



RM-RS \varnothing 80 - 100

Compact cylinders ISO 21287

- └ Further development \varnothing 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)

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 change 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 both sides

CONSTRUCTIVE CHARACTERISTICS

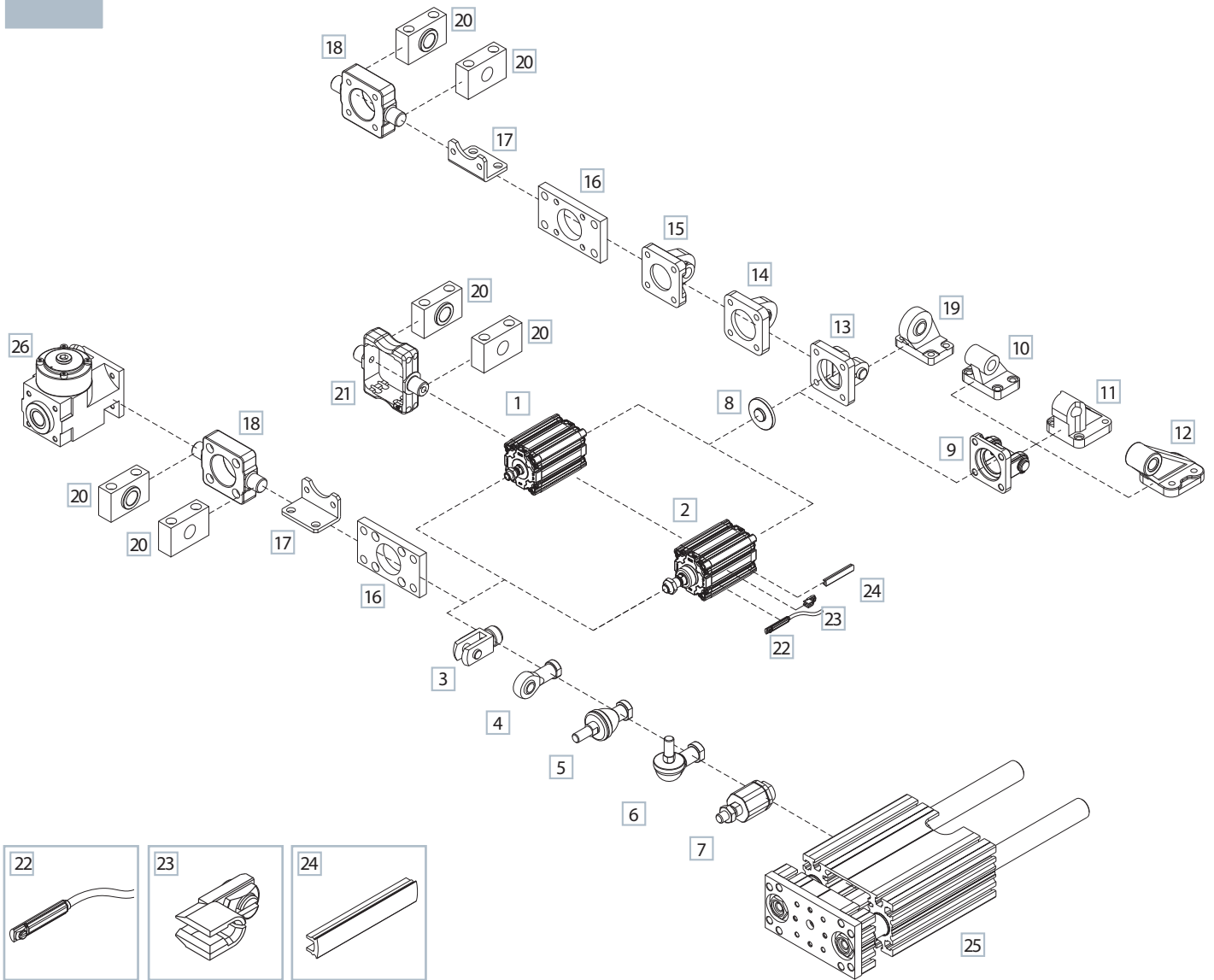
End caps	aluminium
Barrel	extruded aluminium anodized
Piston	aluminium
Piston guide	acetal resin
Piston rod	stainless steel
Piston seal	nitril rubber
Piston rod guide	acetal resin
Rubber cushion	nitril rubber
Magnet	plastroferrite magnetic ring

CODIFICATION KEY

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

1 Series	2 Type	3 Version
RM = Compact cylinder ISO 21287 RS = Compact cylinder STRONG	1 = Female piston rod stainless steel 2 = Female piston rod chromium-plated 3 = Male piston rod stainless steel 4 = Male piston rod chromium-plated	00 = D.E. Standard 01 = D.E. Through rod 60 = S.E. Retracted rod 70 = S.E. Extended rod
4 Bore	5 Stroke (mm)	6 Option
080 = Ø80 100 = Ø100	Simple acting 0005 - 0010 - 0015 - 0020 - 0025 Double acting 0005 - 0010 - 0015 - 0020 - 0025 - 0030 - 0040 - 0050 - 0060 - 0080	H = Hollow rod only for versions with through, without flange

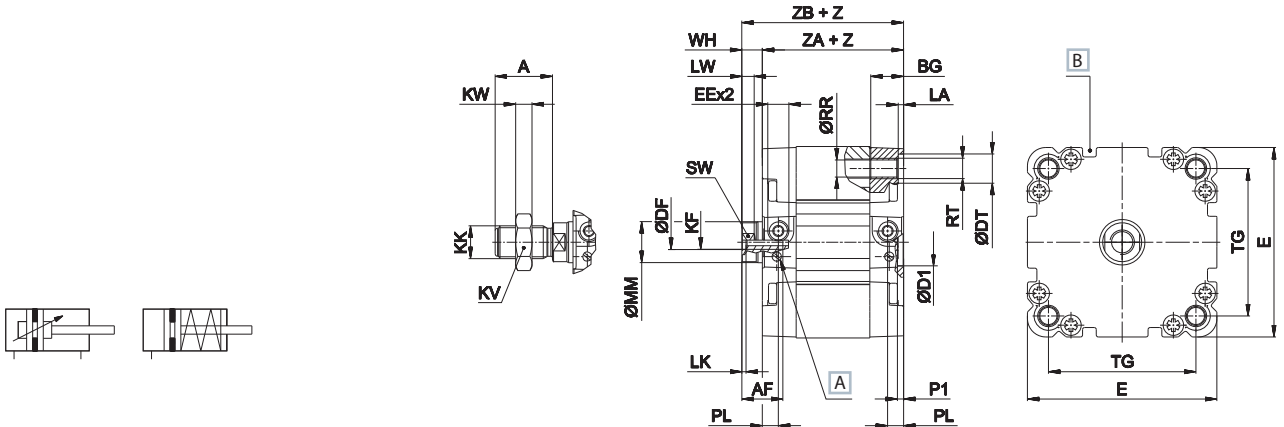
D.E. = Double acting **S.E.** = Simple acting



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 articulated pin	zinc plated steel	KF-22080
6 Fork with angle-mounted articulated 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 articulated hinge	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 Articulated 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



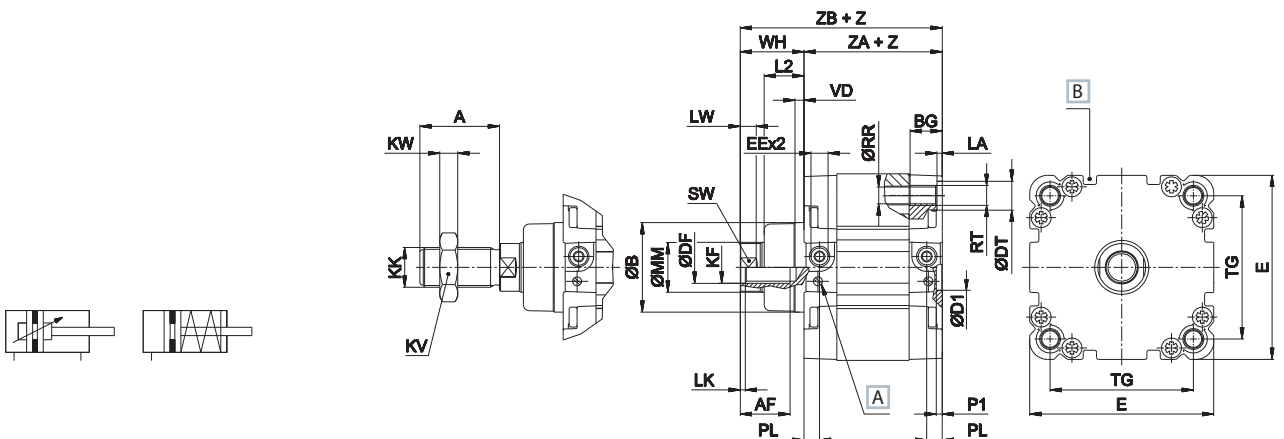
> Extended piston rod



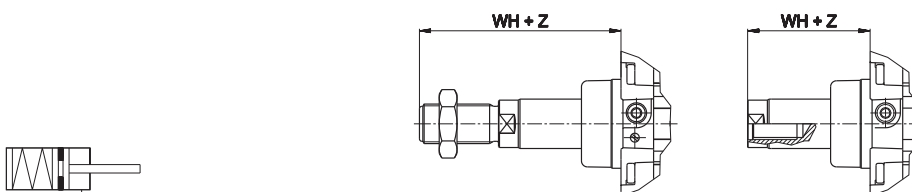
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							H11						
80	28	20	16,5	12,2	14	23	93,5	G1/8	M12	M16x1,5	24	10	
100	28	20	21,5	12,2	14	28	112	G1/8	M12	M16x1,5	24	10	
Ø	LA	LK	LW	MM	PL	P1	RR	RT	SW	TG	WH	ZA	ZB
80	2,6	2	6	20	8	3	8,4	M10	17	72	10	54	64
100	2,6	2	6	20	10,5	3	8,4	M10	17	89	10	67	77

RS

> Double acting/simple acting retracted piston



> Extended piston rod



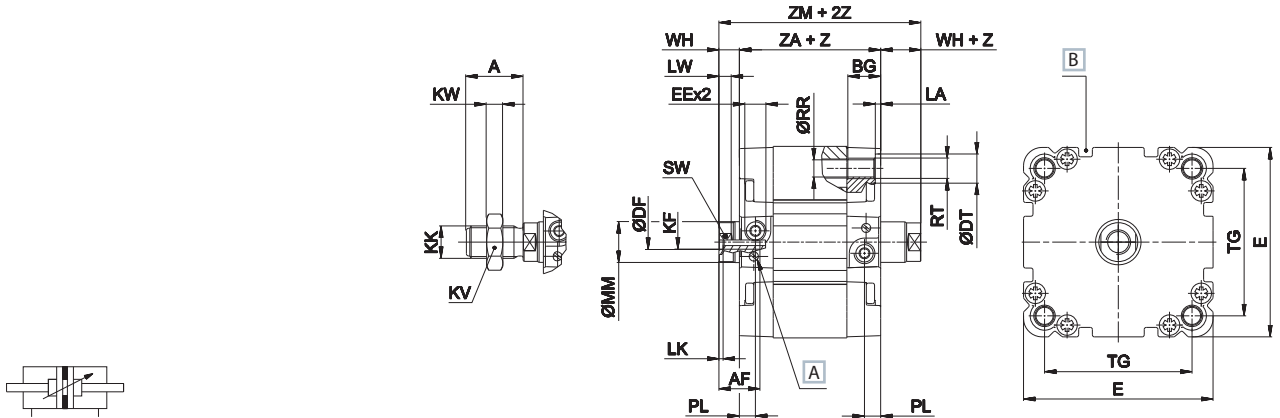
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								H11						
80	40	25	45	16,5	16,2	14	23	93,5	G1/8	M16	M20x1,5	30	9	2,6
100	40	25	55	21,5	16,2	14	28	112	G1/8	M16	M20x1,5	30	9	2,6
Ø	LK	LW	L2	MM	PL	P1	RR	RT	SW	TG	VD	WH	ZA	ZB
80	2,5	8	20	25	8	3	8,4	M10	22	72	4	32	54	86
100	2,5	8	20	25	10,5	3	8,4	M10	22	89	4	32	67	99

A Adjusting screw pneumatic cushioning

Z = stroke

B Mounting sensor

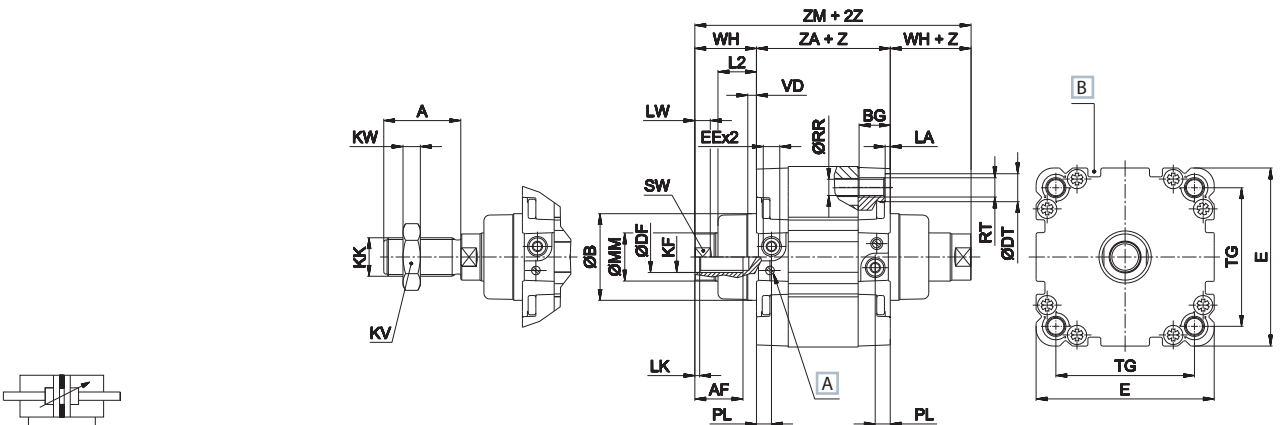
RM



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



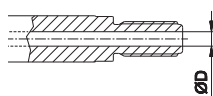
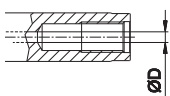
Ø	A	AF	B	BG	DF	DT	D1	E	EE	KF	KK	KV	KW	LA
80	40	25	45	16,5	16,2	14	H11 23	93,5	G1/8	M16	M20x1,5	30	9	2,6
100	40	25	45	21,5	16,2	14	28	112	G1/8	M16	M20x1,5	30	9	2,6

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

CHARACTERISTICS

Ambient temperature	-20 ÷ 80 °C
Fluid	filtered air, with or without lubrication
Working pressure	1,5 ÷ 10 bar
End-caps	die-cast aluminium
Barrel	anodized aluminium
Piston	aluminium
Guide slide	acetalic resin
Piston rod	chromium-plated steel, stainless steel upon request
Piston seal	NBR
Guide bush for piston rod	acetalic resin
Shock absorber seals	NBR
Cushionings	pneumatic adjustable (UNIVER Original standard supplied)
Magnet	standard supplied
Other versions available	tandem, two-position tandem, opposed tandem, with common piston rod (upon request)


CODIFICATION KEY

R	S	2	0	0	0	3	2	0	0	2	5	
1	2	3	4	5	6							

1 Series	2 Type	3 Version
RS = Ø 32÷100 mm - STRONG Compact Cylinders	1 = Stainless steel female piston rod 2 = Chromium-plated steel female piston rod 3 = Stainless steel male piston rod 4 = Chromium-plated steel male piston rod	For type 1 - 2 00 = D.A. Standard version 01 = D.A. Through piston rod 10 = D.A. Non-rotating guided piston rod (Ø32÷63) 11 = D.A. Non-rotating guided through piston rod (Ø32÷63) 20 = D.A. Long piston (Ø32÷63) 60 = S.A. Retracted piston rod 70 = S.A. Extended piston rod

For type 3 - 4 00 = D.A. Standard version 01 = D.A. Through piston rod 20 = D.A. Long piston (Ø32÷63) 60 = S.A. Retracted piston rod 70 = S.A. Extended piston rod
D.A. = Double acting S.A. = Single acting

4 Bore (mm)	5 Stroke (mm)	6 Option
032 = Ø32 040 = Ø40 050 = Ø50 063 = Ø63 080 = Ø80 100 = Ø100	Single acting 0005 - 0010 - 0015 - 0020 - 0025 Double acting 0005 - 0010 - 0015 - 0020 - 0025 0030 - 0040 - 0050 - 0060 - 0080 Max standard stroke 0080 (Ø32÷100)	Max stroke with long piston (upon request) 0800 (Ø32-40) 1000 (Ø50÷63) Max stroke with non-rotating guided piston rod (upon request) 0400 (Ø32-40) 0800 (Ø63) 0500 (Ø50) 1000 (Ø80-100)

H = Hollow piston rod only for through piston rod versions without flange G = Preset for locking unit only for D.A. cylinders with chromium-plated steel piston rod C = With flange for versions: 100-101-120-160-170 200-201-220-260-270
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For high temperature applications please contact our Sales Office

FIXING ELEMENTS AND ACCESSORIES

Ø	Female fork with clips	Articulated self-lubricating fork	Fork with axially mounted articulated pin	Fork with angle mounted articulated pin	Floating joint	Flange for female piston rod	Centering adaptor ring	Female rear hinge with pin	Counter hinge 90° (CETOP)	Counter hinge 90°	Counter hinge 90° (CNOMO)
32											
40	KF-15032	KF-17032	KF-22032	KF-23032	KF-24032	RPF-28032	RSF-09032	KF-10032A	KF-19032CTA	KF-19032	KF-19032CN
50	KF-15040	KF-17040	KF-22040	KF-23040	KF-24040	RPF-28040	RSF-09040	KF-10040A	KF-19040CTA	KF-19040	KF-19040050CN
63	KF-15050	KF-17050	KF-22050	KF-23050	KF-24050	RPF-28050	RSF-09050	KF-10050A	KF-19050CTA	KF-19050	KF-19040050CN
80	KF-15080	KF-17080	KF-22080	KF-23080	KF-24080	RPF-28063	RSF-09063	KF-10063A	KF-19063CTA	KF-19063	KF-19063080CN
100	KF-15080	KF-17080	KF-22080	KF-23080	KF-24080	-	RSF-09080	KF-10080A	KF-19080CTA	KF-19080	KF-19063080CN
							RSF-09100	KF-10100A	KF-19100CTA	KF-19100	KF-19100125CN
Ø	Narrow female hinge with pin	Articulated counter hinge	Articulated rear male hinge	Rear male hinge	Front/rear flange	Angle bracket	Front/rear hinge with floating pin	Hinge support	ISO Intermediate hinge	DF sensor and DHF covering strip	Cable clamping for DF sensor
32											
40	KF-10032AS	KF-19032SC	KF-11032S	KF-11032	KF-12032	KF-13032	KF-14032AP	KF-41032	KDF-14032		
50	KF-10040AS	KF-19040SC	KF-11040S	KF-11040	KF-12040	KF-13040	KF-14040AP	KF-41040050	RPF-14040		
63	KF-10050AS	KF-19050SC	KF-11050S	KF-11050	KF-12050	KF-13050	KF-14050AP	KF-41040050	RPF-14050		
80	KF-10063AS	KF-19063SC	KF-11063S	KF-11063	KF-12063	KF-13063	KF-14063AP	KF-41063080	RPF-14063		
100	KF-10080AS	KF-19080SC	KF-11080S	KF-11080	KF-12080	KF-13080	KF-14080AP	KF-41063080	RPF-14080		
	KF-10100AS	KF-19100SC	KF-11100S	KF-11100	KF-12100	KF-13100	KF-14100AP	KF-41100125	KDF-14100		

CHARACTERISTICS

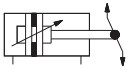
Ambient temperature	-20 ÷ 80 °C
Fluid	filtered air, with or without lubrication
Working pressure	1,5 ÷ 10 bar
End-caps	die-cast aluminium
Barrel	anodized aluminium
Piston	aluminium
Guide slide	acetalic resin
Piston rod	chromium-plated steel, stainless steel upon request
Piston seal	NBR
Guide bush for piston rod	acetalic resin
Shock absorber seals	NBR
Cushionings	pneumatic adjustable (UNIVER Original standard supplied)
Magnet	standard supplied
Other available versions	tandem, two-position tandem, opposed tandem, with common piston rod (upon request)


CODIFICATION KEY

R	Q	2	0	0	0	3	2	0	0	2	5	
1	2	3	4	5	6							

1 Series	2 Type	3 Version
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RQ = Ø 32÷63 mm - STRONG
Compact Cylinders octagonal tube



- 1 = Stainless steel female piston rod with flange
 2 = Chromium-plated steel female piston rod with flange
 3 = Stainless steel male piston rod
 4 = Chromium-plated steel male piston rod

- 00 = D.A. Standard version
 01 = D.A. Through piston rod
 20 = D.A. Long piston

D.A. = Double acting

4 Bore (mm)	5 Stroke (mm)	6 Option
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- 032 = Ø32
 040 = Ø40
 050 = Ø50
 063 = Ø63

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

Max standard stroke
 0080

Max stroke with long piston (upon request)
 0400 (Ø32-40)
 1000 (Ø50-63)

- H = Hollow piston rod only for through piston rod versions without flange
 G = Preset for locking unit only with chromium-plated steel piston rod

FIXING ELEMENTS AND ACCESSORIES

Ø	Female fork with clips	Articulated self-lubricating fork	Fork with axially mounted articulated pin	Fork with angle mounted articulated pin	Floating joint	Centering adaptor ring	Female rear hinge with pin	Counter hinge 90° (CETOP)	Counter hinge 90°	Counter hinge 90° (CNOMO)	Narrow female hinge with pin
32											
	KF-15032	KF-17032	KF-22032	KF-23032	KF-24032	RSF-09032	KF-10032A	KF-19032CTA	KF-19032	KF-19032CN	KF-10032AS
40											
	KF-15040	KF-17040	KF-22040	KF-23040	KF-24040	RSF-09040	KF-10040A	KF-19040CTA	KF-19040	KF-19040050CN	KF-10040AS
50											
	KF-15050	KF-17050	KF-22050	KF-23050	KF-24050	RSF-09050	KF-10050A	KF-19050CTA	KF-19050	KF-19040050CN	KF-10050AS
63											
	KF-15050	KF-17050	KF-22050	KF-23050	KF-24050	RSF-09063	KF-10063A	KF-19063CTA	KF-19063	KF-19063080CN	KF-10063AS

Ø	Articulated counter hinge	Articulated rear male hinge	Rear male hinge	Front, rear flange	Angle bracket	Front / rear hinge	Hinge support	ISO Intermediate hinge	DF sensor and DHF covering strip	Cable clamping for DF sensor
32										
	KF-19032SC	KF-11032S	KF-11032	KF-12032	KF-13032	KF-14032AP	KF-41032	KDF-14032	DF DHF-0020100	DF-001
40										
	KF-19040SC	KF-11040S	KF-11040	KF-12040	KF-13040	KF-14040AP	KF-41040050	RPF-14040		
50										
	KF-19050SC	KF-11050S	KF-11050	KF-12050	KF-13050	KF-14050AP	KF-41040050	RPF-14050		
63										
	KF-19063SC	KF-11063S	KF-11063	KF-12063	KF-13063	KF-14063AP	KF-41063080	RPF-14063		