



**MB-Z series**  
**Air cylinder**

# Improved features and related benefits

**FEATURE:** Weight reduced by up to 16% thanks to a new shape of the rod and head covers.

**CUSTOMER BENEFIT:** Contribution to a reduced overall weight.



# Technical details

## ■ Cylinder variation

MB-Z Option	Availability
Standard	●
Non-rotating rod	x
Double rod	○
With rod boot	○
Clean series	x
Copper-free	●
Water resistant	○
Smooth type	○

- Released in June'12
- Released in April'13
- x Not released as MB-Z yet

✓ **XC6 in the old MB is now available as XC68 in MB-Z**

✓ **Low friction in old MB (option Q) is consolidated into smooth type MB-Z (MBY)**

✓ **XC3 options have been reduced to: XC3AB, XC3BC, XC3CD, XC3DA**

✓ **MB-Z is copper free as standard (no need for 20-)**

✓ **MB in 125 bore size is only available in the old version**

MB-Z Option	Availability
XA	○
XB5	x
XB6	○
XB13	○
XC3	○
XC4	○
XC5	○
XC68	○
XC7	○
XC8	○
XC9	○
XC10	○
XC11	○
XC12	○
XC14	○
XC22	○
XC27	○
XC29	○
XC30	○
XC35	○
XC65	○
XC88 <i>New</i>	○
XC89 <i>New</i>	○
X1184	○

# Technical details

## Product weight

*Zero stroke weight (Kg)*

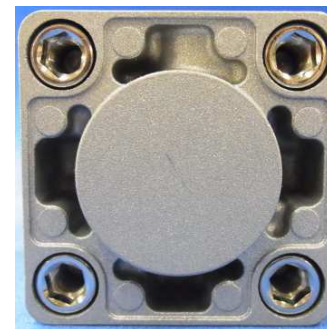
Bore size	Old MB	MB-Z
32	0,50	0,37
40	0,69	0,52
50	1,19	0,91
63	1,47	1,15
80	2,73	2,11
100	3,70	3,06

## Seal kit

Bore size	Old MB	MB-Z
32	MB32-PS	MB32Z-PS
40	MB40-PS	CA2-40Z-PS
50	MB50-PS	CA2-50Z-PS
63	MB63-PS	CA2-63Z-PS
80	MB80-PS	CA2-80Z-PS
100	MB100-PS	CA2-100Z-PS

## Outline shape and external colour

- ✓ Rod and head covers are changed in shape and surface treatment, but without affecting mounting interchangeability.
- ✓ SMC trademark is added to the head cover



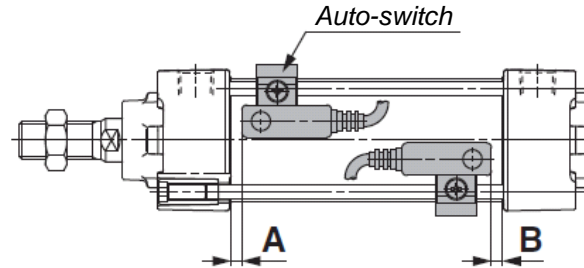
*Old MB*



*MB-Z*

# Technical details

## Auto-switch proper mounting location



  Different dimensions

Series	Bore Size	D-A9#		D-M9#		D-Z7# D-Z80 D-Y59# D-Y69# D-Y7#		D-P3DW		D-P4DW		D-F5# D-J5# D-F59F D-F5#W D-J59W D-F5BAL		D-A59W		D-F5NTL		D-A5# D-A6#		D-G39# D-K39# D-A3# D-A44#	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Old MB	32	6,5	4	10,5	8	4	1,5	6	3	3,5	1	7	4,5	4,5	2	12	9,5	0,5	0	0,5	0
	40	6,5	4	10,5	8	4	1,5	6	3	3,5	1	7	4,5	4,5	2	12	9,5	0,5	0	0,5	0
	50	7	4,5	11	8,5	4,5	2	6	4	4	1,5	7,5	5	5	2,5	12,5	10	1	0	1	0
	63	7	4,5	11	8,5	4,5	2	6	4	4	1,5	7,5	5	5	2,5	12,5	10	1	0	1	0
	80	10	8,5	14	12,5	7,5	6	4	2,5	7	5,5	10,5	9	8	6,5	15,5	14	4	2,5	4	2,5
100	10	8,5	14	12,5	7,5	6	4	2,5	7	5,5	10,5	9	8	6,5	15,5	14	4	2,5	4	2,5	
MB-Z	32	6	4	10	8	3,5	1,5	5,5	3,5	3	1	6,5	4,5	4	2	11,5	9,5	0	0	0	0
	40	5	5	9	9	2,5	2,5	4,5	4,5	2	2	5,5	5,5	3	3	10,5	10,5	0	0	0	0
	50	6	5	10	9	3,5	2,5	5,5	4,5	3	2	6,5	5,5	4	3	11,5	10,5	0	0	0	0
	63	6	5	10	9	3,5	2,5	5,5	4,5	3	2	6,5	5,5	4	3	11,5	10,5	0	0	0	0
	80	10,5	7,5	14,5	11,5	8	5	5,5	2	7,5	4,5	11	8	8,5	5,5	16	13	4,5	1,5	4,5	1,5
100	10	8	14	12	7,5	5,5	5	2,5	7	5	10,5	8,5	12	6	15,5	13,5	4	2	4	2	