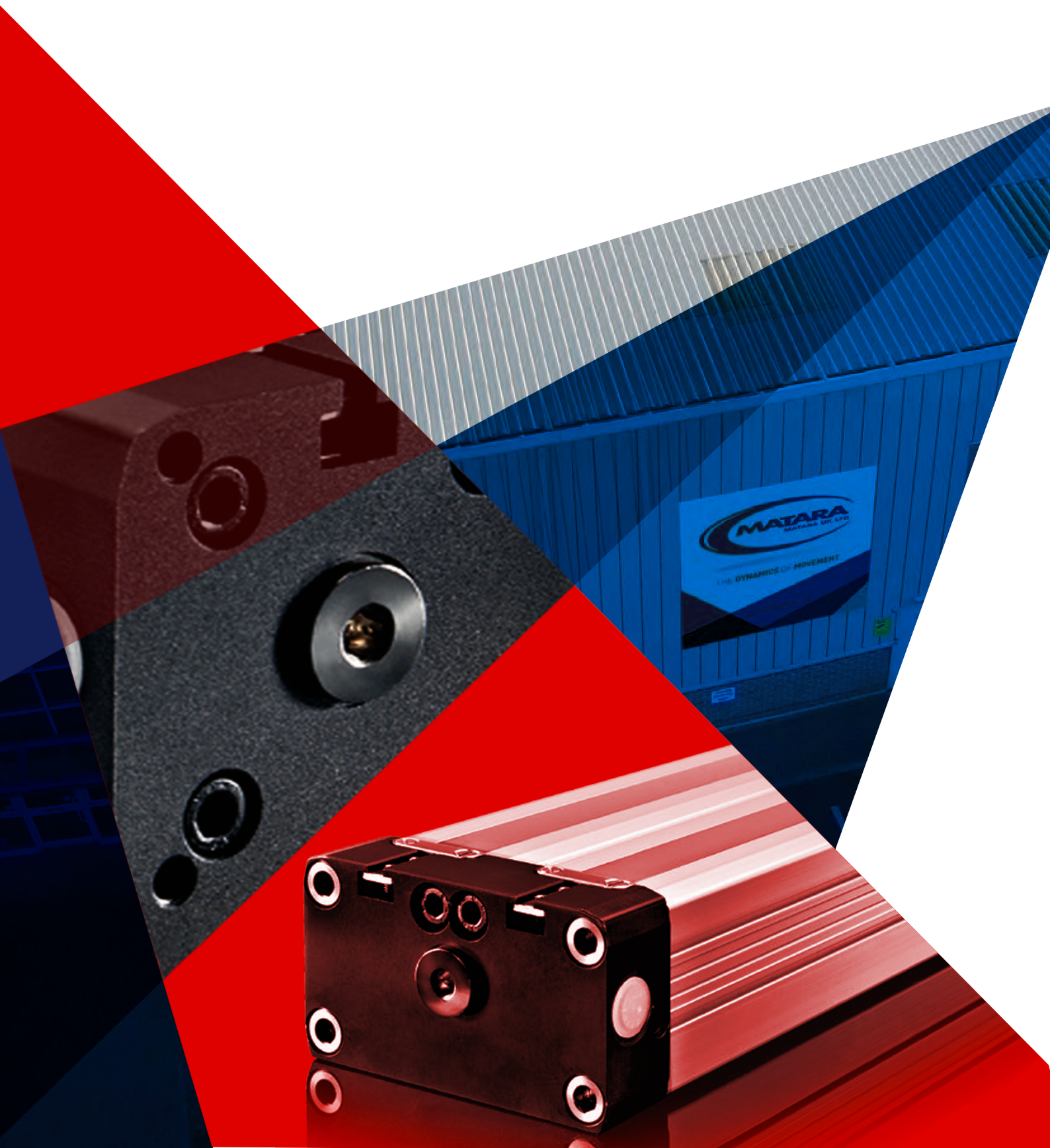


RODLESS CYLINDER

PRODUCT BROCHURE



THE **DYNAMICS** OF **MOVEMENT**



PL-00 Series



Rodless Cylinder

Features

- Fast acceleration and high piston velocity
- End caps with three air connections and adjustable cushioning
- Inherently rigid
- Interchangeable with P210 & P120 ORIGA

Specification

Design	Rodless cylinder, double acting, direct force transmission
ø 25-63 mm	100–5700mm, in increments of 1mm (longer strokes on request)
ø 16 mm	100–4400mm, in increments of 1mm
Air connection	(M5, G 1/8", G 1/4", G 3/8")
Mounting	Free
Temperatures	(–10°C to +80°C) other temperatures on request
Barrel	High-strength anodized aluminium
End caps	High-strength anodized aluminium - SURETEC 650
Piston axle	High-strength anodized aluminium
Seals	Oilproof synthetic material (V < 1m/s (NBR))(V > 1m/s (VITON))
Sealing bands	Stainless steel
Piston caps	Wear proof synthetic material
Sliding parts	Wear proof synthetic material
Pressure range	0,5–8,0 bar
Reed Switches	16-32Ø : RCAL 40-63Ø : RCI
Medium	Compressed air, filtered max. 50µm

Formulas

$$M_a = F * h_a$$

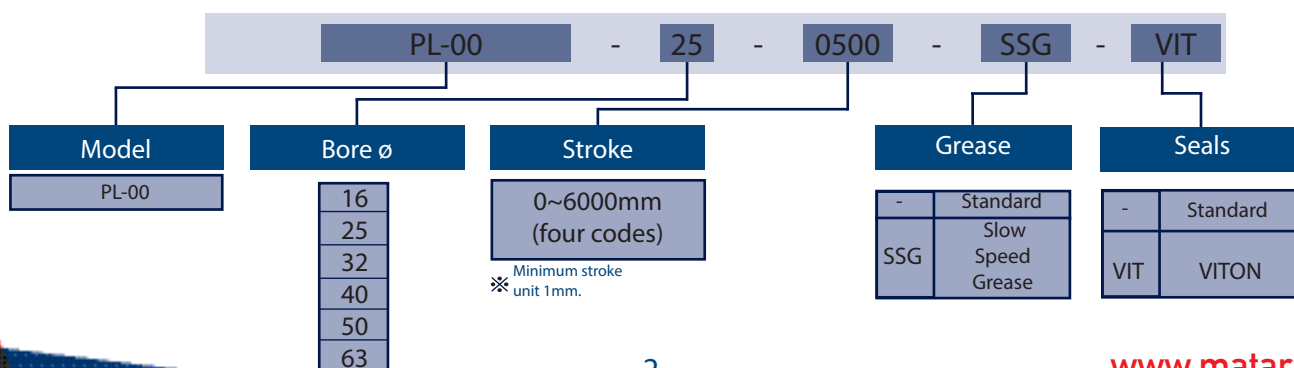
$$M_r = F * h_r$$

$$M_v = F * h_v$$

Forces & Moments

Cylinder		Effective Force (N)	Cushioning Length (mm)	Max. allowed load (N)	Max. allowed bending moments (Nm)		Max. allowed torque (Nm)
		at 6 Bar	(mm)	PL-00	PL-00		PL-00
Ø	Y	F	S	L	Ma axial	Mr radial	Mv central
16	9	110	15	120	4	0.3	0.5
25	14	250	21	300	15	1	3.0
32	18	420	26	450	30	2	4.5
40	22	640	32	750	60	4	8.0
50	28	1000	32	1200	115	7	15.0
63		1550	40	1650	200	8	24.0

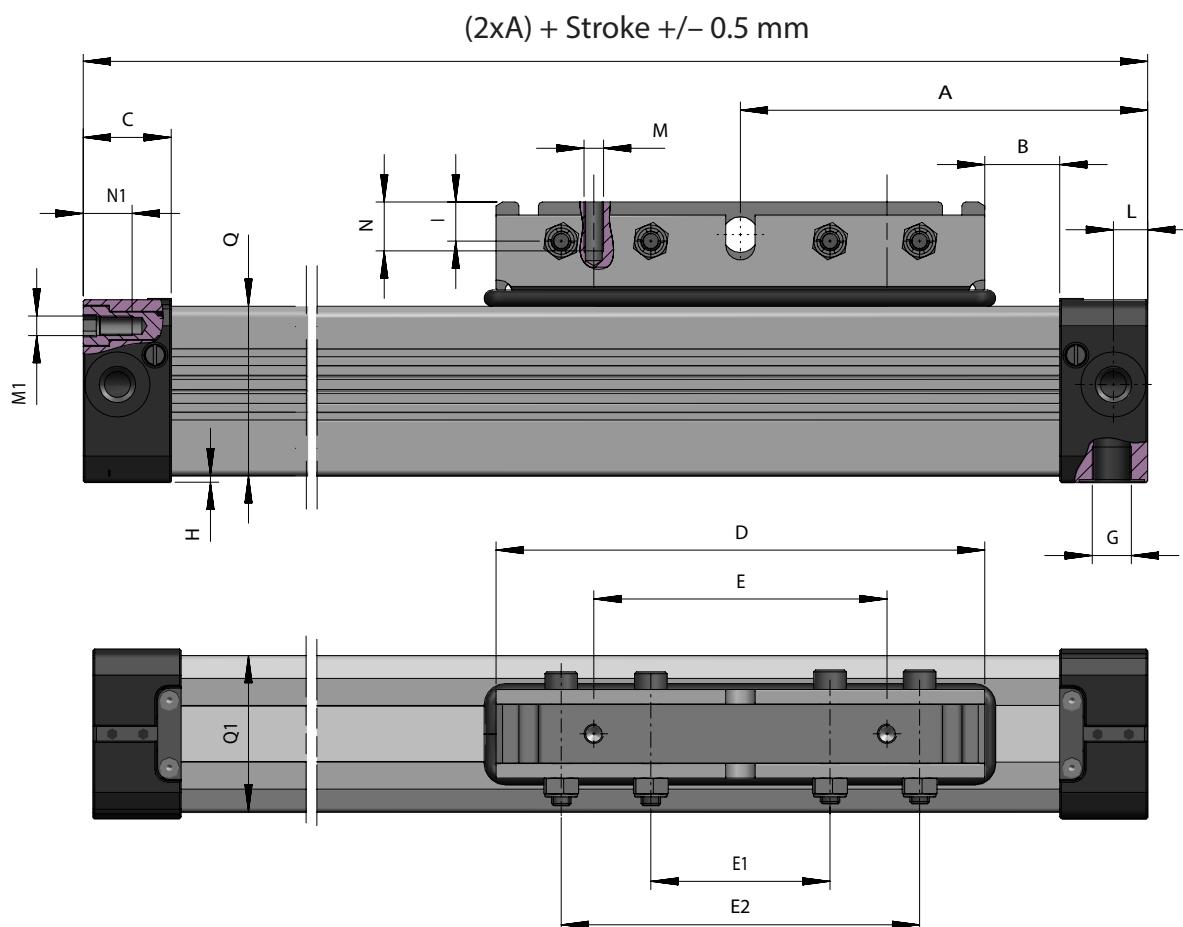
Order Example



PL-00 Series

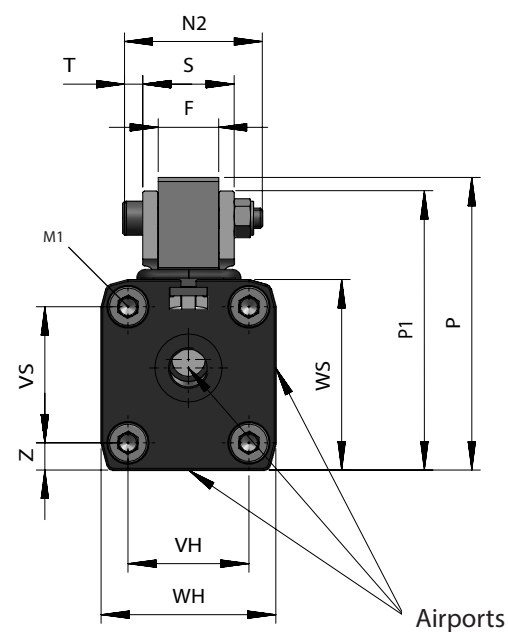
Rodless Cylinder

16 Ø > 63 Ø



Ø	A	B	C	D	E	E1	F	G	I	L	M	M1	N1	N2
16	65	12	15	76	48	32	10	M5	6	5,5	M4	M3	7	27
25	100	17	23	120	80	50	15	1/8"	13	8,5	M5	M5	10	35
32	125	23	27	150	90	55	18	1/4"	12	10,5	M6	M6	14	41
40	150	45	30	150	90	55	18	1/4"	12	15	M6	M6	17	41
50	175	42	33	180	110	70	27	1/4"	12	11,7	-	M6	18	-
63	215	47	50	220	140	90	36	3/8"	15	25	-	M8	18	-

Ø	P	P1	QxQ1	E2	H	S	T	VH	WH	VS	WS	Z
16	-	37,5	24,5x25	64	1,0	18	4	18	27	18	27	4,5
25	-	53	36x36	100	2	23	5	27	40	27	40	6,5
32	-	74	52x51	110	2	27	6	36	52	40	56	8
40	-	85	58x58	110	7	28	6	54	72	54	69	9
50	114	-	77x78	140	0,5	56	-	70	80	70	80	4
63	136	-	102x102	180	1,5	50	-	78	106	78	106	14,5



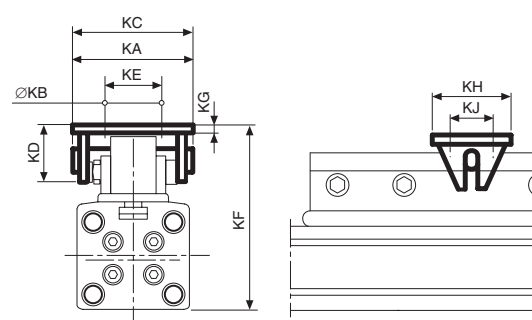
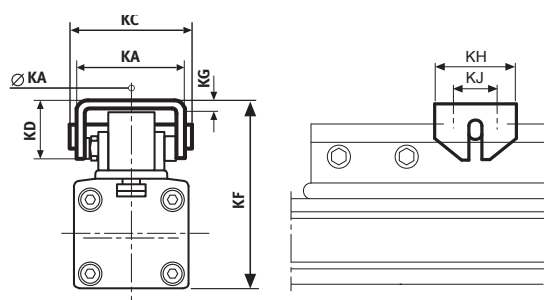
PL-20/05/09 Series

Rodless Cylinder

Mountings

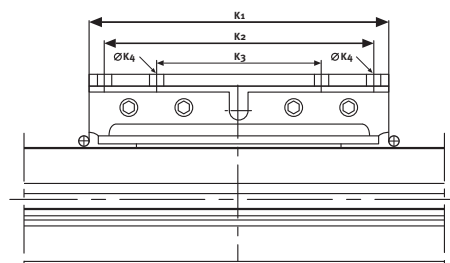
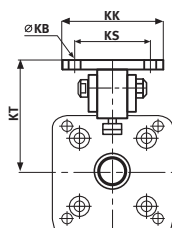
(To be used when cylinder is mounted between linear guides)

Articulated carrier-PL-20



T-load-PL-05/PL-09

(As ORIGA P120 - S22, L28)



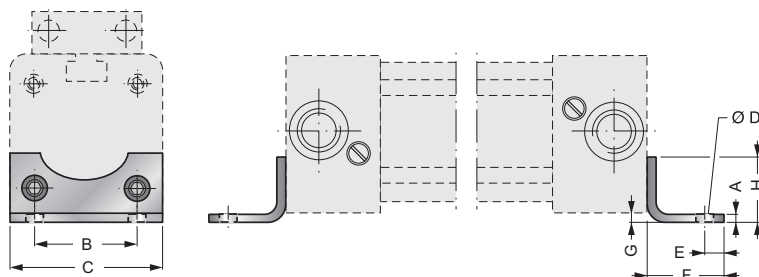
ø	KA	KB	KC	KD	KE	KF*	KG	KH	KJ	KK	KS	KT	K1	K2	K3	K4
16	25	4,5	28	12	-	47-50	2	20	10	-	-	-	-	-	-	-
25	37	5,5	42	20	-	72-75	3	30	16	-	-	-	-	-	-	-
32	70	7,0	70	38	55	91-100	5	90	75	60	45	58,5	150	-	80	7
32L	-	7,0	-	-	-	-	-	-	-	60	45	58,5	300	160	80	7
40	70	7,0	70	38	55	111-120	5	90	75	60	45	63	150	-	80	7
40L	-	7,0	-	-	-	-	-	-	-	60	45	63	300	160	80	7
50	90	9	-	43.7	70	136-151	6.4	120	100	60	45	74	180	-	100	7
50L	-	9	-	-	-	-	-	-	-	60	45	74	180	200	100	7
63	90	9	-	43.7	70	152	6.4	120	100	80	60	89	220	-	130	9
63L	-	9	-	-	-	-	-	-	-	80	60	89	220	260	130	9

* KF-Dimensions are variable within the length of the slot of the load mounting.

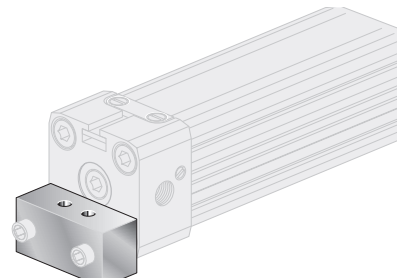
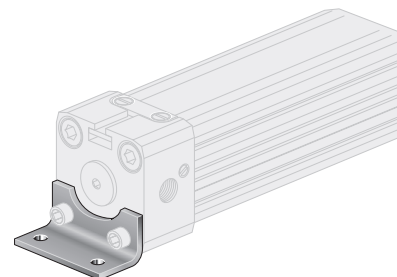
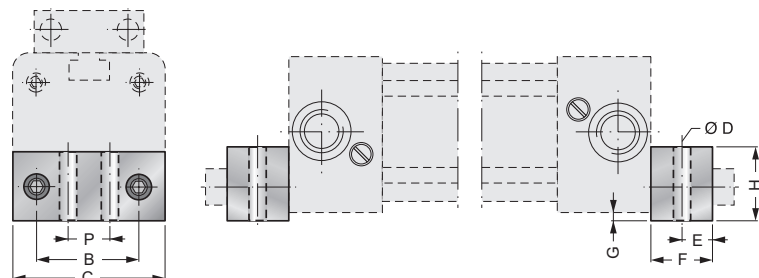
Mountings

End Cover Bracket (Foot)

PL24/1, PL24/2 (16Ø & 25Ø)

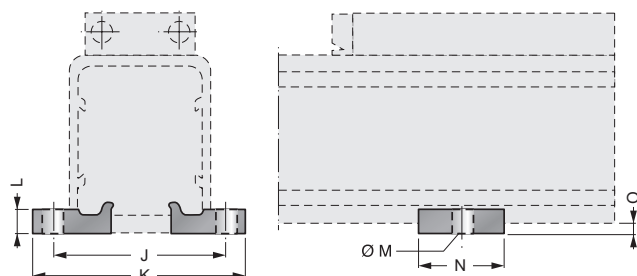


PL24/3, PL24/4, PL24/5, PL24/6 (32Ø, 40Ø, 50Ø, 63Ø)

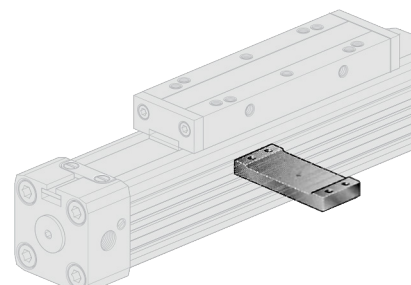
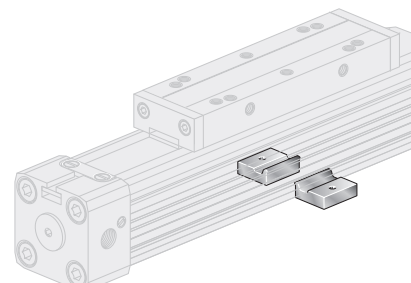
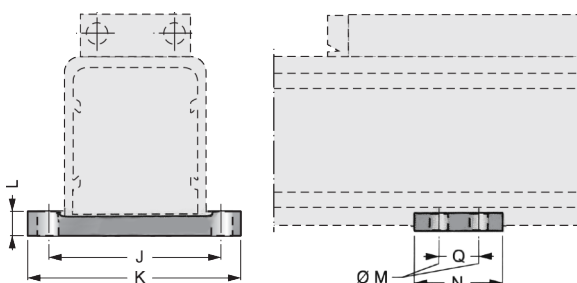


Mid Section Support

PL24/1, PL24/2, PL24/3, PL24/4 (16Ø, 25Ø, 32Ø, 40Ø)



PL25/5, PL25/6 (50Ø, 63Ø)



Ø	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
16	1.5	18	26	3.6	4.0	14	1.5	12.5	41.5	53.5	5	Ø5.5	20	3	-	-	-
25	2.5	27	40	5.5	6.0	22	2	18	48.5	60	6	Ø5.5	20	4	-	-	-
32	5.0	36	51	6.5	8.0	24	4	20	82	75	-	Ø6.5	65	10	20	45	16
40	5.0	54	71	9	11.5	24	2	20	90	75	-	Ø6.5	65	10	30	45	13
50	5.0	70	80	9	12.5	25	1.0	25	123	148	10	Ø6.5	45	1	45	30	35
63	5.0	78	105	11	15	30	2.0	40	147	172	10	Ø6.5	45	3.5	48	30	35