

Specifications

Grease	Fluorine grease (GR-F)			
Specifications/dimensions other than the above	Same as the standard type for each series			

A Warning Handling Precautions

Be aware that smoking cigarettes after your hands have come into contact with the grease used for this air gripper can create a gas that is hazardous to humans.

Note) For lubrication, specialized grease GR-F is

recommended.

MHZ

Made to Order Common Specifications: Air Gripper -X64: Finger: Side Tapped

Made to Order

Symbol

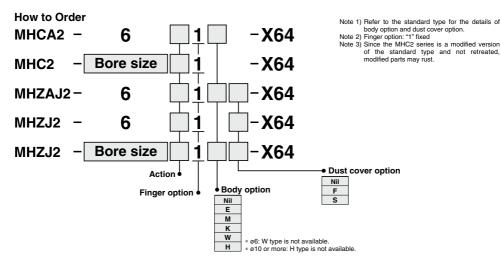
-X64

9 Finger: Side Tapped

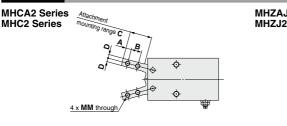
Attachments can be mounted even on models without a finger option (side tapped mounting) using a tap on the side.

Applicable Series

Series	Description	Model	Action	Note	Standard model page
мнс	Angular tuno	MHC2	Double acting, Single acting (Normally open)		P.675
MHC Angular type		Angular type MHCA2			P.664
MHK Wedge cam operation slide guide		MHK2	Double acting, Single acting (Normally open, Normally closed)	Refer to Note 5).	P.550
		MHKL2	Double acting, Single acting (Normally open, Normally closed)	Helef to Note 5).	P.550
мнг	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.398
WITZ	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

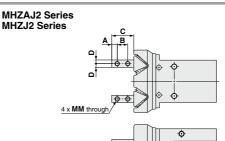


Dimensions (Dimensions other than specified below are the same as the standard type.)



		•
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					(11111)
Model	Α	В	С	D	MM
MHCA2-6□1□-X64	2.5	5	11	2	M2 x 0.4
MHC2-6□1-X64	2.5	5	11	2	M2 x 0.4
MHC2-10□1-X64	3	5.7	12	2	M2.5 x 0.45
MHC2-16□1-X64	4	7	16	3.5	M3 x 0.5
MHC2-20 1-X64	5.2	9	20	4	M4 x 0.7
MHC2-25 1-X64	8	12	27	5	M5 x 0.8

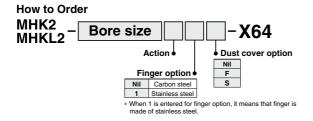


	<u></u>
	\$

					(mm)
Model	Α	В	С	D	MM
MHZAJ2-6□1□□-X64	2.5	5	11	2	M2 x 0.4
MHZJ2-6□1□-X64	2.5	5	11	2	M2 x 0.4
MHZJ2-10□1□□-X64	3	5.7	12	2	M2.5 x 0.45
MHZJ2-16□1□□-X64	4	7	15	2.5	M3 x 0.5
MHZJ2-20 1 - X64	5	9	20	4	M4 x 0.7
MHZJ2-25 1	6	12	25	5	M5 x 0.8

SMC

Made to Order Common Specifications: MH Series

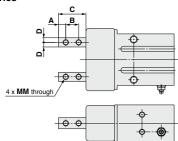


Note 4) Refer to the standard type for the details of the dust cover option.

- Note 5) For only the MHK2 and MHKL2 series, finger
- Note 5) For only the MinA2 and WinA22 settles, image option *1" means a stainless steel finger. Note 6) Since the MHK(L)2 series is additionally modified as a side tapped and not treated, it may rust when the standard finger is used.

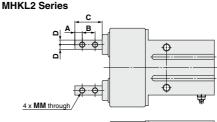
Dimensions (Dimensions other than specified below are the same as the standard type.)

MHK2 Series



					(mm)
Model	Α	В	С	D	MM
MHK2-12□□-X64	4	7	15	2.5	M3 x 0.5
MHKL2-12	4	· '	15	2.5	WI3 X 0.5
MHK2-16 - X64	4	7	15	2.5	M3 x 0.5
MHKL2-16	4	4 /	15	2.5	IVI3 X 0.5
MHK2-20 -X64	5	9	21	4	M4 x 0.7
MHKL2-20	5	9	20	4	WI4 X 0.7
MHK2-25□□□-X64	6	12	26	-	MEXOR
MHKL2-25		6 12	25	5	M5 x 0.8

* For ø12, the standard screw is not threaded.





MHF
MHL
MHR
MHK
MHS
MHC
MHT
MHY
MHW
-X□
MRHQ
MA
D-🗆

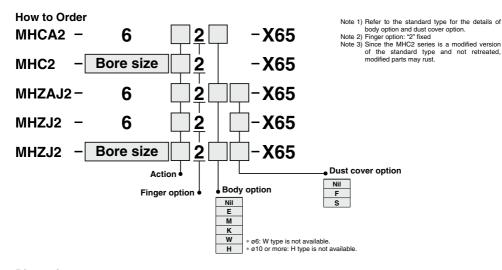
MHZ

10 Finger: Through-holes in Opening/Closing Direction

Symbol

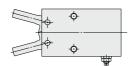
Even for models without a finger option (through-holes in opening/closing directions) setting, attachments are mountable using through-holes in opening and closing directions. **Applicable Series**

Series	Description	Model	Action	Note	Standard model page
MHC Angular type		MHC2	Double acting, Single acting (Normally open)		P.675
MINC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)	Refer to Note 5).	P.550
MULK		MHKL2	Double acting, Single acting (Normally open, Normally closed)	Refer to Note 5).	P.550
мнг	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.398
WITZ	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

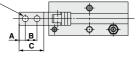


Dimensions (Dimensions other than specified below are the same as the standard type.)

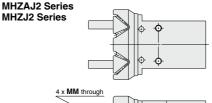
MHCA2 Series MHC2 Series



4 x MM through



				(11111)
Model	Α	В	С	MM
MHCA2-6□2□-X65	2.5	5	11	ø2.4
MHC2-6□2-X65	2.5	5	11	ø2.4
MHC2-10 2-X65	3	5.7	12	ø2.9
MHC2-16□2-X65	4	7	16	ø3.4
MHC2-20 2-X65	5.2	9	20	ø4.5
MHC2-25 2-X65	8	12	27	ø5.5



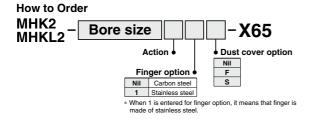


				(mm)
Model	Α	В	С	MM
MHZAJ2-6 2 -X65	2.5	5	11	ø2.4
MHZJ2-6□2□-X65	2.5	5	11	ø2.4
MHZJ2-10 2 -X65	3	5.7	12	ø2.9
MHZJ2-16 2 -X65	4	7	15	ø3.4
MHZJ2-20 2 -X65	5	9	20	ø4.5
MHZJ2-25 2 -X65	6	12	25	ø5.5

SMC

m)

Made to Order Common Specifications: MH Series

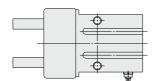


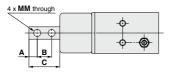
- Note 4) Refer to the standard type for the details of the dust cover option.
- Note 5) For only the MHK2 and MHKL2 series, finger option "2" means a stainless steel finger. For other models, finger option "2" is not applicable.

Note 6) Since the MHK(L)2 series is additionally modified with through-holes in opening/closing directions and is not treated, it may rust when the standard finger is used.

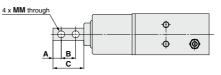
Dimensions (Dimensions other than specified below are the same as the standard type.)

MHK2 Series





MHKL2 Series	
	• •



				(mm)
Model	A	В	С	MM
MHK2-1200-X65 MHKL2-1200-X65	4	7	15	ø3.4
MHK2-16 - X65 MHKL2-16 - X65	4	7	15	ø3.4
MHK2-20 -X65	5 9	9	21	ø4.5
MHKL2-20 -X65	5	9	20	04.5
MHK2-25	6	12	26	ø5.5
MHKL2-25	0	12	25	05.5

MHZ
MHF
MHL
MHR
MHK
MHS
MHC
MHT
MHY
MHW
-X□
MRHQ
MA
D-🗆

Made to Order Common Specifications: Air Gripper -X77^A: Dust Cover Adhesion

Made to Order

Symbol

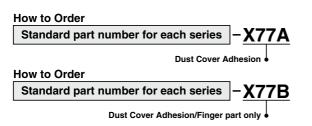
-X77

11 Dust Cover Adhesion (Powerful adhesive used)

Dustproof and dripproof

Applicable Series

Series	Description	Model	Action	Note	Standard model page
MHK Wedge cam operation slide guide MHK		MHK2	Double acting, Single acting (Normally open, Normally closed)		P.550
WITK	wedge can operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)		P.550
MHS	3-finger type with dust cover	MHSJ3	Double acting		P.594
wins -	With through hole and dust cover	MHSHJ3	Double acting		P.602
MHZ	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)	ø10, 16, 20, 25 only	P.440



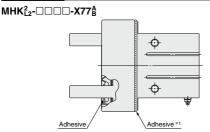
- Note 1) For -X77B, only the finger part is bonded.
- Note 2) The relief port can be attached to both -X77A and -X77B.
- Note 3) The dust cover cannot be removed and replaced.
- Note 4) Be sure to connect the dust cover to the relief port used for dust cover breathing before operating.
- Note 5) For the single acting type, be sure to perform the piping to the breathing port.
- Note 6) For the body option applicable part number of the MHZJ2, only the E type can be applicable.

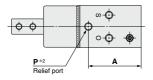
Specifications

Adhesive

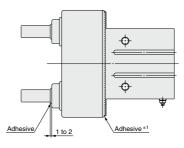
Dimensions (Dimensions other than specified below are the same as the standard type.)

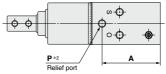
Cyano superglue





		(mm)
Model	A	Р
MHK2-12	26.5	M3 x 0.5
MHK2-16□□□-X77Å	28.5	1VI3 X U.5
MHK2-20	34.5	M5 x 0.8
MHK2-25	37	IVID X U.O
MHKL2-12		M3 x 0.5
MHKL2-16	33	
	38	M5 x 0.8
MHKL2-25	44	



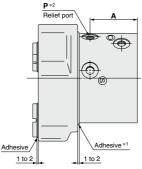


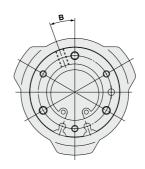
*1) For -X77B, the body part is not bonded, but only the finger part.

- *2) Use the relief port after being piped.
- *3) For the single acting type, be sure to perform the piping to the breathing port. For the single acting type, the port on one side becomes the breathing port.

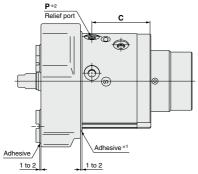
Dimensions (Dimensions other than specified below are the same as the standard type.)

MHSJ3-DD-X77 MHSHJ3-DDD-X77





With center pusher



				(mm)	MHF
Model	Α	В	С	Р	
MHSJ3-16D -X77	21	25°	-	M3 x 0.5	MHL
MHSJ3-20D□-X77Å	21	25°	_		IMITE
MHSJ3-25D -X77	25		-		
MHS ^J _{HJ} 3-32D	28.5	1	37.5	1	MHR
MHS ^J _{HJ} 3-40D□□-X77 ^A	29	000	38.5	M5 x 0.8	
MHS ^J _{HJ} 3-50D	38	20°	49		MHK
MHS ^J _{HJ} 3-63D	41		54		<u> </u>
MHSH 3-80D -X77	45]	58		SHW

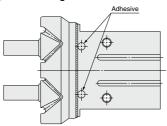
*1) For -X77B, the body part is not bonded, but only the finger part.
*2) Use the relief port after being piped.
*3) Body through-hole mounting is not possible.

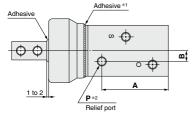
MHK
MHS
MHC
MHT
MHY
MHW
-X□
MRHQ
MA

D-🗆

MHZ

MHZJ2-DD-X77Å





MH7.12 Series

WITIEUE OCTICS	(mm)			
Model	Α	В	Р	
MHZJ2-10□□-X77Å	27	4.2	M0 0 5	
MHZJ2-16 -X77	29	4.8	M3 x 0.5	
MHZJ2-20□□-X77Å	36	5.8	M5 0.0	
MHZJ2-25□□-X77Å	43	6.8	M5 x 0.8	

*1) For -X77B, the body part is not bonded, but only the finger part.
*2) Use the relief port after being piped.
*3) For the single acting type, be sure to perform the piping to the breathing port.



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Made to Order Common Specifications: Air Gripper -X78^A: Dust Cover Caulking

Made to Order

Symbol

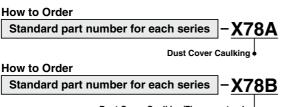
-X78

12 Dust Cover Caulking (Silicone Caulking Agent Used)

Dustproof and dripproof

Applicable Series

Series	Description	Model	Action	Note	Standard model page
MHK Wedge cam operation slide guide		MHK2	Double acting, Single acting (Normally open, Normally closed)		P.550
WILL	wedge carri operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)		
MHS	3-finger type with dust cover	MHSJ3	Double acting		P.594
мпэ	With through hole and dust cover	MHSHJ3	Double acting		P.602
MHZ	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)	ø10, ø16, ø20, ø25 only	P.440



Dust Cover Caulking/Finger part only

Note 1) For -X78B, caulking is applied to only the finger part.

Note 2) Relief port can be mounted on both -X78A and -X78B.

Note 3) Use the dust cover after being piped to the relief port for dust cover breathing.

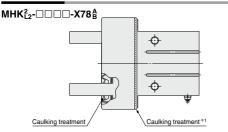
Note 4) For the single acting type, be sure to perform the piping to the breathing port.

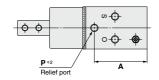
Note 5) For the body option applicable part number of the MHZJ2, only the E type can be applicable.

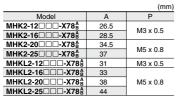
Specifications

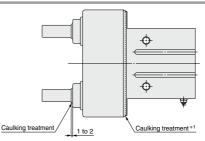
Caulking agent Silicone adhesive, sealant (white)

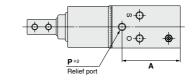
Dimensions (Dimensions other than specified below are the same as the standard type.)









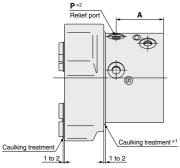


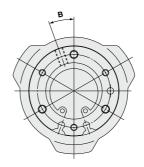
*1) Caulking treatment is not applied to the body of -X78B, but only to the finger part.
 *2) Use the relief port after being piped.

*3) For the single acting type, be sure to perform the piping to the breathing port.

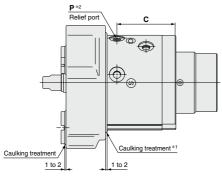
Dimensions (Dimensions other than specified below are the same as the standard type.)

MHSJ3-DD-X78A MHSHJ3-DDD-X78





With center pusher



				(mm)	
Model	Α	В	С	Р	MHF
MHSJ3-16D□-X78 ^A	21	25°	_	M3 x 0.5	<u> </u>
MHSJ3-20D -X78	21	25°	_		MHL
MHSJ3-25D -X78	25	20° -	_	M5 x 0.8	
MHS ^J _{HJ} 3-32D - X78 ^A _B	28.5		37.5		MHR
MHS ^J _{HJ} 3-40D□□-X78 ^A	29		38.5		wiiin
MHS ^J _{HJ} 3-50D - X78 ^A _B	38		49		841117
MHS ^J _{HJ} 3-63D - X78 ^A _B	41		54		MHK
MHS ^J _{HJ} 3-80D - X78 ^A	45		58		<u> </u>
					MILC

*1) Caulking treatment is not applied to the body of -X78B, but only to the finger part.
 *2) Use the relief port after being piped.
 *3) Body through-hole mounting is not possible.

ΗK MHS MHC МНТ MHY MHW -X□ MRHQ MA D-🗆

MHZ

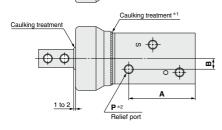
MHZJ2 Series	М	н	Ζ.	12	Se	ries
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MIRZJZ Series (mm)						
Model	Α	В	Р			
MHZJ2-10□□-X78Å	27	4.2	M00.5			
MHZJ2-16□□-X78Å	29	4.8	M3 x 0.5			
MHZJ2-20 -X78	36	5.8	MEXOD			
MHZJ2-25	43	6.8	M5 x 0.8			

*1) Caulking treatment is not applied to the body of -X78B, but only to the finger part.

*2) Use the relief port after being piped.
*3) For the single acting type, be sure to perform the piping to the breathing port.

MHZJ2-DD-X78B	
	Adhesive
5	
	¢ _
	$ \not = \bigoplus_{i=1}^{n}$



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13 Grease for Food Processing Machines

Symbol

Use grease for food processing machines (NSF-H1 certified/fluorine grease).

Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)		P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
		MHCM2	Single acting (Normally open)		P.673
MHF	Low profile	MHF2	Double acting		P.472
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)		P.550
WITE	wedge can operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)		
MHL	Wide opening	MHL2	Double acting		P.498
	2-finger type	MHS2	Double acting		P.576
	3-finger type	MHS3	Double acting		P.584
	3-finger type with dust cover	MHSJ3	Double acting		P.594
MHS	With through hole	MHSH3	Double acting		D COO
	With through hole and dust cover	MHSHJ3	Double acting		P.602
	Long stroke 3-finger type	MHSL3	Double acting		P.618
	4-finger type	MHS4	Double acting		P.628
MHW	180° angular type	MHW2	Double acting		P.711
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		D 000
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.398
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

How to Order

Standard part number for each series

Grease for Food Processing Machines

Specifications

Grease	Grease for Food Processing Machines (NSF-H1 certified)/Fluorine Grease
Specifications/dimensions other than the above	Same as the standard type for each series

* If the fluorine grease is not applicable to the working environment, please use "-X79A."

A Warning

Handling Precautions

Be aware that smoking cigarettes after your hands have come into contact with the grease used for this air gripper can create a gas that is hazardous to humans.

A Caution

Do not use air grippers in a food-related environment.

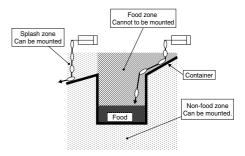
<Cannot be mounted>

Food zone-----Food may directly contact with air grippers, and is treated as food products.

<Can be mounted>

Splash zone-----Food may directly contact with air grippers, but is not treated as food products.

Non-food zone Air grippers do not directly contact food.



Note) For lubrication, specialized grease GR-H is recommended.

14 Grease for Food Processing Machines

Symbol

Use grease for food processing machines (NSF-H1 certified).

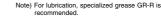
Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)		P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
		MHCM2	Single acting (Normally open)		P.673
MHF	Low profile	MHF2	Double acting		P.472
мнк	Wedge cam operation slide guide	MHK2	Double acting, Single acting (Normally open, Normally closed)		DEEO
MHK	wedge carri operation side guide	MHKL2	Double acting, Single acting (Normally open, Normally closed)		P.550
MHL	Wide opening	MHL2	Double acting		P.498
	2-finger type	MHS2	Double acting		P.576
	3-finger type	MHS3	Double acting		P.586
	3-finger type with dust cover	MHSJ3	Double acting		P.594
MHS	With through hole	MHSH3	Double acting		D 000
	With through hole and dust cover	MHSHJ3	Double acting		P.602
	Long stroke 3-finger type	MHSL3	Double acting		P.618
	4-finger type	MHS4	Double acting		P.628
MHW	180° angular type	MHW2	Double acting		P.711
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		D 000
мнz	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.398
	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

X79A

How to Order

Standard part number for each series



MHZ
MHF
MHL
MHR
MHK
MHS
MHC
MHT
MHY
MHW
-X□
MRHQ
MA
-

D-🗆

Grease for Food Processing Machines

Specifications

Grease	Grease for Food Processing Machines (NSF-H1 certified)/Aluminum Complex Soap Base Grease
Specifications/dimensions other than the above	Same as the standard type for each series

▲Caution

Do not use air grippers in a food-related environment.

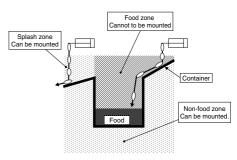
<Cannot be mounted>

Food zone-----Food may directly contact with air grippers, and is treated as food products.

<Can be mounted>

Splash zone-----Food may directly contact with air grippers, but is not treated as food products.

Non-food zone Air grippers do not directly contact food.



15 Anti-corrosive Treatment of Finger



Special black chromium treatment

• The finger and guide use the martensitic stainless steel. When anti-corrosive measures better than the martensitic stainless steel level are required, use these series.

Applicable Series

Series	Description	Model	Action	Note	Standard model page
		MHC2	Double acting, Single acting (Normally open)		P.675
MHC	Angular type	MHCA2	Double acting, Single acting (Normally open)		P.664
	- ···	MHCM2	Single acting (Normally open)		P.673
MHF	Low profile	MHF2	Double acting		P.472
MHY	180° angular type cam type	MHY2	Double acting		P.704
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		P.398
	Parallel type with dust cover (compact)	MHZAJ2	Double acting, Single acting (Normally open, Normally closed)		P.390
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426
	Parallel type with dust cover	MHZJ2	Double acting, Single acting (Normally open, Normally closed)		P.440

How to Order

Standard part number for each series



Anti-corrosive Treatment of Finger

Applicable Series

Series	Description	Model	Action	Note	Standard model page
MHF	Low profile	MHF2	Double acting		P.472
	Parallel type (compact)	MHZA2	Double acting, Single acting (Normally open, Normally closed)		P.398
MHZ	Parallel type	MHZ2	Double acting, Single acting (Normally open, Normally closed)		P.408 to 410
	Parallel type (long stroke)	MHZL2	Double acting, Single acting (Normally open, Normally closed)		P.426

How to Order

Standard part number for each series - X81B

Anti-corrosive Treatment of Finger and Guide

Specifications

Treatment	Special black chromium treatment
Specifications/dimensions other than the above	Same as the standard type for each series