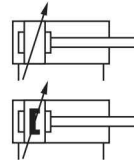


- > Ø 32 ... 320 mm
- > Comprehensive range for the utmost versatility
- > Conforms to ISO 15552 (ISO 6431, VDMA 24562 and NFE 49-003-1)
- > High performance, stability and reliability ideal for the demands of today
- > Supplied complete with piston rod locknut
- > Comprehensive range of standard mountings



Technical features

Medium:

Compressed air, filtered, lubricated or non-lubricated

Standard:

ISO 15552

Operation:

RA/8000: Double acting, adjustable cushioning
RA/8000/M: Double acting, adjustable cushioning and magnetic piston

Operating pressure:

Ø 32 ... 200 mm
1 ... 16 bar (14 ... 232 psi)
Ø 250 & 320 mm
1 ... 10 bar (14 ... 145 psi)

Ports:

G1/8 ... G1

Cylinder diameters:

32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320 mm

Strokes:

See page below

Non-standard strokes:

Available (10 ... 3000 mm)

Operating temperature:

Ø 32 ... 125 mm
-20 ... +80°C max. (-4 ... +176 °F)
Ø 160 ... 320 mm
-10 ... +80°C max. (+14 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Barrel: Anodised aluminium
End covers: Pressure diecast aluminium (Ø 200 ... 320 mm gravity cast aluminium)
Piston rod: Stainless steel (martensitic)
Piston rod seals: PUR (Ø 125 ... 320 mm NBR)
Piston seals: PUR (Ø 125 ... 320 mm NBR)
'O'-rings: NBR

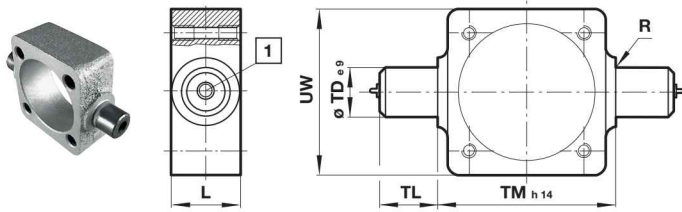
Technical data

Cylinder Ø (mm)	32	40	50	63	80	100	125	160	200	250	320
Port size	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2	G3/4	G3/4	G1	G1
Piston rod Ø (mm)	12	16	20	20	25	25	32	40	40	50	63
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	M36 x 2	M36 x 2	M42 x 2	M48 x 2
Cushion length mm	19	22	24	24	27	34	41	45	45	60	65
Initial cushion volume (cm ³)	12,3	20,7	36	64	116	242	451	816	1324	2900	5200
Theoretical thrusts at 6 bar outstroke (N)	482	754	1178	1870	3016	4710	7363	12064	18840	29436	48228
Theoretical thrusts at 6 bar instroke (N)	414	633	990	1680	2722	4416	6882	11310	18090	28236	47292
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	3,44	5,63
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	3,3	5,41

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	•	•	•	•	•	•	•	•	•	•	•
160	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•
250	•	•	•	•	•	•	•	•	•	•	•
320	•	•	•	•	•	•	•	•	•	•	•

Centre trunnion – H
Conforms to ISO 15552, type MT4

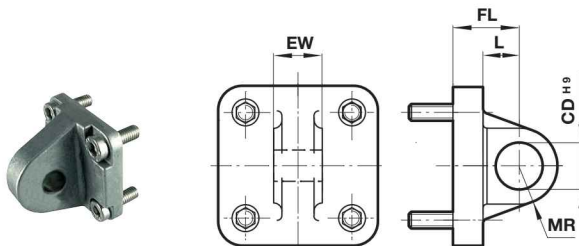


1 Grease nipple up to Ø 125 mm

Ø	L	R	ØTD e9	TL	TM h14	UW	XV min.	XV max.	kg	Model (H)
32	20	1	12	12	50	50	66	80	0,16	QA/8032/28
40	24	1,6	16	16	63	58	76	89	0,35	QA/8040/28
50	28	1,6	16	16	75	70	82	98	0,65	QA/8050/28
63	28	1,6	20	20	90	80	88	107	0,85	QA/8063/28
80	28	1,6	20	20	110	100	97	123	1,2	QA/8080/28
100	38	2	25	25	132	126	107	128	2,3	QA/8100/28
125	50	2	25	25	160	152	136	154	3,3	QM/8125/28
160	50	2,5	32	32	200	192	155	185	5,3	QM/8160/28
200	50	2,5	32	32	250	240	170	200	9,4	QM/8200/28
250	60	3,2	40	40	320	318	193	217	18	QM/8250/28
320	70	3,2	50	50	400	400	215	245	30	QM/8320/28

Note: Style 'H': These mountings are only supplied assembled complete with the cylinder. Unless otherwise specified, units will be supplied with dimension 'XV' plus half the stroke length. 'XV' = Distance from the piston rod shoulder to the centre of the mounting.

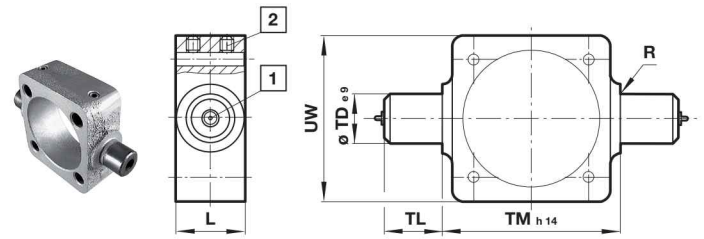
Rear eye R
Conforms to ISO 15552, type MP4



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
125	25	69,7	50	33	25	3,20	QM/8125/27
160	30	89,7	55	35,5	30	6,1	QM/8160/27
200	30	89,7	60	37	30	6,8	QM/8200/27

Adjustable trunnion mounting UH
Conforms to ISO 15552, type MT4

Dimensions in mm
Projection/First angle



1 Grease nipple up to Ø 125 mm

2 Locking screws

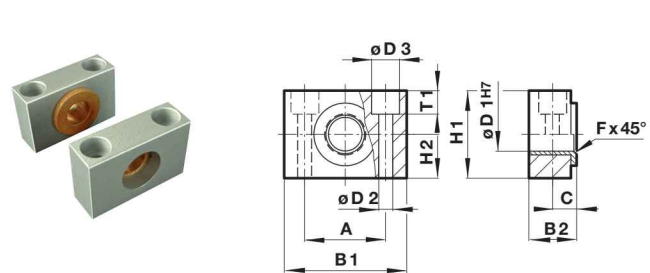
Torque max: Ø 32 & 40 mm = 6 Nm; Ø 50 & 63 mm = 10 Nm;
Ø 80 & 100 mm = 15 Nm; Ø 125 mm = 25 Nm; Ø 160 & 200 mm = 40 Nm

Ø	L	R	ØTD e9	TL	TM h14	UW	XV min.	XV max.	kg	Model (UH)
32	20	1	12	12	50	50	66	80	0,16	QA/8032/40
40	24	1,6	16	16	63	58	76	89	0,35	QA/8040/40
50	28	1,6	16	16	75	70	82	98	0,65	QA/8050/40
63	28	1,6	20	20	90	80	88	107	0,85	QA/8063/40
80	28	1,6	20	20	110	100	97	123	1,2	QA/8080/40
100	38	2	25	25	132	126	112	128	2,3	QA/8100/40
125	50	2	25	25	160	152	136	154	3,3	QM/8125/40
160	50	2,5	32	32	200	192	155	185	5,3	QM/8160/40
200	50	2,5	32	32	250	240	170	200	9,4	QM/8200/40

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

Unless otherwise specified, units will be supplied with dimension 'XV' plus half the stroke length. 'XV' = Distance from the piston rod shoulder to the centre of the mounting.

Trunnion support S
Conforms to ISO 15552, type AT4



Ø	A	B 1	B 2	C	Ø D1 H7	Ø D2	Ø D3	Fx 45°	H 1	H 2	T1	kg	Model (S)
32	32	46	18	10,5	12	6,6	11	1	30	15	6,8	0,10	QA/8032/41
40/50	36	55	21	12	16	9	15	1,6	36	18	9	0,14	QA/8040/41
63/80	42	65	23	13	20	11	18	1,6	40	20	11	0,18	QA/8063/41
100/125	50	75	28,5	16	25	14	20	2	50	25	13	0,34	QA/8100/41
160/200	60	92	39	21,5	32	18	26	2,5	60	25	15,5	1,9	QA/8160/41