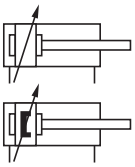
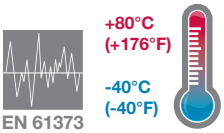
- > Ø 1 1/4 ... 14 inch
- > Large range of bore sizes – ideal for a wide variety of industrial applications
- > Long established design – proven ruggedness and reliability
- > Extensive choice of mountings
- > Adjustable cushioning
- > Magnetic and non-magnetic piston
- > Shock and vibration tested to EN 61373, Category 1, class A and B





Technical features

Medium:
Compressed air, filtered, lubricated or non-lubricated
Operation:
LRM/900: Double acting, adjustable cushioning (ø 5 ... 14" only)
LRM/900/M: Double acting, adjustable cushioning and magnetic piston (ø 1 1/4 ... 4" only)

Operating pressure:
2 ... 10 bar (29 ... 145 psi)
Port size:
G1/8 ... G1
Cylinder diameters:
1 1/4, 1 3/4, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 or 14"
Strokes:
See page below
Non-standard strokes:
Available, 15 x cylinder ø maximum

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:
Barrel: anodized aluminium except Ø 14 inch which is steel
End cover: diecast aluminium
Bearing housing: brass for 1 1/4 inch to 3 inch (Ø 4 inch to 14 inch aluminium)
Piston: aluminium
Piston rod and tie rods: stainless steel (Martensitic)
Seals: NBR
O-rings: NBR

Technical data

Cylinder Ø (inch)	1 1/4	1 3/4	2	2 1/2	3	4	5	6	8	10	12	14
Port size	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 3/8	G 1/2	G 1/2	G 3/4	G 1	G 1	G 1
Piston rod Ø (mm)	12	16	20	25	25	32	1 1/2	1 1/2	1 3/4	2 1/4	2 1/4	2 1/4
Piston rod thread	M10 x 1,5	M12 x 1,75	M16 x 2	M22 x 2,5	M22 x 2,5	M24 x 3	M30 x 3,5	M30 x 3,5	M36 x 4	M48 x 5	M48 x 5	M48 x 5
Cushion length (mm)	20	20	20	21	29	38	29	32	44	50	50	50
Initial cushion volume (cm^3)	12	25	29	48	109	265	315	538	1428	2754	4257	6725
Theoretical thrusts at 6 bar outstroke (N)	482	933	1225	1930	2721	4902	7600	10887	19419	30402	43837	59723
Theoretical thrusts at 6 bar instroke (N)	406	812	1055	1626	2417	4420	6920	10207	18486	28871	42306	58192
Air consumption at 6 bar outstroke (l/cm)	0,056	0,109	0,143	0,225	0,318	0,572	0,887	1,270	2,266	3,547	5,114	6,968
Air consumption at 6 bar instroke (l/cm)	0,047	0,095	0,124	0,190	0,282	0,516	0,807	1,191	2,157	3,368	4,936	6,789

Standard strokes

Cylinder Ø (inch)	Stroke length (mm) 50	75	100	150	200	225	250	300
1 1/4	•	•	•	•	•	•	•	•
1 3/4	•	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•	•
2 1/2	•	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•
14	•	•	•	•	•	•	•	•

Option selector

L★M/9★★★/★★/★★★★

Piston rod material	Substitute
Stainless steel martensitic	**R**
Stainless steel austenitic	**S**

Cylinder Ø (inch)	Substitute
1 1/4	**125**
1 3/4	**175**
2	**20**
2 1/2	**25**
3	**30**
4	**40**
5	**50**
6	**60**
8	**80**
10	**100**
12	**120**
14	**140**

Strokes (mm)	
2500 maximum	
Variants (Ø 5 ... 14" (non-magnetic piston)	**Substitute**
Standard	**None**
Double ended piston rod	**J**
Variants (Ø 1 1/4 ... 4" (magnetic piston)	**Substitute**
Standard	**M**
Double ended piston rod	**JM**

Note: If option is not required, disregard option position within part number eg. LRM/920/M/100.

Mountings and service kit

Model	B	B & G	C	D	F	G	H	K
								
Cyl. Ø	Page 5	Page 5	Page 6	Page 7	Page 9	Page 5	Page 8	Page 7
1 1/4	M/P6938	QM/819	QM/754	M/P6937	QM/402	M/P6938	M/P14001	M/P6937
1 3/4	QM/888	QM/1181	QM/753	M/P7457	QM/404	QM/986	M/P11224	M/P7457
2	QM/875	QM/1182	QM/752	M/P10228	QM/405	QM/871	M/P8635	QM/962
2 1/2	QM/876	QM/1184	QM/748	M/P10311	QM/407	QM/877	M/P8636	QM/964
3	QM/878	QM/1185	QM/983	M/P10229	QM/407	QM/984	M/P8637	QM/966
4	QM/887	QM/1187	QM/982	QM/758	QM/408	QM/987	M/P8638	QM/758
5	QM/886	QM/1188	QM/981	QM/759	QM/409	QM/988	M/P8639	QM/759
6	QM/884	QM/1189	QM/826	QM/761	QM/409	QM/884	M/P8640	QM/761
8	QM/883	QM/1190	QM/825	QM/762	QM/410	QM/883	M/P8645	QM/762
10	QM/882	–	QM/824	–	QM/411	QM/882	M/P8667	–
12	QM/889	–	QM/756	–	QM/411	QM/889	M/P8670	–
14	QM/741	–	QM/755	–	QM/411	QM/741	M/P11819	–

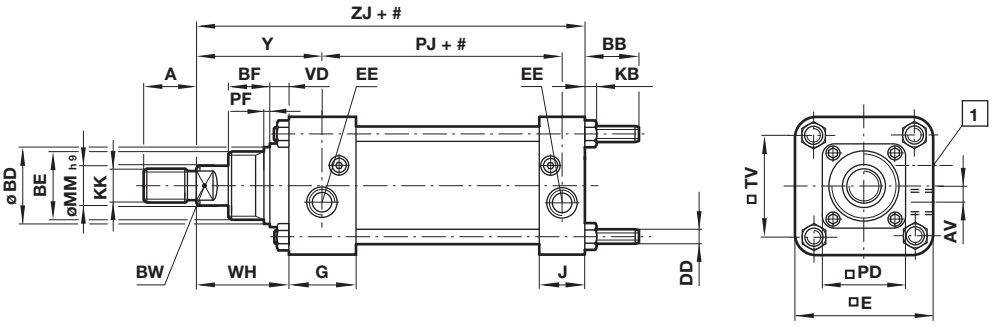
Model	L	M	N	R	UF	UR	Service kit
							
Cyl. Ø	Page 7	Page 8	Page 7	Page 9	Page 10	Page 10	
1 1/4	QM/394	QM/393	M/P11716	M/P11966	QM/1141	QM/1161	QM/9125/00
1 3/4	QM/922	QM/923	M/P7955	M/P11219	QM/1142	QM/1162	QM/9175/00
2	QM/909	QM/908	M/P9969	M/P10349	QM/1143	QM/1163	QM/920/00
2 1/2	QM/910	QM/901	M/P9905	M/P10351	QM/1144	QM/1164	QM/925/00
3	QM/911	QM/901	M/P9905	M/P10353	QM/1144	QM/1165	QM/930/00
4	QM/912	QM/902	QM/1475*	QM/763	QM/1146	QM/1166	QM/940/00
5	QM/913	QM/903	QM/997*	QM/764	–	QM/950/33	LQM/950/00
6	QM/914	QM/903	QM/997*	QM/765	–	QM/960/33	LQM/960/00
8	QM/915	QM/904	-	QM/766	–	QM/980/33	LQM/980/00
10	QM/917	QM/919	-	QM/767	–	–	LQM/9100/00
12	QM/918	QM/919	-	QM/768	–	–	LQM/9120/00
14	QM/924	QM/919	-	QM/769	–	–	LQM/9140/00

Accessories
Magnetically operated switches

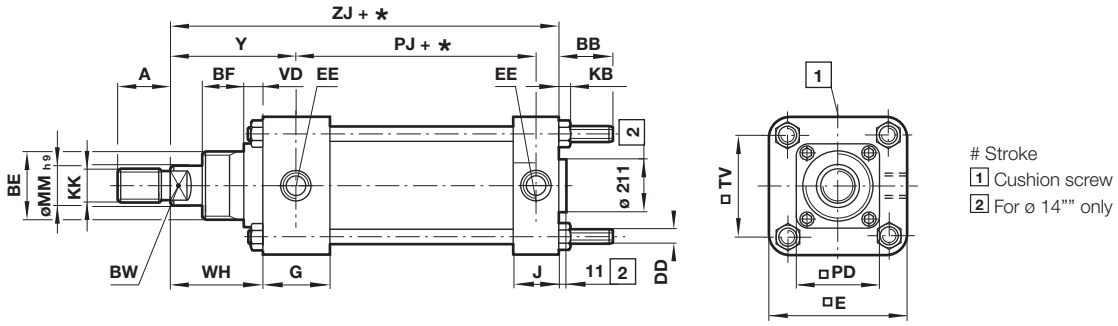
	M/50/**	Switch mounting brackets for M/50
		
Cyl. Ø	Page 11	23 Page 11
1 1/4		QM/27/2/1
1 3/4		QM/27/2/1
2		QM/27/2/1
2 1/2		QM/27/2/1
3		QM/27/2/1
4		QM/27/2/1

Basic dimensions
LRM/900/M (Ø 1 1/4 ... 4")

Dimensions in mm
Projection/First angle



LRM/900 (Ø 5 ... 14")



Stroke
1 Cushion screw
2 For ø 14"" only

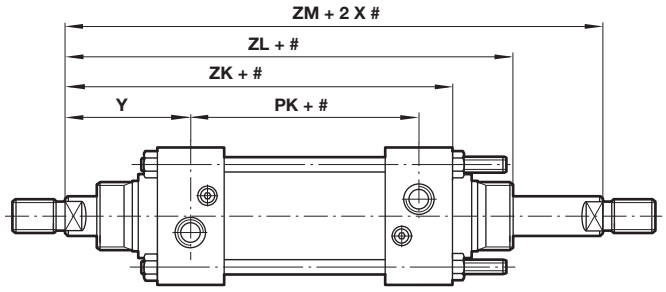
Ø inch	A	AV	BB	Ø BD	BE	BF	BW	DD	□ E	EE	G	J	KB	KK	Ø MM h9
1 1/4	14,5	6	22	22	M 22 x 2	19	10	M 6	45	G 1/8	25	22	5	M 10	12
1 3/4	19	8,5	26,5	27	M 27 x 2	19	12	M 8	57	G 1/4	29	25	6,5	M 12	16
2	24	7,5	25	34	M 33 x 2	20	17	M 8	63,5	G 1/4	29,5	24	6,5	M 16	20
2 1/2	33,5	8	25	40	M 39 x 2	25,5	22	M 8	74,5	G 3/8	30	25	6,5	M 22	25
3	33,5	7	33	40	M 39 x 2	25,5	22	M 10	91	G 3/8	35	35	8	M 22	25
4	38	12	32	–	Ø 43	–	27	M 10	114	G 3/8	35	35	8	M 24	32
5	47,5	–	48	–	Ø 58,5	–	Ø 10	M 12	140	G 1/2	41	41	10	M 30	1 1/2 inch
6	47,5	–	49,5	–	Ø 58,5	–	Ø 10	M 16	167	G 1/2	41	41	13	M 30	1 1/2 inch
8	57	–	53,5	–	Ø 63,5	–	Ø 10	M 18	219	G 3/4	52	52	15	M 36	1 3/4 inch
10	76	–	70,5	–	Ø 77	–	Ø 10	M 24	270	G 1	60	60	19	M 48	2 1/4 inch
12	76	–	70,5	–	Ø 77	–	Ø 10	M 24	321	G 1	60	60	19	M 48	2 1/4 inch
14	76	–	93	–	Ø 89	–	Ø 10	M 30	375	G 1	60	60	24	M 48	2 1/4 inch

Ø inch	□ PD	PF	PJ	□ TV	VD	WH	Y	ZJ	at 0 mm	per 25 mm	Model non-magnetic piston	Model magnetic piston
1 1/4	–	–	69	30,5	8	37	49,5	125,5	0,47 kg	0,06 kg	—	LRM/9125/M/*
1 3/4	–	–	70	43	8	37	52	132,5	0,91 kg	0,10 kg	—	LRM/9175/M/*
2	–	3	67	47,5	9,5	46	60,5	137	1,15 kg	0,13 kg	—	LRM/920/M/*
2 1/2	–	3	73	55,5	8	53	68,5	152,5	1,93 kg	0,17 kg	—	LRM/925/M/*
3	59	3	95	66,5	13	56,5	71	179,5	3,02 kg	0,20 kg	—	LRM/930/M/*
4	63,5	–	97	89	13	64	77,5	187,5	4,01 kg	0,26 kg	—	LRM/940/M/*
5	82,5	–	109	108	18	83	101	228,5	9,10 kg	0,55 kg	LRM/950/*	—
6	82,5	–	115,5	128,5	18	83	101	235	12,80 kg	0,80 kg	LRM/960/*	—
8	89	–	145,5	168,5	19	86	108,5	276	23,00 kg	1,00 kg	LRM/980/*	—
10	111	–	173,5	209,5	22	109	139,5	343	73,40 kg	1,90 kg	LRM/9100/*	—
12	111	–	173,5	246	22	109	139,5	343	98,60 kg	2,10 kg	LRM/9120/*	—
14	–	–	187,5	292	32	128	153,5	366,5	99,80 kg	3,00 kg	LRM/9140/*	—

* Please insert standard stroke length.

RM/900/J, RM/900/JM – Cylinder with double ended piston rod

Dimensions in mm
Projection/First angle

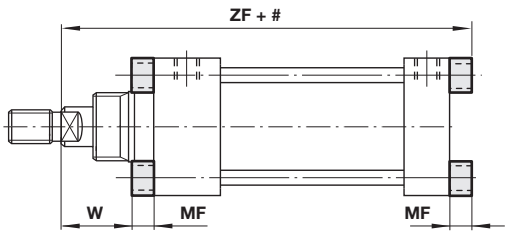


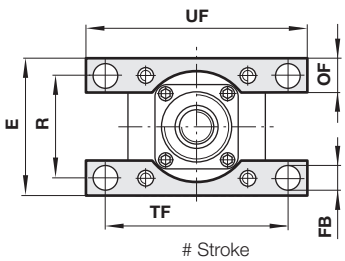
Stroke

Ø inch	PK	ZK	ZL	ZM	Y	at 0 mm	per 25 mm	Model non-magnetic piston	Model magnetic piston
1 1/4	66,5	128,5	155,5	165,5	49,5	0,65 kg	0,08 kg	—	LRM/9125/JM/*
1 3/4	69,5	136,5	163,5	173,5	52	1,21 kg	0,13 kg	—	LRM/9175/JM/*
2	67	142,5	172	187,5	60,5	1,66 kg	0,19 kg	—	LRM/920/JM/*
2 1/2	72,5	157	190,5	210	68,5	2,82 kg	0,27 kg	—	LRM/925/JM/*
3	95	179,5	218	237	71	3,86 kg	0,30 kg	—	LRM/930/JM/*
4	96,5	187,5	232	251,5	77,5	5,31 kg	0,41 kg	—	LRM/940/JM/*
5	109	228,5	292	311,5	101	11,85 kg	0,77 kg	LRM/950/J/*	—
6	115,5	235	298,5	318	101	15,60 kg	1,20 kg	LRM/960/J/*	—
8	145,5	276	339,5	362	108,5	26,91 kg	1,30 kg	LRM/980/J/*	—
10	173,5	343	419	452	139,5	81,10 kg	2,39 kg	LRM/9100/J/*	—
12	173,5	343	419	452	139,5	105,30 kg	2,59 kg	LRM/9120/J/*	—
14	187,5	366,5	462	494,5	153,5	109,00 kg	3,30 kg	LRM/9140/J/*	—

* Please insert standard stroke length.

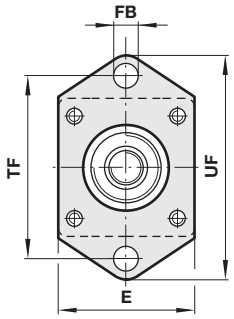
Mountings
Front flange – B or G
Front and rear flange – BG





Stroke

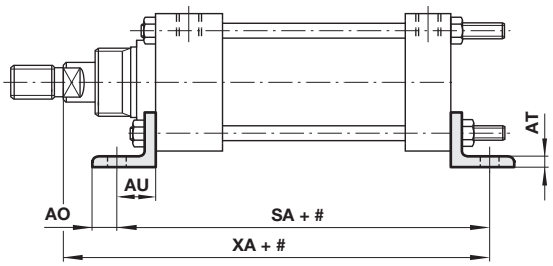
For 9125 only

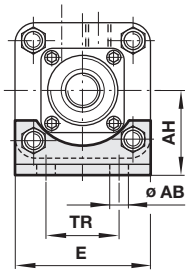


Ø inch	E	FB	MF	OF	R	TF	UF	W	ZF	Weight	Model B	Model BG	Model G
1 1/4	45	8	9,5	-	-	63,5	79	27,5	135	0,15 kg	M/P6938	QM/819	M/P6938
1 3/4	59	9	10	16	43	81	98,5	27	142,5	0,20 kg	QM/888	QM/1181	QM/986
2	64	9	10	16	47,5	85,5	105	35,5	147	0,20 kg	QM/875	QM/1182	QM/871
2 1/2	75,5	9	10	20	55,5	93,5	113	43	162,5	0,25 kg	QM/876	QM/1184	QM/877
3	88,5	11,5	16	22	66,5	111	133,5	41,5	195,5	0,45 kg	QM/878	QM/1185	QM/984
4	121	14	16	32	89	146	178	48	203,5	1,00 kg	QM/887	QM/1187	QM/987
5	148	14,5	20	40	108	171,5	203	63	248,5	1,50 kg	QM/886	QM/1188	QM/988
6	168,5	18	20	40	128,5	205	243	63	255	2,40 kg	QM/884	QM/1189	QM/884
8	218,5	22	25	50	168	263,5	314,5	61	301	5,50 kg	QM/883	QM/1190	QM/883
10	274,5	26	30	65	209,5	333,5	397	79	373	12,00 kg	QM/882	—	QM/882
12	311	26	30	65	246	384	448	79	373	14,00 kg	QM/889	—	QM/889
14	368	33	38	76	292	457	533	90	405	23,00 kg	QM/741	—	QM/741

Foot mounting – C

Dimensions in mm
Projection/First angle

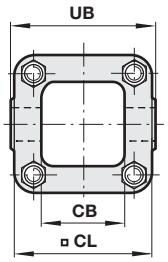


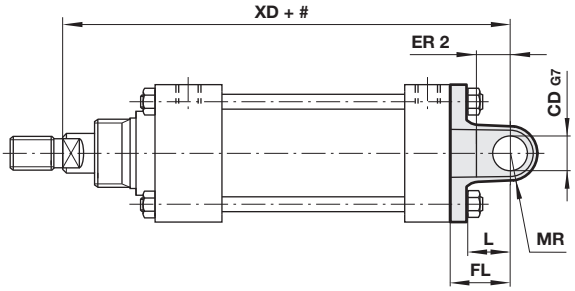


Stroke

Ø inch	Ø AB	AH	AO	AT	AU	E	SA	TR	XA	Weight	Model
1 1/4	6,8	24	6,5	6,5	14,5	45	117	—		0,06 kg	QM/754
1 3/4	10,5	37,5	11	5	19	57	133,5	—		0,20 kg	QM/753
2	13	40	11	5	19	63	129,5	—	156	0,20 kg	QM/752
2 1/2	13	46,5	11	5	19	74	137,5	30	171,5	0,25 kg	QM/748
3	13	52,5	11	5	19	91	160	28,5	198,5	0,30 kg	QM/983
4	13,5	70	24,5	8	25,5	114	174	51	212,5	0,65 kg	QM/982
5	17,5	82,5	21,5	8	28,5	140	202,5	57	257	1,00 kg	QM/981
6	17,5	99,5	25	10	35	167	222	70	270	2,50 kg	QM/826
8	17,5	122	22	10	38	219	266	82,5	314	3,50 kg	QM/825
10	26	159	46	15	54	270	341,5	114,5	397	8,00 kg	QM/824
12	26	177	46	15	54	320	341,5	139,5	397	9,50 kg	QM/756
14	33,5	212,5	33,5	15	66,5	375	372	159	433,5	20,50 kg	QM/755

Rear clevis – D



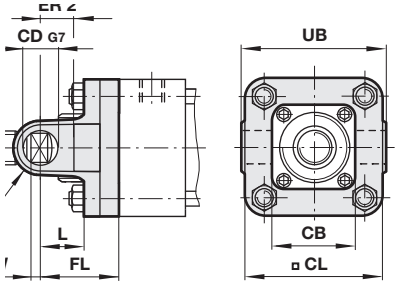


Stroke

Ø inch	CB	Ø CD G7	□ CL	ER 2	FL	L	MR	UB	XD	Weight	Model
1 1/4	25,4	6	44,5	9,5	14,5	9,5	6,5	—	139,5	0,08 kg	M/P6937
1 3/4	34,9	12	57	14,5	19	14,5	10	—	151,5	0,15 kg	M/P7457
2	34,9	16	62,5	20,5	28,5	20,5	13	—	165,5	0,25 kg	M/P10228
2 1/2	42,9	16	74	20,5	28,5	20,5	13	—	181	0,25 kg	M/P10311
3	44,5	20	88	25,5	35	25,5	14	—	214,5	0,75 kg	M/P10229
4	69,9	22	114,5	36,5	57	38	19	122,5	244,5	1,25 kg	QM/758
5	92,1	25	139,5	32	70	44,5	24	152,5	298,5	2,50 kg	QM/759
6	106,4	32	166,5	35	76	49	29	181	311	3,50 kg	QM/761
8	122,2	38	217,5	38	85,5	57	38	237	362	7,00 kg	QM/762

Front clevis – K

Dimensions in mm
Projection/First angle

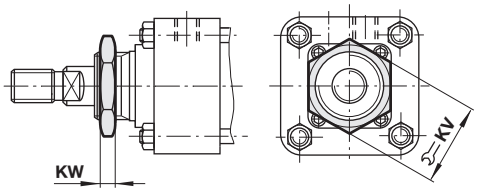


Ø inch	CB	Ø CD G7	□ CL	ER 2	FL	L	MR	UB	XW	Weight	Model
1 1/4	25,4	6	44,5	9,5	14,5	9,5	6,5	—	22,5	0,08 kg	M/P6937
1 3/4	34,9	12	57	14,5	19	14,5	10	—	18	0,15 kg	M/P7457
2	34,9	16	62,5	20,5	28,5	20,5	13	—	7,5	0,25 kg	QM/962
2 1/2	42,9	16	74	20,5	28,5	20,5	13	—	16,5	0,25 kg	QM/964
3	44,5	20	88	25,5	35	25,5	14	—	6,5	0,75 kg	QM/966
4	69,9	22	114,5	36,5	57	38	19	122,5	7	1,25 kg	QM/758
5	92,1	25	139,5	32	70	44,5	24	152,5	13	2,50 kg	QM/759
6	106,4	32	166,5	35	76	49	29	181	6,5	3,50 kg	QM/761
8	122,2	38	217,5	38	85,5	57	38	237	0	7,00 kg	QM/762

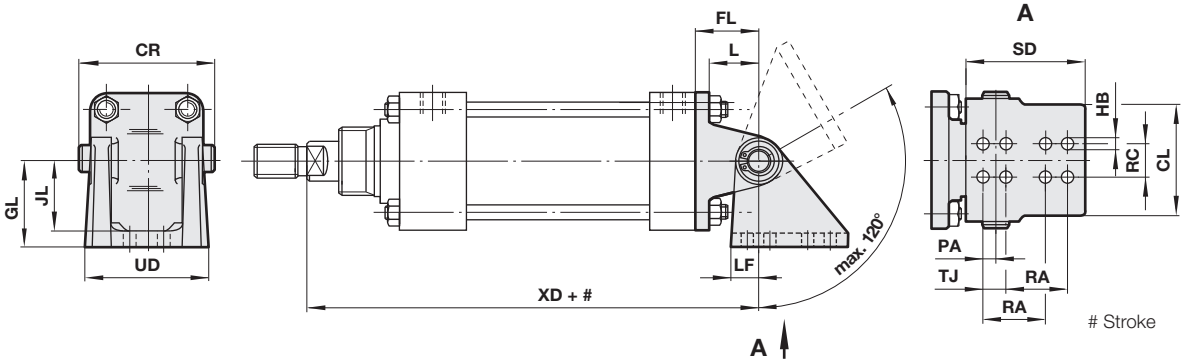
Nose mounting – N

Ø inch	KV	KW	Weight	Model
1 1/4	28	6,5	0,02 kg	M/P11716
1 3/4	38	8	0,04 kg	M/P7955
2	43	8	0,04 kg	M/P9969
2 1/2	48	8	0,04 kg	M/P9905
3	48	8	0,04 kg	M/P9905
4	57	8	0,06 kg	QM/1475*
5	70	12,5	0,18 kg	QM/997*
6	70	12,5	0,18 kg	QM/997*

* These cannot be supplied separately. If a spare Nose Mounting is required, specify basic cylinder reference with 'Q' prefix and -/06 suffix, e.g. QM/950/N/06



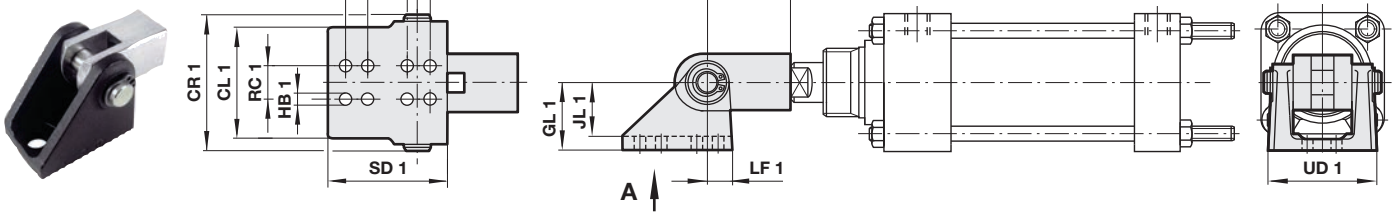
Rear hinge mounting – L



Ø inch	CL	CR	FL	GL	Ø HB	JL	L	LF	PA	RA	RC	SD	TJ	UD	XD	Weight	Model
1 1/4	31	39,5	25,5	28,5	7,2	20,5	19	9,5	1,5	25,5	—	41,5	—	—	151	0,25 kg	QM/394
1 3/4	32	44,5	32	32	8,7	25,5	24	13	5	32	—	47,5	—	—	164,5	1,10 kg	QM/922
2	60	73	35	47,5	8,5	39,5	25,5	15,5	6,5	47,5	19	66,5	—	68,5	172	1,20 kg	QM/909
2 1/2	60	73	35	47,5	8,5	39,5	25,5	15,5	6,5	47,5	19	66,5	—	68,5	187,5	1,25 kg	QM/910
3	60	73	35	47,5	8,5	39,5	25,5	15,5	6,5	47,5	19	66,5	—	68,5	214,5	1,50 kg	QM/911
4	70	82,5	51	74,5	12	65	30	23,5	11	76	22	101,5	—	82,5	238	3,50 kg	QM/912
5	70	82,5	57	74,5	12	65	33,5	23,5	11	76	22	101,5	—	82,5	285,5	5,00 kg	QM/913
6	98,5	114,5	70	89	13,5	76	43	28	12,5	101,5	32	165	32	108	305	11,00 kg	QM/914
8	100	114,5	79,5	116	16,7	100	47,5	31,5	16	114,5	32	184	38	117,5	355,5	17,50 kg	QM/915
10	151	178	95,5	171,5	27	151	57	44,5	16	133,5	51	247,5	57	159	438	25,00 kg	QM/917
12	151	178	95,5	171,5	27	151	57	44,5	16	133,5	51	247,5	57	159	438	30,00 kg	QM/918
14	210	239	120,5	232	27	209,5	73	63,5	28,5	139,5	63,5	279,5	70	210	487,5	61,00 kg	QM/924

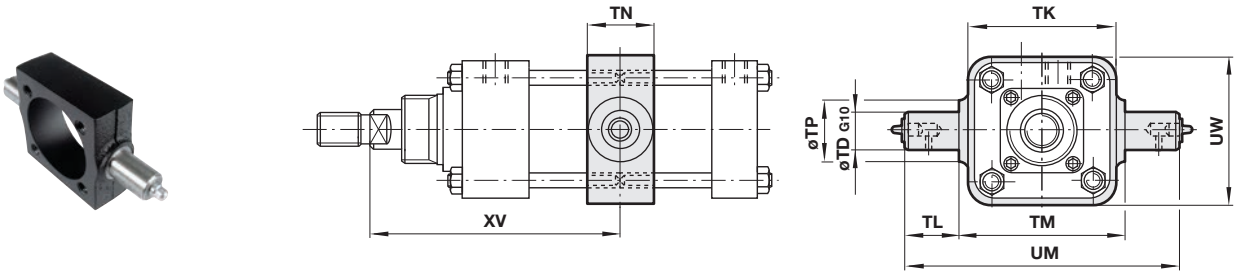
Front hinge mounting – M

Dimensions in mm
Projection/First angle



Ø inch	CE	CL 1	CR 1	GL 1	Ø HB 1	JL 1	LF 1	PA 1	RA 1	RC 1	SD 1	TJ 1	UD 1	Weight	Model
1 1/4	25,5	31	39,5	28,5	7,2	20,5	9,5	1,5	25,5	—	41,5	—	—	0,17 kg	QM/393
1 3/4	33,5	32	44,5	32	8,7	25,5	13	5	32	—	47,5	—	—	0,30 kg	QM/923
2	41,5	43	54	32	8,5	24	14	5	32	—	51	—	49	0,40 kg	QM/908
2 1/2	58,5	60	73	47,5	8,5	39,5	16	6,5	47,5	19	67	—	68,5	1,00 kg	QM/901
3	58,5	60	73	47,5	8,5	39,5	16	6,5	47,5	19	67	—	68,5	1,00 kg	QM/901
4	66,5	70	82,5	74,5	12	65	24	11	76	22	102	—	82,5	2,00 kg	QM/902
5	79,5	79,5	92	89	10,3	79,5	28,5	16	89	22	114,5	—	—	3,00 kg	QM/903
6	79,5	79,5	92	89	10,3	79,5	28,5	16	89	22	114,5	32	—	3,00 kg	QM/903
8	95,5	98,5	114,5	89	13,5	76	28,5	12,5	102	32	165	32	108	6,00 kg	QM/904
10	120,5	124	139,5	116	20	100	35	12,5	120,5	38	206,5	41,5	—	9,00 kg	QM/919
12	120,5	124	139,5	116	20	100	35	12,5	120,5	38	206,5	41,5	—	9,00 kg	QM/919
14	120,5	124	139,5	116	20	100	35	12,5	120,5	38	206,5	41,5	—	10,50 kg	QM/919

Centre trunnion – H



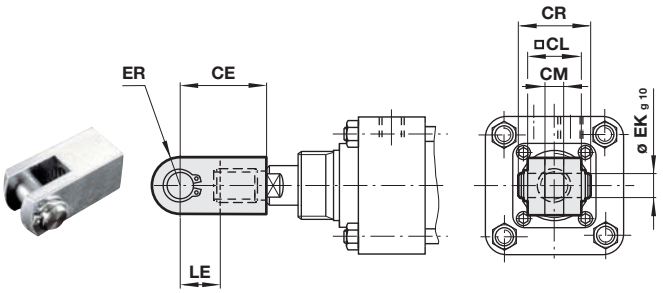
Ø inch	Ø TD g10	TK	TL	TM	TN	Ø TP	UM	UW	XV min	XV max	Weight	Model
1 1/4	12	45	17,5	50,5	20,5	18	85,5	45	72,5	93	0,16 kg	M/P14001
1 3/4	16	65	24	73	25,5	22	120,5	65	79	94,5	0,50 kg	M/P11224
2	18	70	25,5	79,5	32	29	130	70	90,5	97	0,60 kg	M/P8635
2 1/2	22	81	32	90,5	38	35	154	81	102	108,5	0,90 kg	M/P8636
3	25	95	38	108	38	38	184	95	111,5	125,5	1,25 kg	M/P8637
4	32	127	41,5	139,5	44,5	44,5	222,5	127	121,5	130	2,50 kg	M/P8638
5	38	152	51	165	51	51	266,5	152	149,5	162	3,50 kg	M/P8639
6	38	187	51	192	51	51	293,5	187	149,5	168,5	5,00 kg	M/P8640
8	45	241,5	54	247,5	70	64	355,5	245	173	189	10,00 kg	M/P8645
10	65	330	76	330	76	114	482,5	318	207	245	25,00 kg	M/P8667
12	75	381	76	381	89	127	533,5	368	213,5	238,5	35,00 kg	M/P8670
14	90	457	101,5	457	101,5	140	660,5	432	239	255,5	51,50 kg	M/P11819

Note: 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. Grease nipple supplied as standard on cylinders 9175 to 9140.

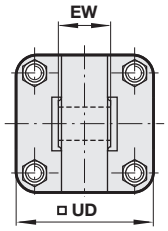
Piston rod clevis – F

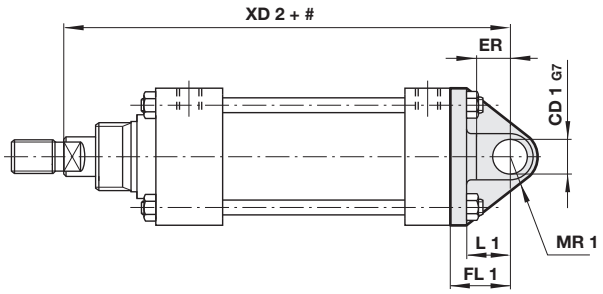
Dimensions in mm
Projection/First angle

Ø inch	CE	□ CL	CM	CR	Ø EK g10	ER	LE	Weight	Model
1 1/4	25,5	12,5	6,4	18	6	6,5	11	0,03 kg	QM/402
1 3/4	33,5	19	10	26	10	10	12,5	0,05 kg	QM/404
2	41,5	25,5	11	33	12	13	19	0,10 kg	QM/405
2 1/2	58,5	38	14	47	16	19	25,5	0,40 kg	QM/407
3	58,5	38	14	47	16	19	25,5	0,40 kg	QM/407
4	66,5	44,5	16	53	18	22	28,5	0,90 kg	QM/408
5	79,5	51	20	60	22	25	32	1,25 kg	QM/409
6	79,5	51	20	60	22	25	32	1,25 kg	QM/409
8	95,5	63,5	25	74	25	32	38	1,70 kg	QM/410
10	120,5	76	32	87	32	38	44,5	2,75 kg	QM/411
12	120,5	76	32	87	32	38	44,5	2,75 kg	QM/411
14	120,5	76	32	87	32	38	44,5	4,50 kg	QM/411



Rear eye – R



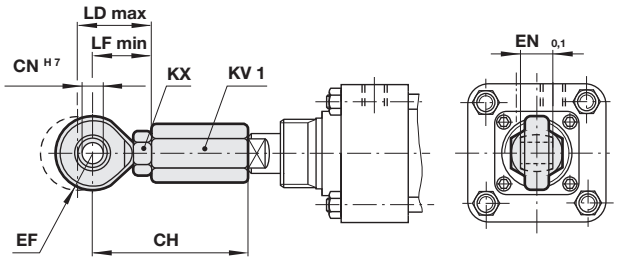


Stroke

Ø inch	Ø CD 1 G7	ER	EW	FL 1	L 1	MR 1	UD	XD 2	Weight	Model
1 1/4	6	19	19	25,5	19	9	45	151	0,10 kg	M/P11966
1 3/4	10	14,5	19	32	24	10	57	164,5	0,26 kg	M/P11219
2	16	19	38,1	35	25,5	14	62	172	0,55 kg	M/P10349
2 1/2	16	19	38,1	35	25,5	14	74	187,5	0,80 kg	M/P10351
3	16	19	38,1	35	25,5	16	87,5	214,5	0,90 kg	M/P10353
4	18	25,5	44,5	51	30	21	112,5	238	2,60 kg	QM/763
5	18	28,5	44,5	57	33,5	21	138	285,5	3,60 kg	QM/764
6	25	28,5	63,5	70	43	25,5	165	305	6,20 kg	QM/765
8	25	32	63,5	79,5	47,5	25,5	217,5	355,5	11,50 kg	QM/766
10	38	44,5	101,6	95,5	57	41	268,5	438	12,60 kg	QM/767
12	38	44,5	101,6	95,5	57	41	319	438	17,30 kg	QM/768
14	57	73	127	120,5	73	54	375	487,5	32,80 kg	QM/769

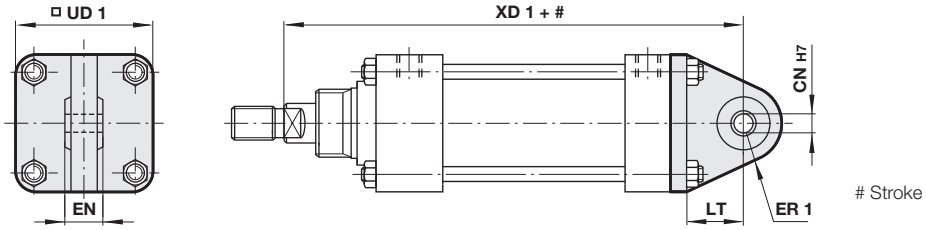
Universal piston rod eye – UF

Dimensions in mm
Projection/First angle



Ø inch	CH	Ø CN H7	EF	EN -0,1	KV 1	KX	LD max.	LF min.	Z	Weight	Model
1 1/4	59	8	13	12	14	13	30	24	17°	0,07 kg	QM/1141
1 3/4	74	10	15	14	17	17	33	28	16°	0,13 kg	QM/1142
2	74	10	15	14	22	17	33	28	16°	0,17 kg	QM/1143
2 1/2	96,5	14	19	19	32	22	39	36	18°	0,43 kg	QM/1144
3	96,5	14	19	19	32	22	39	36	18°	0,43 kg	QM/1144
4	101	14	19	19	32	22	39	36	18°	0,44 kg	QM/1146

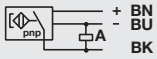
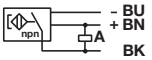
Universal rear eye – UR



Stroke

Ø inch	Ø CN H7	EN	ER 1	LT	UD 1	XD 1	Z	Weight	Model
1 1/4	8	12	16	19	44,5	151,5	13°	0,18 kg	QM/1161
1 3/4	10	14	18	26	56,5	166,5	12°	0,30 kg	QM/1162
2	10	14	18	27	63	172	12°	0,43 kg	QM/1163
2 1/2	14	19	26	26	73	187,5	12°	0,60 kg	QM/1164
3	14	19	26	26	87,5	214,5	12°	0,75 kg	QM/1165
4	14	19	26	30	114	238	12°	2,40 kg	QM/1166
5	25	31	36	36	138	279	12°	2,70 kg	QM/950/33
6	30	37	43	39	176	290	12°	4,60 kg	QM/960/33
8	30	37	48	42	216	337	12°	7,30 kg	QM/980/33

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

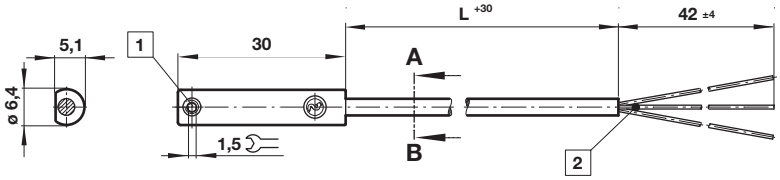
Symbol	Voltage (V d.c.)	Current maximum (mA)	Function	Operating temperature (°C)	LED	Protection class	Plug	Cable length (m)	Cable type	Weight (g)	Model
	10 ... 30	150	PNP	-40 ... +80	•	IP67	—	2, 5 or 10	PVC 3 x 0,12	37	M/50/EAP/*V
	10 ... 30	150	NPN	-40 ... +80	•	IP67	—	2, 5 or 10	PVC 3 x 0,12	37	M/50/EAN/*V

* 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

A-B

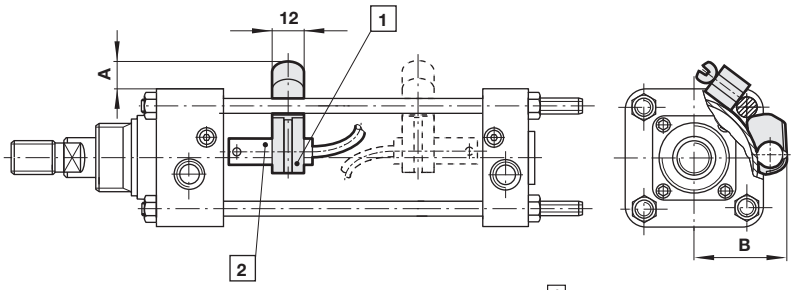


Dimensions in mm
Projection/First angle

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

QM/27/2/1 – Switch mounting brackets
Switch: M/50

Cyl. Ø inch	A	B	Weight (kg)	Model
1 1/4	9	30,5	0,010	QM/27/2/1
1 3/4	8	35,5	0,010	QM/27/2/1
2	7	38	0,010	QM/27/2/1
2 1/2	7	44,5	0,010	QM/27/2/1
3	4	19,5	0,010	QM/27/2/1
4	2	59	0,010	QM/27/2/1



1 Switch mounting bracket
2 Magnetically operated switch

Warning

These products are intended for use in industrial compressed air and rail transport 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.