

Active without pressure: The Clamping and Braking Element including spring-loaded energy storage **MB**.

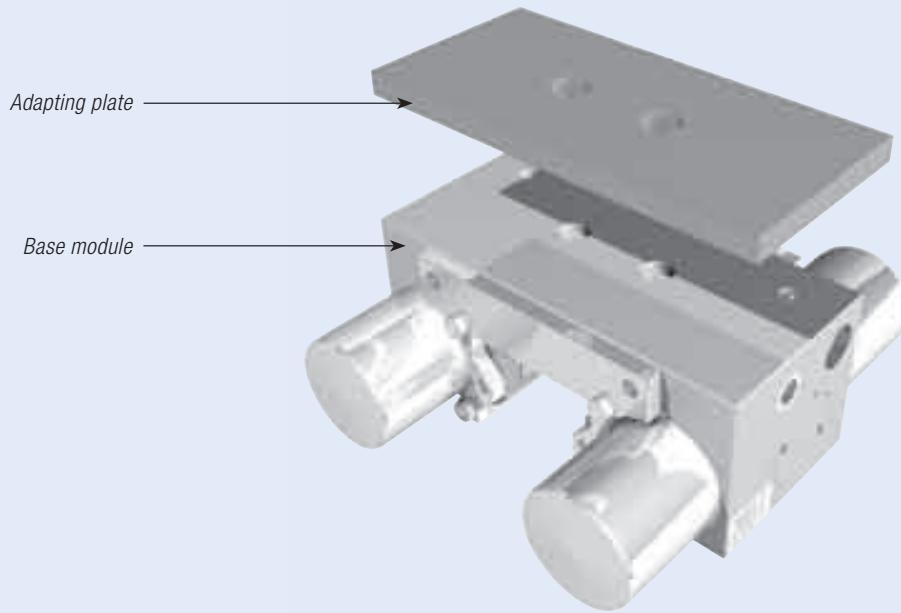
The MB series is based on a dual-effective wedge slide gear with spring-loaded energy storage for clamping and braking without pressure. As a specific feature it has three pistons connected in a line. This arrangement allows use of a stronger spring at 4.5 bar than the BW series does.

The stronger spring-loaded storage permits holding forces up to 3,800 N. The MB series is designed for braking on linear guides. Because of the material combination of the linear guide/contact section, the linear guide won't be damaged by the contact section.

In order to prevent damage from contamination with chips (chips between contact section and linear guide), the majority of elements can be fitted with original seals from the respective linear guide manufacturer as accessories. In order to guarantee the lifetime of the seals, follow the corresponding instructions from the respective linear guide manufacturer.

Details on the length of the brake path to be expected can be obtained from our technical advisors. The computations are based on serial tests and our industrial experience.

MB Design



MB

Special characteristics:

- Special friction coating for braking
- Lower air consumption
- Opening pressure >4.5 bar, pneumatic

Application scenarios for MB:

- Clamping in case of pressure drop
- Emergency OFF function
- Braking for linear motors
- Z-axes positioning in neutral position
- Machine table clamping of work centres

Variations:

Depending on the height of the carriage, an additional adapting plate is required (see table).

Connection options:

The MB series has air connections on both sides as part of its standard equipment. This means that the air connection can be moved over to the opposite side.

PLUS connection is not possible with the MB series.

Rail manufacturer



Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm]	Measure table (page 37)
SRG	15	SRG..A, SRG..V	MBPS 1501 ES1		24	23
	20	SRG..A, SRG..LA, SRG..V, SRG..LV	MBPS 2001 ES1		30	12
	25	SRG..C, SRG..LC	MBPS 2501 ES1		36	1
		SRG..R, SRG..LR	MBPS 2501 ES1	PMB 25-4	40	
	30	SRG..C, SRG..LC	MBPS 3001 ES1		42	5
		SRG..R, SRG..LR	MBPS 3001 ES1	PMB 30-3	45	
	35	SRG..C, SRG..LC	MBPS 3501 ES1		48	3
		SRG..R, SRG..LR	MBPS 3501 ES1	PMB 35-7	55	
	45	SRG..C, SRG..LC	MBPS 4501 ES1		60	4
		SRG..R, SRG..LR	MBPS 4501 ES1	PMB 45-10	70	
	55	SRG..C, SRG..LC	MBPS 5501 ES1		70	16
		SRG..R, SRG..LR	MBPS 5501 ES1	PMB 55-13	80	
65	SRG..LC, SRG..LV	Ⓢ		90		
SRN	35	SRN..C, SRN..LC, SRN..L, SRN..LR	Ⓢ		44	
	45	SRN..C, SRN..LC, SRN..L, SRN..LR	Ⓢ		52	
	55	SRN..C, SRN..LC, SRN..L, SRN..LR	Ⓢ		63	
	65	SRN..LC, SRN..LR	Ⓢ		75	
SHS	15	SHS..C, SHS..LC, SHS..V, SHS..LV	x			
		SHS..R	x			
	20	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS 2001 CS1		30	12
	25	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS 2501 CS1	PMB 25-1	36	11
		SHS..R, SHS..LR	MBPS 2501 CS1	PMB 25-5	40	
	30	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS 3001 CS1		42	5
		SHS..R, SHS..LR	MBPS 3001 CS1	PMB 30-3	45	
	35	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS 3501 CS1		48	8
		SHS..R, SHS..LR	MBPS 3501 CS1	PMB 35-7	55	
	45	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS 4501 CS1		60	9
		SHS..R, SHS..LR	MBPS 4501 CS1	PMB 45-13	70	
	55	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS 5501 CS1		70	15
SHS..R, SHS..LR		MBPS 5501 CS1	PMK 65-10	80		
65	SHS..C, SHS..LC, SHS..V, SHS..LV	Ⓢ		90		
HSR	15	HSR..A, HSR..B	MBPS 1501 AS1		24	22
		HSR..R	MBPS 1501 AS1	PMB 15-4	28	
	20	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..R, HSR..LR, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS 2001 AS1		30	12
	25	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS 2501 AS1		36	10
		HSR..R, HSR..LR	MBPS 2501 AS1	PMB 25-4	40	
	30	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS 3001 AS1		42	5
		HSR..R, HSR..LR	MBPS 3001 AS1	PMB 30-3	45	
	35	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS 3501 AS1		48	6
		HSR..R, HSR..LR	MBPS 3501 AS1	PMB 35-7	55	
	45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS 4501 AS1		60	7
		HSR..R, HSR..LR	MBPS 4501 AS1	PMB 45-10	70	
	55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	Ⓢ		70	
		HSR..R, HSR..LR	Ⓢ		80	
	65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..R, HSR..LR, HSR..CA, HSR..HA, HSR..CB, HSR..HB	Ⓢ		90	
SSR	15	SR..TB, SR..SB, SR..W, SR..V, SSR..XWY, SSR..XVY, SSR..XTBY	MBPS 1501 GS1		24	22
	20	SR..TB, SR..SB, SR..W, SR..V, SSR..XW, SSR..XV, SSR..XTB	MBPS 2001 GS1		28	14
	25	SR..TB, SR..SB, SR..W, SR..V, SSR..XWY, SSR..XVY, SSR..XTBY	MBPS 2501 GS1		33	13
	30	SR..TB, SR..SB, SR..W, SR..V, SSR..XW	MBPS 3001 GS1		42	5
	35	SR..TB, SR..SB, SR..W, SR..V, SSR..XW	MBPS 3501 GS1	PMB 35-4	48	17
	45	SR..TB, SR..W	Ⓢ		60	
	55	SR..TB, SR..W	Ⓢ		68	

x: not feasible

*¹ Only required for high carriage design

*² Supplements the measure table and datasheet

See page 13 for part number explanation

Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm] ^{*2}	Measure table (page 57)
NR / NRS	25	NR / NRS..XR, NR / NRS..XLR, NR / NRS..XA, NR / NRS..XLA, NR / NRS..XB, NR / NRS..XLB	☉		31	
	30	NR / NRS..R, NR / NRS..LR, NR / NRS..A, NR / NRS..LA, NR / NRS..B, NR / NRS..LB	MBPS 3001 BS1		38	26
	35	NR / NRS..R, NR / NRS..LR, NR / NRS..A, NR / NRS..LA, NR / NRS..B, NR / NRS..LB	MBPS 3501 BS1		44	21
	45	NR / NRS..R, NR / NRS..LR, NR / NRS..A, NR / NRS..LA, NR / NRS..B, NR / NRS..LB	MBPS 4501 BS1		52	27
	55	NR / NRS..R, NR / NRS..LR, NR / NRS..A, NR / NRS..LA, NR / NRS..B, NR / NRS..LB	☉		63	
	65	NR / NRS..R, NR / NRS..LR, NR / NRS..A, NR / NRS..LA, NR / NRS..B, NR / NRS..LB	☉		75	
SNR / SNS	25	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS 2501 ISI		31	25
	30	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	☉		38	
	35	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS 3501 ISI		44	21
		SNR..CH, SNR..LCH, SNS..CH, SNS..LCH	MBPS 3501 ISI	PMB 35-4	48	
		SNR..RH, SNR..LRH, SNS..RH, SNS..LRH	MBPS 3501 ISI	PMB 35-11	55	
	45	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	☉		52	
		SNR..CH, SNR..LCH, SNS..CH, SNS..LCH	☉		60	
		SNR..RH, SNR..LRH, SNS..RH, SNS..LRH	☉		70	
	55	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	☉		63	
		SNR..CH, SNR..LCH, SNS..CH, SNS..LCH	☉		70	
		SNR..RH, SNR..LRH, SNS..RH, SNS..LRH	☉		80	
	65	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	☉		75	

Rail manufacturer



MB

1605, 1607 1645, 1647	15	1661, 1662, 1665, 1651, 1653, 1666, 1622, 1623	MBPS 1505 AS1		24	24
	20	1661, 1662, 1665, 1651, 1653, 1666, 1622, 1623	MBPS 2005 AS1		30	12
		1661, 1662, 1665, 1651, 1653, 1666, 1622, 1623	MBPS 2505 AS1		36	1
	25	1631, 1632				
		1621, 1624	MBPS 2505 AS1	PMB 25-4	40	
	30	1661, 1662, 1665, 1651, 1653, 1666, 1622, 1623	MBPS 3005 AS1		42	2
		1631, 1632				
	35	1621, 1624	MBPS 3005 AS1	PMB 30-3	45	
		1661, 1662, 1665, 1651, 1653, 1666, 1622, 1623	MBPS 3505 AS1		48	3
	45	1631, 1632				
		1621, 1624	MBPS 3505 AS1	PMB 35-7	55	
	55	1651, 1653, 1622, 1623	MBPS 4505 AS1		60	4
		1621, 1624	MBPS 4505 AS1	PMB 45-10	70	
	65	1651, 1653, 1622, 1623	MBPS 5505 AS1		70	18
1621, 1624		MBPS 5505 AS1	PMB 55-10	80		
1805, 1807	25	1651, 1653, 1622, 1623, 1621, 1624	MBPS 6505 AS1		90	19
		1851, 1853	MBPS 2505 BS1		36	1
	35	1821, 1824	MBPS 2505 BS1	PMB 25-4	40	
		1851, 1853	MBPS 3505 BS1		48	3
	45	1821, 1824	MBPS 3505 BS1	PMB 35-7	55	
		1851, 1853	MBPS 4505 BS1		60	4
	55	1821, 1824	MBPS 4505 BS1	PMB 45-10	70	
		1851, 1853	MBPS 5505 BS1		70	18
	65	1821, 1824	MBPS 5505 BS1	PMB 55-10	80	
		1853, 1824	☉		90	

Rail manufacturer



*¹ Only required for high carriage design

*² Supplements the measure table and datasheet

See page 13 for part number explanation

Rail manufacturer



Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm] ^{*2}	Measure table (page 37)
MR	25	MR..A, MR..B	MBPS 2503 AS1		36	1
		MR..C, MR..D, MR..E	MBPS 2503 AS1	PMB 25-4	40	
	35	MR..A, MR..B	MBPS 3503 AS1		48	3
		MR..C, MR..D, MR..E	MBPS 3503 AS1	PMB 35-7	55	
	45	MR..A, MR..B	MBPS 4503 AS1		60	4
		MR..C, MR..D	MBPS 4503 AS1	PMB 45-10	70	
	55	MR..A, MR..B	⊗		70	
		MR..C, MR..D	⊗		80	
65	MR..B, MR..D	⊗		90		

Rail manufacturer



LRX	15	LRXC, LRX, LRXG, LRXSC, LRXS, LRXSG	⊗		24	
		LRXDC, LRXD, LRXDG	⊗		28	
	20	LRXC, LRX, LRXG, LRXSC, LRXS, LRXSG	⊗		30	
		LRXDC, LRXD, LRXDG	⊗		34	
	25	LRXC, LRX, LRXG, LRXSC, LRXS, LRXSG	MBPS 2510 BS1		36	1
		LRXDC, LRXD, LRXDG	MBPS 2510 BS1	PMB 25-4	40	
	30	LRXC, LRX, LRXG, LRXSC, LRXS, LRXSG	MBPS 3010 BS1		42	5
		LRXDC, LRXD, LRXDG	MBPS 3010 BS1	PMB 30-3	45	
	35	LRXC, LRX, LRXG	MBPS 3510 BS1		48	3
		LRXDC, LRXD, LRXDG	MBPS 3510 BS1	PMB 35-7	55	
	45	LRXC, LRX, LRXG	MBPS 4510 BS1		60	4
		LRXDC, LRXD, LRXDG	MBPS 4510 BS1	PMB 45-10	70	
	55	LRXC, LRX, LRXG	⊗		70	
		LRXDC, LRXD, LRXDG	⊗		80	
	65	LRXDC, LRXD, LRXDG	⊗		90	

Size 45 only for use without cover sheet!

Rail manufacturer



TKSD (KUSE)	20	KWSE, KWSE..-L, KWSE..-H, KWSE..-HL	⊗		30	
	25	KWSE, KWSE..-L	MBPS 2502 AS1		36	10
		KWSE..-H, KWSE..-HL	MBPS 2502 AS1	PMB 25-4	40	
	30	KWSE, KWSE..-L	⊗		42	
		KWSE..-H, KWSE..-HL	⊗		45	
	35	KWSE, KWSE..-L	MBPS 3502 AS1		48	6
		KWSE..-H, KWSE..-HL	MBPS 3502 AS1	PMB 35-7	55	
	45	KWSE, KWSE..-L	⊗		60	
KWSE..-H, KWSE..-HL		⊗		70		
55	KWSE, KWSE..-L	⊗		70		
	KWSE..-H, KWSE..-HL	⊗		80		
TKVD (KUVE)	15	KWVE..-B, KWVE..-B-EC, KWVE..-E, KWVE..-ES, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL	⊗		24	
		KWVE..-B-H, KWVE..-B-KT-H, KWVE..-B-KT-HL	⊗		28	
	20	KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL	MBPS 2002 BS1		30	12
		KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	⊗		27	
	25	KWVE..-E, KWVE..-B-EC, KWVE..-ES, KWVE..-B-ESC	⊗		28	
		KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-SN-K, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL	MBPS 2502 BS1	PMB 25-3	36	20
		KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	⊗		31	
		KWVE..-E, KWVE..-B-EC, KWVE..-ES, KWVE..-B-ESC	⊗		33	
		KWVE..-ES-K, KWVE..-ESC-K	⊗		38	
		KWVE..-B-H, KWVE..-B-HL, KWVE..-B-KT-H, KWVE..-B-KT-HL	MBPS 2502 BS1	PMB 25-7	40	20
			⊗			
			⊗			

^{*1} Only required for high carriage design

^{*2} Supplements the measure table and datasheet

See page 13 for part number explanation

Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm] ^{*2}	Measure table (page 57)	
	30	KWVE...-B, KWVE...-B-EC, KWVE...-B-L, KWVE...-E, KWVE...-ES, KWVE...-B-ESC, KWVE...-B-S, KWVE...-B-SL, KWVE...-B-KT, KWVE...-B-KT-L, KWVE...-B-KT-S, KWVE...-B-KT-SL	MBPS 3002 BS1		42	2	
		KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL	☉		38		
		KWVE...-B-H, KWVE...-B-HL, KWVE...-B-KT-H, KWVE...-B-KT-HL	MBPS 3002 BS1	PMB 30-3	45	2	
	35	KWVE...-B, KWVE...-B-EC, KWVE...-B-L, KWVE...-E, KWVE...-ES, KWVE...-B-ESC, KWVE...-B-S, KWVE...-B-SL, KWVE...-B-KT, KWVE...-B-KT-L, KWVE...-B-KT-S, KWVE...-B-KT-SL,	MBPS 3502 BS1	PMB 35-4	48	21	
		KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL	☉		44		
		KWVE...-B-H, KWVE...-B-HL, KWVE...-B-KT-H, KWVE...-B-KT-HL	MBPS 3502 BS1	PMB 35-11	55	21	
	45	KWVE...-B, KWVE...-B-EC, KWVE...-B-L, KWVE...-E, KWVE...-ES, KWVE...-B-ESC, KWVE...-B-S, KWVE...-B-SL, KWVE...-B-KT, KWVE...-B-KT-L, KWVE...-B-KT-S, KWVE...-B-KT-SL,	MBPS 4502 BS1		60	4	
		KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL	☉		52		
		KWVE...-B-H, KWVE...-B-HL, KWVE...-B-KT-H, KWVE...-B-KT-HL	MBPS 4502 BS1	PMB 45-10	70	4	
	TSX - E (RUE)	25	RWU...-D, RWU...-D-L	MBPS 2502 DS1		36	28
			RWU...-D-H, RWU...-D-HL	MBPS 2502 DS1	PMB 25-4/01	40	
		35	RWU...-E, RWU...-E-L, RWU...-E-KT-L	MBPS 3502 DS1	PMB 35-2	48	29
RWU...-E-H, RWU...-E-HL, RWU...-E-KT-HL			MBPS 3502 DS1	PMB 35-9	55		
45		RWU...-E, RWU...-E-L, RWU...-E-KT-L	MBPS 4502 DS1		60	4	
		RWU...-E-H, RWU...-E-HL, RWU...-E-KT-HL	MBPS 4502 DS1	PMB 45-10	70		
55		RWU...-E, RWU...-E-L, RWU...-E-KT-L	☉		70		
		RWU...-E-H, RWU...-E-HL, RWU...-E-KT-HL	☉		80		
65		RWU...-E, RWU...-E-L	☉		90		
	RWU...-E-H, RWU...-E-HL	☉		100			

Rail manufacturer



MB

^{*1} Only required for high carriage design

^{*2} Supplements the measure table and datasheet

See page 13 for part number explanation

Rail manufacturer
NSK

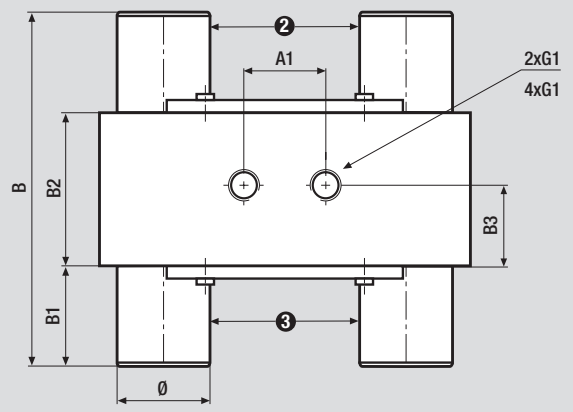
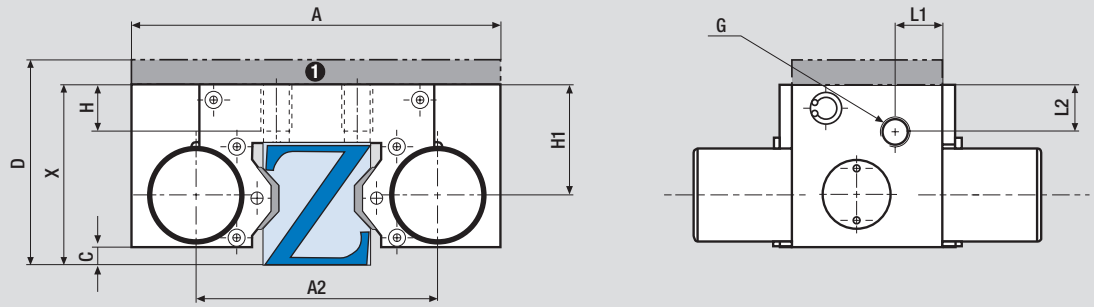
Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm]	Measure table (page 37) ^{*2}
LH	15	LAH..EMZ, LAH..GMZ	☉		24	
		LAH..ANZ, LAH..BNZ	☉		28	
	20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	MBPS 2004 BS1		30	12
		LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MBPS 2504 BS1		36	10
	25	LAH..ANZ, LAH..BNZ	MBPS 2504 BS1	PMB 25-4	40	
		LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MBPS 3004 BS1		42	5
	30	LAH..ANZ, LAH..BNZ	MBPS 3004 BS1	PMB 30-3	45	
		LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MBPS 3504 BS1		48	6
	35	LAH..ANZ, LAH..BNZ	MBPS 3504 BS1	PMB 35-7	55	
		LAH..EMZ, LAH..GMZ	MBPS 4504 BS1		60	7
	45	LAH..ANZ, LAH..BNZ	MBPS 4504 BS1	PMB 45-10	70	
		LAH..EMZ, LAH..GMZ	☉		70	
	55	LAH..ANZ, LAH..BNZ	☉		80	
LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ		☉		90		
SH	15	SAH..EMZ, SAH..GMZ	☉		24	
		SAH..ANZ, SAH..BNZ	☉		28	
	20	SAH..EMZ, SAH..GMZ, SAH..ANZ, SAH..BNZ	MBPS 2004 BS1		30	12
		SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS 2504 BS1		36	10
	25	SAH..ANZ, SAH..BNZ	MBPS 2504 BS1	PMB 25-4	40	
		SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS 3004 BS1		42	5
	30	SAH..ANZ, SAH..BNZ	MBPS 3004 BS1	PMB 30-3	45	
		SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS 3504 BS1		48	6
	35	SAH..ANZ, SAH..BNZ	MBPS 3504 BS1	PMB 35-7	55	
		SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS 3504 BS1		55	
LY	15	LY..EL, LY..FL, LY..AL	☉		24	
		LY..AN	☉		28	
	20	LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL	☉		30	
		LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL	☉		36	
	25	LY..AN, LY..BN	☉		40	
		LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL	MBPS 3004 CS1		42	5
	30	LY..AN, LY..BN	MBPS 3004 CS1	PMB 30-3	45	
		LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL	MBPS 3504 CS1		48	6
	35	LY..AN, LY..BN	MBPS 3504 CS1	PMB 35-7	55	
		LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL	MBPS 4504 CS1		60	7
	45	LY..AN, LY..BN	MBPS 4504 CS1	PMB 45-10	70	
		LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL	☉		70	
	55	LY..AN, LY..BN	☉		80	
LY..EL, LY..FL, LY..GL, LY..HL, LY..AL, LY..BL		☉		80		
65	LY..EL, LY..FL, LY..GL, LY..HL, LY..AN, LY..BN	☉		90		
LA			x			
RA	15	RA..AL, RA..BL, RA..EM, RA..GM	☉		24	
		RA..AN, RA..BN	☉		28	
	20	RA..EM, RA..GM, RA..AN, RA..BN	☉		30	
		RA..AL, RA..BL, RA..EM, RA..GM	MBPS 2504 FS1		36	1
	25	RA..AN, RA..BN	MBPS 2504 FS1	PMB 25-4	40	
		RA..AL, RA..BL, RA..EM, RA..GM	MBPS 3004 FS1		42	2
	30	RA..AN, RA..BN	MBPS 3004 FS1	PMB 30-3	45	
		RA..AL, RA..BL, RA..EM, RA..GM	MBPS 3504 FS1		48	3
	35	RA..AN, RA..BN	MBPS 3504 FS1	PMB 35-7	55	
		RA..AL, RA..BL, RA..EM, RA..GM	MBPS 4504 FS1		60	4
	45	RA..AN, RA..BN	MBPS 4504 FS1	PMB 45-10	70	
		RA..AL, RA..BL, RA..EM, RA..GM	☉		70	
	55	RA..AN, RA..BN	☉		80	
RA..AL, RA..BL, RA..EM, RA..GM		☉		80		
65	RA..EM, RA..GM, RA..AN, RA..BN	☉		90		

x: not feasible

^{*1} Only required for high carriage design

^{*2} Supplements the measure table and datasheet

See page 13 for part number explanation



Note: Consider measurement C!
 Air connections are located on both sides and can be exchanged according to mounting requirements.
 Only one connection is necessary for function.

- 1 Adapter plate PMB (accessory)
- 2 mounting of piston unit
- 3 mounting of spring unit

Measure table	Holding power [N] MB	A [mm]	A1 [mm]	A2 [mm]	B [mm]	B1 [mm]	B2 [mm]	B3 [mm]	C [mm]	X [mm]	G	G1	L1 [mm]	L2 [mm]	Ø [mm]	H [mm]	H1 [mm]
1	1300	75	20	49	95,2	20,2	44	22	3,5	36	M5	M6	16,5	6,5	22	8	20
2	2000	90	22	58	107	29	47	23	3,5	42	M5	M8	30,5	7,2	25	9	24
3	2600	100	24	68	105,7	27,7	46	24,5	6	48	G1/8"	M8	19	9	28	10	26,5
4	3800	120	26	78,8	113,2	32,2	49	24,5	8	60	G1/8"	M10	31,1	15	30	15	35,5
5	1300	90	22	64	98,2	20,2	47	23	7	42	M5	M8	14	6,5	22	9	22,5
6	2000	100	24	70	106	29	46	24,5	9,5	48	M5	M8	19	7,2	25	9	24
7	2600	120	26	88	108,7	27,7	49	24,5	15	60	G1/8"	M10	16	8	28	14	29,5
8	2000	100	24	70	106	29	46	24,5	8	48	M5	M8	19	8,7	25	9	25,5
9	2600	120	26	88	108	27,2	49	24,5	12	57	G1/8"	M10	16	8	28	14	29,5
10	1200	75	20	52	94	22	44	22	6,5	36	M5	M6	16,2	5	20	8	18
11	1200	75	20	52	94	22	44	22	5,5	36	M5	M6	16,2	6	20	7	19
12	750	66	20	45,7	94	19	44	22	4,2	30	M5	M6	15,5	5,5	16	8,6	16,2
13	1200	75	23	52	95	22	44	22	5,5	33	M5	M6	16,2	5	20	8	16,5
14	1000	66	20	45,7	94	19	44	22	2,2	28	M5	M6	15,5	5,5	16	8,6	16,2
15	3800	140	30/30	98,8	113,2	32,2	49	9,5	13	70	G1/8"	M10	30,3	15	30	18	40,5
16	4700	140	38/38	97	144	41	62	12	8	67	G1/8"	M10	23	11	39	18	38
17	1700	100	24	70	106	29	46	24,5	5,5	44	M5	M8	19	7,2	25	9	24
18	4700	140	38/38	97	144	41	62	12	11	70	M5	M10	23	11	39	18	38
19	4700	150	38/38	106	144	41	62	12	14,5	90	M5	M10	23	16	39	18	53,5
20	1200	75	20	52	94	22	44	22	3,5	33	M5	M6	16,2	5	20	7	18
21	2000	100	24	70	106	29	46	24,5	5,5	44	M5	M8	19	7,2	25	9	24
22	750	61	15	40,8	94	19	44	22	2,5	24	M5	M5	34,5	5,3	16	7,3	11,8
23	750	61	15	40,8	94	19	44	22	2,5	24	M5	M6	34,5	5,3	16	8,6	11,8
24	1000	61	15	40,8	94	19	44	22	2,5	24	M5	M5	34,3	5,3	16	7,5	11,8
25	750	72	20	52	94	19	44	22	5,2	31	M5	M6	35,2	8,2	16	8,6	16,2
26	1300	90	22	64	98,2	20,2	47	23	3	38	M5	M8	14	6,5	22	9	22,5
27	2600	120	26	88	109	27,7	49	24,5	7	52	G1/8"	M10	16	8	28	14	29,5
28	750	70	23	48	94	19	44	22	4	36	M5	M6	15,5	10	16	8	22,5
29	2100	100	24	68	105,7	27,7	46	24,5	4	46	G1/8"	M8	19	9	28	10	26,5