



[mrpsolutions.com](http://mrpsolutions.com)

# SHARED PURPOSE INSPIRES UNEXPECTED IDEAS.

MRP Solutions is a leading provider of high-quality, injection molded plastic closures, jars and packaging components used every day by millions of consumers around the globe. But we offer more than just plastic caps and lids – we deliver fast, flexible and reliable packaging solutions. MRP Solutions combines extensive packaging expertise with a consultative approach to reliably uncover customer needs. By understanding your business goals, we can tailor smarter, safer, and more flexible packaging solutions that reduce cost and increase speed to market, helping your businesses capitalize on opportunity.

We are passionate about partnering with distributors and manufacturers who understand that plastic caps and lids are a small but important part of how people experience their brands. Together, we deliver packaging with purpose.

MRP Solutions has the most complete collection of child resistant closures on the market, as well as a broad array of jars, continuous thread closures, dispensing closures and specialty caps. And, our in-house design and tooling capabilities allow us to quickly customize solutions. Since 1976, MRP Solutions has served a diverse range of markets including:

- Nutraceutical
- Pharmaceutical
- Food and Beverage
- Personal Care
- Homecare
- Automotive

What started with six full-time employees and five used injection-molding machines has grown into a full-scale, environmentally responsible manufacturing operation with molding, lining and decorating capabilities. Now, with manufacturing locations in Plattsburgh, NY, Twinsburg, OH and Somerset, NJ as well as a Solutions Center in Lake Forest, NJ, MRP has a broad manufacturing footprint to develop and deliver a wide range of products and fulfill our mission to lead the market as a trusted partner delivering responsive packaging solutions. MRP Solutions now has a broadened footprint that further enhances our ability to deliver.

## Sustainability is our Responsibility

MRP Solutions is an environmentally responsible manufacturer of packaging. We take pride in our on-going initiative to delight our customers by offering more sustainable products which reduce the amount of plastics used, provide recyclable options and promote re-use where ever possible. We have continuously invested in our manufacturing facilities to identify technology which conserves energy, uses renewable energy, and minimizes environmental impacts to our community and neighbors while we find a way to incorporate and re-use all material and recycle all scrap. In this day and age, it is important we take our efforts one step further and conduct the research necessary to educate our employees, customers and consumers on the advantages of plastics as a packaging choice, the importance of proper recycling and identification of viable options.

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## Manufacturing Locations

- 📍 Plattsburgh
- 📍 Somerset
- 📍 Twinsburg

## Materials

CPP – CoPoly/Polypropylene

LDPE – Low-density Polyethylene

MDPE – Medium-density Polyethylene

PP – Polypropylene

PS – Polystyrene



# AGILE

At MRP Solutions, no order is too large or too small for our team, but every order is a priority.

MRP Solutions brings market-leading flexibility to every job. We can repurpose existing molds and prototypes to fit your requirements, or we can design and engineer custom products seamlessly. Our in-house design and tooling capabilities allow us to develop custom products with shorter lead times. Give us your exact requirements, and we'll give you a solution.

# CONTINUOUS THREAD

With a variety of finishes from smooth or matte tops to ribbed sides, the continuous thread closure options and applications are endless. Threaded to fit precisely to your container and seal tightly, these versatile closures are easily customizable with embossing, debossing and decorating options.

**Ideal markets:** Pharmaceuticals, nutraceuticals, personal care, homecare, food, craft and hobby

**Stocking:** White closures in stock and ready to ship, black available on select options



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	PIECES PER PALLET	CARTONS PER PALLET
<b>SMOOTH SIDE, SMOOTH TOP</b>								
SL24	24	410	PP	P	4,000	21	140,000	35
SS028	28	400	PP	P	5,000	23	175,000	35
SS033	33	400	PP	P	4,000	22	140,000	35
SS038	38	400	PP	P	2,900	21.50	101,500	35
SS043	43	400	PP	P	2,200	18.50	77,000	35
SS045	45	400	PP	P	2,000	19	70,000	35
SS048	48	400	PP	P	1,700	18	59,500	35
SS053	53	400	PP	P	1,300	18	45,500	35
SS058	58	400	PP	P	1,100	17	38,500	35
SS063	63	400	PP	P	900	17	31,500	35
SS070	70	400	PP	P	760	18	26,600	35
SS083	83	400	PP	P	500	15	17,500	35
SS089	89	400	PP	P	580	20.50	16,240	28
SX089	89	400	PP	S	620	19.62	16,740	28
SS100	100	400	PP	P	256	14	8,960	35
SS110	110	400	PP	P	216	13	7,560	35
SS120	120	400	PP	P	240	15.70	6,720	28

<b>RIBBED SIDE, MATTE TOP, STACKING</b>								
RM048	48	400	PP	P	1,700	18	59,500	35
RM053	53	400	PP	P	1,300	18	45,500	35
RM058	58	400	PP	P	1,100	17	38,500	35
RM063	63	400	PP	P	900	17	31,500	35
RM070	70	400	PP	P	760	18	26,600	35
RM083	83	400	PP	P	500	15	17,500	35
RM089	89	400	PP	P	580	20.50	16,240	28
RX089	89	400	PP	S	580	17.60	15,660	28
RM100	100	400	PP	P	256	14	8,960	35
RM110	110	400	PP	P	216	13	7,560	35
RM120	120	400	PP	P	228	14.80	6,384	28

# CONTINUOUS THREAD (continued)

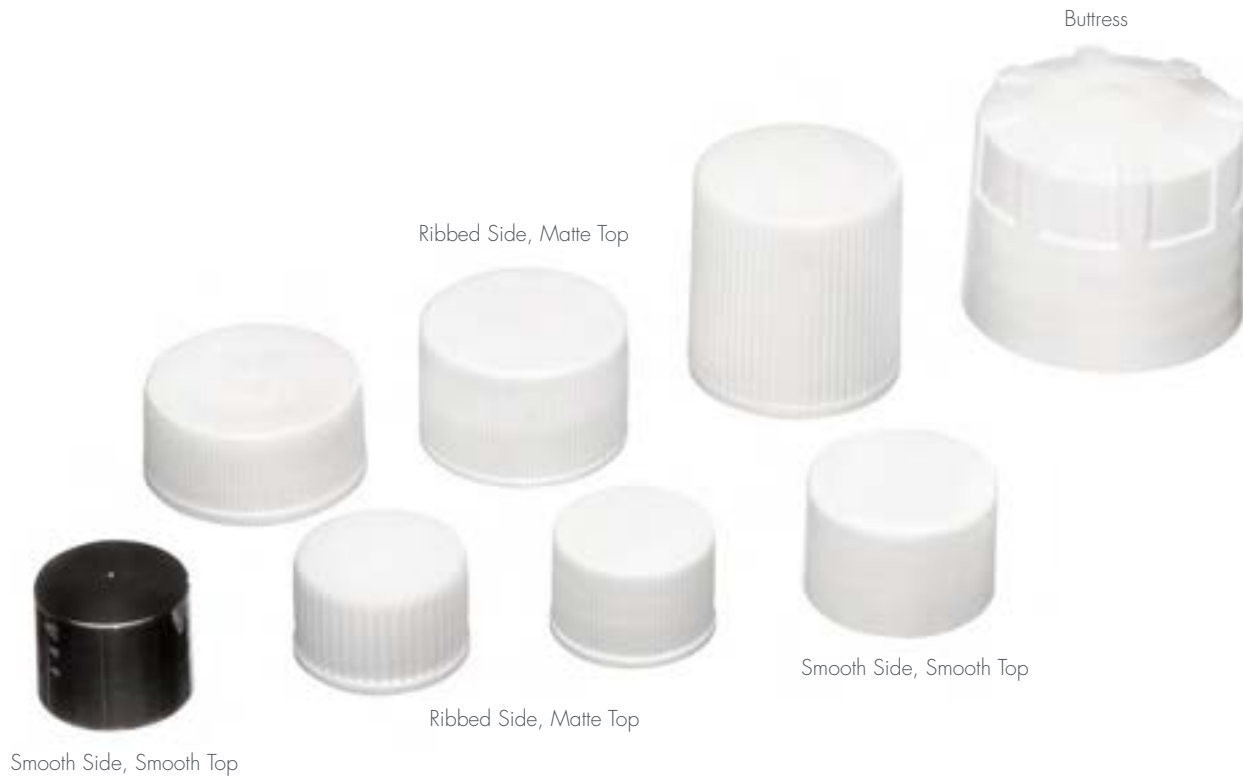


Ribbed Side, Matte Top

Ribbed Side, Smooth Top

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	PIECES PER PALLET	CARTONS PER PALLET
<b>RIBBED SIDE, MATTE TOP</b>								
RX020	20	400	PP	P	10,225	26	357,875	35
RX022	22	400	PP	P	8,500	23	297,500	35
RX024	24	400	PP	P	6,500	24.50	227,500	35
RX033	33	400	PP	P	4,000	22	140,000	35
RX038	38	400	PP	P	2,900	21.50	101,500	35
RX043	43	400	PP	P	2,200	18.50	77,000	35
RX045	45	400	PP	P	2,000	19	70,000	35
<b>RIBBED SIDE, SMOOTH TOP</b>								
RS028	28	400	PP	P	5,000	23	175,000	35
RS033	33	400	PP	P	4,000	22	140,000	35
RS038	38	400	PP	P	2,900	21.50	101,500	35
RS043	43	400	PP	P	2,200	18.50	77,000	35
RS045	45	400	PP	P	2,000	19	70,000	35
RS048	48	400	PP	P	1,700	18	59,500	35
RS053	53	400	PP	P	1,300	18	45,500	35
RS058	58	400	PP	P	1,100	17	38,500	35
RS063	63	400	PP	P	900	17	31,500	35

# SPECIALTY CONTINUOUS THREAD



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	PIECES PER PALLET	CARTONS PER PALLET
<b>BUTTRESS CAP</b>								
BB038	38	430	PP	P	800	16.50	28,000	35
<b>RIBBED SIDE, MATTE TOP</b>								
10-2057***	20	410	LDPE	S	7,200	33.08	180,000	25
RL020	20	410	PP	P	6,800	23	238,000	35
RL024	24	410	PP	P	4,000	21	140,000	35
<b>RIBBED SIDE, SMOOTH TOP</b>								
10-2092**	26	SP103	MDPE	S	3,800	30	95,000	25
10-2059*	28	SP100	MDPE	S	4,200	29.51	105,000	25
10-2060***	28	415	MDPE	S	1,950	30	48,750	25
RL028	28	410	PP	P	2,700	18	94,500	35
<b>SMOOTH SIDE, SMOOTH TOP</b>								
10-5180***	18	415	PP	S	8,200	34.77	205,000	25
10-5181*	18	415	PP	S	8,200	34.77	205,000	25

\*Sealing Type - Land Seal  
 \*\*Sealing Type - Valve Seal  
 \*\*\*Sealing Type - Plug Seal

# SPECIALTY CONTINUOUS THREAD (continued)



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	PIECES PER PALLET	CARTONS PER PALLET
<b>BROAD RIBBED</b>								
SP063	63	485	PP	P	500	14.50	17,500	35
SP064	64	485	PP	P	500	15	17,500	35
SP070	70	450	PP	P	500	14	17,500	35
<b>SMOOTH SIDE, SMOOTH TOP, OUTER STACKING RING</b>								
GG070	70	450	PP	P	560	15.50	19,600	35
GG083	83	445	PP	P	370	15	12,950	35
<b>RIBBED SIDE, MATTE TOP, OUTER STACKING RING</b>								
RG070	70	450	PP	P	560	16.50	19,600	35
<b>RIBBED SIDE, SMOOTH TOP, OUTER STACKING RING</b>								
RG083	83	445	PP	P	370	15.50	12,950	35

# SPECIALTY CONTINUOUS THREAD (continued)



EZ-Grip®



Spice Cap, Inner Stacking Ring



Spice Cap, Outer Stacking Ring



Dome

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	PIECES PER PALLET	CARTONS PER PALLET
<b>EZ-GRIP®, BROAD RIBBED</b>								
EG033	33	400	PP	P	3,500	25.60	122,500	35
EG038	38	400	PP	P	2,600	20.95	91,000	35
EG045	45	400	PP	P	1,100	26	38,500	35
EG053	53	400	PP	P	1,300	18	54,600	42
<b>SPICE CAP, SMOOTH SIDE, SMOOTH TOP, INNER STACKING RING</b>								
SI043	43	485	PP	P	1,400	16.50	49,000	35
SI048	48	485	PP	P	1,100	17	38,500	35
SI053	53	485	PP	P	900	16	31,500	35
SI063	63	485	PP	P	600	15.50	21,000	35
<b>SPICE CAP, SMOOTH SIDE, SMOOTH TOP, OUTER STACKING RING</b>								
SO043	43	485	PP	P	1,400	16.50	49,000	35
SO048	48	485	PP	P	1,100	17	38,500	35
DS053	53	490	PP	P	700	15	24,500	35
SO053	53	485	PP	P	900	16	31,500	35
SO063	63	485	PP	P	600	15.50	21,000	35
<b>DOMES</b>								
DD033	33	400	PP	P	4,000	23	140,000	35
DM033	33	400	PS	P	4,023	29	168,966	42
DM043	43	400	PS	P	2,112	24.10	88,704	42
DD053	53	400	PP	P	1,400	17	49,000	35
DD058	58	400	PP	P	1,100	17	38,500	35
DD070	70	400	PP	P	760	17.50	26,600	35
DD089	89	400	PP	P	456	18	12,768	28



# CHILD RESISTANT

In the highly regulated pharmaceutical market, reliable, child resistant closures are essential. MRP Solutions child resistant closures safely secure your product while ensuring compliance with rigorous protocol testing to meet Consumer Product Safety Commission (CPSC) standards. Our many designs offer just the right option for safe product storage and include text, debossed, embossed, and pictorial selections.

**Ideal markets:** Pharmaceuticals, nutraceuticals, homecare and automotive

**Stocking:** White and black closures in stock and ready to ship



EZ-Safe®



Pictorial



Embossed



Debossed



Chem Lock



Sleek CR®



Encore CR

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>EZ-SAFE®</b>							
ES028	28	400	CPP, PP	P	2,500	28.16	42
ES033	33	400	CPP, PP	P	2,000	27.75	42
ES038	38	400	CPP, PP	P	1,500	25.90	42
ES045	45	400	CPP, PP	P	1,100	28.35	42
<b>PUSH DOWN &amp; TURN (PDT) – DEBOSSED</b>							
DB033	33	400	CPP, PP	P	2,000	28	30
DB038	38	400	CPP, PP	P	1,500	26	30
DB053	53	400	CPP, PP	P	750	24	30



Vented CR

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>PUSH DOWN &amp; TURN (PDT) – EMBOSSED</b>							
PD020	20	400	CPP, PP	P	4,900	31.50	30
PD022	22	400	CPP, PP	P	4,500	36	30
PD024	24	400	CPP, PP	P	3,200	35	30
PD028	28	400	CPP, PP	P	2,500	28	30
PD033	33	400	CPP, PP	P	2,000	28	30
PD038	38	400	CPP, PP	P	1,500	26	30
PD045	45	400	CPP, PP	P	1,100	26	30
PD053	53	400	CPP, PP	P	750	24	30
PD063	63	400	CPP, PP	P	600	23.60	30
<b>PICTORIAL</b>							
CR020	20	400	CPP, PP	P	4,900	31.50	30
CR022	22	400	CPP, PP	P	4,500	36	30
CR024	24	400	CPP, PP	P	3,200	35	30
CR028	28	400	CPP, PP	P	2,500	28	30
CR033	33	400	CPP, PP	P	2,000	28	30
CR038	38	400	CPP, PP	P	1,500	26	30
CR045	45	400	CPP, PP	P	1,100	26	30
CR053	53	400	CPP, PP	P	750	24	30
CR063	63	400	CPP, PP	P	600	23.60	30
CR070	70	400	CPP, PP	P	400	18.95	30
CR089	89	400	CPP, PP	P	225	18.20	30
<b>CHEM LOCK TAB</b>							
CL038	38	400	PP	P	1,400	14.60	35
<b>VENTED CR – PUSH DOWN &amp; TURN (PDT) – EMBOSSED</b>							
PH038	38	400	CPP, PP	P	1,500	26.90 (single lined) 28.88 (double lined)	30
<b>VENTED CR – PICTORIAL</b>							
CH038	38	400	CPP, PP	P	1,500	26.90 (single lined) 28.88 (double lined)	30
<b>SLEEK CR®</b>							
SK053	53	400	CPP, PP	P	750	24.7	30
SK063	63	400	CPP, PP	P	600	24.6	30
SK070	70	400	CPP, PP	P	400	19.5	30
<b>ENCORE CR</b>							
SK063	63	400	CPP, PP	P	600	23.6	30

# HINGED DISPENSING

Dispensing vitamins and supplements has never been easier. Utilizing hinged dispensing closures specifically designed for pills, the NutraFlapper®, NutraGen II® and Hinge Guard closures offer one-handed, senior-friendly, easy opening and controlled pouring. This ensures there are no contaminated medicines put back into the container. All of these hinged dispensing options offer a full pour orifice and smooth skirt.

**Ideal markets:** Nutraceuticals, pharmaceuticals



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>HINGE GUARD</b>							
JT033	33	400	LDPE	P	2,950	21	35
JT038	38	400	LDPE	P	2,100	18	35
JT045	45	400	LDPE	P	1,700	19	35
JT053	53	400	LDPE	P	1,300	18	35
<b>NUTRAGEN II®</b>							
33-400 NGII	33	400	PP	T	2,900	26	42
38-400 NGII	38	400	PP	T	2,300	26	42
45-400 NGII	45	400	PP	T	1,600	23	42
53-400 NGII	53	400	PP	T	1,000	20	42
<b>NUTRAFLAPPER®</b>							
33-400 NF	33	400	PP	T	2,900	26	42
38-400 NF	38	400	PP	T	2,300	26	42
45-400 NF	45	400	PP	T	1,600	23	42
53-400 NF	53	400	PP	T	1,000	23	42

# HINGED LIQUID DISPENSING

Control the direction and amount of liquid products poured with the LiquiFlapper® and Ultra Light® closures. These patented, award-winning designs ensure there is no mess, no sticky bottles and many pleased consumers.

**Ideal markets:** Salad dressings, marinades, sauces, syrups, honey and squeezable condiments

**Stocking:** Our most popular Ultra Light 38mm, .250 in orifice in stock and ready to ship in black, white or yellow



Ultra Light®



Ribbed, Medium Orifice LiquiFlapper®

Smooth, Large Tear Drop LiquiFlapper®

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	EXTERIOR SKIRT FINISH	ORIFICE / DISPENSING OPTION	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>ULTRA LIGHT®</b>									
10-2153	38	400	PP	Ribbed	.250	S	2,350	31	25
10-2156	38	400	PP	Ribbed	.375	S	2,350	31	25
10-2155	38	400	PP	Ribbed	.500	S	2,350	31	25
<b>LIQUIFLAPPER®</b>									
33-400 LF	33	400	PP	Smooth	Directional Tear Drop	T	2,900	26	42
38-400 LF	38	400	PP	Smooth/Ribbed	Directional Tear Drop-Large	T	2,300	28	42
38-400 LF	38	400	PP	Smooth/Ribbed	Directional Tear Drop-Med.	T	2,300	28	42

# HINGED SINGLE FLAP DISPENSING

The FlapMate®, Single-Flap Flapper® and SpiceGen II™ closures have standardized dry food dispensing. With a contemporary look and smooth skirt finish for shelf impact and a one-piece design, these caps are easy to open, close and dispense, ensuring product freshness and functionality.

**Ideal markets:** Spice and seasonings, confectionery, dry creamers, toppings, nuts and seeds, pet food, supplements, cereal and baby snacks



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/ DISPENSING OPTION	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>FLAPMATE®</b>								
43-485 FM	43	485	PP	.125	T	1,400	22	42
43-485 FM	43	485	PP	.200	T	1,400	22	42
43-485 FM	43	485	PP	.300	T	1,400	22	42
43-485 FM	43	485	PP	Full Open Pour	T	1,400	22	42
<b>FLAPPER®</b>								
38-485	38	485	PP	.110	T	2,000	24	42
38-485	38	485	PP	.200	T	2,000	24	42
38-485	38	485	PP	Pour	T	2,000	24	42
63-400 SF	63	400	PP	Pour	T	950	26	28
63-400 SF	63	400	PP	Directional Pour	T	950	26	28
63-400 SF EH	63	400	PP	Pour	T	850	25	28
63-400 SF EH	63	400	PP	Directional Pour	T	850	25	28
<b>SPICEGEN II™</b>								
38-400 SG II	38	400	PP	.125	T	2,300	27	42
38-400 SG II	38	400	PP	.300	T	2,300	27	42
38-400 SG II	38	400	PP	Full Pour	T	2,300	25	42

# HINGED DUAL FLAP DISPENSING

Shake it. Pour it. Spoon it. With the versatility of the Flapper® dual-flap closure, consumers can dispense just the right amount of a product without ever removing a cap. The contemporary style provides shelf impact while ensuring product freshness and functionality. The variety of dispensing combinations available – Directional Pour, Pour, Sift – make this a versatile closure for many dry products.

**Ideal markets:** Spice and seasonings, confectionery and sweeteners, grated cheese, nuts and snacks, personal care, pet food and homecare



Hinged Dual Flapper®

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/ DISPENSING OPTION	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>DUAL FLAPPER®</b>								
48-485	48	485	PP	.100/.300	T	1,000	21	42
48-485	48	485	PP	.200/Pour	T	1,000	21	42
53-485 SR	53	485	PP	.200/Pour	T	850	22	42
53-485 SR	53	485	PP	.300/Pour	T	850	22	42
53-485 SRII	53	485	PP	Directional Pour/ Pour	T	850	22	42
53-485 SRII	53	485	PP	.100/.300	T	850	22	42
53-485 SRII	53	485	PP	.100/Pour	T	850	22	42
63-400 EH SR	63	400	PP	.125/Pour	T	900	25	28
63-400 EH SR	63	400	PP	.250/Pour	T	900	25	28
63-400 SR	63	400	PP	.127/Pour	T	1,000	25	28
63-400 SR	63	400	PP	.300/Pour	T	1,000	25	28
63-400 SR	63	400	PP	.450/Pour	T	1,000	25	28
63-485	63	485	PP	.200/Pour	T	600	19	28
63-485	63	485	PP	.300/Pour	T	600	19	28
63-485	63	485	PP	.125/Pour	T	600	19	28
63-485	63	485	PP	.450/Pour	T	600	19	28
63-485 SR	63	485	PP	Directional Pour/ Pour	T	800	22.6	28
63-485 SR	63	485	PP	.125/.300	T	800	22.6	28
70-450	70	450	PP	.470/Pour	T	450	18	28

# HINGED LARGE FORMAT DISPENSING

The bulky size of large-diameter containers makes dispensing difficult, yet easy dispensing is a must in any application. MRP Solutions's large-format closures, including the Flapper® and MegaFlap®, allow easy access to products and control when pouring. The new MegaFlap offers a full open flap and provides a scoop-retention feature to hold a measuring scoop. The 110 mm Flapper offers a lightweight closure with both slotted and pourable orifices.

**Ideal markets:** Nutritional powders, snacks, lawn care, pet foods and treats, dry chemical and ice melt



MegaFlap®



110-400 Flapper®



89-400 Flapper®

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/ DISPENSING OPTION	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>FLAPPER®</b>								
89-400	89	400	PP	Pour	T	300	21	28
89-400	89	400	PP	.300	T	300	21	28
89-400	89	400	PP	Slotted	T	300	21	28
89-400	89	400	PP	Trapezoid	T	300	21	28
110-400	110	400	PP	Pour	T	300	23	28
110-400	110	400	PP	Slotted	T	300	23	28
<b>MEGAFLAP®</b>								
120-400	120	400	PP	Full Open	T	154	14	42
120-400 EH	120	400	PP	Full Open	T	132	15.20	42



# PURPOSEFUL

Across category and customer, shared purpose inspires unexpected ideas. By understanding our partners' business objectives and design requirements, we can reimagine our approach and tailor our solutions to achieve their desired outcome, applying decades of packaging expertise to move faster, efficiently, and cost-effectively in an ever-changing market.



# STRAP CAPS

Whether you want your package sealed securely to keep it from leaking or to keep contaminants from getting into your liquid, strap caps are an ideal solution. MRP Solutions offers many unique designs and orifice sizes to securely store a variety of liquids from charcoal lighter to saline solution. Where applicable, these closures conform to all child resistant protocol guidelines in accordance with the Consumer Product Safety Commission (CPSC).

**Ideal markets:** Homecare, industrial, health and beauty, personal care and charcoal lighter



Strap Cap



Can Fitment



Charcoal Lighter CRC

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	EXTERIOR SKIRT FINISH	ORIFICE/DISPENSING OPTION	SEALING TYPE	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>CAN FITMENT</b>										
10-4476	0.954		LDPE	Smooth Snap Fit	.066		🇺🇸	5,200	41.37	25
10-4495	0.954		LDPE	CRC Ribbed Snap Fit	.426		🇺🇸	3,500	40.63	25
10-4497	0.954		LDPE	CRC Ribbed Snap Fit	.120		🇺🇸	3,500	41.37	25
<b>CHARCOAL LIGHTER CRC</b>										
10-6153	28		LDPE	Charcoal Lighter	3 @ .058	Plug	🇺🇸	2,000	35.59	25
10-6154	28		LDPE	Charcoal Lighter	.113	Plug	🇺🇸	2,000	35.70	25
10-6155	28		LDPE	Charcoal Lighter	.250	Plug	🇺🇸	2,000	35.32	25
10-6156	33		LDPE	Charcoal Lighter	3 @ .029	Plug	🇺🇸	2,000	32.60	25
<b>STRAP CAP</b>										
10-1373	15	410	LDPE	Ribbed	.009	Plug	🇺🇸	9,800	50.32	25
10-1375	15	410	LDPE	Ribbed Snap Fit	.031	Plug	🇺🇸	9,800	47.14	25
10-1376	15	410	LDPE	Ribbed Snap Fit	.062	Plug	🇺🇸	9,800	49.91	25
10-1378	15	410	LDPE	Ribbed	.031	Plug	🇺🇸	9,800	50.34	25
10-1379	15	410	LDPE	Ribbed	.060	Plug	🇺🇸	9,800	49.52	25
10-1704	18	400	LDPE	Ribbed	.025	Side Seal	🇺🇸	8,000	34.49	25
10-1713	18	400	LDPE	Ribbed Snap Fit	.025	Plug	🇺🇸	8,000	37.95	25
10-1834	20	410	LDPE	Ribbed	.110	Side Seal	🇺🇸	4,300	26.20	25
10-1964	24	410	LDPE	Ribbed	.084	Valve Seal	🇺🇸	3,300	36.85	25
10-1965	24	410	LDPE	Ribbed	.122	Valve Seal	🇺🇸	3,300	38.56	25
10-1976	24	410	LDPE	Ribbed Snap Fit	.028	Plug	🇺🇸	1,900	14.98	25
10-1977	24	410	LDPE	Ribbed Snap Fit	.040	Plug	🇺🇸	1,900	14.98	25
10-2150	38	400	MDPE	Ribbed	.250	Top Seal	🇺🇸	1,700	37	25
10-6401	33	400	MDPE	Ribbed	.250	Top Seal	🇺🇸	2,350	28.62	25
10-6402	33	400	MDPE	Ribbed	.625	Top Seal	🇺🇸	2,350	38.98	25

# PUSH/PULL

The easy-open push/pull closures help consumers prevent messes with clean, directional pour dispensing. This closure type includes a back-off resistor bead that helps prevent accidental opening of products. The cover cap shape allows easy gripping during opening and closing. To use, consumers simply pull up on the spout to open and push downwards until the bead is showing to close.

**Ideal markets:** Personal care, homecare and automotive



Push/Pull

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/ DISPENSING OPTION	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>PUSH/PULL</b>								
10-2091	26	SP103	MDPE	.143	Ⓢ	3,100	33	25
10-2094	26	SP103	LDPE	.094	Ⓢ	3,100	33	25
10-2053	28	SP100	MDPE	.143	Ⓢ	3,400	32.87	25
10-2054	28	SP100	LDPE	.094	Ⓢ	3,400	33.35	25

# DISPENSING PLUGS

MRP Solutions’s dispensing plugs, also known as orifice reducers, are available in a variety of sizes to accommodate multiple viscosities. They can be used in conjunction with a CT or cover cap. Dispensing plugs can be inserted in multiple neck finishes and allow for controlled dispensing of liquid products.

Our latest innovation, the AccuDose™ Liner, is a tamper-evident liner that provides controlled dispensing for pills or other small pieces contained in bottles. The liner’s shape is easily adaptable to any product size with simple orifice size and shape adjustments, and requires no packaging changes. The AccuDose Liner is compatible with all container and closure designs.

**Ideal markets:** Pharmaceutical, nutraceutical, automotive and homecare



MFG. ITEM ID	SIZE (MM)	MATERIAL	ORIFICE/ DISPENSING OPTION	FIT DIAMETER	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>DISPENSING PLUGS</b>								
10-1757	18	LDPE	.092	.497	S	30,000	40.28	25
10-1819	20	LDPE	.121	.546	S	13,600	26	25
10-1841	20	LDPE	.224	.61	S	15,000	34.98	25
10-1849	22	LDPE	.092	.632	S	30,000	29.33	25
10-1911	24	LDPE	.034	.708	S	12,500	33.26	25
10-1923	24	LDPE	.09	.742	S	11,900	31.20	25
10-1912	24	LDPE	.109	.708	S	12,300	33.06	25
10-1930	24	LDPE	.12	.782	S	10,500	32.82	25
10-1271	28	LDPE	.07	.854	S	7,200	30.32	25
10-1273	28	LDPE	.07	.862	S	1,700	33.64	25
10-1274	28	LDPE	.140	.854	S	7,200	30.73	25

# TWIST OPEN – TWIST CLOSE

The distinct streamlined shape of MRP Solutions’s twist open – twist close dispensing closures combined with fresh new color options gives any package instant shelf appeal. With smooth, easy opening and closing and pinpoint dispensing accuracy, twist open – twist close closures have a clearly visible sealing indicator that prevents product leakage, drying and clogging. Closures are available in a variety of orifice sizes, sealing types, diameters and finishes.

**Ideal markets:** Hair care applicators, hobby and craft, food condiments, pharmaceuticals, OTC ointments and creams and pet applications



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/DISPENSING OPTION	SEALING TYPE	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET	NO LINING AVAILABLE
<b>TWIST OPEN-CLOSE RIBBED SKIRT</b>										
10-1612	18	410	LDPE	.073	Plug	☺	6,000	42	25	x
10-1771	20	410	LDPE	.025	Side Seal	☺	5,000	39	25	x
10-1788	20	410	LDPE	.025	Plug	☺	5,000	42	25	x
10-1773	20	410	LDPE	.08	Side Seal	☺	5,000	39	25	x
10-1787	20	410	LDPE	.08	Plug	☺	5,000	42	25	x
10-1772	20	410	LDPE	.114	Side Seal	☺	5,000	37.94	25	x
10-1789	20	410	LDPE	.114	Plug	☺	5,000	42	25	x
10-7138	22	410	LDPE	.01	Plug	☺	4,200	47	25	x
10-1981	24	410	LDPE	.025	Side Seal	☺	4,200	35.02	25	
10-1998	24	410	LDPE	.025	Plug	☺	4,200	36.16	25	x
10-1973	24	410	LDPE	.073	Side Seal	☺	4,000	33.38	25	
10-1982	24	410	LDPE	.08	Side Seal	☺	4,200	35.02	25	
10-1999	24	410	LDPE	.08	Plug	☺	4,200	36.20	25	x
10-1980	24	410	LDPE	.114	Side Seal	☺	4,200	34.22	25	
10-1997	24	410	LDPE	.114	Plug	☺	4,200	35.36	25	x
10-1979	24	410	LDPE	.375 x .062	Side Seal	☺	3,000	35	25	

# TWIST OPEN – TWIST CLOSE (continued)



Twist Open-Close Ribbed Skirt



Twist Open-Close Smooth Skirt

MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/ DISPENSING OPTION	SEALING TYPE	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET	NO LINING AVAILABLE
<b>TWIST OPEN-CLOSE RIBBED SKIRT</b>										
10-2074	28	410	LDPE	.025	Valve Seal	\$	2,200	25.01	25	
10-2087	28	410	LDPE	.08	Valve Seal	\$	2,200	25.45	25	
10-2085	28	410	LDPE	.114	Valve Seal	\$	2,200	25.01	25	
10-2073	28	SP100	LDPE	.166	Valve Seal	\$	2,200	25.01	25	
10-2117	33	455	LDPE	.174	Top Seal	\$	1,900	31.68	25	
10-2118	33	455	LDPE	.174	Top Seal	\$	1,900	30.02	25	
10-2121	33	455	LDPE	.174	Top Seal	\$	2,000	30.98	25	
10-2122	33	455	LDPE	.174	Top Seal	\$	2,000	30.98	25	
10-2116	38	400	LDPE	.114	Side Seal	\$	2,000	23.47	25	x
10-2129	38	400	LDPE	.174	Top Seal	\$	2,000	27.63	25	
10-2131	38	400	LDPE	.174	Top Seal	\$	2,000	32	25	
<b>TWIST OPEN-CLOSE SMOOTH SKIRT</b>										
10-2144	38	400	LDPE	.181	Top Seal	\$	1,900	31.52	25	
10-2148	38	400	LDPE	.181	Plug with vinegar trap	\$	1,900	33.83	25	x
10-2149	38	400	LDPE	.181	Top Seal	\$	1,900	31.56	25	

# DISC TOPS

Stylish. Elegant. Easy to use. Featuring a simple snap, disc top closures are ready to dispense without a mess and securely close just as easily. Adding a customized color to this standard closure enhances branding and helps define products on the shelf.

**Ideal markets:** Health, beauty, personal care, household and automotive chemical



Ribbed Disc Top



Smooth Disc Top



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	ORIFICE/ DISPENSING OPTION	SEALING TYPE	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET	NO LINING AVAILABLE
<b>RIBBED DISC TOP</b>										
10-5410	24	410	PP	.312 x .110	Crab Claw	🇺🇸	3,000	31	25	
10-5412	24	410	PP	.166 x .110	Crab Claw	🇺🇸	3,000	31	25	
10-5411	24	410	PP	.312 x .110	Plug	🇺🇸	3,000	31	25	x
10-5413	24	410	PP	.166 x .110	Plug	🇺🇸	3,000	31	25	x
10-5800	28	410	PP	.343 x .118	Crab Claw	🇺🇸	2,050	30	25	
<b>SMOOTH DISC TOP</b>										
10-5301	20	410	PP	.270 x .110	Crab Claw	🇺🇸	4,700	35	25	
10-5407*	24	410	PP	.09 x .309	Plug	🇺🇸	1,800	31	25	x
10-5402	24	410	PP	.308 x .110	Crab Claw	🇺🇸	3,000	30	25	
10-5403	24	415	PP	.308 x .110	Crab Claw	🇺🇸	2,400	28	25	
10-5404	24	410	PP	.312 x .110	Crab Claw	🇺🇸	3,000	28	25	
10-5700	28	410	PP	.325 x .165	Crab Claw	🇺🇸	2,050	28	25	
10-5704	28	410	PP	.325 x .125	Crab Claw	🇺🇸	2,050	28	25	

\*24/410 Thread/neck finish; 28/410 outer finish.

# OPEN SPOUT, SNIP TIP

Our open spout and snip tip closures offer consumers controlled, directional dispensing for a wide range of products.

Snip tip closures give consumers control over how large or small they want their opening to be. Larger orifices result from snipping the tip close to the base while smaller openings result from snipping closer to the tip. Ideal for one-time-use products, snip tips are perfect for the personal care and homecare markets.

Unlike our snip tips, open spout closures do not require any snipping. Combined with a cover cap, our open spout closures have a large range of orifice sizes to meet your dispensing needs.

**Ideal markets:** Pharmaceutical, nutraceutical, food, personal care, automotive and hobby



MFG. ITEM ID	SIZE (MM)	NECK FINISH	MATERIAL	SPOUT AND TIP HEIGHT	ORIFICE/DISPENSING OPTION	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>LAND SEAL OPEN SPOUT</b>									
10-2048	24	410	LDPE	1.487	.09	🇺🇸	2,900	28.47	25
<b>PLUG SEAL OPEN SPOUT</b>									
10-2359	33	410	LDPE	1.65	.075	🇺🇸	1,600	20.97	25
<b>SIDE SEAL OPEN SPOUT</b>									
10-1988	24	410	LDPE	1.347	.308 x .076	🇺🇸	2,800	23.69	25
10-2065	24	410	LDPE	1.283	.042	🇺🇸	4,100	25.38	25
10-2103	38	400	LDPE	1.673	.06	🇺🇸	2,000	20.97	25
<b>TOP SEAL OPEN SPOUT</b>									
10-1448	#16 Tube Neck	Tube	LDPE	.971	.056	🇺🇸	31,500	37.15	25
10-1450	#28 Tube Neck	Tube	LDPE	.973	.06	🇺🇸	15,500	38.35	25
10-1451	#28 Tube Neck	Tube	LDPE	.969	.028	🇺🇸	15,500	30.04	25
<b>PLUG SEAL SNIP TIP</b>									
10-1755	20	410	LDPE	.721	.033	🇺🇸	5,600	28.05	25
10-1791	20	410	LDPE	1.232	.053	🇺🇸	4,500	27.93	25
10-1933	24	410	LDPE	1.538	.053	🇺🇸	3,300	25.99	25
10-1934	24	410	LDPE	.992	.053	🇺🇸	4,200	28.13	25
<b>VALVE SEAL SNIP TIP</b>									
10-1744	20	410	LDPE	.721	.033	🇺🇸	5,600	27	25

# COVER CAPS

Designed with consumer convenience in mind, our easy on and off cover caps enhance your product's appearance on the shelf. With cover sizes 33 mm and 53 mm, MRP Solutions cover caps offer select options in LDPE or PP for a variety of markets.

**Ideal markets:** Personal care, homecare and automotive



MFG. ITEM ID	SIZE (MM)	MATERIAL	EXTERIOR SKIRT FINISH	MFG. LOCATION	PIECES PER CARTON	CARTON WEIGHT (LBS)	CARTONS PER PALLET
<b>COVER CAPS</b>							
10-1010	N/A	LDPE	Peg Seal, HT: .614	\$	44,000	28.62	25
10-1011	N/A	LDPE	Peg Seal, HT: 1.0	\$	21,000	22.82	25
10-1018	33	PP	Cover Cap	\$	1,200	10.13	25
10-1023	53	PP	Cover Cap	\$	450	4	25





# RELIABLE

Invested in people, equipment, processes and technology.

Committed to quality, MRP Solutions is continually investing in what it takes to deliver the best possible package – every time. That means:

- Nurturing leading design and engineering experts
- Maintaining and acquiring state-of-the-art equipment to ensure production functionality
- Implementing new technologies including innovative robotic stacking machines

MRP Solutions regularly participates in rigorous plant audits required by our customers. We proudly manufacture in cGMP facilities and hold multiple pharma and food certifications such as ISO and Safe Quality Food (SQF), which are recognized under the Global Food Safety Initiative, and maintain Drug Master Files as applicable. When you do business with MRP Solutions, you can trust that our industry experts are using the best equipment and processes to produce the best possible results.

# JARS & VIALS

With sizes as small as 1/4 ounce and as large as 40 ounces in a variety of styles and materials, MRP Solutions has a jar to meet virtually any need. Choose from our selection of Polypropylene and Polystyrene jars that can easily and efficiently be decorated to enhance your brand on the shelf. All jars and vials are produced in our Plattsburg manufacturing facility.

**Ideal markets:** Food, personal care, OTC pharmaceutical, industrial, homecare and much more

**Material:** Polypropylene, Polystyrene (\*)



Double Wall Round

MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>DOUBLE WALL ROUND: PP INNER/PP OUTER</b>									
016053DR	1	53	2.18	1.61	55	16.30	486	20.40	35
032058DR	2	58	2.30	1.92	80	20.41	384	17.90	35
064070DR	4	70	2.81	2.40	150	33.90	198	17.30	35
096070DR	6	70	2.83	3.03	215	41	165	16.90	35
128089DR	8	89	3.66	2.66	290	48.63	100	13.44	35



Double Wall Square

MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>DOUBLE WALL SQUARE: PP INNER/PP OUTER</b>									
016053DS	1	53	2.16	1.61	55	17.10	486	21.30	35
032058DS	2	58	2.30	1.93	80	20.78	384	18.90	35
064070DS	4	70	2.81	2.42	150	34.60	198	17.60	35
096070DS	6	70	2.83	3.04	215	42.10	165	17.80	35
128089DS	8	89	3.66	2.66	290	48.30	100	13.74	35

# JARS & VIALS (continued)



Regular Wall Straight Side

MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>REGULAR WALL STRAIGHT SIDE</b>									
004033RS	1/4	33	1.26	1.18	15	4.50	1,650	19.10	42
004033RS*	1/4	33	1.26	1.18	15	5.20	1,650	22.50	42
008043RS	1/2	43	1.64	1.08	26	4.70	1,664	21.80	28
008043RS*	1/2	43	1.64	1.08	26	5.50	1,664	25.20	28
012033RS	3/4	33	1.23	1.99	26	6.63	1,116	18.90	42
012033RS*	3/4	33	1.25	2.00	27	7.40	1,116	21	42
016043RS	1	43	1.66	1.59	40	7.30	644	13.30	42
016043RS*	1	43	1.64	1.61	40	8.80	644	15.30	42
020038LR	1-1/4	38	1.46	2.13	41	8.90	1,001	23.20	35
020038LR*	1-1/4	38	1.46	2.14	42.10	10.55	1,001	25.70	35
024048LR	1-1/2	48	1.85	1.85	63.50	10.50	640	18.90	35
032053RS	2	53	2.05	1.78	75	10	441	11.40	40
032053RS*	2	53	2.04	1.80	75	11.50	441	12.70	40
032058RS	2	58	2.21	1.89	91	11.10	324	10.60	42
032058RS*	2	58	2.20	1.90	91	12.60	324	11	42
048048LR	3	48	1.85	2.94	101	11.50	400	12.40	38
048058LR	3	58	2.21	2.04	100	17.08	324	14.50	42
064058RS	4	58	2.20	2.68	130	16.30	324	13	28
064058RS*	4	58	2.21	2.70	130	19.20	324	14.80	28
064070RS	4	70	2.71	2.30	176	24	175	10	42
064070RS*	4	70	2.71	2.31	176	24	175	10.70	42
064089RS	4	89	3.49	1.74	215	24.60	180	14.20	35
064089RS*	4	89	3.49	1.75	220	24.60	180	15.20	35
064089LR	4	89	3.50	1.49	191.80	24.30	200	14.60	35
096070RS	6	70	2.71	2.73	205	21	210	13.20	28
096070RS*	6	70	2.71	2.75	205	26.15	210	15.10	28
112070LR	7	70	2.72	3.04	230	26.95	175	13.40	35
128070RS	8	70	2.71	3.48	260	27.50	175	13.80	28
128070RS*	8	70	2.71	3.50	260	35.90	175	15.80	28
128089RS	8	89	3.49	2.52	310	35	120	12.90	35
128089RS*	8	89	3.49	2.54	320	38	120	13.90	35
192089RS	12	89	3.49	3.16	415	36.70	175	17.20	20
192089RS*	12	89	3.49	3.20	415	44	100	13.90	28
256089RS*	16	89	3.49	3.90	485	51	80	12	35
256089LR	16	89	3.49	3.87	485	35.60	140	13.33	20
288089LR	18	89	3.49	4.22	547.70	56.60	80	14.70	28

\*Polystyrene

# JARS & VIALS (continued)



MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>REGULAR WALL STRAIGHT SIDE</b>									
384120RS	24	120	4.70	3.08	735	59	55	10.10	35
384120RS*	24	120	4.71	3.10	735	66	55	11	35
512120RS	32	120	4.70	3.82	907	68.50	44	9.6	35
512120RS*	32	120	4.71	3.84	907	77.68	44	10.30	35
640120RS	40	120	4.70	5.12	1364	96.18	36	10	35

MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>REGULAR WALL TAPERED SIDE</b>									
064070RT	4	70	2.71	2.13	176	15	204	9.10	42
128083RT	8	83	3.24	2.78	290	26	144	10.60	28

MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>BEADED VIAL</b>									
32X200V2	1-1/4 X 2	38	1.25	3.00	63.50	12.25	1,043	23	28

<b>SPECIALTY – THREADED VIAL</b>									
605300VT	60 dram	53	1.92	4.42	221	22.70	268	18	28

MFG. ITEM ID	CAPACITY (OZ)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>SPECIALTY – JEWELRY BASKET</b>				
JB1281AD	8	800	12	35

\*Polystyrene

## JARS & VIALS (continued)



Thick Wall, Straight Side

MFG. ITEM ID	CAPACITY (OZ)	NECK SIZE (MM)	DIAMETER	HEIGHT	CAPACITY FILL (CC)	UNIT WEIGHT (GR)	PIECES PER CASE	CASE WEIGHT (LBS)	CARTONS PER PALLET
<b>THICK WALL STRAIGHT SIDE</b>									
002033TS	1/8	33	1.30	0.97	9	8	1,820	33.10	28
002033TS*	1/8	33	1.30	0.97	9	8.70	1,820	39.50	28
004033TS	1/4	33	1.33	1.17	15	9	1,638	39.60	28
008043TS	1/2	43	1.72	1.08	26	10.60	968	26.20	28
008043TS*	1/2	43	1.74	1.09	26	12.80	968	32	28
016043TS	1	43	1.74	1.60	40	15.30	616	24.10	42
016043TS*	1	43	1.71	1.61	40	18.50	616	28.70	42
032053TS	2	53	2.10	1.78	75	21	378	20.50	42
032053TS*	2	53	2.13	1.80	75	26	280	20.90	42
032058TS	2	58	2.24	1.88	95	24.20	288	17.80	42
032058TS*	2	58	2.27	1.90	95	29	240	17.60	42
032070TS	2	70	2.85	1.27	88	26.80	360	26.70	42
064070TS	4	70	2.71	2.28	175	43	165	18.20	42
064070TS*	4	70	2.75	2.31	170	53	140	19.30	42
096070TS	6	70	2.72	2.73	205	50	198	24.70	28
096070TS*	6	70	2.75	2.76	205	60	168	24.70	28
128070TS	8	70	2.72	3.47	260	63	170	27.50	28
128070TS*	8	70	2.72	3.51	260	78	140	26.30	28
128089TS	8	89	3.57	2.50	318	64	120	20	35
128089TS*	8	89	3.53	2.55	325	76	90	19.70	35
192089TS	12	89	3.49	3.17	400	81	100	21.50	28
192089TS*	12	89	3.53	3.20	400	97.50	75	21	28
256089TS	16	89	3.49	3.85	485	96	80	20.20	35
256089TS*	16	89	3.53	3.89	485	115	60	19.10	35
<b>THICK WALL STRAIGHT SIDE ROUND BOTTOM</b>									
004033TR*	1/4	33	1.38	1.19	15	10.70	1,638	41.90	28
008043TR*	1/2	43	1.74	1.08	26	12	1,520	43.80	28
012043TR*	3/4	43	1.76	1.30	32	15	1,140	41.10	35
016043TR*	1	43	1.71	1.61	40	17.80	1,045	47.30	28

\*Polystyrene



# FAST

Responsiveness you can trust.

MRP Solutions' speed has always helped us stand out. Faster responses. Shorter lead times. Rapid delivery of custom solutions in any size and color. But behind this speed is a team always looking for the desired outcome behind the order. A colleague reliably asking why, before exploring how. When we understand what our customers are trying to accomplish, we unlock MRP's ingenuity. We uncover a better approach than if we simply asked what they need. And we nurture a culture and team that's **packaging with purpose.**

# LINERS

Liners are an important part of a complete package and assure that a container's contents are secure. Whether you need a liner for freshness and protection, to prevent leaks, allow product venting, or to provide tamper evidence, our complete selection of liners will meet your packaging needs. From foods and pharmaceuticals to cosmetics and chemical, we can meet any industry requirement. Listed below are our stock and standard liners. Additional options available. Please call for more information.

## FUNCTION

- WS – Welded Seal
- CP – Clean Peel
- TR – Traditional/Gasket
- EE – Easy Entry
- HB – High Barrier
- PRS – Pressure Sensitive

## CONTAINER MATERIALS

- PVC – Polyvinyl Chloride
- PET – Polyester
- PP – Polypropylene
- PS – Polystyrene
- PE – Polyethylene
- UV – Universal
- GL – Glass

## IMPRINT

- SFF – Sealed for Freshness
- SFYP – Sealed for Your Protection
- LNP – Lift-N-Peel
- QS – Quality Seal
- R – Red
- B – Black
- W – White
- G – Green



Pull Tab

Lift-N-Peel

Tri-Tab



Vented Liner

Round Cut

DESCRIPTION	FUNCTION	CONTAINER MATERIAL	IMPRINT	BACKING THICKNESS	NUMBER OF PIECES	MFG.
<b>PLATTSBURGH</b>						
TS-1	TR	UV	PLAIN	.020	1	TECHSEAL
ESTERFOIL 50	TR	UV	PLAIN	.020	1	SELIG
F217	TR	UV	PLAIN	.020/.035/.050	1	TRI-SEAL
F217 EMBOSSED	TR	UV	PLAIN	.035	1	TRI-SEAL
F217 NYLON BONDED	TR	UV	PLAIN	.040	1	TRI-SEAL
F828	TR	UV	PLAIN	.020/.035	1	TRI-SEAL
FS1-15	CP, HB	PE, PP	PLAIN	.030	2	SELIG
FS1-15/C1S	CP, HB	PE, PP	R SFYP	.008	1	SELIG
FS1-15/S70A	CP, HB	PE, PP	R SFYP	.007	1	SELIG
FS3-19	CP	PET, PVC	PLAIN, B SFYP	.020	2	SELIG
FS3-19/C25P	CP	PET, PVC	PLAIN	.035	2	SELIG
FS3-19/S105	CP	PET, PVC	PLAIN	.010	1	SELIG
FS5-4	WS	UV	PLAIN, B SFYP, R SFYP	.006/.020	1	SELIG
FS5-4/C1S	WS	UV	R SFYP	.008	1	SELIG
FS5-8	WS	UV	R SFYP	.020	1	SELIG
FS7-12	CP, HB	GL, PE	B SFYP	.020	2	SELIG
FSM-1	WS	PE	PLAIN, B SFYP	.020	2	SELIG

# LINERS (continued)

DESCRIPTION	FUNCTION	CONTAINER MATERIAL	IMPRINT	BACKING THICKNESS	NUMBER OF PIECES	MFG.
HS035	WS	UV	PLAIN, R SFYP, B & R BILINGUAL	.020	1	SANCAP
HS035	CP	UV	R SFYP	.008	1	SANCAP
HS035	WS	UV	R SFYP	.025	2	SANCAP
HS035N/20LD	WS	UV	R SFYP	.020	1	SANCAP
HS123	WS, EE	PE	W & B SFYP	.020	2	TEKNI-PLEX
HS128	WS, EE	PP	W SFYP	.020	2	TEKNI-PLEX
HS130	WS	PE	PLAIN, B SFYP	.020	2	TEKNI-PLEX
HS205	WS	UV	R SFYP	.020	1	TEKNI-PLEX
HSL5-6	CP	UV	R SFYP	.020	2	TECHSEAL
HSS-5.6/20	WS	GL, PE, PP, PS, PET, PVC	R SFYP	.020	1	TECHSEAL
ISPE BA003	WS	PE	PLAIN	U-10/.013	1	SELIG CANADA
ISPE/PP BA015	CP, HB	PE, PP	B SFYP, PLAIN	U-5/.008	1	SELIG CANADA
ISPP BA215	WS, HB	PP	PLAIN	U-10/.013	1	SELIG CANADA
ISPVC/PET	WS	PET, PVC	PLAIN	U-10/.013	1	SELIG CANADA
MRPLN04	WS	UV	R SFYP	.020	1	MRP
PE FOAM	TR	UV	PLAIN	.035	1	TRI-SEAL
PHARM SEAL V	TR	UV	PLAIN	.020	1	TECHSEAL
PLAIN PULP	TR	UV	PLAIN	.020	1	TECHSEAL
PRESSURE SEAL/20	PRS	UV	PLAIN, B SFYP	.020	1	SANCAP
PS113	PRS	UV	PLAIN, B SFYP	.020	1	SELIG CANADA
PVLF	TR	UV	PLAIN	.020	1	TEKNI-PLEX
SG75	WS	PE	PLAIN, W SFYP	.020/.035	2	SELIG CANADA
SG90	CP	PET, PVC	PLAIN, W SFYP	.020	2	SELIG CANADA
TEFLON	TR	UV	PLAIN	.040	1	SAINT-GOBAIN PERFORMANCE PRODUCTS
TRI-FOIL	TR	UV	PLAIN	.035	1	TRI-SEAL
TRI-GUARD TSPE	WS, HB	PE	PLAIN	.035	2	TRI-SEAL
TRI-GUARD TSPP	WS, HB	PP	PLAIN	.035	2	TRI-SEAL
TS VIII	TR	UV	PLAIN	.020	1	TECHSEAL
<b>TWINSBURG</b>						
.020 MANILA PULP WAX COATED UNPRINTED 3-7/16"	TR	UV	PLAIN	.020	1	SELIG
.020C25/FSM-1 SFYP 4-3/16"	PE	PE	SFYP	.020	1	SELIG
.040 FOAM POLYSTYRENE ENG SFF BLACK PRINT 4-3/16"	PS	PS	SFF	.040	1	SELIG
F-217 .040 FOAM UNPRINTED 4-7/8"	TR	UV	PLAIN	.040	1	SELIG
F-217 .025 FOAM UNPRINTED 3"	TR	UV	PLAIN	.025	1	SELIG
FS1-13 .008 C1S/.002R1	CP	PE, PP	SFF	.008	1	SELIG
FS1-13 S70A FOAM	CP	PE, PP	PLAIN	.007	1	SELIG
FS1-16 .008 C1S/.002R1	CP	PE, PP	PLAIN	.008	1	SELIG



## LINERS (continued)

DESCRIPTION	FUNCTION	CONTAINER MATERIAL	IMPRINT	BACKING THICKNESS	NUMBER OF PIECES	MFG.
FS3-19 .020 C25 FOAM	CP	PET, PVC	SFF	.020	1	SELIG
FS3-19 S70	CP	PET, PVC	SFF	.007	1	SELIG
FS3-25 S70 FOAM	CP	PET, PVC	SFF	.007	1	SELIG
FS3-27 S70 FOAM	CP	PET, PVC	PLAIN	.007	1	SELIG
FS5-10 .008 C1S/.002R1	CP	PE, PET, PVC, PP, GL	SFYP	.008	1	SELIG
FS5-4 .008 C1S	TE	UV	SFF	.008	1	SELIG
FS5-4 .020 C25 FOAM	TE	UV	SFF	.020	1	SELIG
FS5-8 .020 PS FOAM	TE	UV	SFYP	.020	1	SELIG
FS5-9 .008 C1S/.002R1	CP	UV	SFF	.008	1	SELIG
FS5-9 S105 FOAM	CP	UV	PLAIN	.0105	1	SELIG
FSM-1 .008 C1S/.002R1	TE	PE	SFYP	.008	1	SELIG
FSM-4 .008 C1S/.002R1	TE	PP	SFF	.008	1	SELIG
HS .020 VENTED	CP	UV	SFF	.020	1	SELIG
HS O35/.020R	CP	UV	SFYP	.020	1	SELIG
HS5-6 .020 FOAM	CP	UV	SFYP	.020	1	SELIG
HSL-3 .040 FOAM	CP	UV	PLAIN	.040	1	SELIG
LP127E LIFT-N-PEEL	CP	PE, PP	LNP	.007	1	SELIG
LP170H LIFT-N-PEEL	CP	PE, PVC, PET, GL	LNP	.007	1	SELIG
LP283T LIFT-N-PEEL	CP	PVC, PET	LNP	.007	1	SELIG
LP358M LIFT-N-PEEL	CP	UV	LNP	.013	1	SELIG
PS113 .020 FOAM M0475	PRS	UV	PLAIN	.020	1	SELIG
PS-F1 MO461	PRS	UV	SFF	.020	1	SELIG
<b>SOMERSET</b>						
LIFT-N-PEEL E-U5	CP	PE, PP	LNP	.007	1	SELIG
FOILSEAL ISCT-U5	CP	PVC, PET	PLAIN	.0045	1	SELIG
FOILSEAL ISPE, PP-U5	CP	PE, PP	PLAIN	.0045	1	SELIG
FOILSEAL ISPVC/PET-U5	WS	PVC, PET	PLAIN	.0045	1	SELIG
FOILSEAL S70A/FS1-13	CP	PE, PP	PLAIN, SFF	.007	1	SELIG
FOILSEAL S70A/FS1-15	CP	PE, PP	PLAIN, SFYP	.007	1	SELIG
FOILSEAL S70A/FS3-19	CP	PET, PVC	PLAIN, SFF	.007	1	SELIG
FOILSEAL S70A/FS5-9	CP	UV	PLAIN, SFF, SFYP	.007	1	SELIG
FOILSEAL TSPET/1	CP	PET, PVC	PLAIN	N/A	1	TRI-SEAL
HSS-5.6/020	WS	UV	SFYP	.020	1	TECH-SEAL
LIFT-N-PEEL E-U10	CP	PE, PET	LNP	.010	1	SELIG
LIFT-N-PEEL E-U5	CP	PE, PP	LNP	.007	1	SELIG
LIFT-N-PEEL M-U5	TE	UV	LNP	.013	1	SELIG
LIFT-N-PEEL T-U5	CP	PVC, PET	LNP	.007	1	SELIG
PRESSURE SENSITIVE PS22	PRS	UV	PLAIN, SFYP	.020	1	TRI-SEAL
PRESSURE SENSITIVE TSPS10-1F	PRS	UV	PLAIN	N/A	1	TRI-SEAL



# DECORATE IT!

When it comes to designing product packaging, customized closures and jars help boost shelf impact, drive sales and build brand loyalty. Look no further than MRP for your customization solutions including:



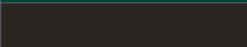


- Custom colors
- Embossing
- Debossing
- Hot Stamping
- Offset Printing
- Highlighting
- Pad Printing
- Digital Printing
- And Liner customization

# IN-HOUSE COLORS

We mold the rainbow. Whether you're using color to define a brand, or to brand within a brand, it's a great way to achieve a unique look that stands out on the shelf. MRP Solutions keeps a variety of standard pigments in house.

Don't see what you need? We can also match any specified color to support your brand. Color availability varies by manufacturing location.

SWATCH	COLOR	MATERIAL	MRP SOLUTIONS#	PANTONE #	FACILITY
	White	PP	MRPWH01   012W	White	<span>P</span> <span>S</span>
	Pearl White	PP	MPRWH04	Pearl*	<span>P</span>
	Blue/White	PP	MRPSH05	Cool Gray 1	<span>P</span>
	Yellow	PP	MRPYE01	121	<span>P</span>
	Yellow	PP	MRPYE02   271Y	108	<span>P</span> <span>S</span>
	Yellow	PP	MRPYE03   3204	116	<span>P</span> <span>S</span>
	Yellow	PP	MRPYE04   262Y	7408	<span>P</span> <span>S</span>
	Yellow	PP	263Y	2002	<span>S</span>
	Gold	PP	MRPGD01	871**	<span>P</span>
	Gold	PP	MRPGD02   246Y	872**	<span>P</span> <span>S</span>
	Orange	PP	MRPOR01   108O	151	<span>P</span> <span>S</span>
	Orange	PP	MRPOR02   129O	166	<span>P</span> <span>S</span>
	Tr. Orange	PP	095O	021***	<span>S</span>
	Tr. Orange	PP	MRPOR03	1495***	<span>P</span>
	Red	PP	MRPRD01	1795	<span>P</span>
	Red	LDPE	157R	186	<span>S</span>
	Red	PP	MRPRD02   250R	186	<span>P</span> <span>S</span>
	Red	PP	182R	200	<span>S</span>
	Red	PP	MRPRD03	1805	<span>P</span>
	Purple (pearl)	PP	MRPPU01	272*	<span>P</span>
	Purple	PP	MRPPU02	2587	<span>P</span>
	Purple	PP	MPPU03	520	<span>P</span>
	Purple	PP	163V	2073	<span>S</span>
	Purple	PP	162V	2607	<span>S</span>
	Pink	PP	MPPK01	240	<span>P</span>
	Pink	PP	180P	218	<span>S</span>
	Blue (Aqua)	PP	298B	2397	<span>S</span>
	Aqua	PP	MPRAQ01	632	<span>P</span>
	Blue	PP	330B	299	<span>S</span>
	Blue/White	PP	MRPBU01	640	<span>P</span>
	Tr. Blue	PP	MRPBU02	2935***	<span>P</span>
	Blue	PP	MRPBU03	286	<span>P</span>
	Blue	PP	MRPBU04	2945	<span>P</span>
	Blue	PP	MRPBU05	541	<span>P</span>
	Blue	PP	MRPBU06	281	<span>P</span>

SWATCH	COLOR	MATERIAL	MRP#	PANTONE #	FACILITY
	Blue	PP	MRPBU07	2755	P
	Green	PP	MRPGN01   254G	361	P S
	Green	PP	MRPGN02	348	P
	Green	PP	MRPGN03	335	P
	Green	PP	MRPGN04	561	P
	Green	PP	MRPGN05   372G	3308	P S
	Brown	PP	148N	1545	S
	Black	PP	MRPBK01	Black	P
	Tan/Beige	PP	MRPTN01	4545	P
	Brown	PP	MRPBR01	469	P
	Brown	PP	MRPBR02   173N	412	P S
	Gray	PP	MRPGY01	427	P
	Gray	PP	MRPGY02   116F	429	P S
	Silver	LDPE	MRPSV01   135F	877**	P S
	White PE	LDPE	MRPWH03   021W	White	P S
	Yellow	LDPE	MRPYE05	107	P
	Blue	LDPE	MRPBU08	286	P
	Green	LDPE	MRPGN06	348	P
	Green	LDPE	MRPGN07	3308	P
	Black	LDPE	MRPBK02   001K	Black	P S
	Silver	LDPE	MRPSV02   135F	877**	P S
	Yellow	PE	107Y	106	S
	Orange	PE	070O	021	S
	Blue	PE	126B	2756	S
	White PS	PS	MRPWH02   021W	White	P S
	White	PP	7620	White	T
	Black	PP	7566   7037   018K	Black 2C	T S
	Red	PP	7781	186C	T
	Green	PP	7786   348G	348C	T S
	Yellow	PP	7784	101C	T
	Reflex Blue	PP	7785   310B	Reflex Blue C	T S

When inquiring about these colors please reference the MRP Solutions #. Pantone #s are for reference only – not an exact match.

\* This color is pearlescent \*\* This color is metallic \*\*\* This color is very transparent

# TRUSTED

Committed to your success. Every day.

There's a reason MRP Solutions has been our customers' trusted partner for decades. Actually, there are five:

**Safety** – Everything we do is driven by safety excellence.

**Integrity** – We are respectful, ethical and authentic in all our actions.

**People-First** – We welcome, collaborate with, and support others by being proactive, approachable and agile.

**Accountability** – We keep commitments we make to one another and continually challenge ourselves by achieving ambitious goals without compromising quality.

**Friendly** – We are kind, encourage positivity, and make time to connect and laugh.

## MRP SOLUTIONS POLICIES

### DECORATING

We are equipped to meet your hot stamping or offset printing requirements on our closures or jars at very competitive pricing. We reserve the right to over/under ship by 15%. Hot stamp die & artwork charges available upon receipt of approved samples. Offset plates & artwork charges available upon receipt of approved samples.

### DESIGN AND MOLD BUILDING

Our excellent machine shop has the most modern equipment and is available to meet any of your custom mold requirements or to assist in any new product development.

### COLORANTS

Our white colorant suppliers have certified that all white colorants supplied to MRP Solutions meet all FDA and USP regulation. None of our white colorants contain heavy metals. FDA status of colors is the responsibility of our customer.

### SAMPLING

PLEASE NOTE: Testing for compatibility between caps, lining materials, containers and product is the responsibility of the customer solely. The customer is responsible for any premium service charges. Sample amount subject to approval.

### RESINS

MRP Solutions uses only prime resins from major suppliers and all are FDA approved and have Drug Master Files with the FDA.

### CLOSURE LINERS

All of our closures liners are certified as meeting all pertinent regulations.

### RECYCLING

Our single wall and PP inner PP outer double wall jars and all our unlined closures are recyclable.

### RETURNS

No returns without authorization (RA) number (FO RM SA 106). Restocking charges may apply. Returns must be within (90) days of invoice date. RAs are good for (60) days. After that returns will not be accepted. Unauthorized returns will be refused at delivery. If products are returned after (60) days, a 25% restocking fee will be assessed.

### FREIGHT CLAIMS / DAMAGED GOODS

Customer assumes full responsibility for prompt filing of freight claims for goods damaged in transit. Claims must be filed within (5) business days of the receipt of goods. We will assist as required. Claim denials due to late or delinquent filing will be the customer's sole responsibility.

### COMPATIBILITY

Our PP resin is not recommended for petroleum distillates. Certificate of Compliance issued with every order we process.

### NEXT DAY AND 2ND DAY AIR SERVICES FOR STOCK PRODUCTS

We do our best to get overnight shipments out immediately. However, things can happen beyond our control. Therefore, we will not be responsible for premium charges when a shipment goes the following day. Any orders received after 11:30 am EST will be considered next day's business.

### WEIGHTS

All weights given are in U.S. pounds and are accurate to within +/- 5%. MRP Solutions, LLC manufactures in accordance with good manufacturing process.

### TERMS & CONDITIONS

For a full list of terms & conditions, please visit [mrpcap.com](http://mrpcap.com).

## PACKAGING WITH PURPOSE.

For more information on MRP Solutions products and services, or to view a list of authorized distributors in your region, contact us today.

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