

SECTION
3

Levers
MPA

3





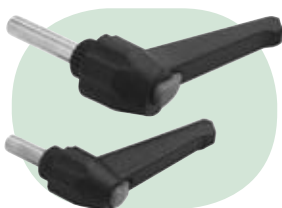
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3-14



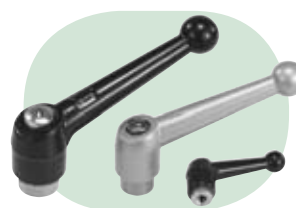
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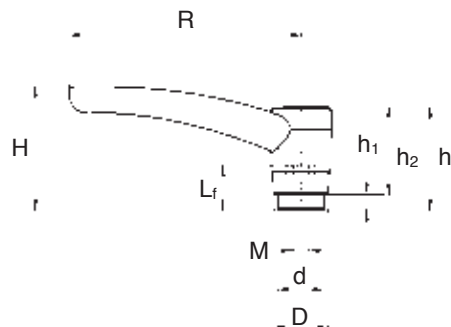
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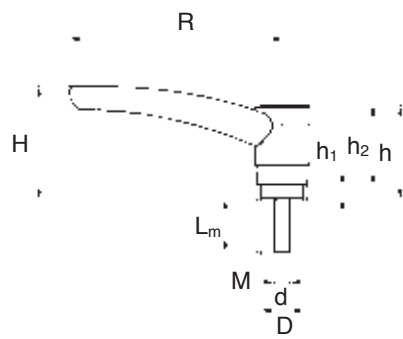
3-23



- **LEVER** – Nylon 6, Anthracite Gray
- **THREADED INSERT** – Brass, Nickel Plated
- **ENGAGING MECHANISM**

Catalog Number	L _f	R	H	h	h ₁
MPAX1FM6904 MPAX1FM6905	15	80	42.1	35.3	5.4
MPAX1FM6906 MPAX1FM6907	18	100	47.3	38.3	5.4
MPAX1FM6929 MPAX1FM6930 MPAX1FM6941	11	60	36	31.3	4.3
MPAX1FM6966 MPAX1FM6967 MPAX1FM6968	11	45	33.9	29.3	4.3

Catalog Number	h ₂	D	d	M	Weight g
MPAX1FM6904 MPAX1FM6905	29.9	18.8	16	M6 M8	25 27
MPAX1FM6906 MPAX1FM6907	32.9	23.8	20.8	M10 M12	49 42
MPAX1FM6929 MPAX1FM6930 MPAX1FM6941	27	17.9	14.8	M4 M5 M6	15 19 19
MPAX1FM6966 MPAX1FM6967 MPAX1FM6968	25	14.3	11.8	M4 M5 M6	13 12 13



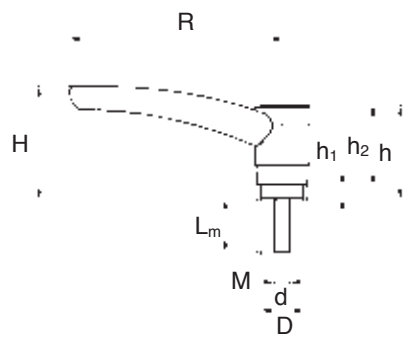
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- **LEVER** – Nylon 6, Anthracite Gray
- **SCREW** – Steel, Zinc Plated
- **ENGAGING MECHANISM**

Catalog Number	L _m	R	H	h	h ₁
MPAX1MM6910	10	45	33.9	29.3	4.3
MPAX1MM6911	15				
MPAX1MM6912	20				
MPAX1MM6913	12	45	33.9	29.3	4.3
MPAX1MM6914	16				
MPAX1MM6915	20				
MPAX1MM6916	25	45	33.9	29.3	4.3
MPAX1MM6918	12				
MPAX1MM6919	16				
MPAX1MM6920	20	45	33.9	29.3	4.3
MPAX1MM6921	25				
MPAX1MM6922	32				
MPAX1MM6923	40				

Catalog Number	h ₂	D	d	M	Weight g
MPAX1MM6910	25	14.3	11.8	M4	14
MPAX1MM6911					15
MPAX1MM6912					15
MPAX1MM6913	25	14.3	11.8	M5	15
MPAX1MM6914					15
MPAX1MM6915					16
MPAX1MM6916					16
MPAX1MM6918	25	14.3	11.8	M6	16
MPAX1MM6919					16
MPAX1MM6920					17
MPAX1MM6921	25	14.3	11.8	M6	18
MPAX1MM6922					19
MPAX1MM6923					20

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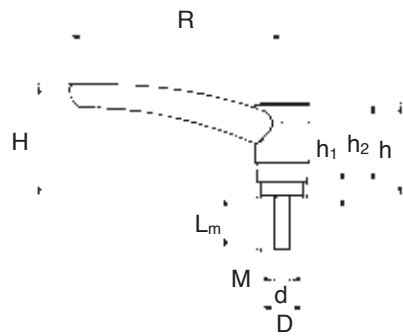


- **LEVER** – Nylon 6, Anthracite Gray
- **SCREW** – Steel, Zinc Plated
- **ENGAGING MECHANISM**

Catalog Number	L _m	R	H	h	h ₁
MPAX1MM6924	20	80	42.1	35.3	5.4
MPAX1MM6925	20				
MPAX1MM6926	30				
MPAX1MM6927	25	100	47.3	38.3	5.4
MPAX1MM6928	30				
MPAX1MM6931	15	60	36	31.3	4.3
MPAX1MM6932	15				
MPAX1MM6933	20				
MPAX1MM6934	20				
MPAX1MM6935	25	80	42.1	35.3	5.4
MPAX1MM6936	25				
MPAX1MM6937	30	100	47.3	38.3	5.4
MPAX1MM6938	50				

Catalog Number	h ₂	D	d	M	Weight g
MPAX1MM6924	29.9	18.8	16	M6	32
MPAX1MM6925				M8	35
MPAX1MM6926				M8	39
MPAX1MM6927	32.9	23.8	20.8	M10	65
MPAX1MM6928				M12	75
MPAX1MM6931	27	17.9	14.8	M4	21
MPAX1MM6932				M5	22
MPAX1MM6933				M4	21
MPAX1MM6934				M5	23
MPAX1MM6935	29.9	18.8	16	M6	33
MPAX1MM6936				M8	37
MPAX1MM6937	32.9	23.8	20.8	M10	68
MPAX1MM6938					79

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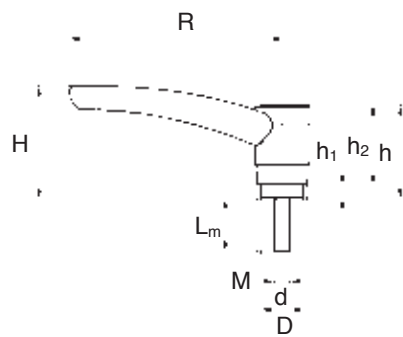
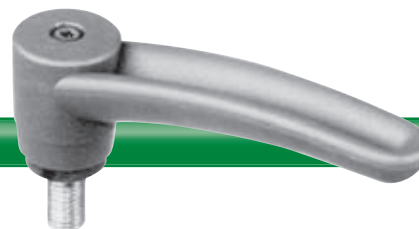
- **LEVER** – Nylon 6, Anthracite Gray
- **SCREW** – Steel, Zinc Plated
- **ENGAGING MECHANISM**

Catalog Number	L _m	R	H	h	h ₁
MPAX1MM6939	40	100	47.3	38.3	5.4
MPAX1MM6940	20	60	36	31.3	4.3
MPAX1MM6942	10				
MPAX1MM6943	12				
MPAX1MM6945	25				
MPAX1MM6946	10	60	36	31.3	4.3
MPAX1MM6947	12				
MPAX1MM6948	16				
MPAX1MM6949	25				
MPAX1MM6953	20	100	47.3	38.3	5.4
MPAX1MM6954	25				
MPAX1MM6956	50				
MPAX1MM6957	60				

Catalog Number	h ₂	D	d	M	Weight g
MPAX1MM6939	32.9	23.8	20.8	M12	83
MPAX1MM6940	27	17.9	14.8	M6	23
MPAX1MM6942				M4	21
MPAX1MM6943				M5	22
MPAX1MM6945				M5	23
MPAX1MM6946	27	17.9	14.8	M6	22
MPAX1MM6947					22
MPAX1MM6948					23
MPAX1MM6949					24
MPAX1MM6953	32.9	23.8	20.8	M12	69
MPAX1MM6954					72
MPAX1MM6956					90
MPAX1MM6957					100

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LEVERS, CLAMPING - Adjustable

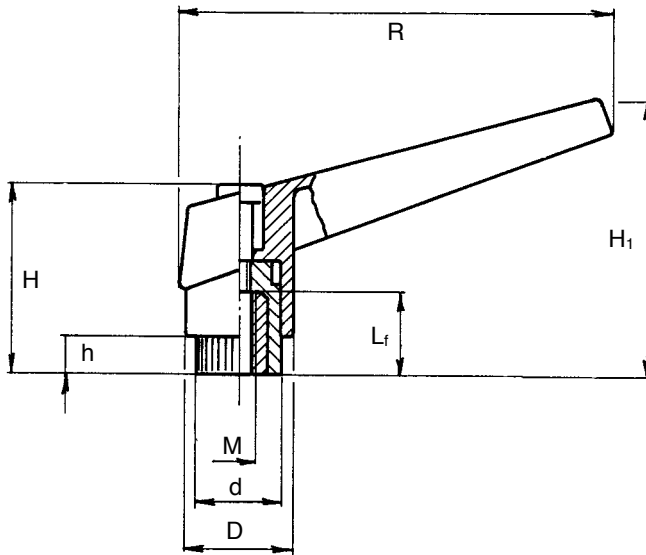
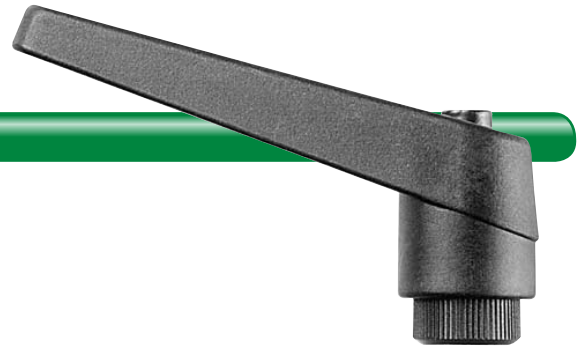


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- **LEVER** – Nylon 6, Anthracite Gray
- **SCREW** – Steel, Zinc Plated
- **ENGAGING MECHANISM**

Catalog Number	L _m	R	H	h	h ₁
MPAX1MM6984	32	60	36	31.3	4.3
MPAX1MM6985	40				
MPAX1MM6986	50				
MPAX1MM6987	10	80	42.1	35.3	5.4
MPAX1MM6988	12				
MPAX1MM6989	16				
MPAX1MM6991	40	80	42.1	35.3	5.4
MPAX1MM6992	50				
MPAX1MM6993	63				
MPAX1MM6994	16	100	47.3	38.3	5.4
MPAX1MM6995	20				
MPAX1MM6997	40				
MPAX1MM6998	63				

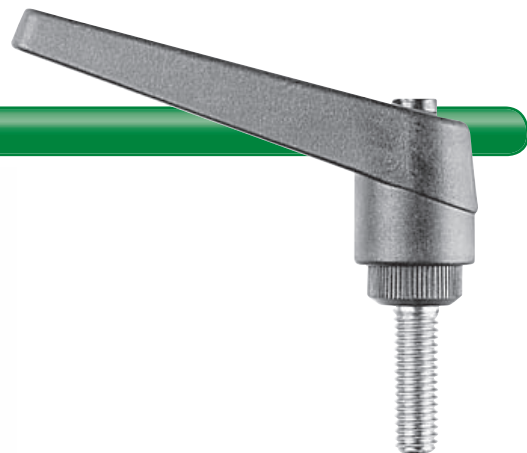
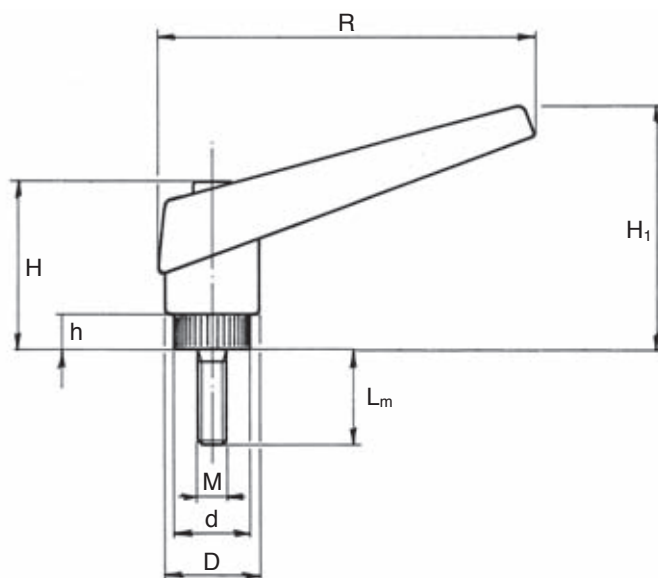
Catalog Number	h ₂	D	d	M	Weight g
MPAX1MM6984	27	17.9	14.8	M6	26
MPAX1MM6985					27
MPAX1MM6986					29
MPAX1MM6987	29.9	18.8	16	M8	33
MPAX1MM6988					33
MPAX1MM6989					35
MPAX1MM6991	29.9	18.8	16	M8	41
MPAX1MM6992					44
MPAX1MM6993					49
MPAX1MM6994	32.9	23.8	20.8	M10	62
MPAX1MM6995					64
MPAX1MM6997					74
MPAX1MM6998					85



- **LEVER** – PBT, Glass Filled, Black • **THREADED INSERT** – Brass, Nickel Plated
- **ENGAGING MECHANISM**

Catalog Number	L _f	R	H	H ₁	h	D	d	M	Weight g
MPAX2FM9404	15	80	35	50	7	20	16	M6	27
MPAX2FM9405								M8	25
MPAX2FM9406	18	100	38	58	8.5	24	20.8	M10	44
MPAX2FM9407								M12	37
MPAX2FM9429	11	60	31	42	5	17	14.8	M4	12
MPAX2FM9430								M5	16
MPAX2FM9441								M6	16
MPAX2FM9466	11	45	26	31.2	4	14	11.8	M4	12
MPAX2FM9467								M5	11
MPAX2FM9468								M6	12

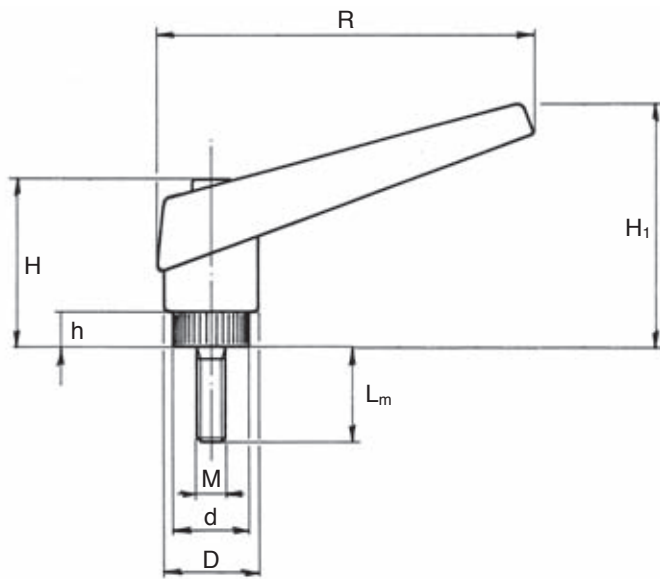
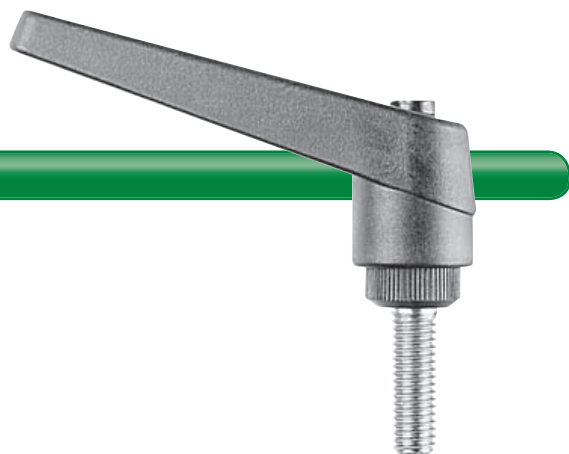
LEVERS, CLAMPING



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• **LEVER** – PBT, Glass Filled, Black • **SCREW** – Steel, Zinc Plated • **ENGAGING MECHANISM**

Catalog Number	L _m	R	H	H ₁	h	D	d	M	Weight g
MPAX2MM9424	20							M6	32
MPAX2MM9425	20	80	35	50	7	20	16	M8	35
MPAX2MM9426	30							M8	39
MPAX2MM9427	25	100	38	58	8.5	24	20.8	M10	60
MPAX2MM9428	30							M12	70
MPAX2MM9431	15							M4	18
MPAX2MM9432	15	60	31	42	5	17	14.8	M5	19
MPAX2MM9433	20							M4	18
MPAX2MM9434	20							M5	20
MPAX2MM9435	25	80	35	50	7	20	16	M6	33
MPAX2MM9436								M8	37
MPAX2MM9437	30	100	38	58	8.5	24	20.8	M10	63
MPAX2MM9438	50							M10	74
MPAX2MM9439	40							M12	78
MPAX2MM9440	20							M6	20
MPAX2MM9442	10	60	31	42	5	17	14.8	M4	18
MPAX2MM9443	12							M5	19
MPAX2MM9445	25							M5	20
MPAX2MM9446	10								19
MPAX2MM9447	12	60	31	42	5	17	14.8	M6	19
MPAX2MM9448	16								20
MPAX2MM9449	25								21
MPAX2MM9453	20	100	38	58	8.5	24	20.8	M12	64
MPAX2MM9454	25								67
MPAX2MM9456	50								85
MPAX2MM9457	60								95
MPAX2MM9484	32	60	31	42	5	17	14.8	M6	23
MPAX2MM9485	40								24
MPAX2MM9486	50								26
MPAX2MM9487	10	80	35	50	7	20	16	M8	33
MPAX2MM9488	12								



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• **LEVER** – PBT, Glass Filled, Black • **SCREW** – Steel, Zinc Plated • **ENGAGING MECHANISM**

Catalog Number	L _m	R	H	H ₁	h	D	d	M	Weight g
MPAX2MM9489	16	80	35	50	7	20	16	M8	35
MPAX2MM9491	40								41
MPAX2MM9492	50								44
MPAX2MM9493	63								49
MPAX2MM9494	16	100	38	58	8.5	24	20.8	M10	57
MPAX2MM9495	20								59
MPAX2MM9497	40								69
MPAX2MM9498	63								80
MPAX2MM9510	10	45	26	31.2	4	14	11.8	M4	13
MPAX2MM9511	15								14
MPAX2MM9512	20								14
MPAX2MM9513	12	45	26	31.2	4	14	11.8	M5	14
MPAX2MM9514	16								14
MPAX2MM9515	20								15
MPAX2MM9516	25								15
MPAX2MM9518	12	45	26	31.2	4	14	11.8	M6	15
MPAX2MM9519	16								15
MPAX2MM9520	20								16
MPAX2MM9521	25								17
MPAX2MM9522	32								18
MPAX2MM9523	40								19

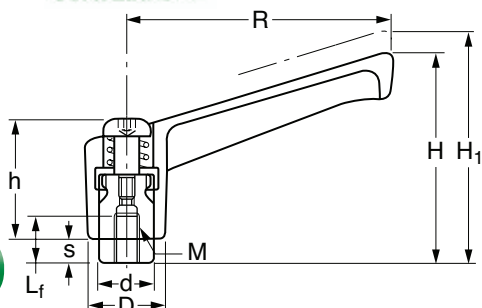


Fig. 1

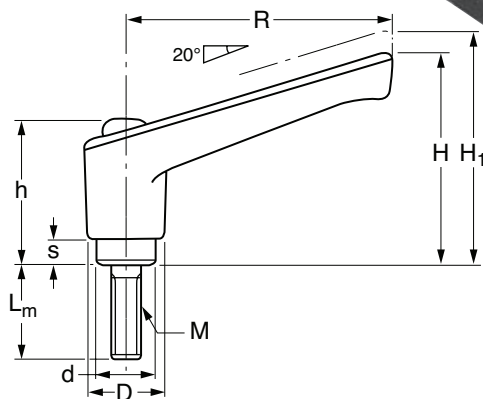


Fig. 2

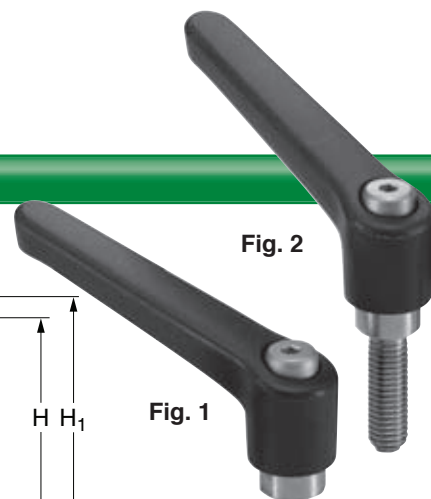


Fig. 2

Fig. 1 • **LEVER** – Nylon 6, Black • **THREADED INSERT** – Hardened Steel or Stainless Steel

Catalog Number		L _f	R	H	H ₁	h	s
Hardened Steel Insert	Stainless Steel Insert						
MPAN4FMLEF0608	MPAN4FMLEFS0608	8	45	35.5	39	24.5	4.2
MPAN4FMLEF0810	MPAN4FMLEFS0810	10	63	46.3	50.3	31	6.5
MPAN4FMLEF1014	MPAN4FMLEFS1014	14	78	55.4	59.4	36	8
MPAN4FMLEF1217	MPAN4FMLEFS1217	17	92	66	70	43	11

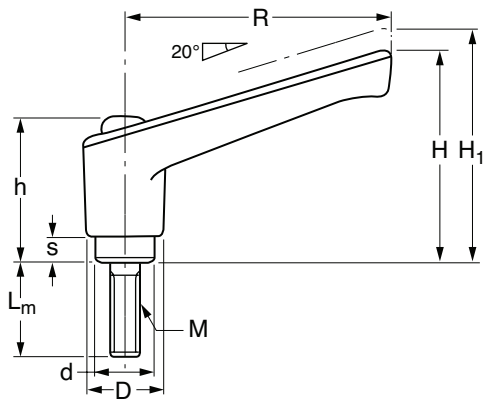
Catalog Number		D	d	M	F Max. N	Weight g
Hardened Steel Insert	Stainless Steel Insert					
MPAN4FMLEF0608	MPAN4FMLEFS0608	13	10	M6	70	14
MPAN4FMLEF0810	MPAN4FMLEFS0810	17.5	13.5	M8	120	30
MPAN4FMLEF1014	MPAN4FMLEFS1014	21	16	M10	200	50
MPAN4FMLEF1217	MPAN4FMLEFS1217	25	19	M12	290	70

Fig. 2 • **LEVER** – Nylon 6, Black • **SCREW** – Hardened Steel or Stainless Steel

Catalog Number		L _m	R	H	H ₁	h	s
Hardened Steel Screw	Stainless Steel Screw						
MPAN4MMLEM0612	MPAN4MMLEMS0612	12					
MPAN4MMLEM0616	MPAN4MMLEMS0616	16	45	35.5	39	24.5	4.2
MPAN4MMLEM0620	MPAN4MMLEMS0620	20					
MPAN4MMLEM0625	MPAN4MMLEMS0625	25					
MPAN4MMLEM0632	MPAN4MMLEMS0632	32	45	35.5	39	24.5	4.2
MPAN4MMLEM0640	MPAN4MMLEMS0640	40					

Catalog Number		D	d	M	F Max. N	Weight g
Hardened Steel Screw	Stainless Steel Screw					
MPAN4MMLEM0612	MPAN4MMLEMS0612					19
MPAN4MMLEM0616	MPAN4MMLEMS0616	13	10	M6	70	20
MPAN4MMLEM0620	MPAN4MMLEMS0620					21
MPAN4MMLEM0625	MPAN4MMLEMS0625					22
MPAN4MMLEM0632	MPAN4MMLEMS0632	13	10	M6	70	23
MPAN4MMLEM0640	MPAN4MMLEMS0640					25

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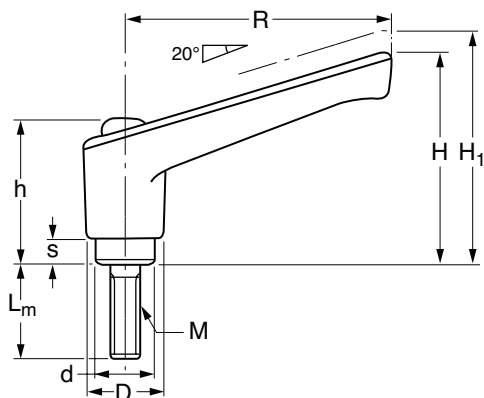


• **LEVER** – Nylon 6, Black • **SCREW** – Hardened Steel or Stainless Steel

Catalog Number		L _m	R	H	H ₁	h	s
Hardened Steel Screw	Stainless Steel Screw						
MPAN4MMLEM0816	MPAN4MMLEMS0816	16					
MPAN4MMLEM0820	MPAN4MMLEMS0820	20	63	46.3	50.3	31	6.5
MPAN4MMLEM0825	MPAN4MMLEMS0825	25					
MPAN4MMLEM0832	MPAN4MMLEMS0832	32					
MPAN4MMLEM0840	MPAN4MMLEMS0840	40	63	46.3	50.3	31	6.5
MPAN4MMLEM0850	MPAN4MMLEMS0850	50					
MPAN4MMLEM1016	—	16					
MPAN4MMLEM1020	MPAN4MMLEMS1020	20	78	55.4	59.4	36	8
MPAN4MMLEM1025	MPAN4MMLEMS1025	25					
MPAN4MMLEM1032	MPAN4MMLEMS1032	32					
MPAN4MMLEM1040	MPAN4MMLEMS1040	40	78	55.4	59.4	36	8
MPAN4MMLEM1050	MPAN4MMLEMS1050	50					
MPAN4MMLEM1063	MPAN4MMLEMS1063	63					

Catalog Number		D	d	M	F Max. N	Weight g
Hardened Steel Screw	Stainless Steel Screw					
MPAN4MMLEM0816	MPAN4MMLEMS0816					39
MPAN4MMLEM0820	MPAN4MMLEMS0820	17.5	13.5	M8	120	41
MPAN4MMLEM0825	MPAN4MMLEMS0825					43
MPAN4MMLEM0832	MPAN4MMLEMS0832					45
MPAN4MMLEM0840	MPAN4MMLEMS0840	17.5	13.5	M8	120	48
MPAN4MMLEM0850	MPAN4MMLEMS0850					52
MPAN4MMLEM1016	—					67
MPAN4MMLEM1020	MPAN4MMLEMS1020	21	16	M10	200	68
MPAN4MMLEM1025	MPAN4MMLEMS1025					72
MPAN4MMLEM1032	MPAN4MMLEMS1032					77
MPAN4MMLEM1040	MPAN4MMLEMS1040	21	16	M10	200	81
MPAN4MMLEM1050	MPAN4MMLEMS1050					87
MPAN4MMLEM1063	MPAN4MMLEMS1063					95

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• **LEVER** – Nylon 6, Black • **SCREW** – Hardened Steel or Stainless Steel

Catalog Number		L _m	R	H	H ₁	h	s
Hardened Steel Screw	Stainless Steel Screw						
MPAN4MMLEM1225	MPAN4MMLEMS1225	25					
MPAN4MMLEM1232	MPAN4MMLEMS1232	32					
MPAN4MMLEM1240	MPAN4MMLEMS1240	40	92	66	70	43	11
MPAN4MMLEM1250	MPAN4MMLEMS1250	50					
MPAN4MMLEM1263	MPAN4MMLEMS1263	63					

Catalog Number		D	d	M	F Max. N	Weight g
Hardened Steel Screw	Stainless Steel Screw					
MPAN4MMLEM1225	MPAN4MMLEMS1225					133
MPAN4MMLEM1232	MPAN4MMLEMS1232					140
MPAN4MMLEM1240	MPAN4MMLEMS1240	25	19	M12	290	148
MPAN4MMLEM1250	MPAN4MMLEMS1250					158
MPAN4MMLEM1263	MPAN4MMLEMS1263					170

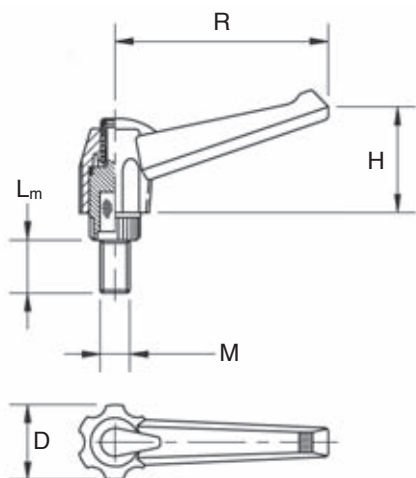


Fig. 1

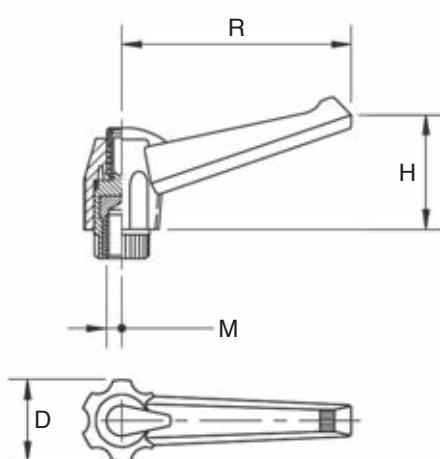


Fig. 2



Fig. 1



Fig. 2

Fig. 1 • **LEVER** – Polymer, Black With Red Button • **Screw** – Steel, Zinc Plated

Catalog Number	L _m	R	H	D	M
MPAY5MM201L10	20	40	24	18	M6
MPAY5MM201L15	20				M6
MPAY5MM201L20	20	60	32	21	M8
MPAY5MM201L25	30				M8
MPAY5MM201L30	40				M8
MPAY5MM201L40	30	80	42	30	M8
MPAY5MM201L45	30				M10
MPAY5MM201L50	40				M10

Fig. 2 • **LEVER** – Polymer, Black With Red Button
• **THREADED INSERT** – Brass

Catalog Number	R	H	D	M
MPAY5FM201M05	40	24	18	M5
MPAY5FM201M10				M6
MPAY5FM201M15	60	32	21	M6
MPAY5FM201M20				M8
MPAY5FM201M30	80	42	30	M8
MPAY5FM201M35				M10
MPAY5FM201M40				M12

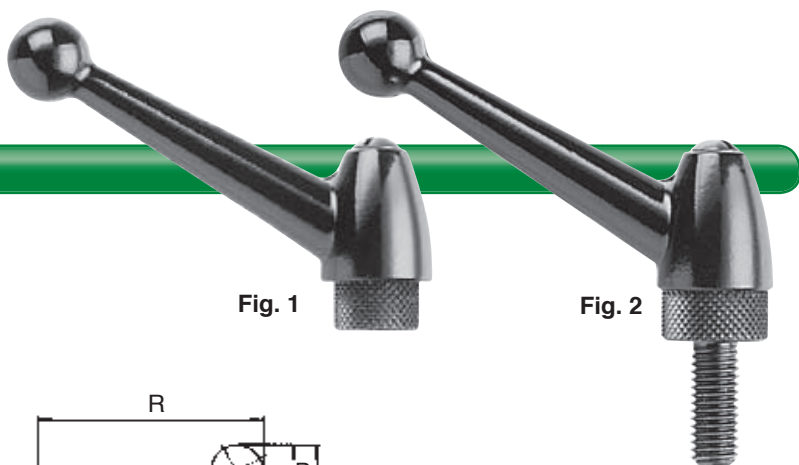


Fig. 1

Fig. 2

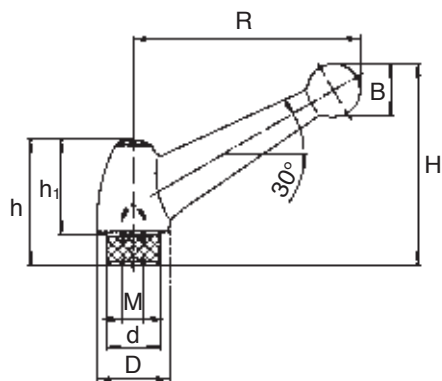


Fig. 1

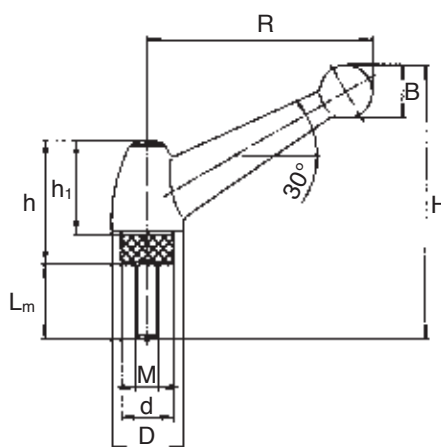


Fig. 2

Fig. 1 • **LEVER** – Aluminum, Die-Casting, Black

• **THREADED INSERT** – Steel, Black Oxide • **ENGAGING MECHANISM**

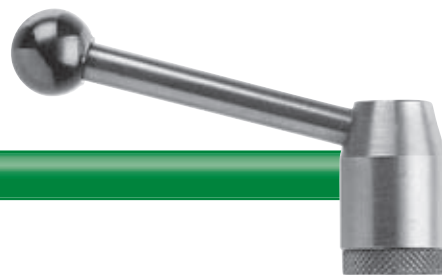
Catalog Number	R	H	h	h ₁	D	d	B	M	Weight g
MPAX3FM9408	40	34	25	19	15	10	9	M4	16
MPAX3FM9409								M5	
MPAX3FM9410	60	53	33	25	19	14	14	M6	40
MPAX3FM9411						18		M8	42
MPAX3FM9412	80	67	45	35	28	22	18	M10	105
MPAX3FM9413						26		M12	
MPAX3FM9414	96	83	57	42	32	30	22	M14	292

Fig. 2 • **LEVER** – Aluminum, Die-Casting, Black

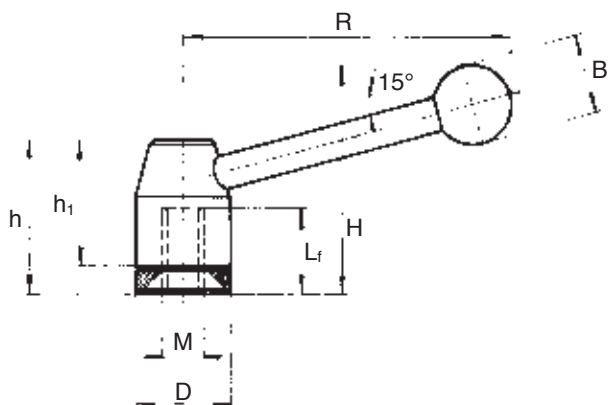
• **SCREW** – Steel, Black Oxide • **ENGAGING MECHANISM**

Catalog Number	Lm	R	H	h	h ₁
MPAX3MM9415	20				
MPAX3MM9416	20	60	53	33	25
MPAX3MM9417	30				
MPAX3MM9418	20	80	67	45	35

Catalog Number	D	d	B	M	Weight g
MPAX3MM9415		14		M6	47
MPAX3MM9416	19	18	14	M8	54
MPAX3MM9417		18		M8	58
MPAX3MM9418	28	22	18	M10	125



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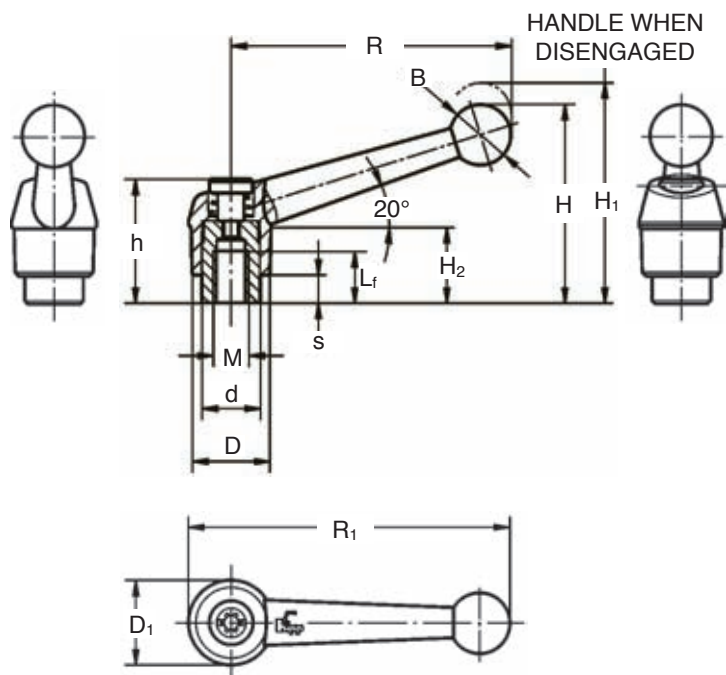


• **LEVER** – Steel, Black Oxide • **THREADED INSERT** – Steel, Black Oxide • **ENGAGING MECHANISM**

Catalog Number	L _r	R	H	h	h ₁	D	B	M	Weight g
MPAX3FM9419	15	60	41	26	22	14	14	M6	42
MPAX3FM9420	20	70	49	31.5	26.5	18	18	M8	74
MPAX3FM9421		77	53			22		M10	100
MPAX3FM9422	25	108	72	43	37	28	28	M12	225
MPAX3FM9423								M14	220



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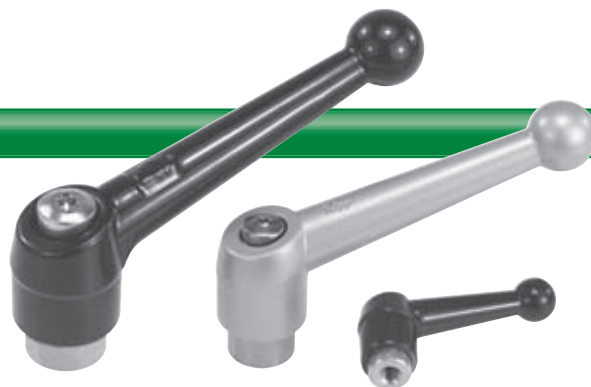


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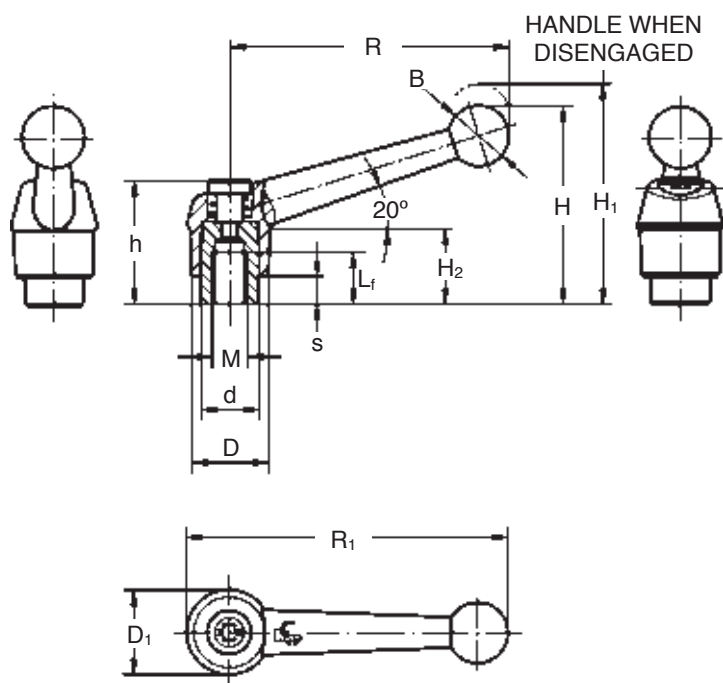


- **LEVER** – Zinc Die Cast, Powder-Coated, Black or Silver Finish • DIN 1743
- **INSERTS & INTERNAL COMPONENTS** – Steel, Black Oxide Finish

Catalog Number		Size	L _f	R	R ₁	H	H ₁	H ₂	h	s	D	D ₁	d	B	M	Approx. Weight g
Satin Finish Black	Metallic Finish Silver															
MPAL64M101041	MPAL64M101043	1	9	39	46	32.5	35.5	15	24.5	4	13	14	10	10.5	M4	30
MPAL64M101051	MPAL64M101053														M5	
MPAL64M101061	MPAL64M101063														M6	
MPAL64M102061	MPAL64M102063	2	12	64	73	45.5	49.5	16.5	28.5	6.5	18	18.5	13.5	15.5	M6	80
MPAL64M102081	MPAL64M102083														M8	
MPAL64M103081	MPAL64M103083	3	14	79	90	57.5	61.5	23	37	10	21	22	16	17	M8	120
MPAL64M103101	MPAL64M103103														M10	
MPAL64M104101	MPAL64M104103	4	17	95	108	67	72	26	42.5	10	25	26	19	19	M10	190
MPAL64M104121	MPAL64M104123														M12	
MPAL64M105121	MPAL64M105123	5	23	110	126	79	84	32	49	12	30	31	23	22	M12	300
MPAL64M105161	MPAL64M105163														M16	



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- **LEVER** – Zinc Die Cast, Powder-Coated, Black or Silver Finish • DIN 1743
- **INSERTS & INTERNAL COMPONENTS** – Stainless Steel, Natural Finish

Catalog Number		Size	L _f	R	R ₁	H	H ₁	H ₂	h	s	D	D ₁	d	B	M	Approx. Weight g
Satin Finish Black	Metallic Finish Silver															
MPAL64M111051	MPAL64M111053	1	9	39	46	32.5	35.5	15	24.5	4	13	14	10	10.5	M5 M6	30
MPAL64M111061	MPAL64M111063															
MPAL64M112061	MPAL64M112063	2	12	64	73	45.5	49.5	16.5	28.5	6.5	18	18.5	13.5	15.5	M6 M8	80
MPAL64M112081	MPAL64M112083															
MPAL64M113081	MPAL64M113083	3	14	79	90	57.5	61.5	23	37	10	21	22	16	17	M8 M10	120
MPAL64M113101	MPAL64M113103															
MPAL64M114101	MPAL64M114103	4	17	95	108	67	72	26	42.5	10	25	26	19	19	M10 M12	190
MPAL64M114121	MPAL64M114123															
MPAL64M115121	MPAL64M115123	5	23	110	126	79	84	32	49	12	30	31	23	22	M12 M16	300
MPAL64M115161	MPAL64M115163															



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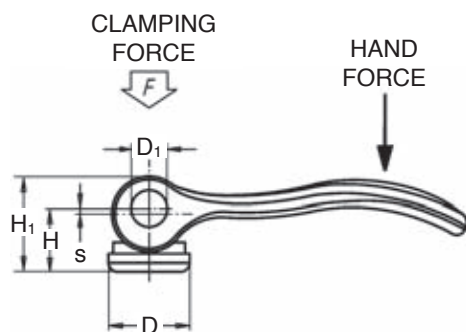


Fig. 1

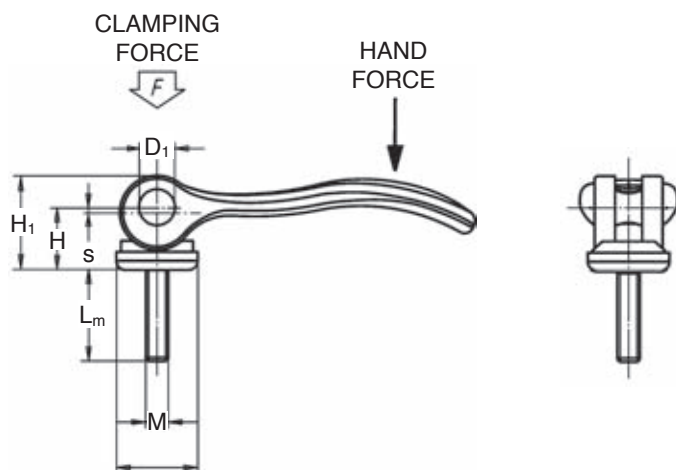


Fig. 2

Fig. 1 • **LEVER** – Cast Aluminum, Powder-Coated, Black • **THRUST WASHER** – Nylon, Fiberglass Reinforced
• **HINGE PINS** – Stainless Steel • **THREADED INSERT** – Steel

Catalog Number	Size	R ±1	R ₁	H	H ₁	D	D ₁	B	B ₁	M	Clamping Force F Approx. N	Hand Force Approx. N	s Throw	Approx. Weight g
MPAL32M101105	1	70.4	79.2	14.5	22	18	9	21.5	15	M5	4000	120	1.2	29
MPAL32M101106										M6				
MPAL32M201108	2	96	108	18	28.5	27	11	33.2	24	M8	8000	350	1.5	91

Fig. 2 • **LEVER** – Cast Aluminum, Powder-Coated, Black • **THRUST WASHER** – Nylon, Fiberglass Reinforced
• **HINGE PINS** – Stainless Steel • **SCREW** – Steel, Blue Chromated

Catalog Number*	Size	L _m Screw Length				M	Clamping Force F Approx. N	Hand Force Approx. N	s Throw
MPAL32M101105X□□	1	20	—	40	—	M5	4000	120	1.2
MPAL32M101106X□□		20	—	40	—	M6			
MPAL32M201108X□□	2	—	25	—	50	M8	8000	350	1.5
MPAL32M201110X□□		—	25	—	50	M10			

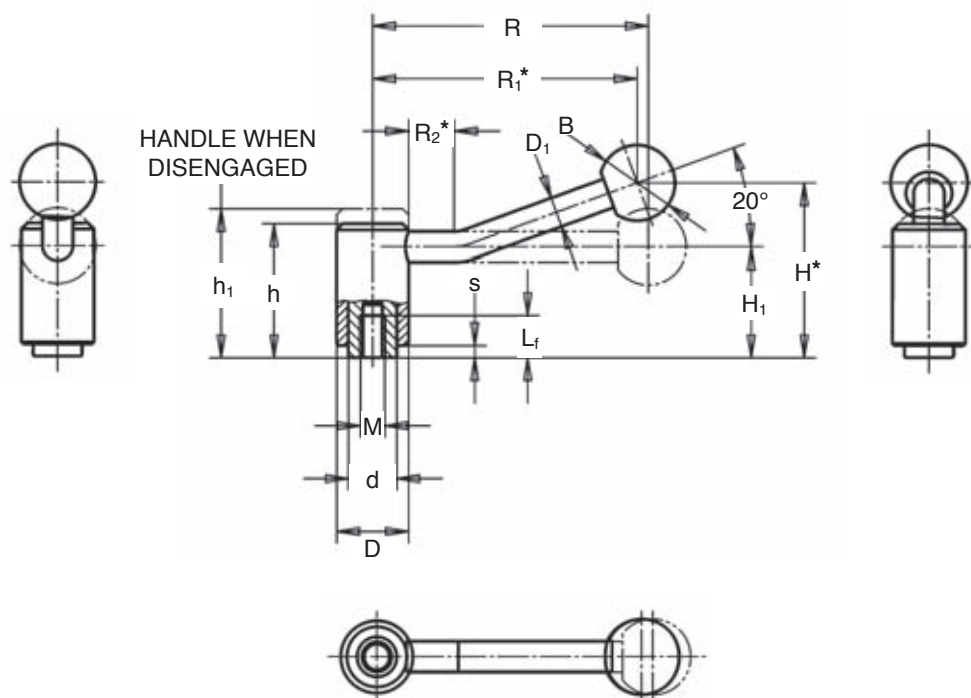
*To complete part number fill boxes with L_m dimension.

LEVERS, ADJUSTABLE TENSION

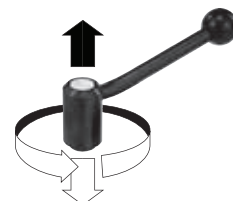
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• **LEVER** – Steel, Powder-Coated, Black • **KNOB** – Plastic, Black • **THREADED INSERT** – Steel

Catalog Number		Size	L _f	R	R ₁ [*]	R ₂ [*]	H [*]	H ₁	h	h ₁	s	D	D ₁	d	B	M	Approx. Weight g
0 Degrees	20 Degrees																
MPAL63M701082	MPAL63M701081	1	14	92	88	15	58.5	37	44.5	49.5	4.5	24	10	16	25	M8 M10	170
MPAL63M701102	MPAL63M701101						68.5	42	51.5	57.5	5.5	28	12	19		M10 M12	260
MPAL63M702102	MPAL63M702101	2	17	111	106		81	47	58	65	6	33	13	23	32	M12 M16	400
MPAL63M702122	MPAL63M702121																
MPAL63M703122	MPAL63M703121	3	23	134.5	128.5		89.5	56.5	85	76.5	7.5	41	30	M16 M20		670	
MPAL63M703162	MPAL63M703161																
MPAL63M704162	MPAL63M704161	4	27	134													
MPAL63M704202	MPAL63M704201																
MPAL63M704242	MPAL63M704241																

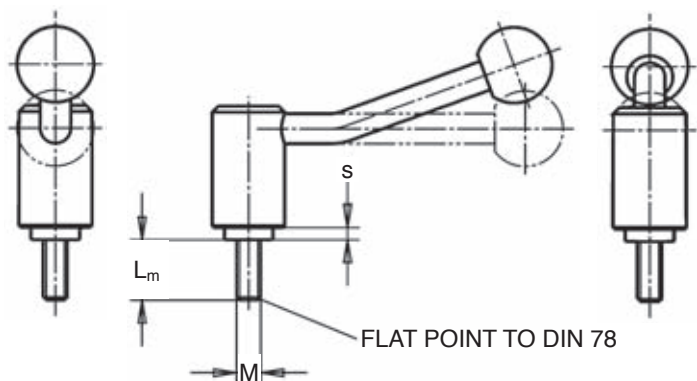
*Dimension H, R₁ & R₂ applies to 20° levers only.

LEVERS, ADJUSTABLE TENSION

RoHS
COMPLIANT

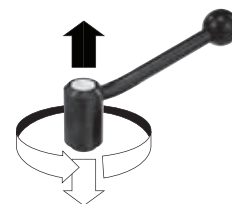


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NOTE: For more drawing specifications, refer to previous page.

**LIFT TO
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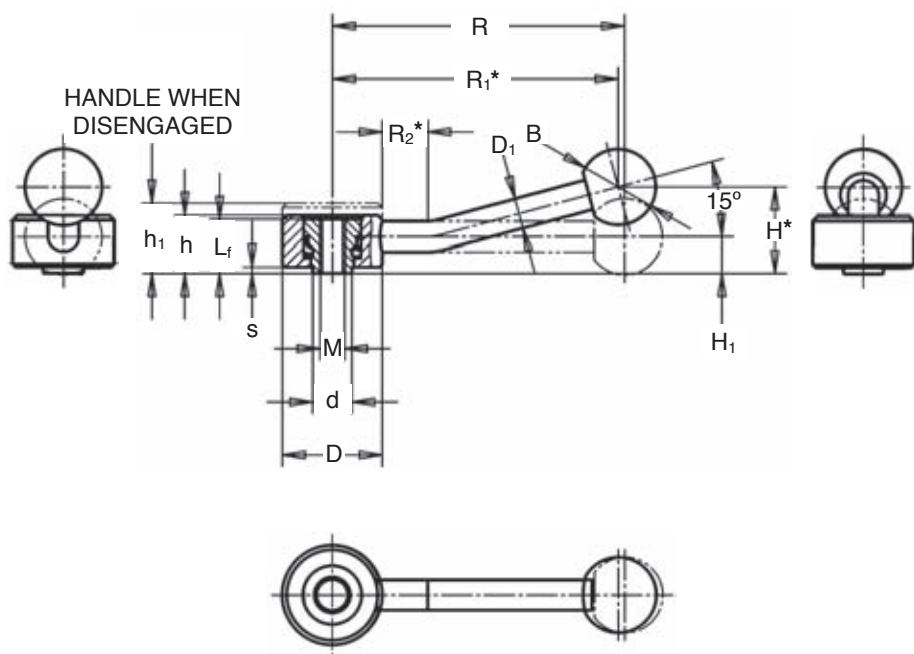
• **LEVER** – Steel, Powder-Coated, Black • **KNOB** – Plastic, Black • **SCREW** – Steel

Catalog Number*		Size	L _m Screw Length										s	M
0 Degrees	20 Degrees													
MPAL63M801082X ☐	MPAL63M801081X ☐	1	15	20	25	30	40	50	60	—	—	—	4	M8
MPAL63M801102X ☐	MPAL63M801101X ☐		15	20	25	30	40	50	60	—	—	—		M10
MPAL63M801122X ☐	MPAL63M801121X ☐		15	20	25	30	40	50	60	—	—	—		M12
MPAL63M802122X ☐	MPAL63M802121X ☐	2	—	20	25	30	40	50	60	—	—	—	5	M12
MPAL63M803122X ☐	MPAL63M803121X ☐	3	—	20	25	30	40	50	60	70	80	90		M12
MPAL63M803162X ☐	MPAL63M803161X ☐		—	20	25	30	40	50	60	70	80	90		M16
MPAL63M804162X ☐	MPAL63M804161X ☐	4	—	—	—	30	40	50	60	70	80	90	6	M16
MPAL63M804202X ☐	MPAL63M804201X ☐		—	—	—	30	40	50	60	70	80	90		M20
MPAL63M804242X ☐	MPAL63M804241X ☐		—	—	—	30	40	50	60	70	80	90		M24

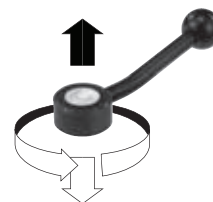
*To complete part number fill boxes with L_m dimension.

LEVERS, ADJUSTABLE TENSION - Low Profile

RoHS
COMPLIANT



LIFT TO
DISENGAGE



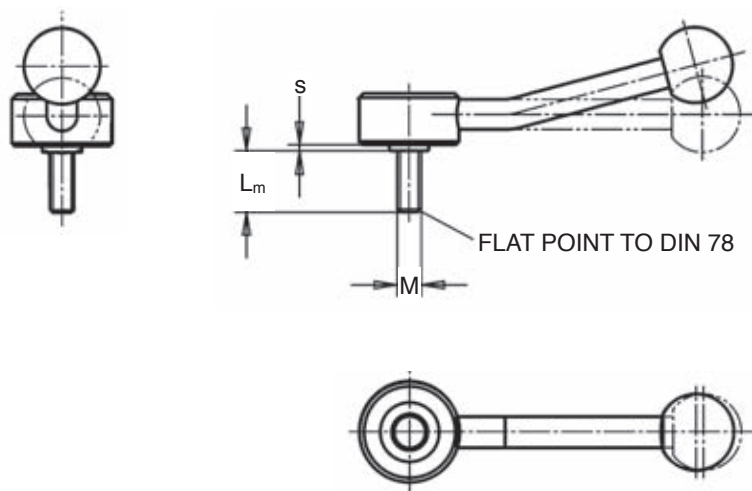
• **LEVER** – Steel, Black Oxide Finish • **KNOB** – Plastic, Black • **THREADED INSERT** – Steel

Catalog Number		Size	L _f	R	R ₁ [*]	R ₂ [*]	H [*]	H ₁	h	h ₁	s	D	D ₁	d	B	M	Approx. Weight g		
0 Degrees	15 Degrees																		
MPAL63M901061	MPAL63M901062	1	18	102	100	15	29	12	19	23	2	33	10	13	25	M6 M8	160		
MPAL63M901081	MPAL63M901082						38	13.5	22	26		41	12	19	30	M10 M12	290		
MPAL63M902101	MPAL63M902102	2	21	131	127		48	17	28	33		2	45	14	23	37	M12 M16	450	
MPAL63M902121	MPAL63M902122																		
MPAL63M903121	MPAL63M903122	3	27	148	145														
MPAL63M903161	MPAL63M903162																		

*Dimension H, R₁ & R₂ applies to 15° levers only.

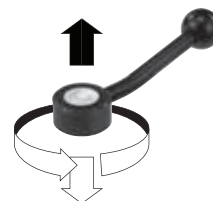
LEVERS, ADJUSTABLE TENSION - Low Profile

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NOTE: For more drawing specifications, refer to previous page.

LIFT TO
DISENGAGE



• **LEVER** – Steel, Black Oxide Finish • **KNOB** – Plastic, Black • **SCREW** – Steel

Catalog Number*		Size	L _m Screw Length								s	M
0 Degrees	15 Degrees											
MPAL64M001081X ☐	MPAL64M001082X ☐	1	15	20	25	30	40	50	60	2	M8	
MPAL64M001101X ☐	MPAL64M001102X ☐		15	20	25	30	40	50	60		M10	
MPAL64M002101X ☐	MPAL64M002102X ☐	2	—	20	25	30	40	50	60		M12	
MPAL64M002121X ☐	MPAL64M002122X ☐		—	20	25	30	40	50	60			M16
MPAL64M003121X ☐	MPAL64M003122X ☐	3	—	20	25	30	40	50	60			
MPAL64M003161X ☐	MPAL64M003162X ☐		—	20	25	30	40	50	60			

*To complete part number fill boxes with L_m dimension.