UNIVER®

RM-RS Ø 80 - 100

Compact cylinders ISO 21287

- Further development Ø 80-100 mm
- Pneumatic cushioning standard
- Magnetic version standard
- Standard version according to ISO 21287
- STRONG version (interaxes, centering diameters and rods according to ISO 15552)

NEW

RM-RS Ø 80 - 100

Compact cylinders according to ISO 21287 (RM Series)
STRONG version oversized guides and piston rod (RS series)

- Cylinders with compact overall dimensions Ø 80 - 100 mm
- According to ISO 21287 (RM)
- Adjustable pneumatic cushioning
- Single and double acting, through rod,

This product, the first one realized with adjustable pneumatic cushioning without changement of dimensions in comparison with an equivalent cylinder without cushioning, allows a considerably higher speed and reduces noise level.
STRONG series RS, oversize guides and rods for long strokes and heavy duty application.

TECHNICAL CHARACTERISTICS

Ambient temperature	-20 ÷ 80°C
Fluid	compressed air, lubricated or not lubricated
Working pressure	1,5 ÷10 bar
Bore	Ø 80 - 100 mm
Cushion	adjustable pneumatic cushioning in boths sides

CONSTRUCTIVE CHARACTERISTICS

End caps	aluminium
Barrel	extruded aluminium anodized
Piston	aluminium
Piston guide	acetal resin
Piston rod	stainless steel
Piston seal	nitril rubber
Piston rod guide	acetal resin
Rubber cushion	nitril rubber
Magnet	plastoferrite magnetic ring

CODIFICATION KEY

R	M	2	0	1	0	3	2	0	0	2	5	-
1		2	3		4			5				6

1 Series

RM = Compact cylinder ISO 21287
RS = Compact cylinder STRONG

2 Type

1 = Female piston rod stainless steel
2 = Female piston rod chromium-plated
3 = Male piston rod stainless steel
4 = Male piston rod chromium-plated

3 Version

00 = **D.E.** Standard
01 = **D.E.** Through rod
60 = **S.E.** Retracted rod
70 = **S.E.** Extended rod

4 Bore

080 = Ø80
100 = Ø100

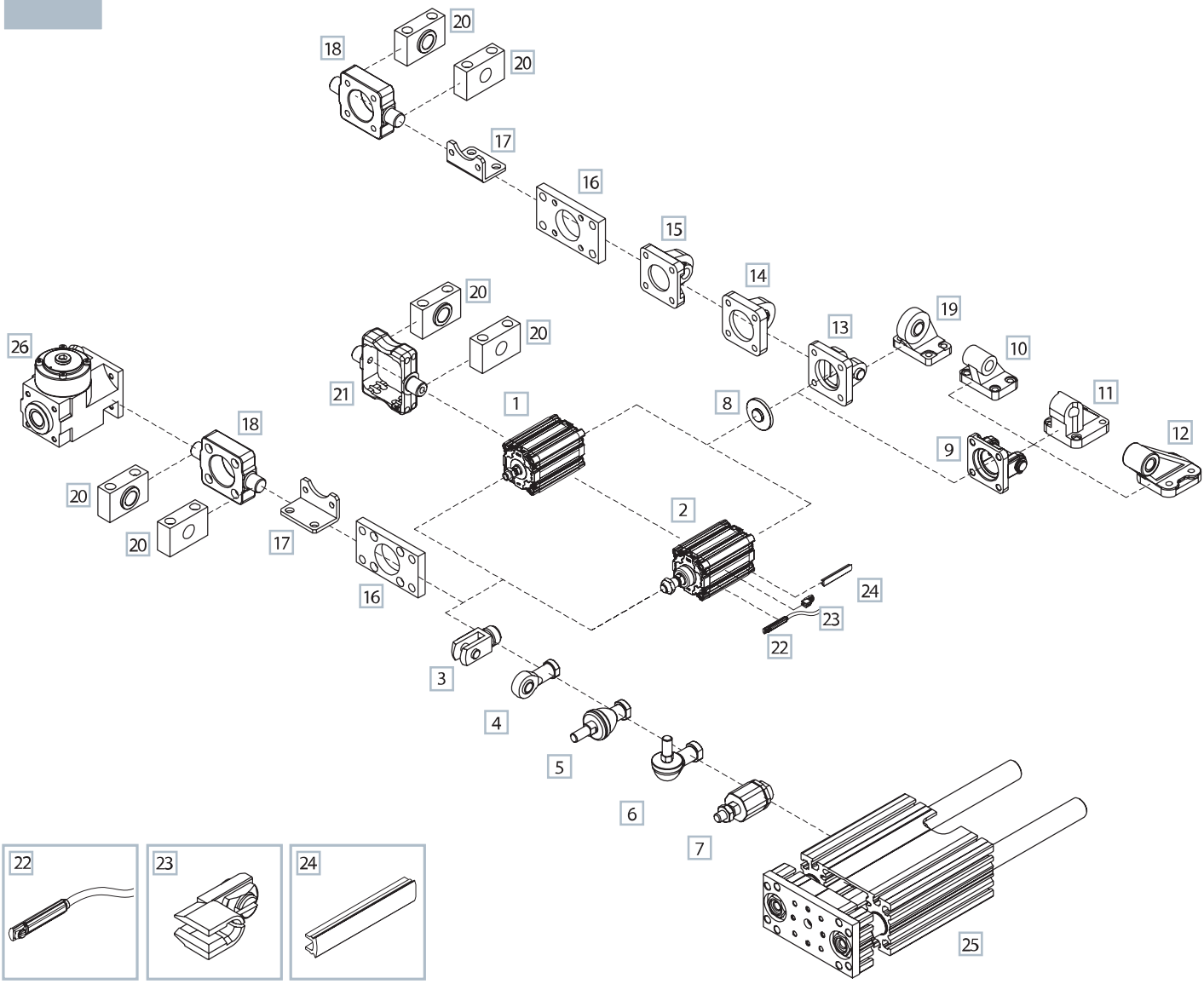
5 Stroke (mm)

Simple acting
0005 - 0010 - 0015 - 0020 - 0025
Double acting
0005 - 0010 - 0015 - 0020 - 0025 - 0030 - 0040 - 0050 - 0060 - 0080

6 Option

H = Hollow rod only for versions with through, without flange

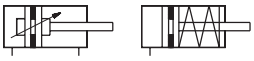
D.E. = Double acting **S.E.** = Simple acting

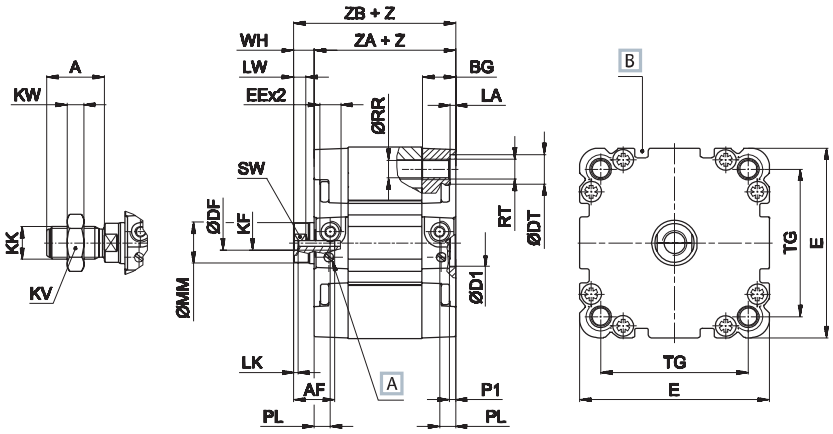


	DESCRIPTION	NOTES	PART NO.
1	Compact cylinder RM series	-	-
2	Compact cylinder RS series	-	-
3	Female fork with clips	zinc plated steel	KF-15080
4	Articulated self-lubricating fork	zinc plated steel	KF-17080
5	Fork with axially mounted articuled pin	zinc plated steel	KF-22080
6	Fork with angle-mounted articuled pin	zinc plated steel	KF-23080
7	Floating joint M12x1,25	zinc plated steel	KF-24080
8	Adaptor ring UNITOP/ISO	aluminium	RS-09080/RS-09100
9	Female rear hinge with pin	aluminium (stainless steel upon request)	KF-10080A/KF-10100A
10	Counter hinge 90° (CETOP)	aluminium (stainless steel upon request)	KF-19080CTA/KF-19100CTA
11	Counter hinge a 90°	aluminium (stainless steel upon request)	KF-19080/KF-19100
12	Counter hinge 90° (CNOMO)	aluminium (stainless steel upon request)	KF-19080CN/KF-19100CN
13	Narrow female hinge with clips	aluminium (stainless steel upon request)	KF-10080AS/KF10100AS
14	Male rear hinge (MP4)	aluminium (stainless steel upon request)	KF-11080/KF-11100
15	Narrow male articuled hige	aluminium (stainless steel upon request)	KF-11080S/KF-11100S
16	Front (MP1) rear (MP2) flange	zinc plated steel	KF-12080/KF-12100
17	Bracket (MS1)	zinc plated steel	KF-13080/KF-13100
18	Front- rear hinge	zinc plated steel	KF-14080AP/KF-14100AP
19	Articuled counter-hinge 90° DIN	zinc plated steel	KF-19080SC/KF-19100SC
20	Support for intermediate hinge	zinc plated steel	KF-41080/KF-41100
21	Intermediate hinge	zinc plated steel	KDF-14080/KDF-14100
22	Magnetic sensor	-	DF-
23	Cable clamping	polycarbonate	DF-001
24	Strip cover	NBR	DF-0020100
25	Slide units J series	-	J- (only RS)
26	Locking units L1-N series	-	L1-N08025/L1-N10025 (only RS)

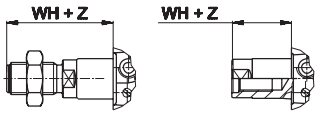
RM

> Double acting/simple acting retracted piston





> Extended piston rod

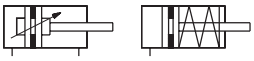


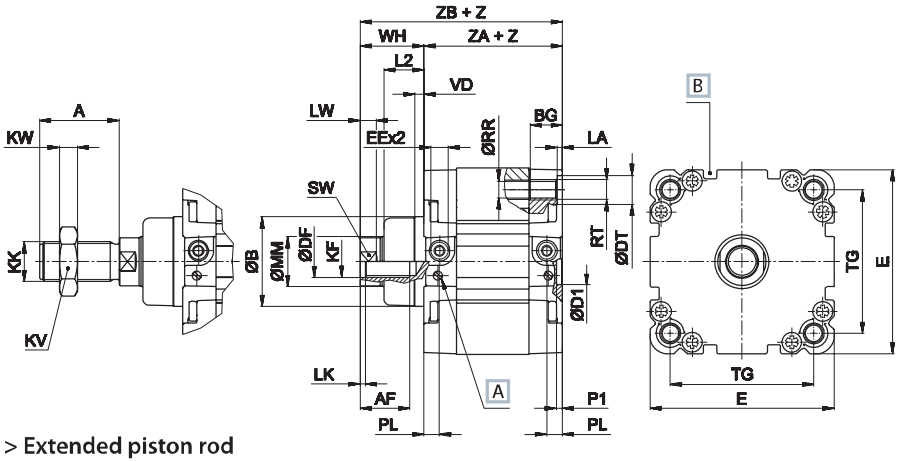
Ø	A	AF	BG	DF	DT	D1	E	EE	KF	KK	KV	KW
						H11						
80	28	20	16,5	12,2	14	23	93,5	G1/8	M12	M16x1,5	24	10
100	28	20	21,5	12,2	14	28	112	G1/8	M12	M16x1,5	24	10

Ø	LA	LK	LW	MM	PL	P1	RR	RT	SW	TG	WH	ZA	ZB
80	2,6	2	6	20	8	3	8,4	M10	17	72	10	54	64
100	2,6	2	6	20	10,5	3	8,4	M10	17	89	10	67	77

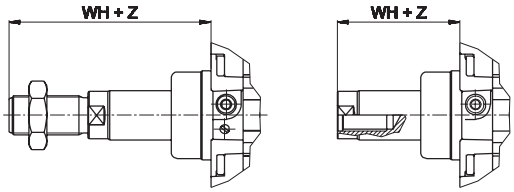
RS

> Double acting/simple acting retracted piston





> Extended piston rod



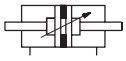
Ø	A	AF	B	BG	DF	DT	D1	E	EE	KF	KK	KV	KW	LA
							H11							
80	40	25	45	16,5	16,2	14	23	93,5	G1/8	M16	M20x1,5	30	9	2,6
100	40	25	55	21,5	16,2	14	28	112	G1/8	M16	M20x1,5	30	9	2,6

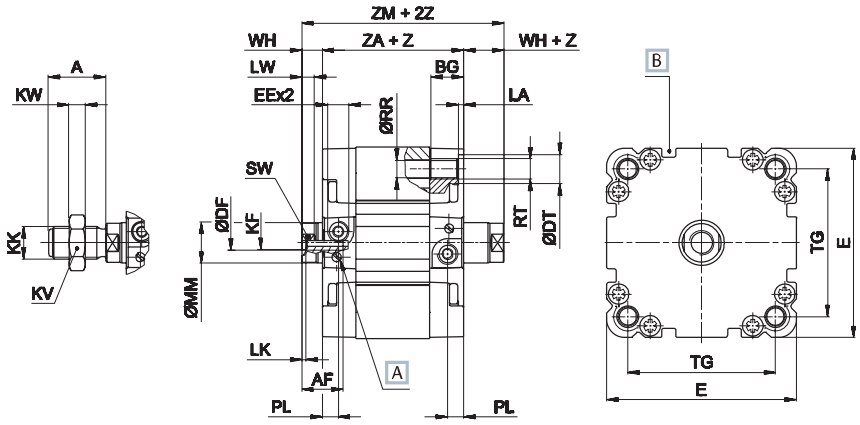
Ø	LK	LW	L2	MM	PL	P1	RR	RT	SW	TG	VD	WH	ZA	ZB
80	2,5	8	20	25	8	3	8,4	M10	22	72	4	32	54	86
100	2,5	8	20	25	10,5	3	8,4	M10	22	89	4	32	67	99

A Adjusting screw pneumatic cushioning
B Mounting sensor

Z = stroke

RM

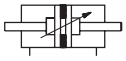


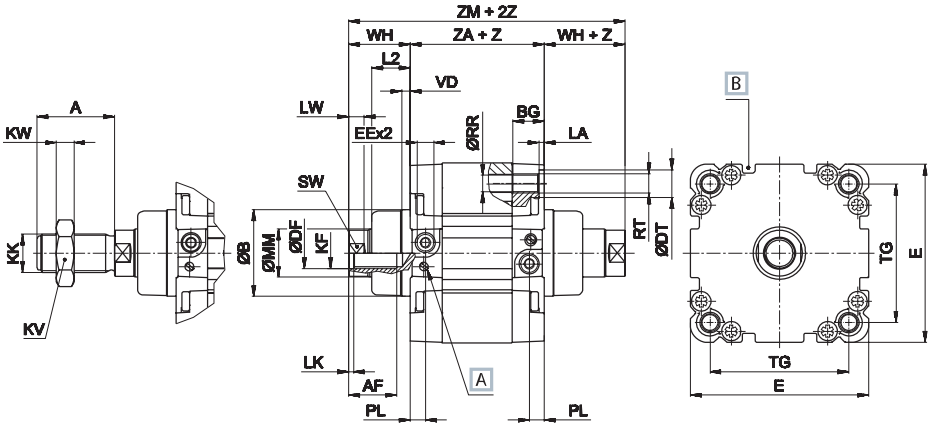


Ø	A	AF	BG	DF	DT	E	EE	KF	KK	KV	KW
80	28	20	16,5	12,2	14	93,5	G1/8	M12	M16x1,5	24	10
100	28	20	21,5	12,2	14	112	G1/8	M12	M16x1,5	24	10

Ø	LA	LK	LW	MM	PL	RR	RT	SW	TG	WH	ZA	ZM
80	2,6	2	6	20	8	8,4	M10	17	72	10	54	74
100	2,6	2	6	20	10,5	8,4	M10	17	89	10	67	87

RS



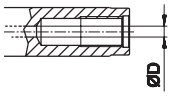


Ø	A	AF	B	BG	DF	DT	D1	E	EE	KF	KK	KV	KW	LA
							H11							
80	40	25	45	16,5	16,2	14	23	93,5	G1/8	M16	M20x1,5	30	9	2,6
100	40	25	45	21,5	16,2	14	28	112	G1/8	M16	M20x1,5	30	9	2,6

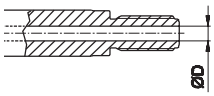
Ø	LK	LW	L2	MM	PL	P1	RR	RT	SW	TG	VD	WH	ZA	ZM
80	2,5	8	20	25	8	3	8,4	M10	22	72	4	32	54	118
100	2,5	8	20	25	10,5	3	8,4	M10	22	89	4	32	67	131

> Hollow through piston rod

- Female



- Male



Ø	D
80	6
100	8

A Adjusting screw pneumatic cushioning
B Mounting sensor

Z = stroke