KA/8000, KA/8000/M Stainless steel ISO/VDMA cylinders

Double acting - Ø 32 ... 200 mm

High corrosion and acid resistant

Conforming to Standards ISO 15552, ISO 6431, VDMA 24562 and NFE 49-003-1

Ideal for applications in the food industry

MATERIALS

Barrel: X5 Cr Ni 18 10 (1.4301; AISI 304)
End covers: X10 Cr Ni S 18 9 (1.4305; AISI 303)
Piston rod: X10 Cr Ni S 18 9 (1.4305; AISI 303)
Nuts and screws: X10 Cr Ni S 18 9 (1.4305; AISI 303)
Tie rods: X5 Cr Ni Mo 17 12 2 (1.4401; AISI 316)
Piston rod seals: FPM
Piston seals: polyurethane Ø 32 ... 100 mm, nitrile rubber Ø 125 ... 200 mm
Cushion seals: nitrile rubber
O-rings: FPM

TECHNICAL DATA

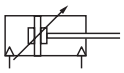
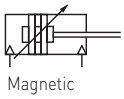
Medium:
Compressed air, filtered, lubricated or non-lubricated

Operation:
KA/8000: double acting, adjustable cushioning
KA/8000/M: double acting, adjustable cushioning and magnetic piston

Operating pressure:
1 ... 16 bar

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

STANDARD MODELS

	Ø	Piston rod Ø	Port size	MODELS Non-magnetic	MODELS Magnetic	ACCESSORIES Reed switch integral with 5m cable	Switch mounting	Banjo flow control	Straight fitting	Elbow fitting	Service kit
								Nickel plated brass fittings Tube diameter in bold			
											
	32	12	G1/8	**KA/8032/***	**KA/8032/M/***	M/50/LSU/5V	QM/27/2/1	10K51**06**18	10225**06**18	10247**06**18	KQA/8032/00
	40	16	G1/4	**KA/8040/***	**KA/8040/M/***	M/50/LSU/5V	QM/27/2/1	10K51**06**28	10225**06**28	10247**06**28	KQA/8040/00
	50	20	G1/4	**KA/8050/***	**KA/8050/M/***	M/50/LSU/5V	QM/27/2/1	10K51**08**28	10225**08**28	10247**08**28	KQA/8050/00
	63	20	G3/8	**KA/8063/***	**KA/8063/M/***	M/50/LSU/5V	QM/27/2/1	10K51**08**38	10225**08**38	10247**08**38	KQA/8063/00
Non-magnetic	80	25	G3/8	**KA/8080/***	**KA/8080/M/***	M/50/LSU/5V	QM/27/2/1	10K51**10**38	10225**10**38	10247**10**38	KQA/8080/00
	100	25	G1/2	**KA/8100/***	**KA/8100/M/***	M/50/LSU/5V	QM/27/2/1	10K51**12**48	10225**12**48	10247**12**48	KQA/8100/00
	125	32	G1/2	**KA/8125/***	**KA/8125/M/***	M/50/LSU/5V	QM/27/2/1	10K51**12**48	10225**12**48	10247**12**48	KQA/8125/00
	160	40	G3/4	**KA/8160/***	**KA/8160/M/***	M/50/LSU/5V	QM/27/2/1	–	–	–	KQA/8160/00
Magnetic	200	40	G3/4	**KA/8200/***	**KA/8200/M/***	M/50/LSU/5V	QM/27/2/1	–	–	–	KQA/8200/00

* Insert stroke length in mm

For information on additional magnetic switches see page 1-290
Other fittings e.g. plastic or stainless steel are available, please see section 7

Standard strokes

Ø	25	50	80	100	125	160	200	250	320	400	500
32	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•
63	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•	•	•

Other strokes available

For further information

www.norgren.com/info/en1-272

OPTIONS SELECTOR

★KA/8★★★★/★★/★★

Special variants	Substitute
High temperature version: 150°C max.	T

Cylinder diameter (mm)	Substitute
32	032
40	040
50	050
63	063
80	080
100	100
125	125
160	160
200	200

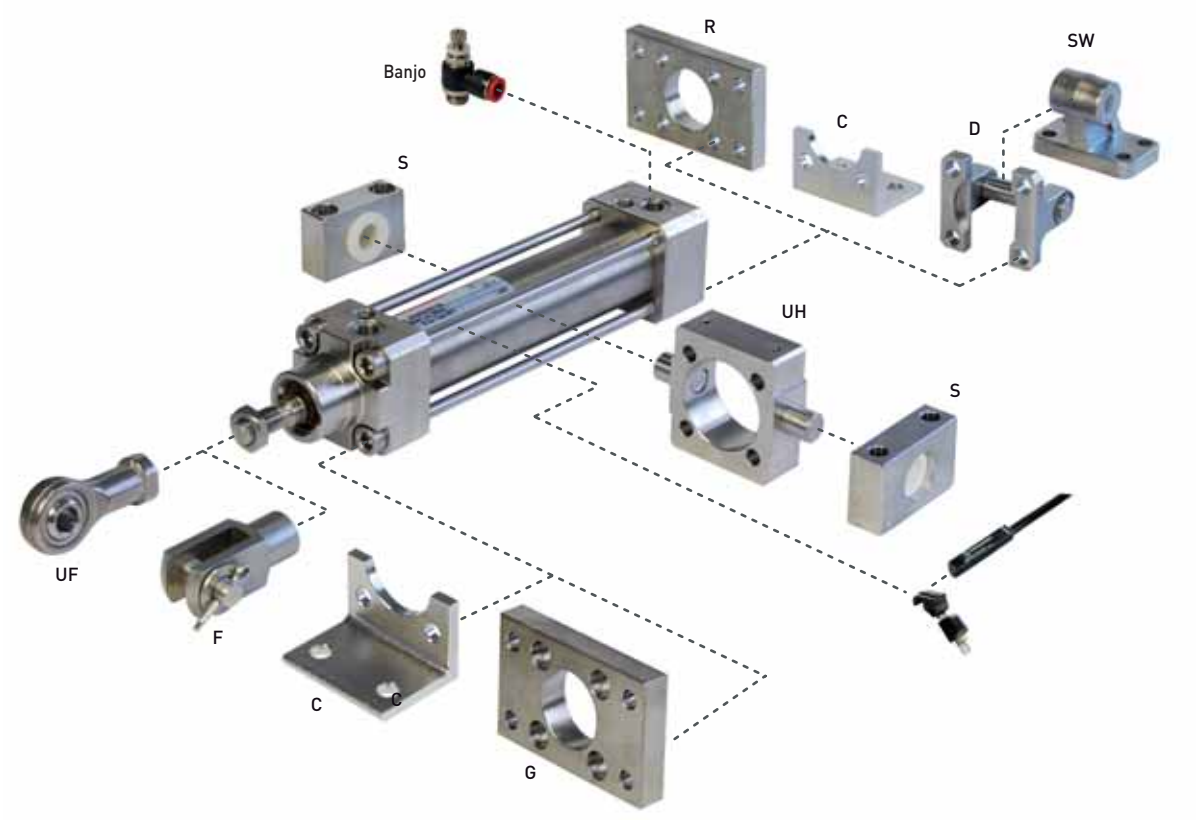
Strokes (mm)
2500 max.

Variants (non-magnetic piston)	Substitute
Standard	
Special wiper/seal	W1
Without cushion	W
Double ended piston rod	J
Special wiper/seal, double ended piston rod	W3

Variants (magnetic piston)	Substitute
Standard	M
Special wiper/seal	W2
Without cushion	MW
Double ended piston rod	JM
Special wiper/seal, double ended piston rod	W4

Note: If option is not required, disregard option position within part number eg. KA/8100/100. For combinations of cylinder variants consult our Technical Service.
This options selector explains only the cylinder variants. Additional variants/options can not be derived from. Information about variants see data sheet.

MOUNTINGS



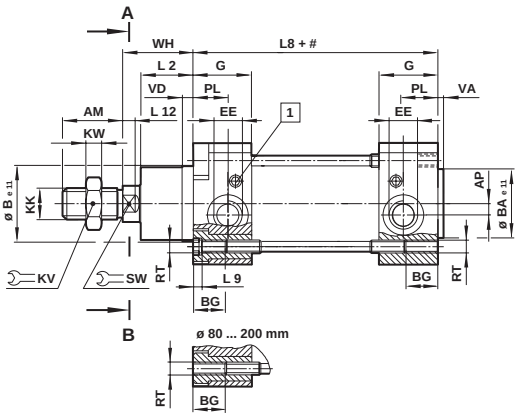
Ø	B, G	C	D	F	S	SW	UF	UH
32	KQA/8032/22	KQA/8032/21	KQA/8032/23	KQM/55433/25	KQA/8032/41	M/P72288	KQM/8025/32	KQA/8032/40
40	KQA/8040/22	KQA/8040/21	KQA/8040/23	KQM/55441/25	KQA/8040/41	M/P72289	KQM/8040/32	KQA/8040/40
50	KQA/8050/22	KQA/8050/21	KQA/8050/23	KQM/55451/25	KQA/8040/41	M/P72290	KKQM/8050/32	KQA/8050/40
63	KQA/8063/22	KQA/8063/21	KQA/8063/23	KQM/55451/25	KQA/8063/41	M/P72291	KQM/8050/32	KQA/8063/40
80	KQA/8080/22	KQA/8080/21	KQA/8080/23	KQM/8080/25	KQA/8063/41	M/P72292	KQM/8080/32	KQA/8080/40
100	KQA/8100/22	KQA/8100/21	KQA/8100/23	KQM/8080/25	KQA/8100/41	M/P72293	KQM/8080/32	KQA/8100/40
125	KQM/8125/22	KQM/8125/21	KQM/8125/23	KKQM/8125/25	KQA/8100/41		KQM/8125/32	KQA/8125/40

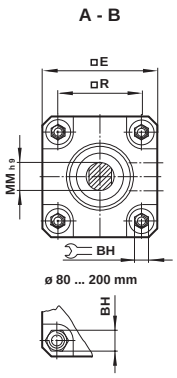
KA/8000, KA/8000/M Stainless steel ISO/VDMA cylinders

Double acting - Ø 32 ... 200 mm

BASIC DIMENSIONS

KA/8000/M - Standard





\# Stroke

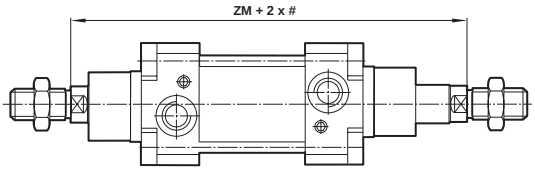
1 Cushion screw

MODELS	Ø	AM	AP	Ø Be11	Ø BAe11	BG	⌀ BH	❑ E	EE	G	KK	⌀ KV	KW	L2
KA/8032/M/.	32	22	3,5	30	30	18	6	47	G 1/8	27,5	M10x1,25	17	5	20
KA/8040/M/.	40	24	4,5	35	35	18	6	53	G 1/4	32	M12x1,25	19	6	22
KA/8050/M/.	50	32	6	40	40	18	8	65	G 1/4	31	M16x1,5	24	8	27
KA/8063/M/.	63	32	10	45	45	17,5	8	75	G 3/8	33	M16x1,5	24	8	29
KA/8080/M/.	80	40	8,5	45	45	21,5	19	95	G 3/8	33	M20x1,5	30	10	33
KA/8100/M/.	100	40	9	55	55	21,5	19	115	G 1/2	37	M20x1,5	30	10	36
KA/8125/M/.	125	54	10	60	60	32	24	140	G 1/2	46	M27x2	41	13,5	45
KA/8160/M/.	160	72	18	65	65	28,5	32	180	G 3/4	50	M36x2	55	18	58
KA/8200/M/.	200	72	18	75	75	28,5	32	220	G 3/4	50	M36x2	55	18	67

MODELS	Ø	L8	L9	L12	Ø MMh9	PL	❑ R	RT	⌀ SW	VA	VD	WH	at 0 mm	per 25 mm
KA/8032/M/.	32	94	4	6	12	13	32,5	M 6	10	3	6	26	1,12 kg	0,06 kg
KA/8040/M/.	40	105	4	6,5	16	15	38	M 6	13	3,5	6	30	1,65 kg	0,08 kg
KA/8050/M/.	50	106	5	8	20	18,5	46,5	M 8	17	3,5	6	37	2,57 kg	0,13 kg
KA/8063/M/.	63	121	5	8	20	19	56,5	M 8	17	4	6	37	3,95 kg	0,14 kg
KA/8080/M/.	80	128	-	10	25	19	72	M 10	22	4	6	46	6,64 kg	0,30 kg
KA/8100/M/.	100	138	-	10	25	20,5	89	M 10	22	4	6	51	10,67 kg	0,34 kg
KA/8125/M/.	125	160	-	13	32	20,5	110	M 12	27	6	15,5	65	20,82 kg	0,51 kg
KA/8160/M/.	160	180	-	16	40	21	140	M 16	36	4	15	80	37,3 kg	0,88 kg
KA/8200/M/.	200	180	-	16	40	21	175	M 16	36	5	15	95	59,0 kg	1,14 kg

ALTERNATIVE VARIANTS

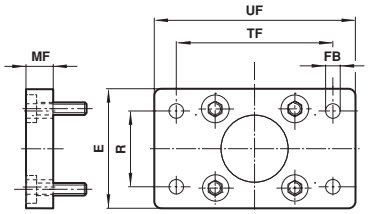
KA/8000/JM – Cylinder with double ended piston rod



MODELS	Ø	ZM	at 0 mm	per 25 mm
KA/8032/JM/.	32	146	1,17 kg	0,08 kg
KA/8040/JM/.	40	165	1,80 kg	0,12 kg
KA/8050/JM/.	50	180	2,81 kg	0,19 kg
KA/8063/JM/.	63	195	4,22 kg	0,20 kg
KA/8080/JM/.	80	220	7,18 kg	0,40 kg
KA/8100/JM/.	100	240	11,21 kg	0,44 kg
KA/8125/JM/.	125	290	21,94 kg	0,67 kg
KA/8160/JM/.	160	340	39,54 kg	1,13 kg
KA/8200/JM/.	200	370	61,39 kg	1,39 kg

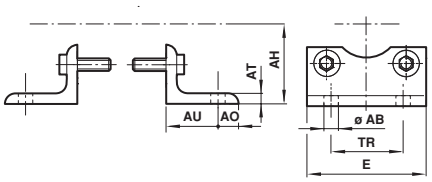
MOUNTINGS

Rear flange - B, front flange - G
Corresponds to ISO 15552, type MF1 and MF2



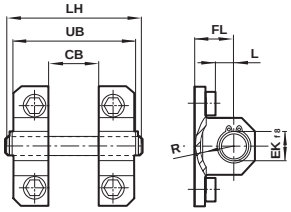
MODELS	Ø	E	Ø FB	MF	R	TF	UF	kg
KQA/8032/22	32	50	7	10	32	64	80	0,26
KQA/8040/22	40	55	9	10	36	72	90	0,31
KQA/8050/22	50	65	9	12	45	90	110	0,56
KQA/8063/22	63	75	9	12	50	100	125	0,73
KQA/8080/22	80	100	12	16	63	126	154	1,73
KQA/8100/22	100	120	14	16	75	150	186	2,51
KQA/8125/22	125	140	16	20	90	180	224	4,48

Foot - C
Corresponds to ISO 15552, type MS1



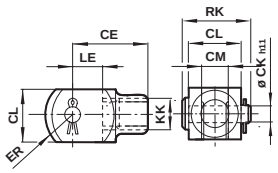
MODELS	Ø	Ø AB	AH	AO	AT	AU	E	TR	kg
KQA//8032/21	32	7	32	11	4	24	48	32	0,22
KQA//8040/21	40	9	38	12	4	28	53	36	0,31
KQA//8050/21	50	9	45	13	5	32	64	45	0,43
KQA//8063/21	63	9	50	13	5	32	74	50	0,49
KQA//8080/21	80	12	63	19	6	41	98	63	1,06
KQA//8100/21	100	14	71	19	6	41	115	75	1,25
KQA//8125/21	125	16	90	25	7	45	140	90	1,90

Rear clevis mounting - D
Corresponds to ISO 15552, type MP2



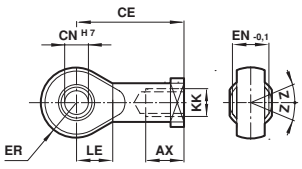
MODELS	Ø	CB	Ø EK f8	FL	L	LH	UB	kg
KQA/8032/23	32	26	10	22	10	52	45	0,13
KQA/8040/23	40	28	12	25	13	60	52	0,20
KQA/8050/23	50	32	12	27	12	68	60	0,31
KQA/8063/23	63	40	16	32	17	79	70	0,54
KQA/8080/23	80	50	16	36	16	99	90	0,95
KQA/8100/23	100	60	20	41	21	119	110	1,06
KQM/8125/23	125	70	25	50	28	140	130	2,44

Piston rod clevis mounting - F
Corresponds to DIN ISO 8140



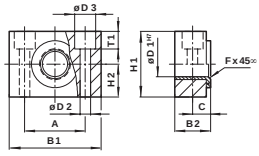
MODELS	Ø	KK	CE	Ø CK h11	CL	CM	ER	LE	RK	kg
KQM/55433/25	32	M10x1,25	40	10	20	10	16	20	28	0,09
KQM/55441/25	40	M12x1,25	48	12	24	12	19	24	32	0,13
KQM/55451/25	50/63	M16x1,5	64	16	32	16	25	32	41,5	0,33
KQM/8080/25	80/100	M20x1,5	80	20	40	20	32	40	50	0,67
KQM/8125/25	125	M27x2	110	30	55	30	45	54	62	1,35

Universal piston rod eye - UF
Corresponds to DIN ISO 8139



MODELS	Ø	KK	AX	CE	Ø CN H7	EN -0,1	ER	LE	Z	kg
KQM/8032/32	32	M10x1,25	20	43	10	14	14,5	14	13°	0,07
KQM/8040/32	40	M12x1,25	22	50	12	16	16,5	16	13°	0,11
KQM/8050/32	50/63	M16x1,5	28	64	16	21	21,5	21	15°	0,21
KQM/8080/32	80/100	M20x1,5	33	77	20	25	25,5	25	15°	0,38
KQM/8125/32	125	M27x2	51	110	30	37	35	35	15°	1,15

Swivel bearing - S
Corresponds to ISO 15552, type AT4

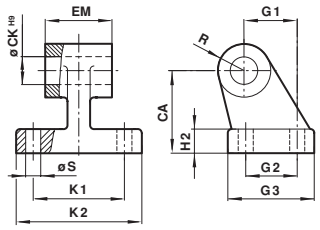


MODELS	Ø	A	B1	B2	C	Ø D1 H7	Ø D2	Ø D3	Fx45°	H1	H2	T1	kg
KQA/8032/41	32	32	46	18	10,5	12	6,6	11	1	30	15	6,8	0,10
KQA/8040/41	40/50	36	55	21	12	16	9	15	1,6	36	18	9	0,14
KQA/8063/41	63/80	42	65	23	13	20	11	18	1,6	40	20	11	0,18
KQA/8100/41	100/125	50	75	28,5	16	25	14	20	2	50	25	13	0,34

KA/8000, KA/8000/M Stainless steel ISO/VDMA cylinders

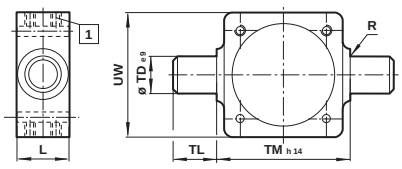
Double acting - Ø 32 ... 200 mm

Bracket for clevis mounting - SW
Corresponds to ISO 15552, type AB7



MODELS	Ø	CA	Ø CK H9	H2	EM	G1	G2	G3	K1	K2	R	Ø S	kg
M/P72288	32	32	10	8	26	21	18	31	38	1,6	10	6,6	0,15
M/P72289	40	36	12	10	28	24	22	35	41	1,6	11	6,6	0,21
M/P72290	50	45	12	12	32	33	30	45	50	1,6	13	9	0,41
M/P72291	63	50	16	12	40	37	35	50	52	1,6	15	9	0,53
M/P72292	80	63	16	14	50	47	40	60	66	2,5	15	11	0,82
M/P72293	100	71	20	15	60	55	50	70	76	2,5	19	11	1,22

Adjustable intermediate trunnion mounting - UH
Corresponds to ISO 15552, type MT4



1 locked torque

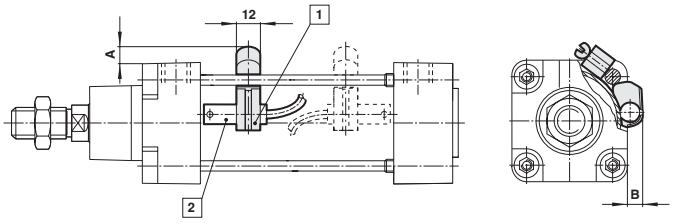
MODELS	Ø	L	R	Ø TD e9	TL	TM h14	UW	XV min.	XV max.	kg
KQA/8032/40	32	20	1	12	12	50	53	63,5	82,5	0,24
KQA/8040/40	40	24	1,6	16	16	63	65	74	91	0,48
KQA/8050/40	50	28	1,6	16	16	75	75	82	98	0,70
KQA/8063/40	63	28	1,6	20	20	90	95	84	111	1,35
KQA/8080/40	80	28	1,6	20	20	110	115	93	127	1,46
KQA/8100/40	100	38	2	25	25	132	140	112	128	2,76
KQA/8125/40	125	50	2	25	25	160	143	136	154	3,28

Note: style 'UH': It is most important that the locking screws which secure the mounting to the cylinder barrel are tightened to the torque figures shown in the table below.
For maximum energy input, consult our Technical Service.

Mountings for switches

QM/27/2/1 – Bracket, Magnetically operated switch: M/50

Ø	A	B	Weight
32	9	7	0,010 kg
40	8	8	0,010 kg
50	7	5	0,010 kg
63	7	7	0,010 kg
80	7	4	0,010 kg
100	2	2	0,010 kg
125	-4	-3	0,010 kg
160	-10	-9	0,010 kg
200	-17	-14	0,010 kg



1 Bracket
2 Switch