

Parflex Hose and Tubing for Marine Steering Systems

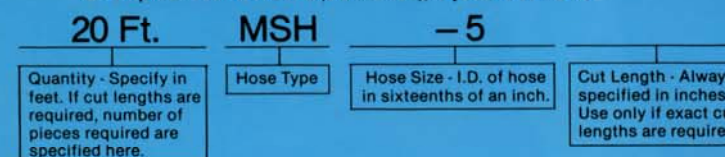


Ordering Information

How to Order Bulk Hose

Indicate quantity required, then hose type and size.

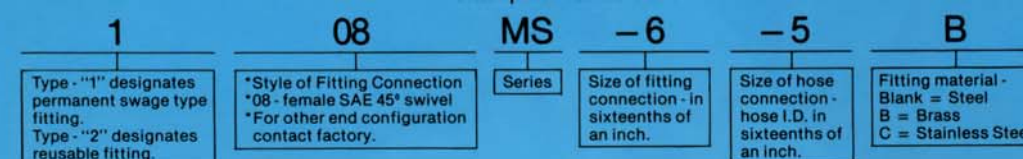
Examples: 250 ft. MSH-5 (bulk hose); 7 pcs. MSH-5-144"



How to Order Hose Fittings

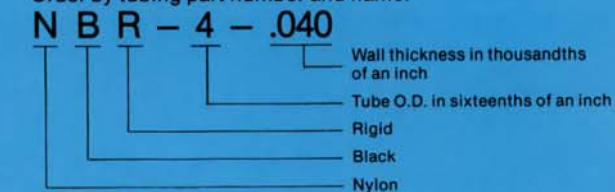
Order by part number as listed in this catalog.

Examples: 108MS-6-5-B



How to order tubing

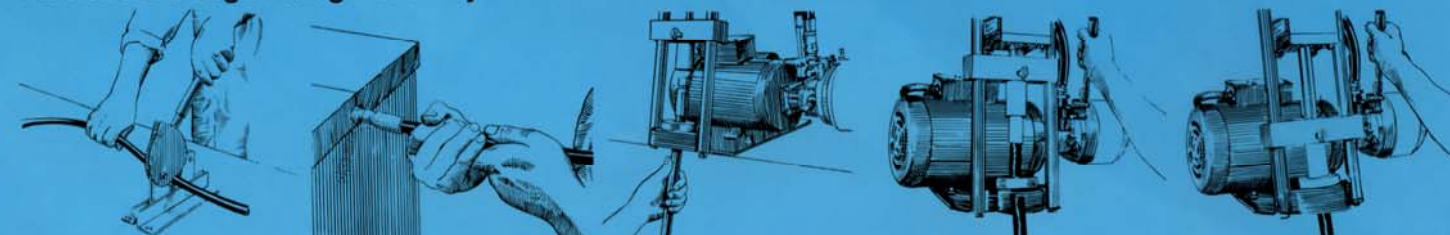
Order by tubing part number and name.



To order brass tube fittings, contact Brass Products Division.

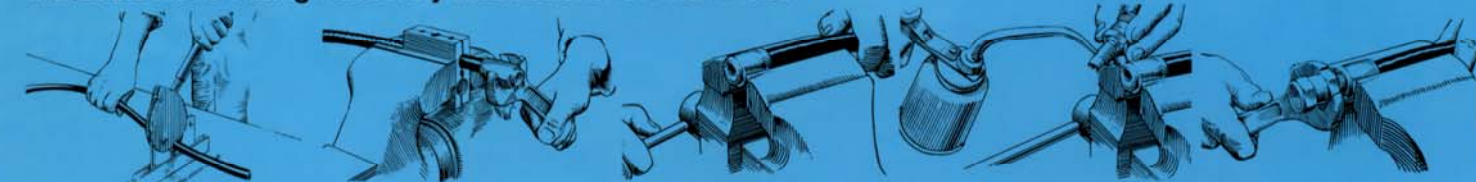
300 Parker Drive
Otsego, Michigan 49078
Phone (616) 694-9411

Permanent Swage Fitting Assembly Instructions for MSH Hose



1. Cut hose squarely to correct length with Parker Model 316 cut-off tool or some other sharp cutter. (Do not use abrasive wheels!)
2. Lightly lubricate the inside of the hose. Use Parker Hoze-Oil or an SAE 20 lubricating oil sparingly. Push hose into fitting until it bottoms.
3. Select proper pusher type and size (see fitting chart). Insert pusher in swager slide and tighten thumbscrew. Remove half of split die and insert fitting thru die opening into pusher. Lubricate inside of dies and replace other half.
4. Actuate valve. Keep an upwards pressure on the hose to hold the fitting in the pusher and guide fitting squarely into the dies. **WARNING! Keep fingers and hands away from die-pusher area.**
5. Swage fitting onto hose until pusher face and die face meet. Retract pusher and remove completed assembly.

Reusable Hose Fitting Assembly Instructions for MSH Hose



1. Measure accurately; then cut hose squarely to correct length, with Parker hose cutter or very sharp knife.
2. Grip hose in vise blocks or Parker Hozeblocker. Do not crush the hose. Lubricate the hose—cover liberally with Parker Hoze-Oil. Screw the socket counterclockwise until it bottoms. Back off 1/4 turn (if you prefer, hold socket in vise and screw hose into it counterclockwise, then back off 1/4 turn).
3. Put hex portion of socket in vise.
4. Lubricate nipple thread liberally with Parker Hoze-Oil.
5. Screw nipple into socket, clockwise, with a wrench, on the nipple hex.

Let Parker steer you right!

PARKER PARFLEX MARINE HOSE AND TUBING OFFER YOU THESE ADVANTAGES



DEPENDABILITY

If you want dependable, improved boat handling and maneuverability that is so necessary, you can trust Parker Parflex hose and tubing. They are designed with a very low volumetric expansion factor that assures quick response time.

NON-CORROSIVE

Parker Parflex Marine Steering Hose and Tubing are built with advanced elastomeric polymer materials. These products are unaffected by the corrosive conditions encountered in fresh or salt water atmospheres.

LONG LIFE

With Parker MSH Hose and Tubing, you will have years of satisfactory, trouble-free service. Extensive and continuous laboratory testing has proven time after time that these products are built to last!

QUALITY

Parker Parflex® Marine Steering Hose and Tubing are engineered and built by Parker, the world leader in fluid power. The hose and tubing are manufactured in one of the most modern thermoplastic hose facilities in the country . . . under the most rigid standards . . . and with "state of the art" equipment. Our entire production cycle is monitored by laser-inspection equipment . . . finished products are critically tested so that customers are assured excellent performance. Be sure to order Parker Parflex Hose and Tubing for marine steering applications.

ABRASION RESISTANCE

If you are looking for super tough hose and tubing for your marine steering applications, look to Parker. Our products are built with specially formulated polyurethane covers that guard against external damage and premature failure. The covers are up to 500 times more abrasion resistant than conventional rubber hose and tubing.

FLEXIBILITY

Parker Marine Steering Hose and Tubing are extremely flexible for those "hard to route" critical applications that are so difficult with metal tubing material. Parker hose and tubing are made of light weight material and are designed with small bend radii for those especially tight areas.

Parflex Tubing

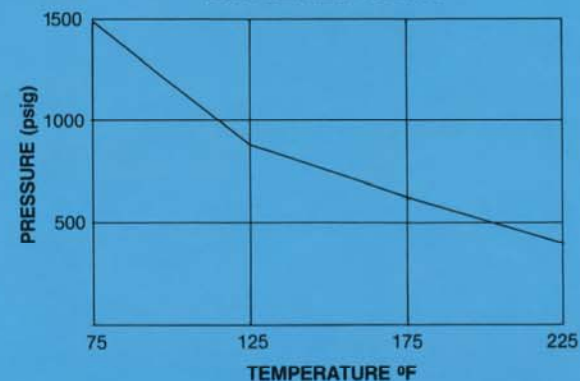
for system pressures up to 500 PSI

MARINE TUBING

| Part No. | Color | Nom. Tube O.D. (IN.) | Nom. Tube I.D. (IN.) | Avg. Wall Thickness (IN.) | Min. Burst (PSI) Pressure @ 73 °F | Min. Bend Radius (IN.) | Weight Lbs./100 ft. |
|-----------|-------|----------------------|----------------------|---------------------------|-----------------------------------|------------------------|---------------------|
| NBR-4-035 | Black | 1/4 | .180 | .035 | 1500 | 1 | 1.0 |
| NBR-5-040 | Black | 5/16 | .233 | .040 | 1500 | 1-1/2 | 1.5 |

NOTE: Fittings for marine tubing are in Parker Brass Fitting and Valve Catalog 3501-E

NBR SERIES TUBING



MARINE TUBING

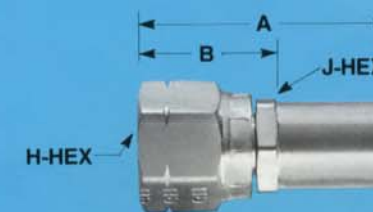
Constructed of nylon 11, eliminates problems of embrittlement or swelling which may occur with other nylon tubing. Excellent resistance to flexural fatigue — use when there is vibration or tube movement. Parflex NBR black tubing is designed to resist ultra violet light (sunlight) for increased life.

Parflex Hose

for system pressures up to 1000 PSI

MARINE STEERING HOSE

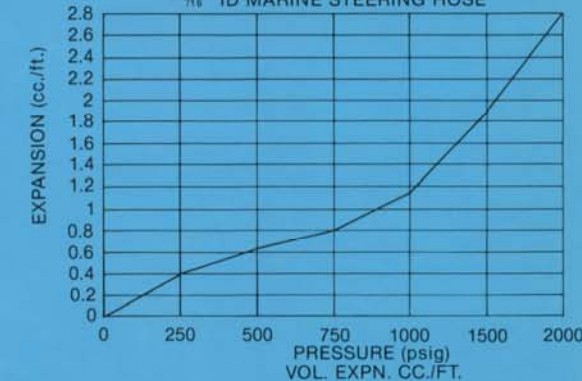
| Part No. | Hose I.D. | Hose O.D. | Recommended (PSIG) Working Pressure | Min. Burst PSI | Min. Bend Radius | WGT./FT. LBS. |
|----------|-----------|-----------|-------------------------------------|----------------|------------------|---------------|
| MSH-5 | 5/16 | .47 | 1000 | 4000 | 2-1/4 | .049 |



SAE 45° SWIVEL (108MS)

Recommended for use with Parker SAE 45° flared fittings (Reference catalog 3501R). For additional shapes and sizes, contact factory.

VOLUMETRIC EXPANSION OF MSH-5 HOSE
5/16" ID MARINE STEERING HOSE



MARINE STEERING HOSE FITTINGS

| Part No. | Type | Hose Size | Tube Size | Thread | A | B-Cutoff Allow. | H-Hex | J-Hex | Tooling Required Die | Tooling Required Pusher |
|------------|-----------|-----------|-----------|--------|------|-----------------|-------|-------|----------------------|-------------------------|
| 108MS-6-5B | Permanent | 5 | 3/8 | 5/8-18 | 1.68 | .99 | 13/16 | 5/8 | MO5 | PUFO27 |
| 208MS-6-5B | Reusable | 5 | 3/8 | 5/8-18 | 2.42 | 2.40 | 11/16 | 11/16 | N/R | N/R |