



Roundline cylinders (ISO)

RM/28000/M

Single acting, ISO 6432

Ø 12 ... 25 mm

ref:
8 01



Magnetic piston as standard

Generally conforms to ISO 6432

High strength, double crimped end cap design

Corrosion resistant

Nose mounting nut and piston rod locknut as standard

Optional port arrangement for compact installation

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

Single acting (sprung in), magnetic piston, buffer cushioning

Operating pressure:

2 to 10 bar

Operating temperature:

-10°C to +80°C max.

Standard models

Ø	Piston rod Ø	Port size	Model magnetic
12	6	M5	RM/28012/M/*
16	6	M5	RM/28016/M/*
20	8	G1/8	RM/28020/M/*
25	10	G1/8	RM/28025/M/*

* Insert stroke length in mm

Ø	Theoretical forces (N) at 6 bar	
	Outstroke	Instroke F1 (spring force)
12	57,7	4,80
16	102	10,50
20	165	16,10
25	260	21,60

Standard strokes

Ø	10	25	50
12	●	●	
16	●	●	
20		●	●
25	●	●	●

Switches

With integral cable



With plug-in cable



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

*Insert cable length – 2, 5 or 10 m..



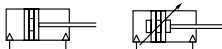
Roundline cylinders (ISO)

RM/8000/M

Double acting, ISO 6432

Ø 12 ... 25 mm

ref:
10 01



Magnetic piston as standard

Conforms to ISO 6432

High strength, double crimped end cap design

Corrosion resistant

Buffer or adjustable cushioning

Nose mounting nut and piston rod locknut as standard

Optional port arrangement for compact installation

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

Double acting, magnetic piston with buffer or adjustable cushioning

Operating pressure:

1 to 10 bar

Operating temperature:

-10°C to +80°C max.

Standard models

Ø	Piston rod Ø	Port size	Models magnetic
12	6	M5	RM/8012/M/*
16	6	M5	RM/8016/M/*
20	8	G1/8	RM/8020/M/*
25	10	G1/8	RM/8025/M/*

* Insert stroke length in mm. .

Standard strokes

(buffer cushioning)

Ø	25	50	80	100
12	●	●	●	
16	●	●	●	●
20	●	●	●	●
25	●	●	●	●

Switches

With integral cable



With plug-in cable



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

*Insert cable length – 2, 5 or 10 m..



Roundline cylinders (ISO)



RM/8000/M





Double acting, ISO 6432

Ø 10 ... 25 mm

Mountings

	C	F
		
12	M/P19389	QM/8012/25
16	M/P19389	QM/8012/25
20	M/P19406	QM/8020/25
25	M/P19406	QM/8025/25

	L	L2
		
12	QM/8012/24	
16	QM/8012/24	
20	QM/8020/24	QM/8020/44
25	QM/8020/24	QM/8020/44

	N	UF	Switch mounting brackets # ≥ 15 mm stroke	Switch mounting brackets # < 15 mm stroke
				
12	M/P13834	QM/8012/32	QM/33/012/22	QM/33/010/23
16	M/P13834	QM/8012/32	QM/33/016/22	QM/33/016/23
20	M/P13615	QM/8020/32	QM/33/020/22	QM/33/020/23
25	M/P13615	QM/8025/32	QM/33/025/22	QM/33/025/23

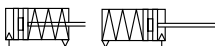
For use with switches M/50



Roundline cylinders

RT/57100/M, RT/57300/M

Single acting



ref:
18 01

One fifth shorter than the basic length of a corresponding ISO/VDMA cylinder

Low friction, long life seals

High strength, double crimped end cap design

Standard magnetic piston for full control system versatility

Non-lube operation

Choice of porting option for compact installation

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

RT/57100/M Single acting, sprung in
RT/57300/M Single acting, sprung out

Operating pressure:

2 to 10 bar

Operating temperature:

-5°C to +80°C max.

Standard models

Ø	Piston rod Ø	Port size	Side port, integral eye mounting		Central rear port	
			Sprung in	Sprung out	Sprung in	Sprung out
10	4	M 5	RT/57110/M/*	RT/57310/M/*	RT/57110/MC/*	RT/57310/MC/*
12	4	M 5	RT/57112/M/*	RT/57312/M/*	RT/57112/MC/*	RT/57312/MC/*
16	6	M 5	RT/57116/M/*	RT/57316/M/*	RT/57116/MC/*	RT/57316/MC/*
20	8	Rc 1/8	RT/57120/M/*	RT/57320/M/*	RT/57120/MC/*	RT/57320/MC/*
25	10	Rc 1/8	RT/57125/M/*	RT/57325/M/*	RT/57125/MC/*	RT/57325/MC/*
32	12	Rc 1/8	RT/57132/M/*	RT/57332/M/*	RT/57132/MC/*	RT/57332/MC/*

*Insert stroke length in mm.

Ø	RT/57100 Theoretical forces (N) at 6 bar		RT/57300 Theoretical forces (N) at 6 bar	
	Outstroke	F1	Instroke	F1
10	38,2	4,6	30,8	4,6
12	56,2	6,1	48,4	6,1
16	101	10,5	84,5	10,5
20	161	14,5	131	14,5
25	264	20	217	20
32	432	32	364	32

F1 = Return force of spring (N).

Standard strokes

RT/57116/MC/25	RT/57310/M/25
RT/57125/MC/25	RT/57316/M/10
RT/57132/MC/25	RT/57316/M/25
	RT/57320/M/50
RT/57120/M/25	RT/57325/M/25
RT/57132/M/50	RT/57325/M/50
	RT/57320/MC/50
RT/57320/MC/25	



Roundline cylinders

RT/57200/M

Double acting



ref:
20 01

One fifth shorter than the basic length of a corresponding ISO cylinder

Low friction, long life seals

High strength, double crimped end cap design

Standard magnetic piston for full control system versatility

Non-lube operation

Choice of porting option for compact installation

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

Double acting, buffer cushioning

Operating pressure:

1 to 10 bar

Operating temperature:

-5°C to +80°C.

Standard models

Ø	Piston rod Ø	Port size	Side port, integral eye mounting	Central rear port flat end
10	4	M 5	RT/57210/M/*	
12	4	M 5	RT/57212/M/*	
16	6	M 5	RT/57216/M/*	RT/57216/MC/25
20	8	Rc 1/8	RT/57220/M/*	
25	10	Rc 1/8	RT/57225/M/*	RT/57225/MC/50
32	12	Rc 1/8	RT/57232/M/*	
40	14	Rc 1/8	RT/57240/M/*	
50	16	Rc 1/4	RT/57250/M/*	
63	20	Rc 1/4	RT/57263/M/*	

* Insert stroke length in mm

Standard strokes




Ø	10	25	50	80	100
10	●	●			
12		●			
16			●	●	
20	●	●	●	●	●
25		●	●	●	●
32		●	●	●	●
40		●	●	●	●
50			●	●	●
63				●	●





Roundline cylinders

RT/57200/M

Double acting

Mountings

Ø	C	F	L
			
10	M/P71273/2	QM/8010/25	QM/947
12	M/P71273/2	QM/8010/25	QM/947
16	M/P19369	QM/57016/25	QM/946
20	M/P19389	QM/57020/25	QM/8012/24
25	M/P40381	QM/57025/25	QM/57025/24
32	M/P19406	QM/57032/25	QM/8020/24
40	M/P71273/3	QM/57040/25	QM/57040/24
50	QM/57050/21	QM/13040/25	QM/57050/24
63	QM/57063/21	QM/57063/25	QM/57063/24

Ø	N	UF	Piston rod lock nut	Switch mounting brackets
				
10	M/P71364	QM/8010/32	M/P1501/80	QM/33/010/22
12	M/P71364	QM/8010/32	M/P1501/80	QM/33/012/22
16	M/P1501/90	QM/8012/32	M/P1501/79	QM/33/016/22
20	M/P13834	QM/8020/32	M/P1501/60	QM/33/020/22
25	M/P13607	QM/8025/32	M/P1501/89	QM/33/025/22
32	M/P13615	QM/8025/32	M/P1501/89	QM/33/032/22
40	M/P29254	QM/8040/32	M/P1501/90	QM/33/040/22
50	–	QM/8040/32	M/P1501/90	QM/33/050/22
63	–	QM/8050/32	M/P1501/91	QM/33/063/22

Switches

With integral cable



With plug-in cable



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

*Insert cable length – 2, 5 or 10 m..



VDMA Compact cylinders

RM/191000/MX,.../M; RM/193000/MX,.../M

Single acting

ref:
30 01



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

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

See Options selector

Operating pressure:

2 to 10 bar

Operating temperature:

-5°C to +80°C

Standard models

Ø	Piston rod Ø	Port size	Male thread Sprung in
25	10	M5	RM/191025/M*
32	12	G1/8	RM/191032/M*
50	20	G1/8	RM/191050/M*

Ø	RM/191000/M Theoretical forces (N) at 6 bar		RM/193000/M Theoretical forces (N) at 6 bar	
	Outstroke	F1	Instroke	F1
25	264	20	197	20
32	432	32	311	32
50	1043	56,5	906	56,5

Standard strokes

(mm)	5	10	25
25	●	●	
32		●	●
50		●	●

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)
Solid state	M/50/EAP/*V	M/50/EAP/CP	M/P73001/5 (5 m)

*Insert cable length – 2, 5 or 10 m..



VDMA Compact cylinders

RM/192000/MX, .../M

Double acting

ref:
34 01



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

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:

-5°C to +80°C max.

Standard models

Ø	Piston rod Ø	Port size	Type Female thread	Male thread
25	10	M5	RM/192025/MX/50	RM/192025/M/*
32	12	G1/8		RM/192032/M/*
40	16	G1/8	RM/192040/MX/50	RM/192040/M/*
50	20	G1/8		RM/192050/M/*
63	20	G1/8		RM/192063/M/*
80	25	G1/8		RM/192080/M/*

*Insert stroke length in mm

Standard strokes





Ø	(mm)			
	10	20	25	50
25			●	
32	●	●	●	●
40	●	●	●	●
50	●	●	●	●
63				●
80			●	●

VDMA Compact cylinders




RM/192000/MX, .../M

Double acting

Mountings

	B, G	C	D	R
				
32	QA/8032/22	QA/8032/21	QA/8032/23	QA/8032/27
40	QA/8040/22	QA/8040/21	QA/8040/23	QA/8040/27
50	QA/8050/22	QA/8050/21	QA/8050/23	QA/8050/27
63	QA/8063/22	QA/8063/21	QA/8063/23	QA/8063/27
80	QA/8080/22	QA/8080/21	QA/8080/23	QA/8080/27

For cylinders with male piston rod threads (/M)

	AK	F	UF
			
25	QM/8025/38	QM/8025/25	QM/8025/32
32	QM/8025/38	QM/8025/25	QM/8025/32
40	QM/8040/38	QM/8040/25	QM/8040/32
50	QM/8050/38	QM/8050/25	QM/8050/32
63	QM/8050/38	QM/8050/25	QM/8050/32
80	QM/8080/38	QM/8080/25	QM/8080/32

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/K72725
Solid state	M/50/EAP/*V	M/50/EAP/CP	M/P73001/5 (5 m)	

*Insert cable length – 2, 5 or 10 m..



ISO/VDMA Profile cylinders

PRA/182000, PRA/182000/M

Double acting

ref:
50 01



Conforms to ISO 6431, VDMA 24562 and NFE 49-003-1

Profile barrel with concealed tie rods

High performance, stability and reliability

Polyurethane seals ensure efficient low friction operation and long life

Switches can be mounted flush with the profile barrel

Comprehensive range of standard mountings

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

PRA/182000: Adjustable cushioning
PRA/182000/M: Magnetic piston, adjustable cushioning

Operating pressure:

1 to 16 bar

Operating temperature:

-20°C to +80°C max.

Standard models

Ø	Piston rod Ø	Port size	Magnetic Standard	Non-magnetic Standard	Service kit Standard
32	12	G1/8	PRA/182032/M/*	PRA/182032/*	QA/8032/00
40	16	G1/4	PRA/182040/M/*	PRA/182040/*	QA/8040/00
50	20	G1/4	PRA/182050/M/*	PRA/182050/*	QA/8050/00
63	20	G3/8	PRA/182063/M/*	PRA/182063/*	QA/8063/00
80	25	G3/8	PRA/182080/M/*	PRA/182080/*	QA/8080/00
100	25	G1/2	PRA/182100/M/*	PRA/182100/*	QA/8100/00

*Insert stroke length in mm.

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/K72725
Solid state	M/50/EAP/*V	M/50/EAP/CP	M/P73001/5 (5 m)	

*Insert cable length – 2, 5 or 10 m.

ISO/VDMA Profile cylinders

PRA/182000, PRA/182000/M

Double acting





Standard strokes



Cylinder Ø	Strokes (mm)								
	25	50	80	100	125	160	200	250	320
32	●	●	●	●	●	●	●	●	●
40	●	●	●	●	●	●	●	●	●
50	●	●	●	●	●	●	●	●	●
63	●	●	●	●	●	●	●	●	●
80	●	●	●	●	●	●	●	●	●
100	●	●	●	●	●	●	●	●	●

Theoretical forces

Theoretical forces (N) at 6 bar		
Cylinder Ø	Outstroke	Instroke
32	482	414
40	754	633
50	1178	990
63	1870	1680
80	3016	2722
100	4710	4416

Mountings

Ø	B, G	C	D	F
				
32	QA/8032/22	QA/8032/21	QA/8032/23	QM/8025/25
40	QA/8040/22	QA/8040/21	QA/8040/23	QM/8040/25
50	QA/8050/22	QA/8050/21	QA/8050/23	QM/8050/25
63	QA/8063/22	QA/8063/21	QA/8063/23	QM/8050/25
80	QA/8080/22	QA/8080/21	QA/8080/23	QM/8080/25
100	QA/8100/22	QA/8100/21	QA/8100/23	QM/8080/25

Ø	R	UF
		
32	QA/8032/27	QM/8025/32
40	QA/8040/27	QM/8040/32
50	QA/8050/27	QM/8050/32
63	QA/8063/27	QM/8050/32
80	QA/8080/27	QM/8080/32
100	QA/8100/27	QM/8080/32