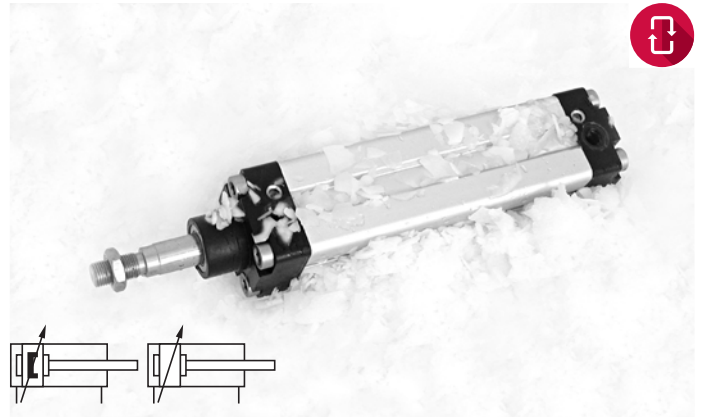


- > Ø 32 ... 125 mm
- > To be suited to -40°C
- > Special PU wiper seal
- > Profil barrel with concealed tie rods
- > Lightweight profile design with concealed tie rods
- > High corrosion and acid resistant materials
- > Clean line profile design with full machined end covers



Technical features

Medium:

Compressed air, filtered, lubricated or non-lubricated

Standard:

ISO 15552

Operation:

LPDA/182000: Double acting, adjustable cushioning
LPDA/182000/M: Double acting, adjustable cushioning and magnetic piston

Operating pressure:

1 ... 10 bar (14 ... 145 psi)

Ports:

G1/8 ... G1/2

Cylinder diameters:

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

Strokes:

See page below

Non-standard strokes:

Available (10 ... 3000 mm)

Operating temperature:

-40 ... +80°C max. (-40 ... +176 °F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Profile barrel: clear anodised aluminium
End covers: black anodised aluminium
Piston rod: hart chromium plated

stainless steel

X10 Cr Ni S 18 9 (AISI 303, 1.4305)

Piston rod nut: X10 Cr Ni S 18 9 (AISI 303, 1.4305)

Cover screws: X10 Cr Ni S 18 9 (AISI 303, 1.4305)

Tie rods: X10CrN, S189

Piston and piston rod seals: PU

O-rings: NBR

Technical data

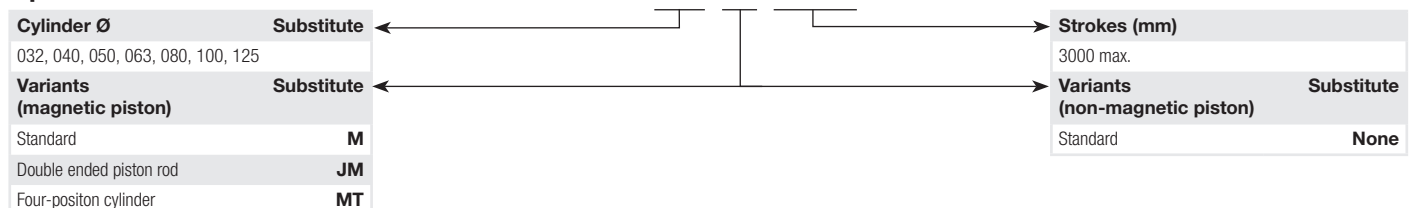
Cylinder Ø (mm)	32	40	50	63	80	100	125
Port size	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2
Piston rod Ø (mm)	12	16	20	20	25	25	32
Piston rod thread	M10 x 1,25	M12 x 1,25	M16 x 1,5	M16 x 1,5	M20 x 1,5	M20 x 1,5	M27 x 2
Cushion length (mm)	19	22	24	24	27	34	41
Initial cushion volume (cm³)	12,3	20,7	36	64	116	242	451
Theoretical thrusts at 6 bar outstroke (N)	482	754	1178	1870	3016	4710	7363
Theoretical thrusts at 6 bar instroke (N)	414	633	990	1680	2722	4416	6882
Air consumption at 6 bar outstroke (l/cm)	0,056	0,088	0,137	0,218	0,35	0,55	0,86
Air consumption at 6 bar instroke (l/cm)	0,048	0,074	0,114	0,195	0,32	0,51	0,79

Standard strokes

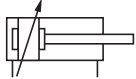
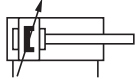
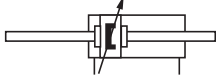

Cylinder Ø (mm)	Stroke length (mm)										
	25	50	80	100	125	160	200	250	320	400	500
32	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•
63	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•	•	•

Option selector

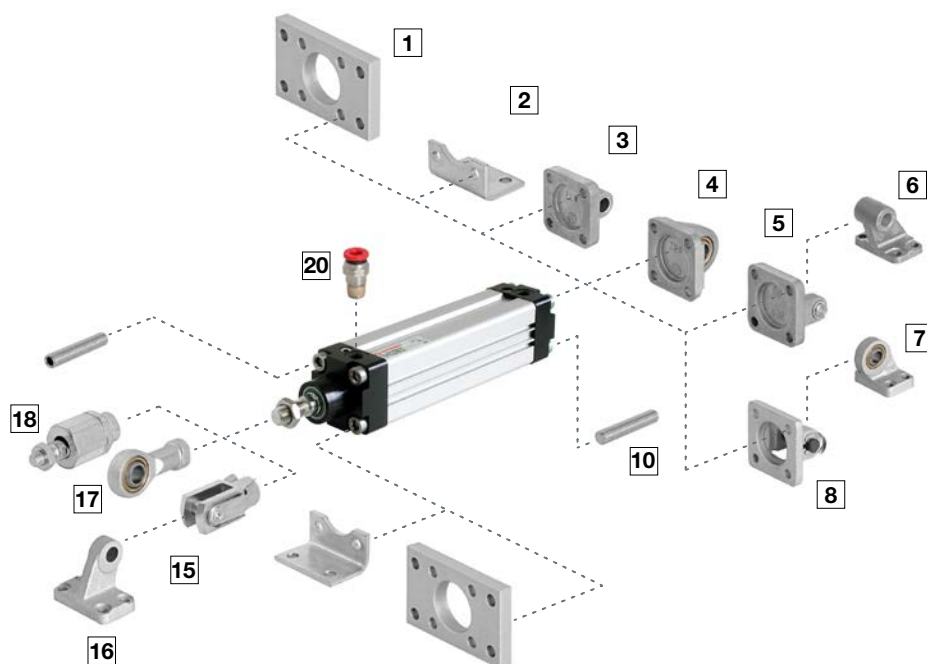
LPDA/182★★/★★/★★★



Cylinder variants















Symbol	Model Non-magnetic piston	Symbol	Model magnetic piston	Description	Dimensions
	LPDA/182000		LPDA/182000/M	Standard cylinder	4
			LPDA/182000/JM	Cylinder with double ended piston rod	5
			LPDA/182000/MT	Four position cylinders	5

Mountings



Position	Style	Corrosion protected	Stainless steel	Standard
1	B, G	Clear anodised aluminium. Screws: A2	X 5 Cr Ni 18 10 (1.4301; AISI 304). Screws: A2	Clear anodised aluminium
2	C	—	X 5 Cr Ni 18 10 (1.4301; AISI 304). Screws: A2	Galvanized steel (ø 32 ... 63 mm) Painted steel (ø 80 & 100 mm)
3	R	Black corrosion protected diecast aluminium. Certified for the food industry. Screws: A2	—	Diecast aluminium
4	UR	Black corrosion protected diecast aluminium Certified for the food industry Inner ring: stainless Steel (austenitic) Outer ring: nickel plated hardened steel	—	Galvanized aluminium Inner ring: steel Outer ring: brass
5	D	Black corrosion protected diecast aluminium Certified for the food industry Bolt: X 10 Cr Ni S 18 9 (1.4305, AISI 303) Circlip: Stainless steel (martensitic). Screws: A2	X 5 Cr Ni 18 10 (1.4301; AISI 304). Screws: A2 Bolt: X 10 Cr Ni S 18 9 (1.4305; AISI 303)	Diecast aluminium Bolt: galvanized steel (martensitic) Circlip: galvanized steel
7	US	—	—	Galvanized aluminium. Inner ring: steel Outer ring: brass
8	D2	—	—	Painted cast iron. Bolt: stainless steel (martensitic) Circlip: galvanized steel
10	A	—	—	Galvanized steel
15	F	Nickel plated steel Circlip: X 10 Cr Ni S 18 9 (1.4305, AISI 303) Bolt: X 10 Cr Ni S 18 9 (1.4305, AISI 303)	X 10 Cr Ni S 18 9 (1.4305; AISI 303) Bolt: X 10 Cr Ni S 18 9 (1.4305; AISI 303) Eyebolt: X 10 Cr Ni S 18 9 (1.4305; AISI 303)	Galvanized steel Bolt: galvanized steel Circlip: Galvanized steel
16	SS	—	—	Painted cast iron
17	UF	Nickel plated steel. Inner ring: stainless steel (austenitic) Outer ring: nickel plated hardened steel.	X 10 Cr Ni S 18 9 (1.4305; AISI 303), Inner ring X 105 Cr Co Mo 18-2 (1.4528), Outer ring X 5 Cr Ni 18 10 (1.4301; AISI 304)	Galvanized steel. Inner ring: steel Outer ring: brass
18	AK	—	—	Galvanized steel
20			PUSH-IN fittings, see page 9.1.070	PUSH-IN fittings, see page 9.1.020

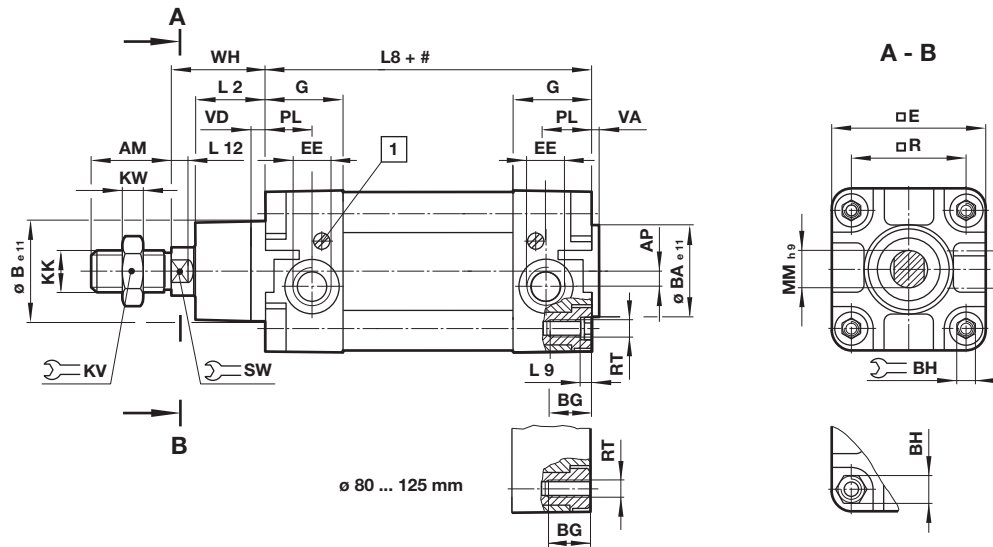
Mountings

Model	A	AK	B, G	C	D	D2	F
							
Cyl. Ø	10 Page 6	18 Page 6	1 Page 6	2 Page 6	5 Page 7	8 Page 7	15 Page 7
Corrosion protected							
32	—	—	PVQA/8032/22	—	PVQA/8032/23	—	PVQM/8025/25
40	—	—	PVQA/8040/22	—	PVQA/8040/23	—	PVQM/8040/25
50	—	—	PVQA/8050/22	—	PVQA/8050/23	—	PVQM/8050/25
63	—	—	PVQA/8063/22	—	PVQA/8063/23	—	PVQM/8050/25
80	—	—	PVQA/8080/22	—	PVQA/8080/23	—	PVQM/8080/25
100	—	—	PVQA/8100/22	—	PVQA/8100/23	—	PVQM/8080/25
Stainless steel							
32	—	—	KQA/8032/22	KQA/8032/21	KQA/8032/23	—	KQM/55433/25
40	—	—	KQA/8040/22	KQA/8040/21	KQA/8040/23	—	KQM/55441/25
50	—	—	KQA/8050/22	KQA/8050/21	KQA/8050/23	—	KQM/55451/25
63	—	—	KQA/8063/22	KQA/8063/21	KQA/8063/23	—	KQM/55451/25
80	—	—	KQA/8080/22	KQA/8080/21	KQA/8080/23	—	KQA/8080/25
100	—	—	KQA/8100/22	KQA/8100/21	KQA/8100/23	—	KQA/8080/25
125	—	—	KQA/8125/22	KQA/8125/21	KQA/8125/23	—	KQA/8125/25
Standard							
32	QM/8032/35	QM/8025/38	QA/8032/22	QA/8032/21	QA/8032/23	QA/8032/42	QM/8025/25
40	QM/8032/35	QM/8040/38	QA/8040/22	QA/8040/21	QA/8040/23	QA/8040/42	QM/8040/25
50	QM/8050/35	QM/8050/38	QA/8050/22	QA/8050/21	QA/8050/23	QA/8050/42	QM/8050/25
63	QM/8050/35	QM/8050/38	QA/8063/22	QA/8063/21	QA/8063/23	QA/8063/42	QM/8050/25
80	QM/8080/35	QM/8080/38	QA/8080/22	QA/8080/21	QA/8080/23	QA/8080/42	QM/8080/25
100	QM/8080/35	QM/8080/38	QA/8100/22	QA/8100/21	QA/8100/23	QA/8100/42	QM/8080/25
125	QM/8125/35	QM/8125/38	QM/8125/22	QM/8125/21	QM/8125/23	QM/8125/42	QM/8125/25
	R	SS	SW	UF	UR	US	M/50/**
							
Cyl. Ø	3 Page 7	16 Page 8	6 Page 8	17 Page 8	4 Page 9	7 Page 9	Page 10
Corrosion protected							
32	PVQA/8032/27	—	MP40459	PVQM/8025/32	PVQA/8032/33	—	—
40	PVQA/8040/27	—	MP40460	PVQM/8040/32	PVQA/8040/33	—	—
50	PVQA/8050/27	—	MP40461	PVQM/8050/32	PVQA/8050/33	—	—
63	PVQA/8063/27	—	MP40462	PVQM/8050/32	PVQA/8063/33	—	—
80	PVQA/8080/27	—	MP40463	PVQM/8080/32	PVQA/8080/33	—	—
100	PVQA/8100/27	—	MP40464	PVQM/8080/32	PVQA/8100/33	—	—
Stainless steel							
32	—	—	MP72288	KQM/8032/32	—	—	—
40	—	—	MP72289	KQM/8040/32	—	—	—
50	—	—	MP72290	KQM/8050/32	—	—	—
63	—	—	MP72291	KQM/8050/32	—	—	—
80	—	—	MP72292	KQM/8080/32	—	—	—
100	—	—	MP72293	KQM/8080/32	—	—	—
125	—	—	MP72432	—	—	—	—
Stainless steel							
32	QA/8032/27	MP19931	MP19493	QM/8025/32	QA/8032/33	MP40310	—
40	QA/8040/27	MP19932	MP19494	QM/8040/32	QA/8040/33	MP40311	—
50	QA/8050/27	MP19933	MP19495	QM/8050/32	QA/8050/33	MP40312	—
63	QA/8063/27	MP19934	MP19496	QM/8050/32	QA/8063/33	MP40313	—
80	QA/8080/27	MP19935	MP19497	QM/8080/32	QA/8080/33	MP40314	—
100	QA/8100/27	MP19936	MP19498	QM/8080/32	QA/8100/33	MP40315	—
125	QM/8125/27	MP19937	MP19499	QM/8125/32	QM/8125/33	MP71355	—

Basic dimensions

LPDA/182000; LPDA/182000/M – Standard cylinder

Dimensions in mm
Projection/First angle

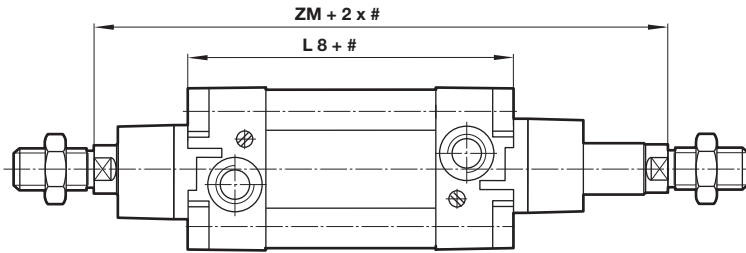


Stroke
1 Cushion screw

Ø	AM	AP	Ø B e11	Ø BA e11	BG	BH	E	EE	G	KK	KV	KW	L2	L8	L9
32	22	3,5	30	30	16	6	47	G 1/8	27,5	M10x1,25	17	5	20	94	4
40	24	4,5	35	35	16	6	53	G 1/4	32	M12x1,25	19	6	22	105	4
50	32	6	40	40	16	8	65	G 1/4	31	M16x1,5	24	8	27	106	5
63	32	10	45	45	16	8	75	G 3/8	33	M16x1,5	24	8	29	121	5
80	40	8,5	45	45	17	19	95	G 3/8	33	M20x1,5	30	10	33	128	-
100	40	9	55	55	17	19	115	G 1/2	37	M20x1,5	30	10	36	138	-
125	54	10	60	60	20	24	140	G 1/2	46	M27x2	41	13,5	45	160	-
Ø	L12	Ø MM h9	PL	R	RT	SW	VA	VD	WH	at 0 mm	per 25 mm	Model non-magnetic piston	Model magnetic piston		
32	6	12	13	32,5	M 6	10	3	6	26	0,51 kg	0,06 kg	LPDA/182032/*	LPDA/182032/M/*		
40	6,5	16	15	38	M 6	13	3,5	6	30	0,80 kg	0,08 kg	LPDA/182040/*	LPDA/182040/M/*		
50	8	20	18,5	46,5	M 8	17	3,5	6	37	1,33 kg	0,12 kg	LPDA/182050/*	LPDA/182050/M/*		
63	8	20	19	56,5	M 8	17	4	6	37	1,80 kg	0,13 kg	LPDA/182063/*	LPDA/182063/M/*		
80	10	25	19	72	M 10	22	4	6	46	3,25 kg	0,20 kg	LPDA/182080/*	LPDA/182080/M/*		
100	10	25	18	89	M 10	22	4	6	51	4,81 kg	0,23 kg	LPDA/182100/*	LPDA/182100/M/*		
125	13	32	20	110	M 12	27	6	15,5	65	8,00 kg	0,33 kg	LPDA/182125/*	LPDA/182125/M/*		

* Please insert standard stroke length.

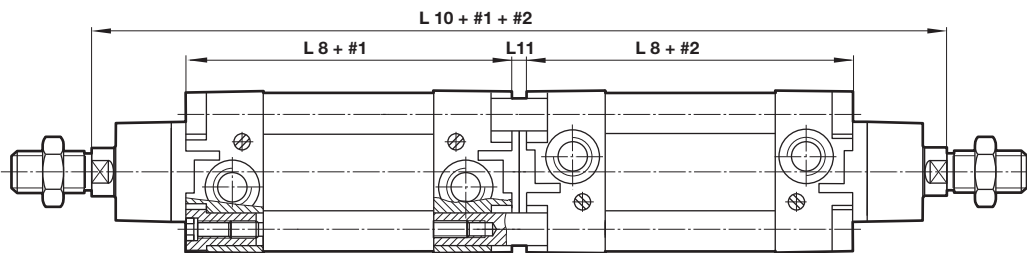
Cylinder variants
LPDA/182000/JM – Cylinder with double ended piston rod

 Dimensions in mm
Projection/First angle


Stroke

Ø	ZM	L8	Model magnetic piston
32	146	94	LPDA/182032/JM/*
40	165	105	LPDA/182040/JM/*
50	180	106	LPDA/182050/JM/*
63	195	121	LPDA/182063/JM/*
80	220	128	LPDA/182080/JM/*
100	240	138	LPDA/182100/JM/*
125	290	160	LPDA/182125/JM/*

* Please insert standard stroke length.

LPDA/182000/MT – Four-position cylinder


Stroke length 1 and stroke length 2

Ø	L 8	L 10	L 11	Model magnetic piston
32	94	247	7	LPDA/182032/MT/*/**
40	105	278	8	LPDA/182040/MT/*/**
50	106	294	8	LPDA/182050/MT/*/**
63	121	325	9	LPDA/182063/MT/*/**
80	128	357	9	LPDA/182080/MT/*/**
100	138	387	9	LPDA/182100/MT/*/**
125	160	462	12	LPDA/182125/MT/*/**

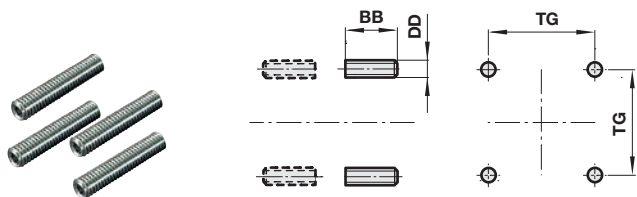
* Please insert standard stroke length 1

** Please insert standard stroke length 2

Mountings

Front or rear stud mounting A

Conforms to ISO 15552, type MX1

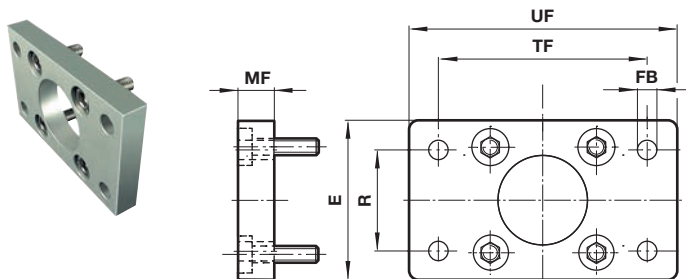


Standard

Ø	BB	DD	TG	kg	Model (A)
32/40	17	M6	32,5/38	0,02	QM/8032/35
50/63	23	M8	46,5/56,5	0,05	QM/8050/35
80/100	28	M10	72/89	0,08	QM/8080/35

Front flange B, G

Conforms to ISO 15552, type MF1 and MF2



Standard

Ø	E	Ø FB	MF	R	TF	UF	kg	Model (B, G)
32	50	7	10	32	64	80	0,25	QA/8032/22
40	55	9	10	36	72	90	0,35	QA/8040/22
50	65	9	12	45	90	110	0,70	QA/8050/22
63	75	9	12	50	100	125	0,80	QA/8063/22
80	100	12	16	63	126	154	1,35	QA/8080/22
100	120	14	16	75	150	186	2,20	QA/8100/22

Corrosion protected version

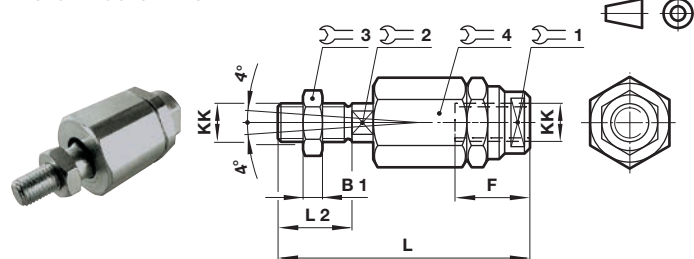
32	50	7	10	32	64	80	0,25	PVQA/8032/22
40	55	9	10	36	72	90	0,35	PVQA/8040/22
50	65	9	12	45	90	110	0,7	PVQA/8050/22
63	75	9	12	50	100	125	0,8	PVQA/8063/22
80	100	12	16	63	126	154	1,35	PVQA/8080/22
100	120	14	16	75	150	186	2,2	PVQA/8100/22

Stainless steel

32	50	7	10	32	64	80	0,26	KQA/8032/22
40	55	9	10	36	72	90	0,31	KQA/8040/22
50	65	9	12	45	90	110	0,56	KQA/8050/22
63	75	9	12	50	100	125	0,73	KQA/8063/22
80	100	12	16	63	126	154	1,73	KQA/8080/22
100	120	14	16	75	150	186	2,51	KQA/8100/22

Piston rod swivel AK

Dimensions in mm
Projection/First angle

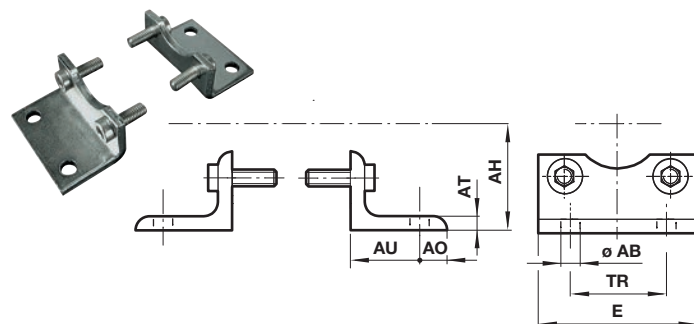


Standard

Ø	KK	B1	F	L	L2					kg	Model (AK)
						1	2	3	4		
32	M10x1,25	5	26	73	20	19	12	17	30	0,20	QM/8025/38
40	M12x1,25	6	26	77	24	19	12	19	30	0,20	QM/8040/38
50/63	M16x1,5	8	34	106	32	30	19	24	42	0,65	QM/8050/38
80/100	M20x1,5	10	42	122	40	30	19	30	42	0,72	QM/8080/38

Foot mounting C

Conforms to ISO 15552, type MS1



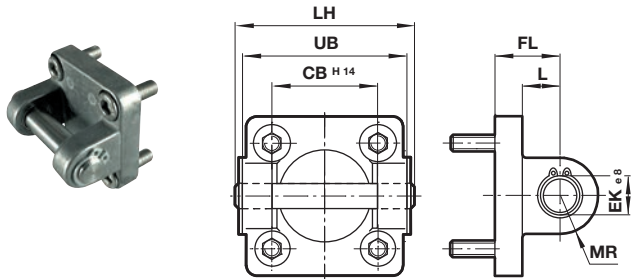
Standard

Ø	Ø AB	AH	AO	AT	AU	E	TR	kg	Model (C)
32	7	32	8	4	24	48	32	0,15	QA/8032/21
40	10	36	9	4	28	53	36	0,18	QA/8040/21
50	10	45	10	5	32	64	45	0,30	QA/8050/21
63	10	50	12	5	32	74	50	0,39	QA/8063/21
80	12	63	19	5	41	98	63	0,80	QA/8080/21
100	14	71	19	5	41	115	75	0,95	QA/8100/21

Stainless steel

32	7	32	11	4	24	48	32	0,16	KQA/8032/21
40	9	36	12	5	28	53	36	0,19	KQA/8040/21
50	9	45	13	5	32	64	45	0,32	KQA/8050/21
63	9	50	13	5	32	74	50	0,41	KQA/8063/21
80	12	63	19	6	41	98	63	0,83	KQA/8080/21
100	14	71	19	6	41	115	75	0,98	KQA/8100/21

Rear clevis D
Conforms to ISO 15552, type MP2

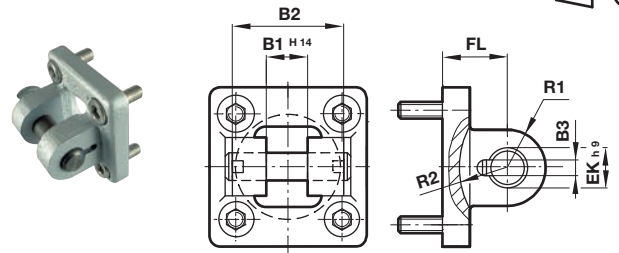


Standard

Ø	CB H14	Ø EK h8	FL	L	LH	MR	UB	kg	Model (D)
32	26	10	22	13	52	9	45	0,11	QA/8032/23
40	28	12	25	16	60	12	52	0,16	QA/8040/23
50	32	12	27	17	68	12	60	0,22	QA/8050/23
63	40	16	32	22	79	15	70	0,34	QA/8063/23
80	50	16	36	22	99	15	90	0,54	QA/8080/23
100	60	20	41	27	119	20	110	0,90	QA/8100/23
Corrosion protected version									
32	26	10	22	13	52	9	45	0,11	PVQA/8032/23
40	28	12	25	16	60	12	52	0,16	PVQA/8040/23
50	32	12	27	17	68	12	60	0,22	PVQA/8050/23
63	40	16	32	22	79	15	70	0,34	PVQA/8063/23
80	50	16	36	22	99	15	90	0,54	PVQA/8080/23
100	60	20	41	27	119	20	110	0,9	PVQA/8100/23
Stainless steel									
32	26	10	22	13	52	9	45	0,11	KQA/8032/23
40	28	12	25	16	60	12	52	0,16	KQA/8040/23
50	32	12	27	17	68	12	60	0,22	KQA/8050/23
63	40	16	32	22	79	15	70	0,34	KQA/8063/23
80	50	16	36	22	99	15	90	0,54	KQA/8080/23
100	60	20	41	27	119	20	110	0,9	KQA/8100/23

Rear clevis D2
Conforms to ISO 15552, type AB6

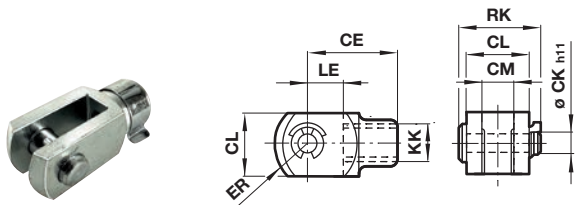
Dimensions in mm
Projection/First angle



Standard

Ø	B1 H14	B2	B3	Ø EK h9	FL	R1	R2	kg	Model (D2)
32	14	34	3,3	10	22	11	17	0,20	QA/8032/42
40	16	40	4,3	12	25	12	20	0,23	QA/8040/42
50	21	45	4,3	16	27	14,5	22	0,36	QA/8050/42
63	21	51	4,3	16	32	18	25	0,55	QA/8063/42
80	25	65	4,3	20	36	22	30	0,90	QA/8080/42
100	25	75	4,3	20	41	22	32	1,45	QA/8100/42

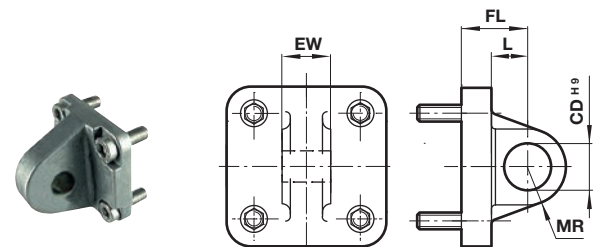
Piston rod clevis F
Conforms to DIN ISO 8140



Standard

Ø	KK	CE	Ø CK h11	CL	CM	ER	LE	RK	kg	Model (F)
32	M10x1,25	40	10	20	10	16	20	28	0,09	QM/8025/25
40	M12x1,25	48	12	24	12	19	24	32	0,13	QM/8040/25
50/63	M16x1,5	64	16	32	16	25	32	41,5	0,33	QM/8050/25
80/100	M20x1,5	80	20	40	20	32	40	50	0,67	QM/8080/25
Corrosion protected version										
32	M10x1,25	40	10	20	10	16	20	28	0,09	PVQM/8032/25
40	M12x1,25	48	12	24	12	19	24	32	0,13	PVQM/8040/25
50/63	M16x1,5	64	16	32	16	25	32	41,5	0,33	PVQM/8050/25
80/100	M20x1,5	80	20	40	20	32	40	50	0,67	PVQM/8080/25
Stainless steel										
32	M10x1,25	40	10	20	10	16	20	28	0,09	KQM/55433/25
40	M12x1,25	48	12	24	12	19	24	32	0,13	KQM/55441/25
50/63	M16x1,5	64	16	32	16	25	32	41,5	0,33	KQM/55451/25
80/100	M20x1,5	80	20	40	20	32	40	50	0,67	KQM/8080/25

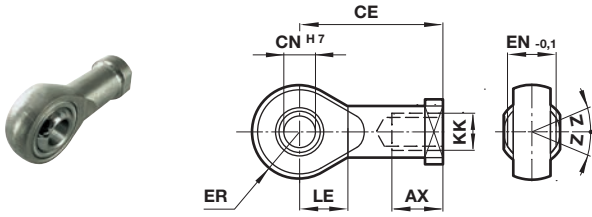
Rear eye R
Conforms to ISO 15552, type MP4



Standard

Ø	Ø CD H9	EW	FL	L	MR	kg	Model (R)
32	10	25,8	22	13	9	0,09	QA/8032/27
40	12	27,8	25	16	12	0,11	QA/8040/27
50	12	31,7	27	17	12	0,17	QA/8050/27
63	16	39,7	32	22	15	0,24	QA/8063/27
80	16	49,7	36	22	15	0,37	QA/8080/27
100	20	59,7	41	27	20	0,59	QA/8100/27
Corrosion protected version							
32	10	25,8	22	13	9	0,09	PVQA/8032/27
40	12	27,8	25	16	12	0,11	PVQA/8040/27
50	12	31,7	27	17	12	0,17	PVQA/8050/27
63	16	39,7	32	22	15	0,24	PVQA/8063/27
80	16	49,7	36	22	15	0,37	PVQA/8080/27
100	20	59,7	41	27	20	0,59	PVQA/8100/27

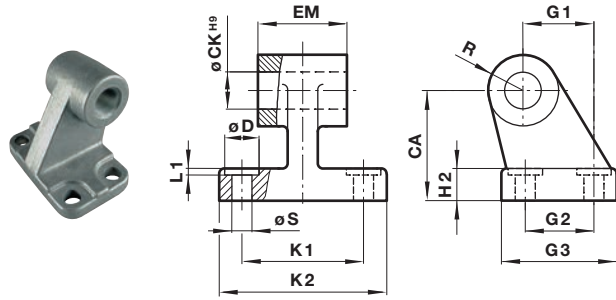
Universal piston rod eye UF
Conforms to DIN ISO 8139



Standard

Ø	Thread KK	AX	CE	Ø CN H7	EN -0,1	ER	LE	Z	kg	Model (UF)
32	M10x1,25	20	43	10	14	14	15	13°	0,09	QM/8025/32
40	M12x1,25	22	50	12	16	16	17	13°	0,13	QM/8040/32
50/63	M16x1,5	28	64	16	21	21	22	15°	0,33	QM/8050/32
80/100	M20x1,5	33	77	20	25	25	26	15°	0,67	QM/8080/32
Corrosion protected version										
32	M10x1,25	20	43	10	14	14	15	13°	0,09	PVQM/8025/32
40	M12x1,25	22	50	12	16	16	17	13°	0,13	PVQM/8040/32
50/63	M16x1,5	28	64	16	21	21	22	15°	0,33	PVQM/8050/32
80/100	M20x1,5	33	77	20	25	25	26	15°	0,4	PVQM/8080/32
Stainless steel										
32	M10x1,25	20	43	10	14	14,5	14	13°	0,07	KQM/8032/32
40	M12x1,25	22	50	12	16	16,5	16	13°	0,11	KQM/8040/32
50/63	M16x1,5	28	64	16	21	21,5	21	15°	0,21	KQM/8050/32
80/100	M20x1,5	33	77	20	25	25,5	25	15°	0,38	KQM/8080/32

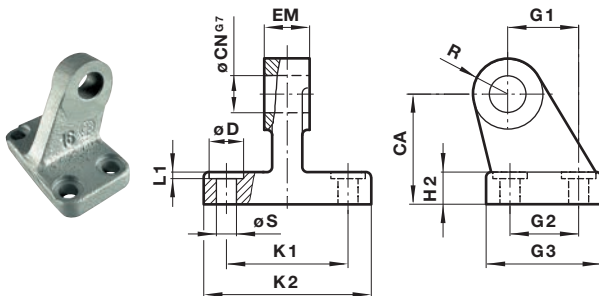
Wide hinge SW
Conforms to ISO 15552, type AB7



Standard

Ø	CA	Ø CK H9	Ø D	H2	EM	G 1	G 2	G 3	K 1	K 2	L1	R	Ø S	kg	Model (SW)
32	32	10	11	7	25,5	21	18	31	38	50	1,6	10	6,6	0,05	MP/19493
40	36	12	11	9	27,5	24	22	35	41	54	1,6	11	6,6	0,07	MP/19494
50	45	12	15	11	31,5	33	30	45	50	65	1,6	13	9	0,14	MP/19495
63	50	16	15	12	39,5	37	35	50	52	67	1,6	15	9	0,18	MP/19496
80	63	16	18	14	49,5	47	40	60	66	84	2,5	15	11	0,28	MP/19497
100	71	20	18	15	59,5	55	50	70	76	94	2,5	19	11	0,42	MP/19498
Corrosion protected version															
32	32	10	11	8	26,5	21	18	31	38	51	1,6	10	6,6	0,05	MP/40459
40	36	12	11	10	28,5	24	22	35	41	54	1,6	11	6,6	0,07	MP/40460
50	45	12	15	12	32,5	33	30	45	50	65	1,6	13	9	0,14	MP/40461
63	50	16	15	12	40,5	37	35	50	52	67	1,6	15	9	0,18	MP/40462
80	63	16	18	14	50,5	47	40	60	66	86	2,5	15	11	0,28	MP/40463
100	71	20	18	15	60,5	55	50	70	76	96	2,5	19	11	0,42	MP/40464
Stainless steel															
32	32	10	11	8	26	21	18	31	38	51	1,6	10	6,6	0,15	MP/72288
40	36	12	11	10	28	24	22	35	41	53	1,6	11	6,6	0,21	MP/72289
50	45	12	15	12	32	33	30	45	50	65	1,6	13	9	0,41	MP/72290
63	50	16	15	12	40	37	35	50	52	67	1,6	15	9	0,53	MP/72291
80	63	16	18	14	50	47	40	60	66	86	2,5	15	11	0,82	MP/72292
100	71	20	18	15	60	55	50	70	76	96	2,5	19	11	1,22	MP/72293

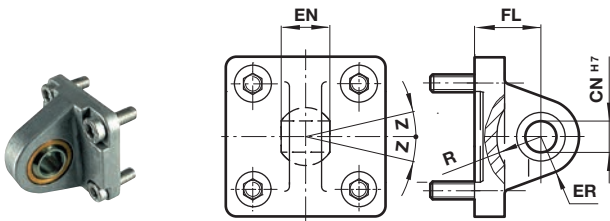
Narrow hinge SS



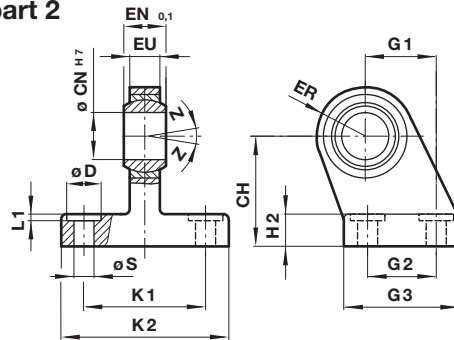
Standard

Ø	CA	Ø CN G7	Ø D	H2	EM	G 1	G 2	G 3	K 1	K 2	L1	R	Ø S	kg	Model (SS)
32	32	10	11	8	10	21	18	31	38	51	1,6	10	6,6	0,15	MP/19931
40	36	12	11	10	12	24	22	35	41	54	1,6	11	6,6	0,20	MP/19932
50	45	16	15	12	16	33	30	45	50	65	1,6	13	9	0,48	MP/19933
63	50	16	15	12	16	37	35	50	52	67	1,6	15	9	0,50	MP/19934
80	63	20	18	14	20	47	40	60	66	86	2,5	15	11	0,75	MP/19935
100	71	20	18	15	20	55	50	70	76	96	2,5	19	11	1,20	MP/19936

**Universal rear eye UR
Conforms to ISO 15552, type MP6**

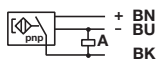
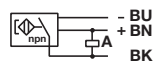
 Dimensions in mm
Projection/First angle

Standard

Ø	Ø CN H7	EN	ER	FL	R	Z	kg	Model (UR)
32	10	14	16	22	14,5	13°	0,15	QA/8032/33
40	12	16	18	25	18	13°	0,25	QA/8040/33
50	16	21	21	27	19	15°	0,40	QA/8050/33
63	16	21	23	32	24	15°	0,55	QA/8063/33
80	20	25	28	36	24	15°	0,90	QA/8080/33
100	20	25	30	41	29	15°	1,50	QA/8100/33
Corrosion protected version								
32	10	14	16	22	14,5	13°	0,15	PVQA/8032/33
40	12	16	19	25	18	13°	0,25	PVQA/8040/33
50	16	21	21	27	19	13°	0,4	PVQA/8050/33
63	16	21	24	32	24	15°	0,55	PVQA/8063/33
80	20	25	28	36	24	15°	0,9	PVQA/8080/33
100	20	25	30	41	29	15°	1,5	PVQA/8100/33

**Swivel hinge US
Conforms to VDMA 24562 part 2**

Standard

Ø	CH	Ø CN H7	Ø D	EN -0,1	ER	EU	G1	G2	G3	H2	K1	K2	L1	Ø S	Z	kg	Model (US)
32	32	10	11	14	16	10,5	21	18	31	10	38	51	1,6	6,6	13°	0,19	M/P40310
40	36	12	11	16	18	12	24	22	35	10	41	54	1,6	6,6	13°	0,24	M/P40311
50	45	16	15	21	21	15	33	30	45	12	50	65	1,6	9	13°	0,46	M/P40312
63	50	16	15	21	23	15	37	35	50	12	52	67	1,6	9	15°	0,59	M/P40313
80	63	20	18	25	28	18	47	40	60	14	66	86	2,5	11	15°	1,03	M/P40314
100	71	20	18	25	30	18	55	50	70	15	76	96	2,5	11	15°	1,40	M/P40315

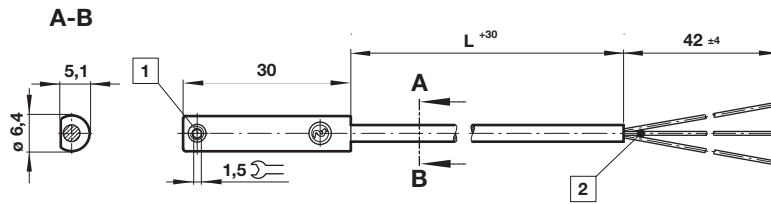
Technical data - Solid state - additional informations see data sheet N/en 4.3.007

Symbol	Voltage (V d.c.)	Current maximum (mA)	Function	Operating temperature (°C)	LED	Protection class	Plug	Cable length (m)	Cable type	Weight (g)	Model
	10 ... 30	150	PNP	-40 ... +80	•	IP67	—	2, 5 or 10	PVC 3 x 0,12	37	M/50/EAP/*V
	10 ... 30	150	NPN	-40 ... +80	•	IP67	—	2, 5 or 10	PVC 3 x 0,12	37	M/50/EAN/*V

* Insert cable length; *1) Plug-in connector below; Color code: BK = black, BN = brown, BU = blue

Drawings

M/50/EAP/*V,
M/50/EAN/*V
Cable length L = 2, 5 or 10 m



Dimensions in mm
Projection/First angle



- 1 Fixing screw
- 2 Color code: BK = black; BN = brown; BU = blue

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

»Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Outstroke