

KA/802000/M/EX

Stainless Steel ISOLine™ 15552 cylinder, double acting



- > ø 32 ... 200 mm
- > High performance adaptive cushioning system "ACS"
- > High corrosion and acid resistance
- > These cylinder are applicable in zone 1 & 2 (gas), 21 & 22 (dust), ATEX Cat. II 2G and II 2D.



Technical features

Medium:

Compressed air, filtered, lubricated or non-lubricated

Standard:

ISO 15552

Operation:

Double acting, adjustable cushioning

Operating pressure:

ø 32 ... 200 mm

Cylinder with Round barrel

1 ... 16 bar (14 ... 232 psi)

Ports:

G1/8 ... 3/4

Cylinder diameters:

32, 40, 50, 63, 80, 100, 125, 160, 200 mm

Standard strokes:

25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500 mm

Non-standard strokes:

Available (5 ... 2500 mm)

ATEX marking:

Ex II 2G Ex h IIC T4 Gb
II 2D Ex h IIIC T120°C Db

Operating temperature:

ø 32 ... 200 mm

Standard version

Ambient temperature:

-10 ... +60 °C max. (-4 ... +140 °F)

Operating temperature:

-10 ... +80 °C max. (+14 ... +176 °F)

Air supply must be dry enough

to avoid ice formation at temperatures below +2 °C (+35 °F).

Standard Materials:

Barrel: X5 Cr Ni 18 10

(1.4301; AISI 304)

End covers: X5 Cr Ni 19 10

(1.4308; AISI 304)

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 18 10

(1.4301; AISI 304)

Piston rod seals: FPM

Piston seals:

PUR ø 32 ... 100 mm,

NBR ø 125 ... 200 mm

Cushion seals: NBR

O-rings: FPM

Technical data

Cylinder ø (mm)	32	40	50	63	80	100	125	160	200
Port size	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2	G3/4	G3/4
Piston rod ø (mm)	12	16	20	20	25	25	32	40	40
Piston rod thread	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2	M36x2	M36x2
Cushion length (mm)	20	22	24	24	26	33	39	43	43
Cushioning									
Adaptive cushioning systems "ACS"	•	•	•	•	•	•	•		
Cushioning (adjustable cushion)								•	•
Initial cushion volume (cm ³)	12,8	20,2	36	64	111	235	427	784	1273
Theoretical thrusts at 6 bar outstroke (N)	482	754	1178	1870	3016	4710	7363	12064	18840
Theoretical thrusts at 6 bar instroke (N)	414	633	990	1680	2722	4416	6882	11310	18090
Air consumption at 6 bar outstroke (l/cm)	0,056	0,088	0,137	0,218	0,35	0,55	0,86	1,41	2,2
Air consumption at 6 bar instroke (l/cm)	0,048	0,074	0,114	0,195	0,32	0,51	0,79	1,32	2,1

Accessories Round barrel (ø 32 ... 200 mm)

Model	ø	Port size	Straight fitting	Elbow fitting
KA/802032/M/EX/*	32	G1/8	S02250618	C02470618
KA/802040/M/EX/*	40	G1/4	S02250628	C02470628
KA/802050/M/EX/*	50	G1/4	S02250828	C02470828
KA/802063/M/EX/*	63	G3/8	S02250838	C02470838
KA/802080/M/EX/*	80	G3/8	S02251038	C02471038
KA/802100/M/EX/*	100	G1/2	S02251248	C02471248
KA/802125/M/EX/*	125	G1/2	S02251248	C02471248
KA/802160/M/EX/*	160	G3/4	-	-
KA/802200/M/EX/*	200	G3/4	-	-



For alternative fitting types please contact the technical service.

Service kit

Service kit for Round and Profile barrel*	
ø	
32	KQA/8032/00
40	KQA/8040/00
50	KQA/8050/00
63	KQA/8063/00
80	KQA/8080/00
100	KQA/8100/00
125	KQA/8125/00
160	KQA/8160/00
200	KQA/8200/00

*For TKA high temperature cylinders, replace 'KQA' with 'TQA' for the high temperature spares kit

Magnetically operated switches

ø	M/50/**  Page 12-15	Switch mounting brackets for M/50  23 Page 15
32		QM/27/2/1
40		QM/27/2/1
50		QM/27/2/1
63		QM/27/2/1
80		QM/27/2/1
100		QM/27/2/1
125		QM/27/2/1
160		QM/27/2/1
200		QM/27/2/1