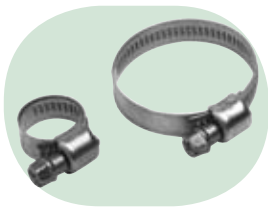
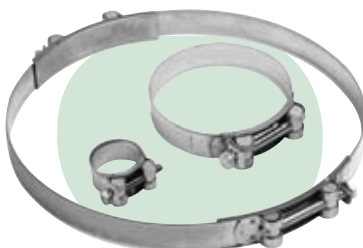


Miscellaneous

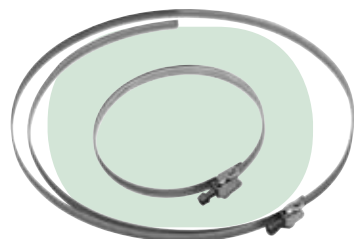




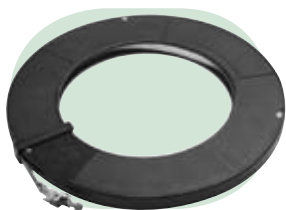
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12-4 & 12-5



12-6



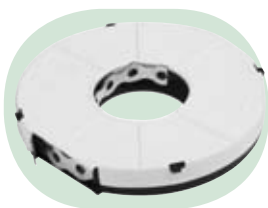
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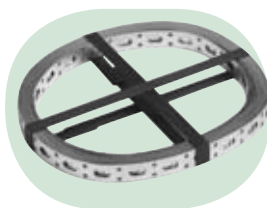
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12-6



12-7



12-7



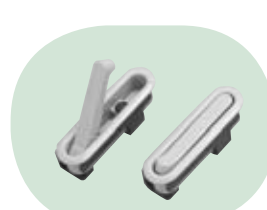
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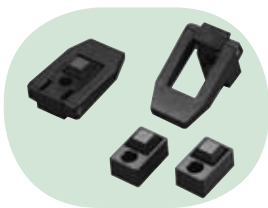
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12-9



12-10



12-11



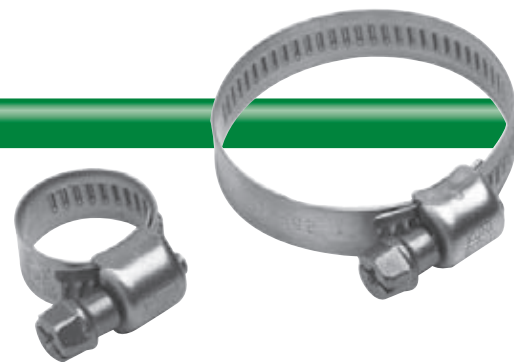
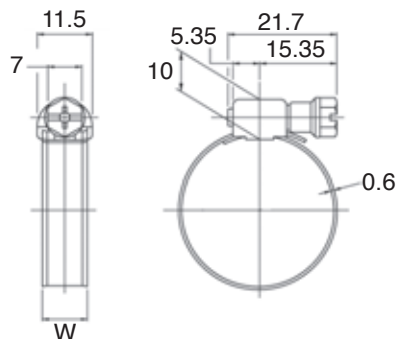
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12-13

CLAMPS, 5 & 9 mm BAND

RoHS
COMPLIANT

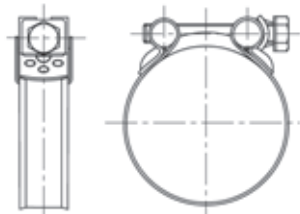


• BAND • HOUSING • SCREW, 7 mm HEX HEAD SLOTTED

Catalog Number		Diameter Min. – Max.	W Band mm	Max. Working Torque N•m (kgf•m)
• BAND – Stainless Steel AISI 304 • HOUSING & SCREW – Carbon Steel, Nickel Plated	• BAND, HOUSING & SCREW – Stainless Steel, AISI 304 V4			
MRAY1NMM007	—	07 – 11	5	0.4 (.041)
MRAY1NMM008	MRAY1NMMX008	08 – 16	9	4.5 (.459)
MRAY1NMM009	—	09 – 14		
MRAY1NMM010	MRAY1NMMX010	10 – 17		
MRAY1NMM012	MRAY1NMMX012	12 – 20		
MRAY1NMM015	MRAY1NMMX015	15 – 25		
MRAY1NMM016	MRAY1NMMX016	16 – 24		
MRAY1NMM019	MRAY1NMMX019	19 – 28		
MRAY1NMM020	MRAY1NMMX020	20 – 32		
MRAY1NMM025	MRAY1NMMX025	25 – 40	9	4 (.408)
MRAY1NMM026	MRAY1NMMX026	25 – 45		
MRAY1NMM032	MRAY1NMMX032	32 – 50		
MRAY1NMM040	MRAY1NMMX040	40 – 60		
MRAY1NMM050	MRAY1NMMX050	50 – 70		
MRAY1NMM058	MRAY1NMMX058	58 – 75		
MRAY1NMM060	MRAY1NMMX060	60 – 80		
MRAY1NMM070	MRAY1NMMX070	70 – 90		
MRAY1NMM080	MRAY1NMMX080	80 – 100	9	
MRAY1NMM090	MRAY1NMMX090	90 – 110		
MRAY1NMM100	MRAY1NMMX100	100 – 120		
MRAY1NMM110	MRAY1NMMX110	110 – 130		
MRAY1NMM120	MRAY1NMMX120	120 – 140		
MRAY1NMM140	MRAY1NMMX140	140 – 160		

CLAMPS, BOLT

RoHS
COMPLIANT



- **BAND** – Steel, Zinc Plated
- **SCREW, HEX HEAD** – 8.8 Steel
- **BARRELS** – F-212 Steel

Catalog Number	Diameter Min. – Max.	Band mm	Max. Working Torque N•m (kgf•m)
MRAY1NMN023	23 – 25	20 X 0.8	9.5 (0.97)
MRAY1NMN026	26 – 28		
MRAY1NMN029	29 – 31		
MRAY1NMN032	32 – 35		
MRAY1NMN036	36 – 39		
MRAY1NMN040	40 – 43		
MRAY1NMN044	44 – 47		
MRAY1NMN048	48 – 51		
MRAY1NMN052	52 – 55		
MRAY1NMN056	56 – 59	23 X 1.2	23 (2.35)
MRAY1NMN060	60 – 63		
MRAY1NMN064	64 – 67		
MRAY1NMN068	68 – 73		
MRAY1NMN074	74 – 79		
MRAY1NMN080	80 – 85		
MRAY1NMN086	86 – 91		
MRAY1NMN092	92 – 97	30 X 1.7	46 (4.69)
MRAY1NMN098	98 – 103		
MRAY1NMN104	104 – 112		
MRAY1NMN113	113 – 121		
MRAY1NMN122	122 – 130		
MRAY1NMN131	131 – 139		
MRAY1NMN140	140 – 148		
MRAY1NMN149	149 – 161		
MRAY1NMN162	162 – 174		
MRAY1NMN175	175 – 187		
MRAY1NMN188	188 – 200		
MRAY1NMN201	201 – 213		
MRAY1NMN214	214 – 226		
MRAY1NMN227	227 – 239		
MRAY1NMN240	240 – 252		
MRAY1NMN248	248 – 260		

Continued on the next page

CLAMPS, BOLT

RoHS
COMPLIANT

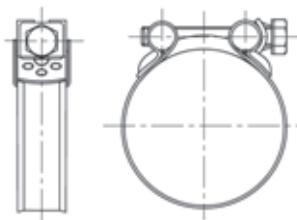


Fig. 1

Fig. 1 • **DOUBLE LOCKING BAND** – Steel, Zinc Plated

- **SCREW, HEX HEAD** – 8.8 Steel
- **BARRELS** – F-212 Steel

Catalog Number	Diameter Min. – Max.	Band mm	Max. Working Torque N•m (kgf•m)
MRAY1NMND260	260 – 280	30 X 1.7	46 (4.69)
MRAY1NMND280	280 – 300		
MRAY1NMND300	300 – 325		
MRAY1NMND325	325 – 350		
MRAY1NMND350	350 – 375		
MRAY1NMND375	375 – 400		
MRAY1NMND400	400 – 425		
MRAY1NMND425	425 – 450		
MRAY1NMND450	450 – 475		
MRAY1NMND475	475 – 500		



Fig. 2

Fig. 2 • **BAND** – Stainless Steel, AISI 304 • DIN 1.4301

- **SCREW, CLASS A2 HEX HEAD**
- **BARRELS** – Stainless Steel, AISI 303

Catalog Number	Diameter Min. – Max.	Band mm	Max. Working Torque N•m (kgf•m)
MRAY1NMNX032	32 – 35	23 X 1.2	11 (1.12)
MRAY1NMNX036	36 – 39		
MRAY1NMNX040	40 – 43		
MRAY1NMNX044	44 – 47		
MRAY1NMNX048	48 – 51		
MRAY1NMNX052	52 – 55		
MRAY1NMNX056	56 – 59		
MRAY1NMNX060	60 – 63		
MRAY1NMNX064	64 – 67		
MRAY1NMNX068	68 – 73		
MRAY1NMNX074	74 – 79		
MRAY1NMNX080	80 – 85		
MRAY1NMNX086	86 – 91		
MRAY1NMNX092	92 – 97		
MRAY1NMNX098	98 – 103		
MRAY1NMNX104	104 – 112		
MRAY1NMNX113	113 – 121		
MRAY1NMNX122	122 – 130		
MRAY1NMNX131	131 – 139		
MRAY1NMNX140	140 – 148	30 X 1.7	
MRAY1NMNX149	149 – 161		
MRAY1NMNX162	162 – 174		
MRAY1NMNX175	175 – 187		
MRAY1NMNX188	188 – 200		

CONTINUOUS BAND & CLAMPS



- **CONTINUOUS TOOTHED BAND** – Stainless Steel, AISI 430
- **CLAMP HOUSING** – Stainless Steel
- **SCREW, 7 mm HEX HEAD SLOTTED** – Steel, Zinc Plated

Catalog Number	Diameter Min. – Max.	Band mm	Max. Working Torque N•m (kgf•m)
MRAY1NMVN040	25 – 40	9 X 0.6	4 (.408)
MRAY1NMVN045	25 – 45		
MRAY1NMVN050	32 – 50		
MRAY1NMVN060	40 – 60		
MRAY1NMVN070	50 – 70		
MRAY1NMVN080	60 – 80		
MRAY1NMVN090	60 – 90		
MRAY1NMVN110	60 – 110		
MRAY1NMVN135	60 – 135		
MRAY1NMVN145	60 – 145		
MRAY1NMVN170	60 – 170		
MRAY1NMVN215	60 – 215		
MRAY1NMVN270	60 – 270		
MRAY1NMVN325	60 – 325		
MRAY1NMVN380	60 – 380		
MRAY1NMVN425	60 – 425		
MRAY1NMVN525	60 – 525		
MRAY1NMVN660	60 – 660		



- **30 m CONTINUOUS TOOTHED BAND** – Stainless Steel, AISI 430

Catalog Number	Band mm	Length m
MRAY1NMNAV30	9 X 0.6	30



- **CLAMP HOUSING, MULTI-DIRECTIONAL** – Stainless Steel
- **SCREW, 7 mm HEX HEAD SLOTTED** – Steel, Zinc Plated

**Band Clamps
Catalog Number**

MRAY1NMUS0N

Sold in Boxes of 50 Pieces



- **CONTINUOUS TOOTHED BAND** – Stainless Steel, AISI 430
- **CLAMP HOUSING, MULTI-DIRECTIONAL** – Stainless Steel
- **SCREW, 7 mm HEX HEAD SLOTTED** – Steel, Zinc Plated

Autoblock Kit Catalog Number

MRAY1NMNAV3

Includes: 3 m Band & 8 Band Clamps

BANDING, PERFORATED

RoHS
COMPLIANT

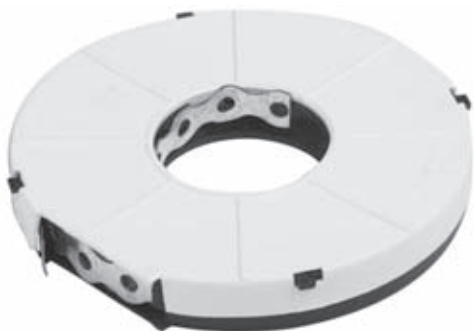


Fig. 1



Fig. 2

Fig. 1 • **ROUNDED BAND** – Steel, Zinc Plated

Catalog Number	Band mm	Roll Length m	Max. Strength N (kgf)
MRAY5NMBPP12	12 X 0.8	10	480 (48.9)
MRAY5NMBPP17	17 X 0.8		660 (67.3)
MRAY5NMBPP26	26 X 1		1410 (143.8)

All-purpose suspension band for various kinds of pipe.

Fig. 1 • **ROUNDED BAND** – Aluminum
• **LOW CORROSION RESISTANCE**

Catalog Number	Band mm	Roll Length m	Max. Strength N (kgf)
MRAY5NMBPA12	12 X 1	10	180 (18.4)
MRAY5NMBPA17	17 X 1		240 (24.5)

Low corrosion plants.

Fig. 1 • **ROUNDED BAND** – Stainless Steel, AISI 316 INOX
• **GOOD CORROSION RESISTANCE**

Catalog Number	Band mm	Roll Length m	Max. Strength N (kgf)
MRAY5NMBPX12	12 X 0.8	10	570 (58.1)
MRAY5NMBPX17	17 X 0.8		900 (91.8)

High corrosion plants.

Fig. 2 • **MULTI HOLE BAND** – Steel, Zinc Plated

Catalog Number	Hole Shape	Band mm	Roll Length m	Max. Strength N (kgf)
MRAY5NMBPM176/PV	Oval	17 X 0.6	10	1050 (107.1)
MRAY5NMBPM258/PV		25 X 0.75		2000 (203.9)
MRAY5NMBPM176/RD	Round	17 X 0.6	10	1050 (107.1)
MRAY5NMBPM258/RD		25 X 0.75		2000 (203.9)

All-purpose suspension band for various kinds of pipe.

TAPE



Fig. 1 • TAPE – Aluminum, Self-Adhesive
• **TEMPERATURE RANGE** – -10° to +80°C

Catalog Number	Thickness μm	Width mm	Length m
MRAY4NMN30H050	30	50	45
MRAY4NMN30H075		75	
MRAY4NMN30H100		100	
MRAY4NMN40H050	40	50	
MRAY4NMN40H075		75	
MRAY4NMN40H100		100	
MRAY4NMN50H050	50	50	
MRAY4NMN50H075		75	

For taping joints and seams against steam moisture and vapor.



Fig. 1

Fig. 2 • TAPE – Aluminum, Self-Adhesive, Reinforced
• **TEMPERATURE RANGE** – -10° to +80°C
• **TENSILE STRENGTH** – 160N/25 mm

Catalog Number	Thickness μm	Width mm	Length m
MRAY4NMNRH050	9	50	45
MRAY4NMNRH075		75	
MRAY4NMNRH100		100	



Fig. 2

Fig. 3 • TAPE – Polyethylene, Self-Adhesive
• **ADHESIVE** – Rubber/Resin
• **TEMPERATURE RANGE** – +5° to 30°C

Catalog Number	Thickness mm	Width mm	Length m
MRAY4NMNTM25	0.25	50	25

Bonds to most surfaces, water-resistant.



Fig. 3

CABLE TIES & ACCESSORIES

RoHS
COMPLIANT



- **TIE** – UL Listed 6.6 Nylon, Self-Locking
- **TEMPERATURE RANGE** – -40° to +85°C

Priced Per 100 Pieces

Catalog Number		Length X Width	Diameter Max.	Min. Tightness N
White	Black			
MRAY3NMRB080/2	MRAY3NMRN080/2	80 X 2.5	15	80
MRAY3NMRB102/2	MRAY3NMRN102/2	102 X 2.5	19	
MRAY3NMRB140/2	MRAY3NMRN140/2	140 X 2.5	34	
MRAY3NMRB160/2	MRAY3NMRN160/2	160 X 2.5	40	
MRAY3NMRB202/2	MRAY3NMRN202/2	202 X 2.5	50	
MRAY3NMRB140/3	MRAY3NMRN140/3	140 X 3.6	34	180
MRAY3NMRB202/3	MRAY3NMRN202/3	202 X 3.6	50	
MRAY3NMRB302/3	MRAY3NMRN302/3	302 X 3.6	77	
MRAY3NMRB120/4	MRAY3NMRN120/4	120 X 4.8	25	220
MRAY3NMRB160/4	MRAY3NMRN160/4	160 X 4.8	40	
MRAY3NMRB186/4	MRAY3NMRN186/4	186 X 4.8	46	
MRAY3NMRB200/4	MRAY3NMRN200/4	200 X 4.8	50	
MRAY3NMRB250/4	MRAY3NMRN250/4	250 X 4.8	60	
MRAY3NMRB286/4	MRAY3NMRN286/4	286 X 4.8	75	
MRAY3NMRB368/4	MRAY3NMRN368/4	368 X 4.8	100	
MRAY3NMRB428/4	MRAY3NMRN428/4	428 X 4.8	115	
MRAY3NMRB202/7	MRAY3NMRN202/7	202 X 7.6	48	540
MRAY3NMRB292/7	MRAY3NMRN292/7	292 X 7.6	75	
MRAY3NMRB368/7	MRAY3NMRN368/7	368 X 7.6	100	
MRAY3NMRB450/7	MRAY3NMRN450/7	450 X 7.6	125	
MRAY3NMRB525/9	MRAY3NMRN525/9	525 X 9	150	790
MRAY3NMRB702/9	MRAY3NMRN702/9	702 X 9	185	
MRAY3NMRB798/9	MRAY3NMRN798/9	798 X 9	230	



- **CABLE TIE MOUNTING BASE** – UL Listed 6.6 Nylon
- **ADHESIVE BACK**

Priced Per 100 Pieces

Catalog Number		Base mm	Hole mm
White	Black		
MRAY3NMBB19	MRAY3NMBN19	19 X 19	4
MRAY3NMBB28	MRAY3NMBN28	28 X 28	5



- **CABLE TIE GUN**

Catalog Number	For Nylon Tie Width mm
MRAY3NM25	2.5 to 4.8
MRAY3NM36	3.6 to 9

www.allmetricsmallparts.com

HANGER HOOK

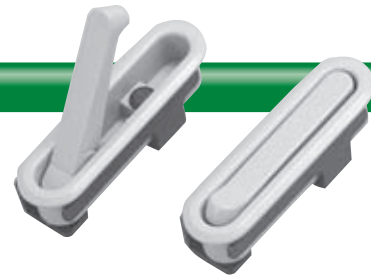


• APPLICATIONS

Vehicles / Furniture

• CHARACTERISTICS

Compact, storable hanger for coats and hats. To use, simply pull down the hanger to hook clothing. When not needed, store away for a neat appearance.

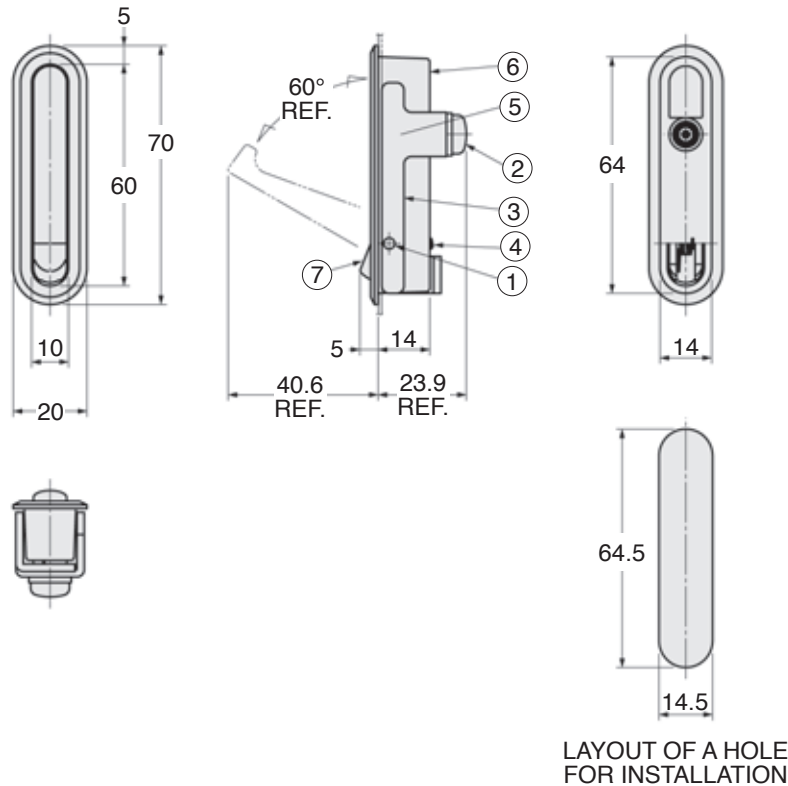


• PARTS LIST

No.	Part Name	Material	Finish	Qty.
1	Pin	Steel	Zinc Plated	1
2	Screw with Washer		Zinc Plated Black	
3	Mounting Bracket		—	
4	Spring	Stainless Steel	—	
5	Plug Cushion	Rubber	Black	
6	Housing	Aluminium	Painted Light Beige	
7	Hanger			

• HANGER HOOK

Catalog Number	Applicable Panel Thickness	Net Weight g
MRAT01MTM262	1.0 ~ 3.2	50



PULL-UP STAND & PLASTIC FOOT



• APPLICATIONS

Measuring instruments / Office automation appliances / Precision instruments

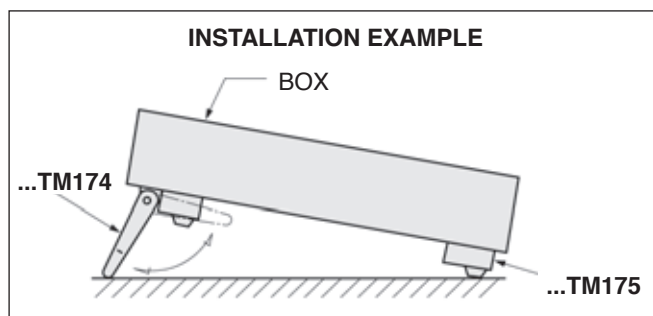
• CHARACTERISTICS

These are used to make the operation panels more visible to users. The arm of ...TM174 can be retracted under while the device is not in use. A built in mechanism holds the arm in either open or closed position. ...TM175 can be used by itself as a rubber foot.

• PULL-UP STAND

Catalog Number	Allowable Load N (kgf)	Net Weight g
MRAT05MTM174	29.4 (3)	12.5

No.	Part Name	Material	Finish	Qty.
1	Arm	Polycarbonate	Black	1
2	Base			
3	Pin	Stainless Steel	—	
4	Cushion	Urethane	Black	

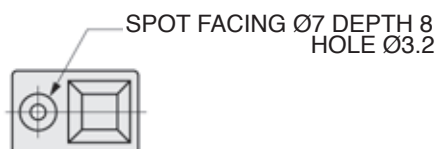
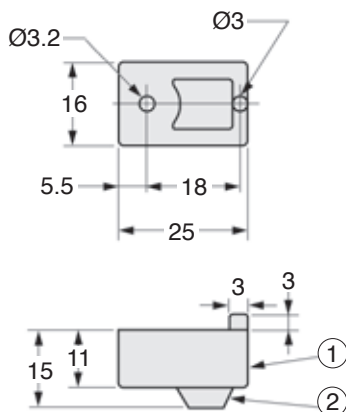


• PLASTIC FOOT

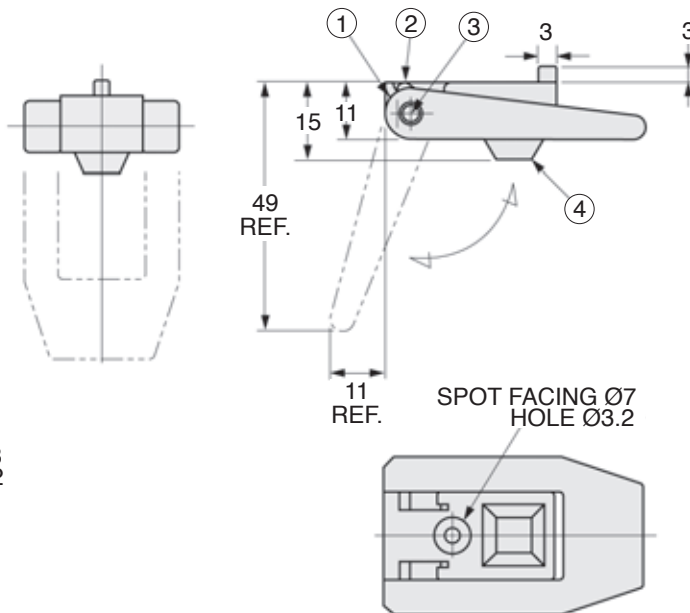
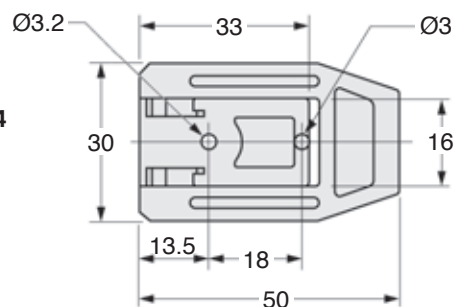
Catalog Number	Net Weight g
MRAT05MTM175	4.5

No.	Part Name	Material	Finish	Qty.
1	Base	Polycarbonate	Black	1
2	Cushion	Urethane		

MRAT05MTM175



MRAT05MTM174



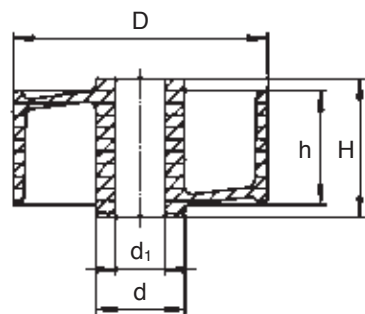


Fig. 1

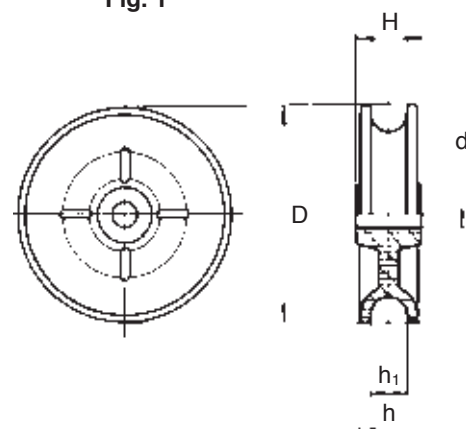


Fig. 2

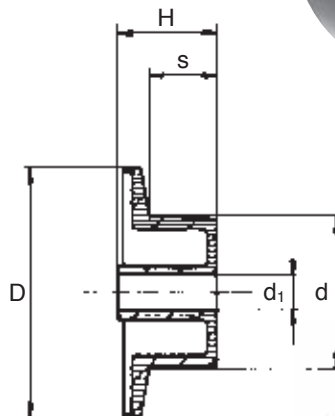


Fig. 3



Fig. 1



Fig. 2



Fig. 3

Fig. 1 • **WHEEL** – Nylon 6, Gray

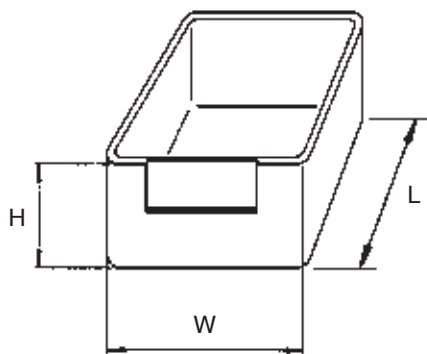
Catalog Number	D	H	d	d ₁	h	Weight g
MRAX9NM7601	63	34	22	12.2	28	57
MRAX9NM7602	80	37	22	12.2	32	95
MRAX9NM7603	100	39	24	12.2	32	140

Fig. 2 • **ROLLER** – Nylon 6, Black or Natural

Catalog Number	D	H	d	h	h ₁	Color	Weight g
MRAX9NM7604	30	11.3	5.1	10	6	Black	7
MRAX9NM7605	50	15.5	6.1	14	8.5	Black	15
MRAX9NM7606	55	20.7	11	20.5	11	Natural	24
MRAX9NM7607	60	19.5	8.1	15	10	Black	20
MRAX9NM7610	100	27	12	22	17	Natural	65

Fig. 3 • **WHEEL** – Nylon 6, Black

Catalog Number	D	H	d	d ₁	s	Weight g
MRAX9NM7609	56	22	40	8.2	15	17



• **CASE** – Polystyrene, Reinforced, Green

Catalog Number	L	W	H	Weight g
MRAX8NM7101	60	30	30	10
MRAX8NM7102	60	60	30	15
MRAX8NM7103	120	60	30	32
MRAX8NM7104	120	120	30	54
MRAX8NM7105	60	60	52	24
MRAX8NM7106	120	60	52	45
MRAX8NM7107	120	120	52	70
MRAX8NM7108	240	120	52	190