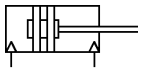
VDMA Compact cylinders

RM/192000/MX, .../M

Double acting

Ø 20 to 125 mm

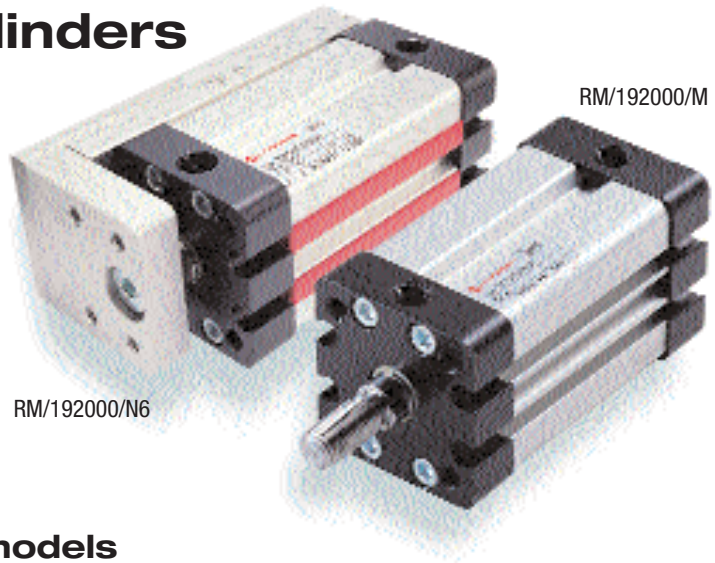


Pitch and mountings to VDMA 24562

Magnetic piston as standard

Seals ensure low friction operation and long life

Switches can be mounted flush with the profile



RM/192000/M

RM/192000/N6

Technical data

Medium:
Compressed air, filtered, lubricated or non-lubricated

Operation:
RM/192000/M
Double acting, magnetic piston, male piston rod thread, buffer cushioning
RM/192000/MX
Double acting, magnetic piston, female piston rod thread, buffer cushioning

Operating pressure:
1 to 10 bar

Operating temperature:
-10°C to +80°C max.
Consult our Technical Service for use below +2°C

Strokes:
See table

Materials

Profile barrel: anodised aluminium
End covers: anodised aluminium
Piston rod: stainless steel (Martensitic)
Piston rod seals: polyurethane
Piston seals: nitrile rubber
O-rings: nitrile rubber

Standard models

Ø	Piston rod Ø	Port size	Female thread	Male thread	Service kit
20	10	M5	RM/192020/MX/*	RM/192020/M/*	QM/192020/00
25	10	M5	RM/192025/MX/*	RM/192025/M/*	QM/192025/00
32	12	G1/8	RM/192032/MX/*	RM/192032/M/*	QM/192032/00
40	16	G1/8	RM/192040/MX/*	RM/192040/M/*	QM/192040/00
50	20	G1/8	RM/192050/MX/*	RM/192050/M/*	QM/192050/00
63	20	G1/8	RM/192063/MX/*	RM/192063/M/*	QM/192063/00
80	25	G1/8	RM/192080/MX/*	RM/192080/M/*	QM/192080/00
100	25	G1/4	RM/192100/MX/*	RM/192100/M/*	QM/192100/00
125	32	G1/4	RM/192125/MX/*	RM/192125/M/*	QM/192125/00

*Insert stroke length in mm. Cylinder sizing and speed control see page 6

Standard strokes

Ø	5	10	15	20	25	30	40	50	60	80	100
20	❍	❍	❍	❍	❍	❍	❍	❍			
25	❍	❍	❍	❍	❍	❍	❍	❍			
32	●	●	●	●	●	●	●	●	●	●	❍
40	❍	●	●	●	●	●	❍	●	❍	❍	❍
50		●	●	●	●	❍	❍	●	❍	●	❍
63		❍	❍	❍	❍	❍	❍	●	❍	●	❍
80			❍	❍	●	❍	❍	●	❍	❍	❍
100			❍	❍	❍	❍	❍	●	❍	❍	❍
125			❍	❍	❍	❍	❍	❍	❍	❍	❍

Options selector

RM/192★★★/★★★/★★★

Cylinder diameters (mm)	Substitute
20	020
25	025
32	032
40	040
50	050
63	063
80	080
100	100
125	125

Strokes (mm)		
Ø 20 ... 25	min 5	max.200
Ø 32 ... 40	min 5	max. 300
Ø 50 ... 63	min 10	max. 400
Ø 80 ... 125	min 15	max. 500

Piston rod thread	Substitute
Female	X
Male	None

Variants (magnetic piston)	Substitute
Standard	M
Double ended piston rod	JM
Non-rotating piston rod	N2
Guided piston rod	N4
Extended piston rod	MU
External guiding available for Ø 25 or 32 mm	N6
RM/192***/MU*/***/*** → Extension (mm)	

Note: Disregard option positions not used.
For combinations of cylinder variants consult our Technical Service.

Switches

With integral cable

With plug-in cable

	Model		Plug-in cable	Groove cover
Reed	M/50/LSU/*V	M/50/LSU/CP	M/P73001/5 (5 m)	M/P72725/1000
Solid state	M/50/EAP/*V	M/50/EAP/CP	M/P73001/5 (5 m)	

*Insert cable length – 2, 5 or 10 m. For details see page 198

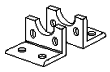
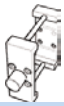
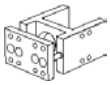
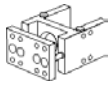
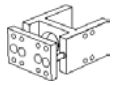
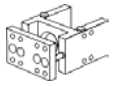
VDMA Compact cylinders

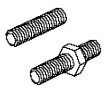
RM/192000/MX, .../M

Double acting

Ø 20 to 125 mm

Mountings

Ø	B, G	C	D	D2	FH	R	S	L2	
									
20	QA/192020/22	QM/192020/21	–	–	–	QM/192020/27	–	QM/8020/44	
25	QA/192025/22	QM/192025/21	–	–	–	QM/192025/27	–	QM/8020/44	
32	QA/8032/22	QA/8032/21	QA/8032/23	QA/8032/42	QA/8032/34	QA/8032/27	QA/8032/41		
40	QA/8040/22	QA/8040/21	QA/8040/23	QA/8040/42	QA/8040/34	QA/8040/27	QA/8040/41		
50	QA/8050/22	QA/8050/21	QA/8050/23	QA/8050/42	QA/8050/34	QA/8050/27	QA/8040/41		
63	QA/8063/22	QA/8063/21	QA/8063/23	QA/8063/42	QA/8063/34	QA/8063/27	QA/8063/41		
80	QA/8080/22	QA/8080/21	QA/8080/23	QA/8080/42	QA/8080/34	QA/8080/27	QA/8063/41		
100	QA/8100/22	QA/8100/21	QA/8100/23	QA/8100/42	QA/8100/34	QA/8100/27	QA/8100/41		
125	QM/8125/22	QM/8125/21	QM/8125/23	QA/8125/42	QA/8125/34	QM/8125/27	QA/8100/41		
Ø	**SS**	**SW**	**UH**	**UR**	**US**	**Guide block**	**Guide block**	**Guide block**	**Guide block**
									
20	–	–	–	–	–	–	–	–	–
25	–	–	–	–	–	–	–	–	–
32	M/P19931	M/P19493	PQA/182032/40	QA/8032/33	M/P40310	QA/8032/*/51	QA/8032/*/61	QA/8032/*/81	QA/8032/*/85
40	M/P19932	M/P19494	PQA/182040/40	QA/8040/33	M/P40311	QA/8040/*/51	QA/8040/*/61	QA/8040/*/81	QA/8040/*/85
50	M/P19933	M/P19495	PQA/182050/40	QA/8050/33	M/P40312	QA/8050/*/51	QA/8050/*/61	QA/8050/*/81	QA/8050/*/85
63	M/P19934	M/P19496	PQA/182063/40	QA/8063/33	M/P40313	QA/8063/*/51	QA/8063/*/61	QA/8063/*/81	QA/8063/*/85
80	M/P19935	M/P19497	PQA/182080/40	QA/8080/33	M/P40314	QA/8080/*/51	QA/8080/*/61	QA/8080/*/81	QA/8080/*/85
100	M/P19936	M/P19498	PQA/182100/40	QA/8100/33	M/P40315	QA/8100/*/51	QA/8100/*/61	QA/8100/*/81	QA/8100/*/85
125	M/P19937	M/P19499	PQA/182125/40	QM/8125/33	M/P71355	–	–	–	–

			For cylinders with male piston rod threads (/M)				For cylinders with female piston rod threads (/MX)		
Ø	**A**	**Groove key**	**AK**	**F**	**N2**	**UF**	**F**	**N**	**Adapter**
									
20	–	M/P72816	QM/8025/38	QM/8025/25	M/P1501/89	QM/8025/32	QM/57016/25	M/P1501/79	M/P1710/21
25	–	M/P72816	QM/8025/38	QM/8025/25	M/P1501/89	QM/8025/32	QM/57016/25	M/P1501/79	M/P1710/21
32	QM/8032/35	M/P72816	QM/8025/38	QM/8025/25	M/P1501/89	QM/8025/32	QM/57020/25	M/P1501/60	M/P1710/22
40	QM/8032/35	M/P72816	QM/8040/38	QM/8040/25	M/P1501/90	QM/8040/32	QM/57020/25	M/P1501/60	M/P1710/22
50	QM/8050/35	M/P72816	QM/8050/38	QM/8050/25	M/P1501/91	QM/8050/32	QM/57025/25	–	M/P71470/1
63	QM/8050/35	M/P72816	QM/8050/38	QM/8050/25	M/P1501/91	QM/8050/32	QM/57040/25	–	M/P71470/2
80	QM/8080/35	M/P72816	QM/8080/38	QM/8080/25	M/P1501/92	QM/8080/32	QM/57063/25	–	M/P71470/3
100	QM/8080/35	M/P72816	QM/8080/38	QM/8080/25	M/P1501/92	QM/8080/32	QM/57063/25	–	M/P71470/3
125	QM/8125/35	M/P72816	QM/8125/38	QM/8125/25	M/P1501/105	QM/8125/32	–	–	–

Please see page 76 for details of mountings.

For use with switches M/50 see page 198.

VDMA Compact cylinders

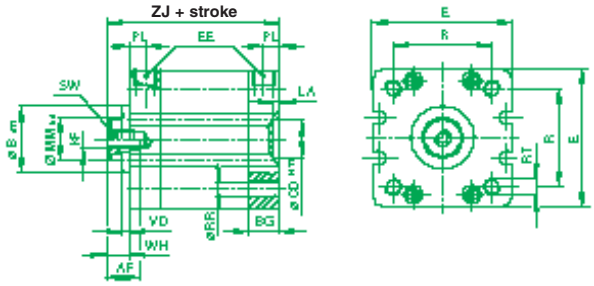
RM/192000/MX, .../M

Double acting

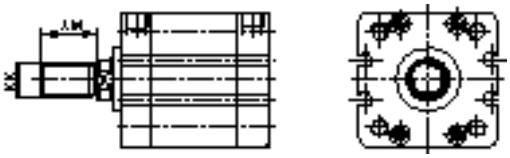
Ø 20 to 125 mm

Standard cylinders

RM/192000/MX – with female piston rod thread



RM/192000/M – with male piston rod thread

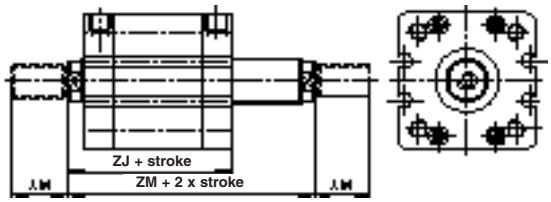


Ø	AF	AM	Ø B d11	BG	Ø CD H11	❑ E	EE	KF	KK	LA	Ø MM h 9
20	10	22	–	12	12	36	M5	M6	M10 x 1,25	2,5	10
25	10	22	–	13	12	40	M5	M6	M10 x 1,25	2,5	10
32	12	22	–	14,5	14	47	G 1/8	M 8	M10 x 1,25	2,5	12
40	12	24	–	14,5	14	53	G 1/8	M 8	M12 x 1,25	2,5	16
50	14	32	–	14,5	18	65,5	G 1/8	M 10	M16 x 1,5	2,5	20
63	16	32	–	14,5	18	75	G 1/8	M 12	M16 x 1,5	2,5	20
80	22	40	–	16,5	23	95	G 1/8	M 16	M20 x 1,5	3	25
100	22	40	–	21,5	28	116	G 1/4	M 16	M20 x 1,5	3	25
125	30	54	60	20,5	28	140	G 1/4	M 20	M27 x 2	3	32

Ø	PL	❑ R	Ø RR	RT	SW	VD	WH	ZJ	kg at 0 mm	kg per 5 mm
20	7,5	22	4,3	M5	8	–	6	43	0,12	0,01
25	7,5	26	4,3	M5	8	–	6	45	0,15	0,01
32	7,5	32,5	5,3	M 6	10	–	7	51	0,23	0,02
40	7,5	38	5,3	M 6	13	–	7	52	0,30	0,02
50	7,5	46,5	6,8	M 8	17	–	8	53	0,46	0,03
63	7,5	56,5	6,8	M 8	17	–	8	58	0,70	0,03
80	8,5	72	8,6	M 10	22	–	10	65	1,23	0,04
100	10,5	89	8,6	M 10	22	–	10	77	2,20	0,05
125	10,5	110	10,6	M 12	27	4	18	89	3,60	0,07

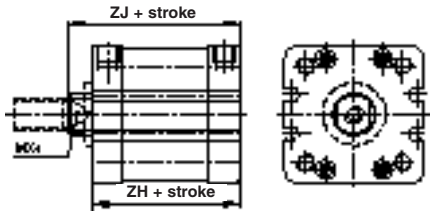
Cylinder variants

Cylinder with double ended piston rod
RM/192000/JMX – with female piston rod thread
RM/192000/JM – with male piston rod thread



Ø	AM	ZJ	ZM
20	22	43	49
25	22	45	51
32	22	51	58
40	24	52	59
50	32	53	61
63	32	58	66
80	40	65	75
100	40	77	87
125	54	89	107

Cylinder with non-rotating piston rod
RM/192000/N2X – with female piston rod thread
RM/192000/N2 – with male piston rod thread



Ø	MX1	ZH	ZJ	Torque max. (Nm)
20	8	47	53	0,15
25	8	49	55	0,25
32	10	54	61	0,40
40	13	55	62	0,40
50	16	55	63	1,50
63	16	60	68	1,50
80	21	65	75	2,50
100	21	77	87	2,50

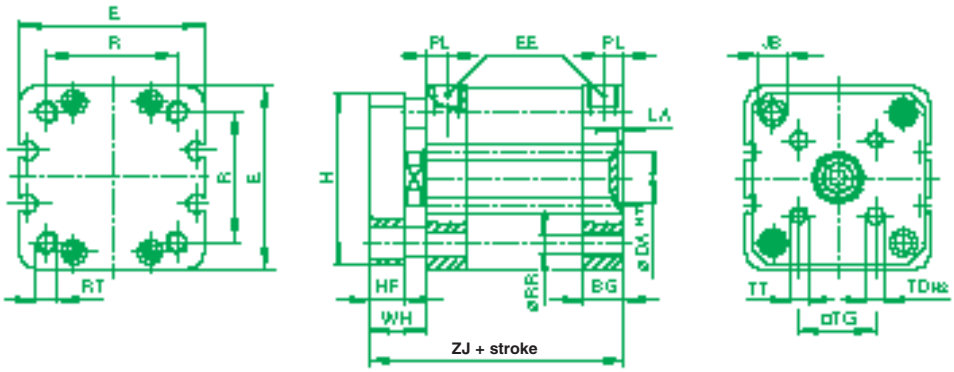
VDMA Compact cylinders

RM/192000/MX, .../M

Double acting

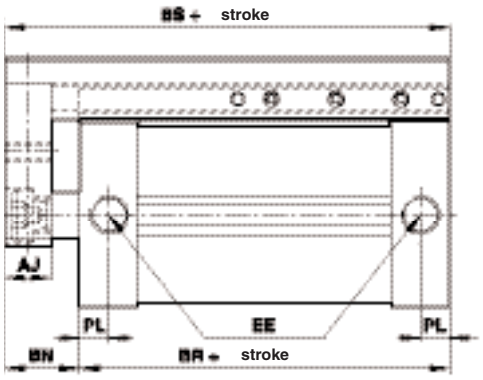
Ø 20 to 125 mm

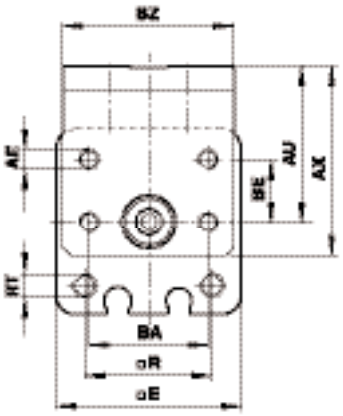
RM/192000/N4 – Cylinder with guided piston rod

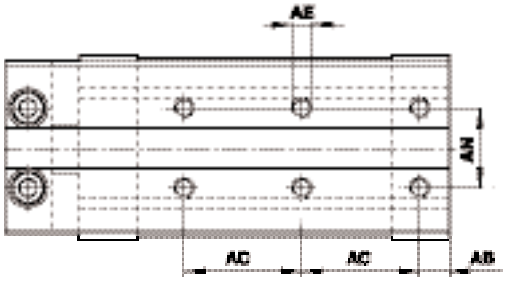


Ø	BG	Ø DA H11	❑ E	EE	❑ H	HF	Ø JB	LA	PL	R	Ø RR	RT	Ø TD H8	❑ TG	TT	WH	ZJ
20	12	12	36	M5	34	8	7,5	2,5	7,5	22	4,3	M5	4	12	M4	14	51
25	13	12	40	M5	38	8	7,5	2,5	7,5	26	4,3	M5	5	15,6	M5	14	53
32	14,5	14	47	G1/8	45	10	9	2,5	7,5	32,5	5,3	M6	5	19,8	M5	17	61
40	14,5	14	53	G1/8	51	10	9	2,5	7,5	38	5,3	M6	5	23,3	M5	17	62
50	14,5	18	65,5	G1/8	62,5	12	11	2,5	7,5	46,5	6,8	M8	6	29,7	M6	20	65
63	14,5	18	75	G1/8	72	12	11	2,5	7,5	56,5	6,8	M8	6	35,4	M6	20	70
80	16,5	23	95	G1/8	92	15	15	3	8,5	72	8,6	M10	8	46	M8	25	80
100	21,5	28	116	G1/4	112	15	15	3	10,5	89	8,6	M10	10	56,5	M10	25	92

RM/192000/N6 - (cylinder with external guiding)
Ø 25 and 32 mm







Ø	AB	AC	AE	AJ	AN	AU	AX	BA	BE	BN	BR	BS	BZ	E	EF	R	RT	PL
25	7,5	30	M5	12	20	37,5	44	30	16	19	39	57	43,5	40	M5	26	M5	7,5
32	7,5	30	M5	12	20	40,5	48,5	30	16	19	44	63	43,5	47	G⅛	32,5	M6	7,5