

Air Preparation Equipment



FRLS

- Improve system efficiency
- Side-by-side and stacking units available
- Modular design for easy connection and maintenance
- Variety of port sizes from #10-30 to 1" NPT

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FILTERS

- Capture solid particulates and remove water by "spinning" the air centrifugally
- Smaller particles are captured as the air flows through the filter element
- Variety of port sizes from #10-32 to 1" NPT
- Manual, automatic, and semi-automatic drain types
- Polycarbonate or metal bowls
- 25 micron filtration standard, 5 micron also available

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REGULATORS

- Adjustable from 7 to 125 psig
- 7 to 30 or 7 to 60 psig models with spring also available
- Variety of port sizes from #10-32 to 1" NPT

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LUBRICATORS

- *Pneumatic actuators and valves perform better and last longer when properly lubricated*
- *Bowl serves as a reservoir*
- *Amount of oil dispersed is controlled by an adjustable needle valve*
- *Variety of port sizes from #10-32 to 1" NPT*
- *Polycarbonate or metal bowls*

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ACCESSORIES

- *Relieving shut-off/lock-out valves*
- *Drain and bowl options*
- *Replacement bowls*
- *Muffler and nipple*
- *Brackets, spacers, and other mounting hardware*

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MAXIMATIC® SERIES FRLS

FILTERS, REGULATORS & LUBRICATORS

Maximatic FRLs condition and prepare compressed air for use in fluid power systems. Pneumatic applications with properly conditioned air will operate longer, cost less and improve system efficiency. Clippard offers many different sizes from #10-32 to 1" NPT of filters, regulators, lubricators, and combination units. Their modular design and interconnecting brackets provide flexibility and facilitate simple field installation and/or modification.



Body Material	Die cast aluminum
Max. Operating Pressure	150 psig
Regulating Range	125 psig standard; 30 psig and 60 psig optional
Regulator Type	Relieving
Filter Drain	Semi-automatic differential; automatic available <i>When the air supply is below 7 psig, the semi-automatic drain will open</i>
Bowl Material	Polycarbonate, metal, and cast aluminum
Bowl Guard	Steel (on models indicated)
Filtration	25 micron sintered brass filter standard; 5 micron available

FILTERS

Filters capture solid particulate and remove water by spinning the air centrifugally. Water and larger particles are thrown against the side of the bowl where they condense and/or fall to the lower part of the bowl. Smaller particles are captured as the air flows through the filter element.

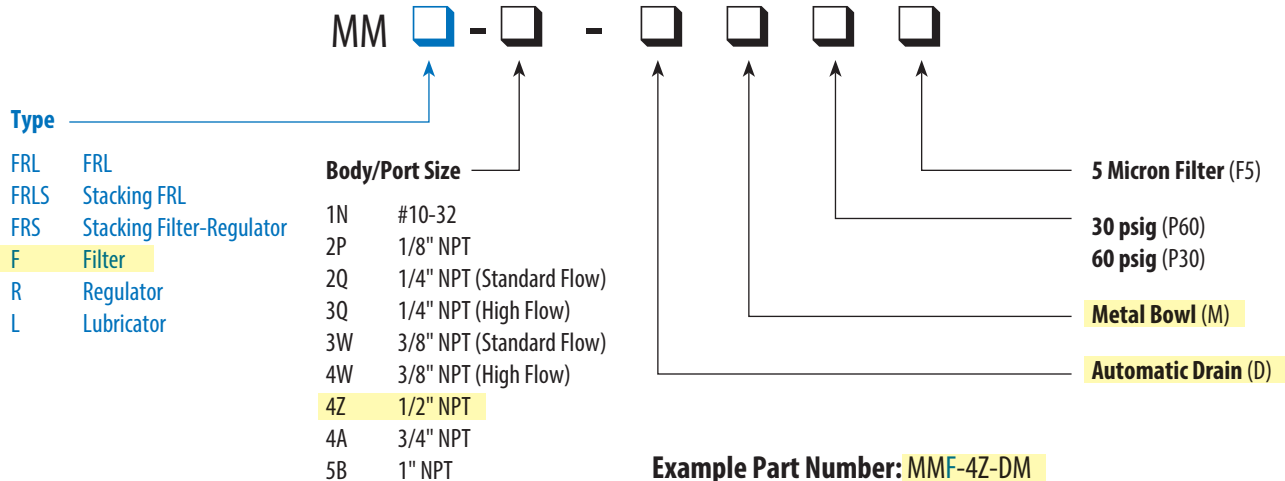
REGULATORS

Controlling pressure is an important requirement in all systems. Maximatic regulators are adjustable from 7 to 125 psig. For applications requiring better resolution, 7 to 30 or 7 to 60 psig models with spring are available. The #10-32 size is a piston-style due to its small size, while the 1/8" to 1" feature a diaphragm design.

LUBRICATORS

Pneumatic actuators and valves perform better and last longer when properly lubricated. The bowl serves as a reservoir and supplies oil through the pick-up tube when pressurized. The amount of oil dispersed is controlled by an adjustable needle valve.

ORDERING INFORMATION



Maximatic® Series FRLs

All FRL components are a modular design which allow easy connection and disconnection of the components for simple installation and maintenance.

Die cast aluminum body

Lubricators increase component life by dispensing oil into the airline supply

25 micron filters standard, 5 micron optional

Filters prevent moisture and solid particulates from getting into compressed air lines

Manual, semi-automatic, or automatic drain

Regulator ensures a constant downstream air line pressure

Many Models In Stock & Available for Same-Day Shipping

For more information, visit clippard.com/link/frl



Bowl shield



Metal bowl with sight glass

- Large selection of convenient mounting hardware
- #10-32 through 1" NPT ports available
- Easy-to-view sight glass standard on all metal bowls
- Flow rates from 85 to 7,900 l/min
- Pressure gauge included

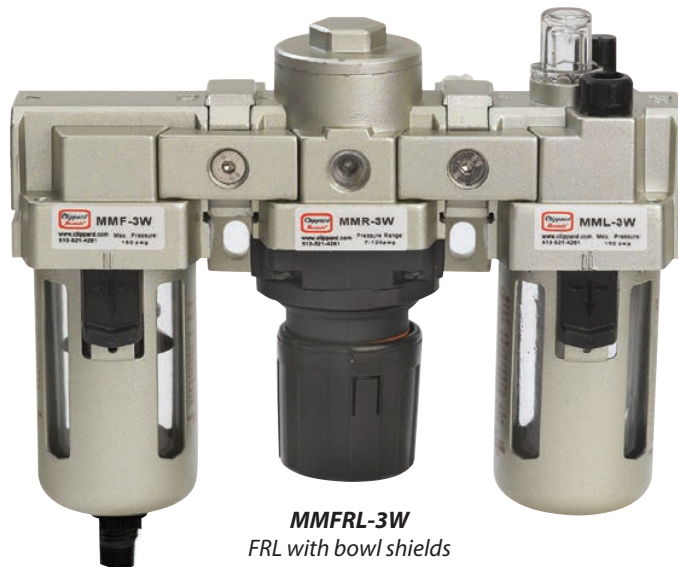
Polycarbonate bowls are standard on all filters and lubricators. Bowl shields are standard on MMF/MML 4A and 5B. Optional metal bowl available for filters and lubricators.

MAXIMATIC® SERIES FRLS

FILTER-REGULATOR-LUBRICATOR COMBINATION UNITS



MMFRL-2P-D
FRL with polycarbonate bowls
& automatic drain



MMFRL-3W
FRL with bowl shields
& semi-automatic drain

Combination FRLs provide air filtration, regulation and lubrication in one unit for easy mounting and installation. Includes L brackets and gauge.

Bowl: Polycarbonate standard. Steel bowl shields provided on models indicated. Metal bowls with sight glasses also available, add -M suffix to part number.

Regulating Range: 7 to 100 psig on MMFRL-1N, 7 to 125 psig on all others. 30 and 60 psig ranges also available (add -P30 or -P60 suffix to part number).

Drain: Semi-automatic standard on MMFRLS-3 series; manual standard on all others. Automatic drain available—add -D suffix to part number.

Note: Drains not available on lubricators.

Filtration: 25 micron filter standard. 5 micron filter available (add -F5 suffix to part number).

Port	Gauge Port	Flow Rate	Manual Drain	Semi-Auto Drain	Automatic Drain	Standard Bowl*	Gauge
#10-32	1/16" NPT	85 l/min	MMFRL-1N	-	MMFRL-1N-D*	Polycarbonate	PG-10-160J
1/8" NPT	1/8" NPT	510 l/min	MMFRL-2P	-	MMFRL-2P-D*	Polycarbonate	PG-15-160P
1/4" NPT	1/8" NPT	510 l/min	MMFRL-2Q	-	MMFRL-2Q-D*	Polycarbonate	PG-15-160P
1/4" NPT	1/8" NPT	2,000 l/min	-	MMFRL-3Q*	MMFRL-3Q-D*	Poly with Shield	PG-15-160P
3/8" NPT	1/8" NPT	2,000 l/min	-	MMFRL-3W*	MMFRL-3W-D*	Poly with Shield	PG-15-160P
3/8" NPT	1/4" NPT	4,000 l/min	MMFRL-4W	-	MMFRL-4W-D*	Poly with Shield	PG-20-160Q
1/2" NPT	1/4" NPT	4,000 l/min	MMFRL-4Z	-	MMFRL-4Z-D*	Poly with Shield	PG-20-160Q
3/4" NPT	1/4" NPT	4,500 l/min	MMFRL-4A-M	-	MMFRL-4A-M-D*	Poly with Shield	PG-20-160Q
1" NPT	1/4" NPT	5,100 l/min	MMFRL-5B-M	-	MMFRL-5B-M-D*	Poly with Shield	PG-20-160Q

*Add -M suffix to part number for metal bowl with sight glass

MAXIMATIC® SERIES FRLS

STACKING FILTER-REGULATOR-LUBRICATORS



Stacking FRLs provide air filtration, regulation and lubrication in one unit for easy mounting and installation. Includes L bracket and gauge

Bowl: Polycarbonate standard. Steel shield provided on models indicated. Metal bowl with sight glass also available, add -M suffix to part number.

Regulating Range: 7 to 100 psig on MMFRLS-1N, 7 to 125 psig on all others. 30 and 60 psig ranges also available (add -P30 or -P60 suffix to the part number).

Drain: Semi-automatic standard on MMFRLS-3/4/5 series; manual standard on all others. Automatic drain available—add -D suffix to part number.

Filtration: 25 micron filter standard. 5 micron filter available (add -F5 suffix to part number).



Port	Gauge Port	Flow Rate	Manual Drain	Semi-Auto Drain	Automatic Drain	Standard Bowl*	Gauge
#10-32	1/8" NPT	85 l/min	MMFRLS-1N	-	-	Polycarbonate	PG-10-160J
1/8" NPT	1/8" NPT	510 l/min	MMFRLS-2P	-	-	Polycarbonate	PG-15-160P
1/4" NPT	1/8" NPT	510 l/min	MMFRLS-2Q	-	-	Polycarbonate	PG-15-160P
1/4" NPT	1/8" NPT	1,700 l/min	-	MMFRLS-3Q*	MMFRLS-3Q-D*	Poly with Shield	PG-15-160P
3/8" NPT	1/8" NPT	1,700 l/min	-	MMFRLS-3W*	MMFRLS-3W-D*	Poly with Shield	PG-15-160P
3/8" NPT	1/4" NPT	3,000 l/min	-	MMFRLS-4W*	MMFRLS-4W-D*	Poly with Shield	PG-20-160Q
1/2" NPT	1/4" NPT	3,000 l/min	-	MMFRLS-4Z*	MMFRLS-4Z-D*	Poly with Shield	PG-20-160Q
3/4" NPT	1/4" NPT	4,000 l/min	-	MMFRLS-4A-M	MMFRLS-4A-DM	Poly with Shield	PG-20-160Q
1" NPT	1/4" NPT	4,000 l/min	-	MMFRLS-5B-M	MMFRLS-5B-DM	Poly with Shield	PG-20-160Q

*Add -M suffix to part number for metal bowl with sight glass

MAXIMATIC® SERIES FRLS

STACKING FILTER-REGULATOR-LUBRICATORS



MMFRS-3Q
Stacking filter-regulator
with bowl shield &
semi-automatic drain



MMFRS-2P
Stacking filter-regulator
with polycarbonate bowl
& manual drain

Stacking filter-regulator combinations provide air filtration and precise regulation in a single unit for easy mounting and installation where space is limited. Includes bracket and gauge.

Regulating Range

7 to 100 psig on MMFRS-1N, 7 to 125 psig on all others. 30 and 60 psig ranges also available (add -P30 or -P60 suffix to part number).

Bowl

Polycarbonate standard. Steel bowl shields provided on models indicated. Metal bowls with sight glasses also available, add -M suffix to part number.

Differential Drain

Semi-automatic standard on MMFRS-3/4/5 series; manual standard on all other models. When supply pressure is below 7 psig on all MMFRS-3 and MMFRS-4 models without metal bowls, the standard drain will open. An optional automatic drain is also available—add -D suffix to part number (not available with MMFRS-4A-M).

Filtration

25 micron filter standard. 5 micron filter available (add -F5 suffix to part number). Replacement filters with baffles are also available (p. 177).

Port	Gauge Port	Manual Flow Rate	Semi-Auto Drain	Automatic Drain	Standard Drain	Bowl*	Gauge
#10-32	1/16" NPT	85 l/min	MMFRS-1N	-	-	Polycarbonate	PG-10-160J
1/8" NPT	1/8" NPT	540 l/min	MMFRS-2P	-	MMFRS-2P-D*	Polycarbonate	PG-15-160P
1/4" NPT	1/8" NPT	540 l/min	MMFRS-2Q	-	MMFRS-2Q-D*	Polycarbonate	PG-15-160P
1/4" NPT	1/8" NPT	2,000 l/min	-	MMFRS-3Q*	MMFRS-3Q-D*	Poly with Shield	PG-15-160P
3/8" NPT	1/8" NPT	2,000 l/min	-	MMFRS-3W*	MMFRS-3W-D*	Poly with Shield	PG-15-160P
3/8" NPT	1/4" NPT	4,000 l/min	-	MMFRS-4W*	MMFRS-4W-D*	Poly with Shield	PG-20-160Q
1/2" NPT	1/4" NPT	4,000 l/min	-	MMFRS-4Z*	MMFRS-4Z-D*	Poly with Shield	PG-20-160Q
3/4" NPT	1/4" NPT	4,500 l/min	-	MMFRS-4A-M	-	Metal with Site Glass	PG-20-160Q
1" NPT	1/4" NPT	5,500 l/min	-	MMFRS-5B-M	MMFRS-5B-D*	Metal with Site Glass	PG-20-160Q

*Add -M suffix to part number for metal bowl with sight glass

MAXIMATIC® SERIES FRLS

FILTERS



MMF-3Q-D
Filter with bowl shield
& automatic drain



MMF-2Q
Filter with polycarbonate
bowl & manual drain



MMF-2Q-D
Filter with polycarbonate
bowl & automatic drain



MMF-2Q-MD
Filter with metal bowl
& automatic drain

Maximatic filters remove moisture and contaminants, and provide air filtration through a 25 micron filter. Replacement 25 micron and 5 micron filters are available.

Bowl: Polycarbonate standard. Cast steel bowl shield provided on models indicated. Metal bowl with sight glass also available, add -M suffix to part number.

Drain: Semi-automatic standard on MMFRLS-3/4/5 series; manual standard on all others. Automatic drain available—add -D suffix to part number.

Filtration: 25 micron filter standard. 5 micron filter available (add -F5 suffix to part number). Replacement filters with baffles are also available (p. 177).

Port	Flow Rate	Manual Drain	Semi-Automatic Drain	Automatic Drain	Standard Bowl*
#10-32	113 l/min	MMF-1N	-	-	Polycarbonate
1/8" NPT	740 l/min	MMF-2P	-	MMF-2P-D*	Polycarbonate
1/4" NPT	740 l/min	MMF-2Q	-	MMF-2Q-D*	Polycarbonate
1/4" NPT	2,000 l/min	-	MMF-3Q*	MMF-3Q-D*	Poly with Steel Shield
3/8" NPT	2,000 l/min	-	MMF-3W*	MMF-3W-D*	Poly with Steel Shield
3/8" NPT	4,000 l/min	-	MMF-4W*	MMF-4W-D*	Poly with Steel Shield
1/2" NPT	4,000 l/min	-	MMF-4Z*	MMF-4Z-D*	Poly with Steel Shield
3/4" NPT	5,900 l/min	-	MMF-4A-M	MMF-4A-DM	Metal with Site Glass
1" NPT	6,900 l/min	-	MMF-5B-M	MMF-5B-DM	Metal with Site Glass

*Add -M suffix to part number for metal bowl with sight glass

MAXIMATIC® SERIES FRLS

REGULATORS & LUBRICATORS

Maximatic regulators provide precise air regulation from 7 to 125 psig. The adjustment knob must be pulled out to adjust the pressure, preventing accidental adjustment. Maximum inlet pressure is 150 psig. Includes bracket and gauge.

Regulating Range: 7 to 100 psig on MMR-1N, 7 to 125 psig on all others. 30 and 60 psig ranges also available (add -P30 or -P60 suffix to part number).



MMR-3Q

Part No.	Port	Gauge Port	Flow Rate	Gauge
MMR-1N	#10-32	1/16" NPT	113 l/min	PG-10-160J
MMR-2P	1/8" NPT	1/8" NPT	540 l/min	PG-15-160P
MMR-2Q	1/4" NPT	1/8" NPT	540 l/min	PG-15-160P
MMR-3Q	1/4" NPT	1/8" NPT	2,500 l/min	PG-15-160P
MMR-3W	3/8" NPT	1/8" NPT	2,500 l/min	PG-15-160P
MMR-4W	3/8" NPT	1/4" NPT	4,000 l/min	PG-20-160Q
MMR-4Z	1/2" NPT	1/4" NPT	4,000 l/min	PG-20-160Q
MMR-4A	3/4" NPT	1/4" NPT	5,900 l/min	PG-20-160Q
MMR-5B	1" NPT	1/4" NPT	7,900 l/min	PG-20-160Q



MML-3W
Lubricator
with bowl
shield



MML-2P
Lubricator
with
polycarb.
bowl



MML-2Q-M
Lubricator
with metal
bowl

These inexpensive direct-flow lubricators provide lubrication to downstream valves and actuators

Bowl: Polycarbonate standard. Steel bowl shields provided on models indicated. Metal bowls with sight glasses also available, add -M suffix to part number.

LUBRICATOR BOWL FLUID CAPACITY

Model	Bowl #	Capacity
MML-2	27057-2	0.8 oz./24 ml (cc)
MML-3	27057-3	2.3 oz./68 ml (cc)
MML-4	27057-4	6.2 oz./183 ml (cc)

LUBRICATOR OIL DRIP DOME KITS

Includes glass dome, drip tube, and o-ring

Model	Bowl #
MML-2	27057-2
MML-3	27057-3
MML-4	27057-4

Port	Flow Rate	Polycarbonate Bowl	Poly Bowl with Shield	Metal Bowl
#10-32	85 l/min	MML-1N	-	-
1/8" NPT	790 l/min	MML-2P	-	MML-2P-M
1/4" NPT	790 l/min	MML-2Q	-	MML-2Q-M
1/4" NPT	1,700 l/min	-	MML-3Q	MML-3Q-M
3/8" NPT	1,700 l/min	-	MML-3W	MML-3W-M
3/8" NPT	5,100 l/min	-	MML-4W	MML-4W-M
1/2" NPT	5,100 l/min	-	MML-4Z	MML-4Z-M
3/4" NPT	6,200 l/min	-	MML-4A	MML-4A-M
1" NPT	6,900 l/min	-	MML-5B	MML-5B-M

MAXIMATIC® SERIES

VALVES, ACCESSORIES & OPTIONS

RELIEVING SHUT-OFF/LOCK-OUT VALVES

May be used in conjunction with Maximatic® FRLs to provide a method of turning off the air supply. Enables filters to be cleaned or replaced, oil to be added to the lubricator, or other maintenance steps to be performed without the air supply.

Valve can also be locked in the "off" position to prevent accidental pressurizing (lock not included).

Part No.	Port	Vent Port	Flow Rate @ 100 psig	Compatible Series (FRL, FRLS, FR, FRS, F, R)
MMSV-3PP	1/8" NPT	1/8" NPT	510 l/min	-2 Series
MMSV-3QP	1/4" NPT	1/8" NPT	710 l/min	-2 Series
MMSV-3QQ	1/4" NPT	1/4" NPT	1,700 l/min	-3 Series
MMSV-3WQ	3/8" NPT	1/4" NPT	2,600 l/min	-3 Series
MMSV-3WW	3/8" NPT	3/8" NPT	3,400 l/min	-4W & -4Z Series
MMSV-3ZW	1/2" NPT	3/8" NPT	5,100 l/min	-4W & -4Z Series

Medium	Air
Air Flow	See table below
Material	Die Cast Aluminum
Input Pressure	150 psig
Mounting	In-line



AIR PREPARATION EQUIPMENT

FILTER DRAIN OPTIONS



REPLACEMENT FILTERS

Filter Series	5 micron	25 micron
MMF-1	27021	27050
MMF-2	27022	27051
MMF-3	27023	27052
MMF-4	27024	27053
MMF-5	27025	27054

Filter Replacement Bowls

Polycarbonate Bowl	Manual Drain	Semi-Auto Drain	Automatic Drain
MMF-1 Series	27055-1	-	-
MMF-2 Series	27055-2	-	27055-2-A
MMF-3 Series	-	27055-3	-
MMF-4/5 Series	-	27055-4	-
Metal Bowl Shield			
MMF-3 Series	-	27070-3	27070-3-A
MMF-4/5 Series	-	27070-4	-
Metal Bowl with Site Glass			
MMF-2 Series	27059-2	-	27059-2-A
MMF-3 Series	-	27059-3	27059-3-A
MMF-4/5 Series	-	27059-4	27059-4-A

BOWL OPTIONS



Lubricator Replacement Bowls

	Polycarbonate	Bowl Shield	Metal Bowl*
MML-1 Series	27057-1	-	-
MML-2 Series	27057-2	-	27060-2
MML-3 Series	27057-3	27070-3	27060-3
MML-4/5 Series	27057-4	27070-4	27060-4

*All metal bowls come complete with a sight glass

MUFFLER & NIPPLE



Part No.	Description
3849-1	1/8" NPT Polyethylene Muffler
9002-01	1/8" NPT Hex Nipple with Micron Filter

MAXIMATIC® SERIES

ACCESSORIES

Mounting Hardware for Lubricators & Filters

No brackets are furnished with lubricators or filters. Comes with two screws to mount bracket to MMF/MML.



Replacement Mounting Hardware for Regulators & Stacked Filter-Regulators

Brackets are included with the purchase of these components. Mounting screws not provided.



Filter/Lubricator	Bracket Mounting Thread	Bracket Part No.
MMF-2P	M4	MMH-B240
MML-2P	M4	MMH-B240
MMF-3	M4	MMH-B340
MML-3	M4	MMH-B340
MMF-4Z/4W	M5	MMH-B440
MML-4Z/4W	M5	MMH-B440
MMF-4A	M5	MMH-B540
MML-4A	M5	MMH-B540
MMF-5	M6	MMH-B640
MML-5	M6	MMH-B640

Regulator	Bracket Part No.
MMR-1N/MMFRS-1N	MMH-B120
MMR-2P/2Q	MMH-B220
MMFRS-2P/2Q	MMH-B220
MMR-3Q/3W	MMH-B320
MMFRS-3Q/3W	MMH-B320
MMR-4W/4Z/4A	MMH-B420
MMFRS-4W/4Z/4A	MMH-B420
MMR-5B	MMH-B420
MMFRS-5B	MMH-B420

Spacers

To convert individual filter, regulator and lubricators into combination units without mounting brackets. Seals included.



Spacers with Quick Connect

Threaded pipe adapters allow for a component to be quickly and easily removed from the airline for replacement or service. Adapters can be used to allow for different pipe diameters in the configuration.



Series	Part No.
FRL-1	MMH-Y10
FRL-2	MMH-Y20
FRL-3	MMH-Y30
FRL-4W/4Z	MMH-Y40
FRL-4A	MMH-Y50
FRL-5	MMH-Y60

FRL Series	Part No.	Port Size
FRL-2	MMH-PA-2P	1/8" NPT
FRL-2	MMH-PA-2Q	1/4" NPT
FRL-2	MMH-PA-2W	3/8" NPT
FRL-3	MMH-PA-3Q	1/4" NPT
FRL-3	MMH-PA-3W	3/8" NPT
FRL-3	MMH-PA-3Z	1/2" NPT
FRL-4W/4Z	MMH-PA-4W	3/8" NPT
FRL-4W/4Z	MMH-PA-4Z	1/2" NPT
FRL-5	MMH-PA-5A	3/4" NPT
FRL-5	MMH-PA-5B	1" NPT

MAXIMATIC® SERIES

ACCESSORIES

T & L Brackets

L brackets are included with the purchase of combination FRLs, to convert to T, use T bracket only. If no bracket is furnished, use T or L bracket with MMH-YXX spacer (ordered separately).

FRL Series	L Bracket Part No.
FRL-1	MMH-B110L
FRL-2	MMH-B210L
FRL-3	MMH-B310L
FRL-4W/4Z	MMH-B410L
FRL-4A	MMH-B510L
FRL-5	MMH-B610L



FRL Series	T Bracket Part No.
FRL-1	MMH-B110T
FRL-2	MMH-B210T
FRL-3	MMH-B310T
FRL-4W/4Z	MMH-B410T
FRL-4A	MMH-B510T
FRL-5	MMH-B610T



Mounting Hardware for Combination Units

To convert individual filter, regulator and lubricators into combination units. Seals included.

FRL Series	Spacer with L Bracket
FRL-1	MMH-Y10L
FRL-2	MMH-Y20L
FRL-3	MMH-Y30L
FRL-4W/4Z	MMH-Y40L
FRL-4A	MMH-Y50L
FRL-5	MMH-Y60L



FRL Series	Spacer with T Bracket
FRL-1	MMH-Y10T
FRL-2	MMH-Y20T
FRL-3	MMH-Y30T
FRL-4W/4Z	MMH-Y40T
FRL-4A	MMH-Y50T
FRL-5	MMH-Y60T



Spacers with Auxiliary Port

Provides parallel port between components.



MMH-Y21-N01

FRL Series	Spacer with Port	Spacer with L Bracket & Port	Spacer with T Bracket & Port
FRL-2	MMH-Y21-N01 (1/8")	MMH-Y21L-N01 (1/8")	MMH-Y21T-N01 (1/8")
	MMH-Y21-N02 (1/4")	MMH-Y21L-N02 (1/4")	MMH-Y21T-N02 (1/4")
FRL-3	MMH-Y31-N01 (1/8")	MMH-Y31L-N01 (1/8")	MMH-Y31T-N01 (1/8")
	MMH-Y31-N02 (1/4")	MMH-Y31L-N02 (1/4")	MMH-Y31T-N02 (1/4")
FRL-4W/4Z	MMH-Y41-N02 (1/4")	MMH-Y41L-N02 (1/4")	MMH-Y41T-N02 (1/4")
	MMH-Y41-N03 (3/8")	MMH-Y41L-N03 (3/8")	MMH-Y41T-N03 (3/8")
FRL-5	MMH-Y61-N03 (3/8")	MMH-Y61L-N03 (3/8")	MMH-Y61T-N03 (3/8")
	MMH-Y61-N04 (1/2")	MMH-Y61L-N04 (1/2")	MMH-Y61T-N04 (1/2")

WORLDWIDE DISTRIBUTION

Clippard products are distributed through our worldwide network of sales and engineering specialists. All of our representatives are stocking distributors and keep a variety of Clippard products on hand to fill your immediate needs. Each of our distributors are backed by our own large inventory to ensure quick delivery.

To locate your nearest distributor, call **877-245-6247** or visit clippard.com/distributors



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