

AMALGA COMPOSITES, INC.



RESERVOIR QUALITY (RQ™)

Translucent Pressure Tubing

“At-A-Glance” Fluid Level Indication

Designed specifically for pressurized air-oil system reservoirs, translucent Reservoir Quality (RQ) Tubing provides the ease of “at-a-glance” fluid level indication from any angle. RQ Tubing is available in ID sizes ranging from 1 inch to 30 inches (metric sizes also available) and is typically used in systems of 150 psi or higher.

COMPANY PROFILE

Founded in 1966, Amalga Composites, Inc., of Milwaukee, Wisconsin is a leader in the design, engineering and manufacturing of superior quality composite components. Amalga Composites is one of the country's largest independent filament-winding operations with:

- 80,000 sq.ft. manufacturing facility
- three coating/painting areas
- six separate production lines
- complete machining capabilities
- three 200 x 40-foot overhead crane bays

Doctoral-level engineering provides the design expertise to meet the toughest requirements and offer immediate technical support for our customers, from prototype through production. Our company provides high-volume output for both domestic and international customers.

PRODUCT CAPABILITIES

- Pneumatic Cylinder Tubing
- Pressure Vessels
- Drive Shafts
- Magnetic Coil Forms
- Booms and Masts
- Food Grade Tubing
- Tubular Cores, Rollers and Shafts
- Reservoir Quality Tubing
- Electrical Tubing and Fuse Components
- Launch Tubes

... Better Choice

► **Eliminates Costly Sight Glass.**

RQ tubing is translucent, eliminating the need for an expensive and fragile sight glass.

► **Shatter Resistant.** RQ Tubing is formulated to withstand high impact and it is chip resistant. With an impact strength of 40 Izod ft.-lbs., unlike metals, RQ simply does not dent.

► **10 Times As Strong.** RQ Tubing offers at least 10 times the tensile strength of conventional thermoplastics such as polycarbonate, polystyrene and acrylic.

► **Superior Corrosion Resistance.** Trouble-free performance in chemical, acid, high moisture and other corrosive conditions and adverse environments including salt and chlorinated water.

► **75% Reduction in Weight.** Composite construction reduces material handling and shipping costs. Approximately 1/4 the weight of steel or brass and 3/4 the weight of aluminum, RQ is much easier to handle than traditional metal tubing. Assembly times are reduced and stress loads on connected component parts are decreased.



Uncompromising Quality and Service Includes:

► **Large Inventory of Tooling.** Amalga Composites has developed an extensive inventory of tooling to meet most needs. If not available, we will quote the cost of tooling separately.

► **Storage Capacity.** We can stock products to meet your JIT, MRP or KAN BAN requirements.

► **Quality Products for the Fluid Power Industry.** Amalga Composites, Inc. is a leader in designing, engineering and manufacturing filament wound composites to meet the tough environmental and performance requirements of the Fluid Power Industry.

► **Responsive Service.** Call for additional technical assistance on size and price for Reservoir Quality Tubing and other composite products. We are interested in helping you!

AMALGA COMPOSITES, INC.

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Metric Measurement System

Model No. ¹	Standard Bore Size (mm)	Random Lengths to	Operating kPa Non-Tie Rod Design ²	Operating kPa Tie Rod Design ²	Kilograms Per Meter
MRQ32	32	1.52 meters	6614	13298	0.492
MRQ40	40	1.52 meters	5305	10680	0.805
MRQ50	50	3.05 meters	4203	8544	0.969
MRQ63	63	3.05 meters	3376	6752	1.223
MRQ72	72	3.05 meters	3128	5822	1.059
MRQ80	80	3.05 meters	2618	5305	1.640
MRQ100	100	3.05 meters	2136	4272	1.938
MRQ125	125	3.05 meters	1723	3445	2.385
MRQ125 A	125	3.05 meters	2756	4754	3.578
MRQ160	160	3.05 meters	1309	2687	2.982
MRQ160 A	160	3.05 meters	2136	3721	4.622
MRQ200	200	3.05 meters	1034	2136	3.727
MRQ200 A	200	3.05 meters	1723	2963	5.665

FOOTNOTES:

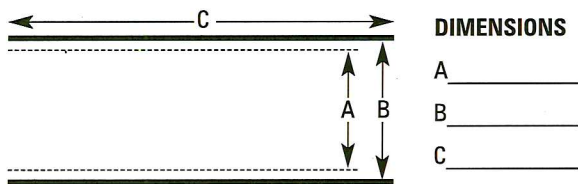
- Under 1.000-inch tooling available. Tooling constantly upgraded. Call for availability.
- Operating pressure calculated with minimum 4:1 safety factor.

Let Us Quote Your Application!

NAME: _____

COMPANY: _____

PHONE: _____



CHAMFER: NO YES Angle _____

SHOULDER: NO YES Depth _____ Length _____

HOLES: NO YES Diameter _____ Location _____

OTHER OPERATIONS: _____

QUANTITY IN PRODUCTION: _____

TOLERANCE REQUIREMENTS: O.D. _____ I.D. _____

Length _____ Other _____

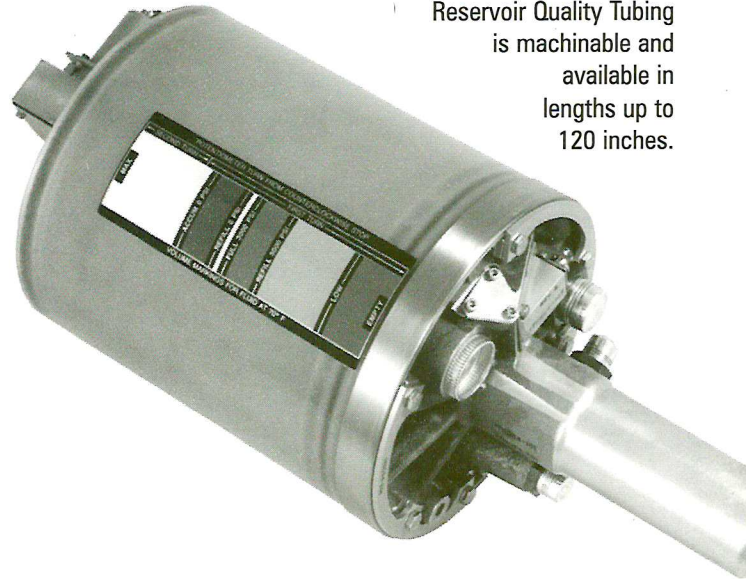
SAFETY FACTOR: _____ ; _____

CYLINDER APPLICATION? YES NO

FAX this to: 414-453-9561

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Reservoir Quality Tubing is machinable and available in lengths up to 120 inches.

Standard Measurement System

Bore Model No. ¹	Standard Random Size (Inches)	Lengths to	Operating PSI Non-Tie Rod Design ²	Operating PSI Tie Rod Design ²	Weight Per Foot LBS
RQ100	1.000	5 feet	1220	2,440	0.33
RQ112	1.125	5 feet	1080	2,170	0.37
RQ125	1.250	5 feet	980	1,950	0.41
RQ150	1.500	5 feet	810	1,620	0.50
RQ175	1.750	5 feet	700	1,390	0.56
RQ200	2.000	10 feet	610	1,200	0.66
RQ225	2.250	10 feet	543	1,000	0.75
RQ250	2.500	10 feet	490	970	0.83
RQ275	2.750	10 feet	440	890	0.91
RQ300	3.000	10 feet	410	810	1.00
RQ325	3.250	10 feet	380	750	1.10
RQ350	3.500	10 feet	350	700	1.20
RQ375	3.750	10 feet	330	650	1.30
RQ400	4.000	10 feet	300	610	1.30
RQ500	5.000	10 feet	240	490	1.70
RQ575	5.750	10 feet	210	420	1.90
RQ600	6.000	10 feet	200	410	2.00
RQ700	7.000	10 feet	170	350	2.30
RQ800	8.000	10 feet	150	300	2.70
RQ1000 A	10.000	10 feet	190	330	5.00
RQ1200 A	12.000	10 feet	160	280	6.00
RQ1400 A	14.000	10 feet	140	240	7.00

Reservoir Quality Tubing is limited to 0.187 wall thickness to retain translucency.