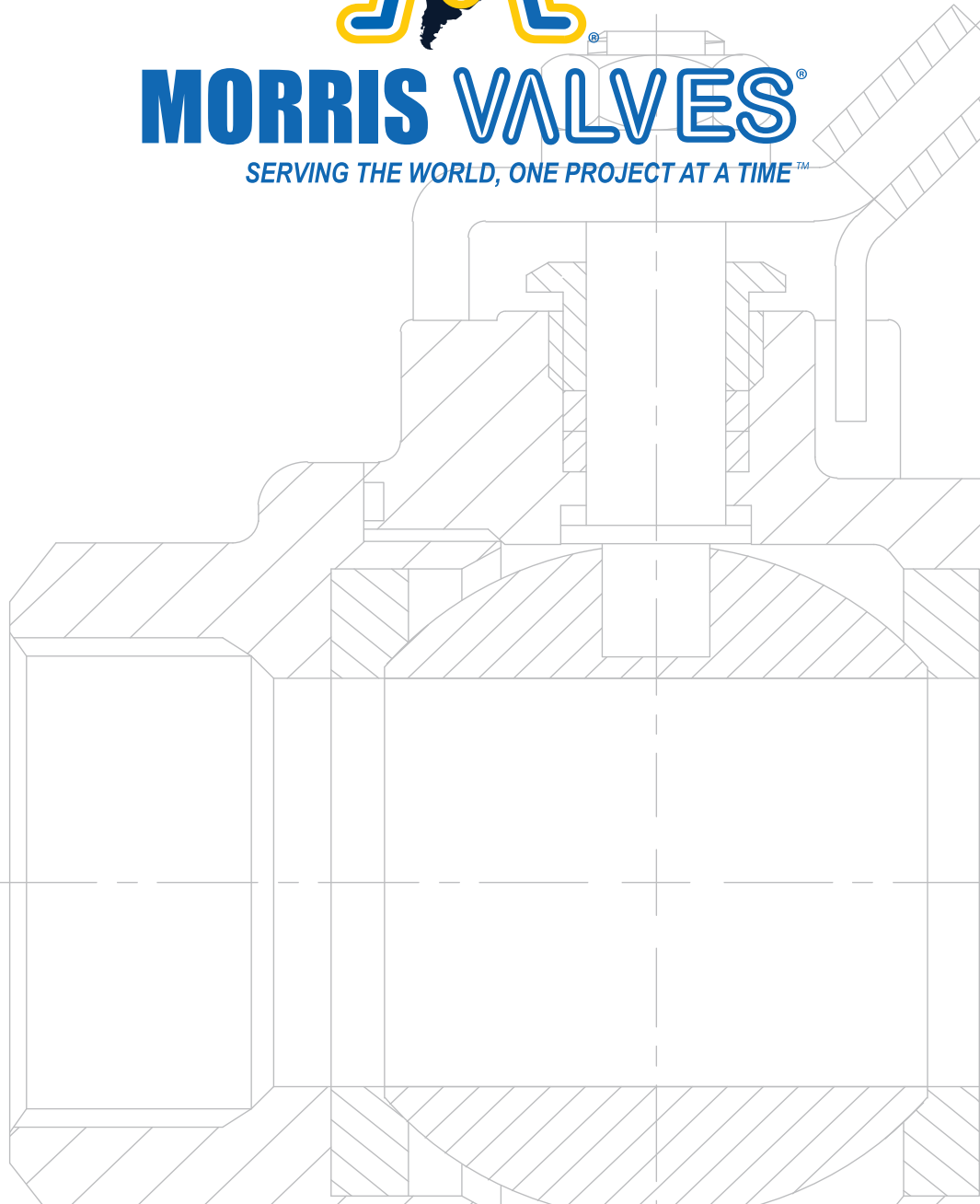




**MORRIS VALVES®**

SERVING THE WORLD, ONE PROJECT AT A TIME™



**Low Carbon Steel, Seamless Tubing. (Mild Steel Pipe)**

[www.morrisvalve.com](http://www.morrisvalve.com)



In 1984, our journey into the business of repairing valves and industrial instrumentation began. That journey has led us to represent and service well known American brands and companies. In early 2000, our experience and growing passion for the valve industry encouraged our decision to launch our own brand, Morris Valves. Starting with the highly requested Ball Valves, the brand has been based on the principal of quality and performance to match our customers' needs. Our high standards of production later lead us to incorporate other models such as Gate Valve and Check Valves to our production. These additions were carefully selected to match our Standard of Quality. Our success has been driven by our belief of "Tradition with Quality" in everything we do. Our products are developed with that belief which drives our growth and guides the service we provide to our customers.

Our vision is to be amongst the leading corporations in the supply of goods and services related to valves, their components and industrial equipment in general. We want to conquer new markets in conformity with international standards and remain committed to customer satisfaction, the welfare of our company and the sustainability of our planet.

## Mision

Our mission is to use our highly trained, highly focused, and extremely motivated staff to work with manufacturers who value quality and have the vision for new development and product applications to ensure the timely provision of goods and services related to valves, their components and industrial equipment in general. We maintain a rigorous standard of customer satisfaction, which will provide for the welfare of the company, the welfare of the countries we serve, and most importantly the sustainability of the planet.

## Contacts

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## Vision

*"Serving the world, one project at a time"*

# Low Carbon Steel, Seamless Tubing. (Mild Steel Pipe)



## SPECIFICATIONS:

\* Manufacturing Standards:

- ASTM 519.

\* Material Grades:

-1020, either hot-finished or cold-finished.

\* Applications:

- For Mechanical Engineering, Fluid delivery, Hydraulic, Stem, Gas, Connecting pipe.

\* Length:

- 6 meters, but our tubes can also be delivered as coiled tubing, contributing to reduced installation costs and any customized length.

\* Packing: :

- Wooden cases, bundle or plastic bags, Plywood Crates. Delivered with plugged ends for transport protection against inside contamination.

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Steel grade and Chemical composition (%) of ASTM A519:

| ASTM A519<br>Grade 1020<br>Chemical composition (%) |                      |                        |                               |                             |    |    |
|---|----------------------|------------------------|-------------------------------|-----------------------------|----|----|
| C   | Mn                   | P≤                     | S≤                            | Si                          | Cr | Mo |
| 0.18-0.23   | 0.30-0.60            | 0.040                  | 0.050                         |                             |    |    |
| Mechanical Properties                               |                      |                        |                               |                             |    |    |
| CONDITION   | YIELD STRENGTH (MPA) | TENSILE STRENGTH (MPA) | ELONGATION IN 2IN. OR 50MM, % | ROCKWELL, HARDNESS B SCALE. |    |    |
| HR  | 221                  | 345                    | 25                            | 55                          |    |    |
| CW  | 414                  | 483                    | 5%                            | 75                          |    |    |
| SR  | 345                  | 448                    | 10%                           | 72                          |    |    |
| A   | 193                  | 331                    | 30%                           | 50                          |    |    |
| N   | 234                  | 379                    | 22%                           | 60                          |    |    |
| Meaning of abbreviation                             |                      |                        |                               |                             |    |    |
| HR  | HOT ROLLED           |                        |                               |                             |    |    |
| CW  | COLD WORKED          |                        |                               |                             |    |    |
| SR  | STRESS RELIEVED      |                        |                               |                             |    |    |
| A   | ANNEALED             |                        |                               |                             |    |    |
| N   | NORMALIZED           |                        |                               |                             |    |    |

# Hydraulic / Instrumentation, Seamless Tubing & Tube.



## SPECIFICATIONS:

- \* Manufacturing Standards:
  - ASTM 269, ASTM A312, ASTM 213.
- \* Material Grades:
  - 304/304L, TP 304/TP 304L, TP 321, 316/316L, TP316/TP 316L.
- \* Applications:
  - For general service, Fluid delivery, Connecting pipe
- \* Length:
  - Instrumentation tube is straight lengths of 6 meters, but our tubes can also be delivered as coiled tubing, contributing to reduced installation costs.
- \* Mill test certificate:
  - According to EN 10204 3.2
- \* Packing: :
  - Wooden cases, bundle or plastic bags, Plywood Crates. Delivered with plugged ends for transport protection against inside contamination.

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## Fractional Sizes

\*Allowable working pressures are calculated from an S value of 20 000 psi (137.8 MPa) for ASTM A269 tubing at (-20 to 100°F)(-28 to 37°C), as listed in ASME B31.3 and ASME B31.1.

| Tube OD in. | Tube Wall in. | Weight lb/ft | Working Pressure psig | P/N         |
|-------------|---------------|--------------|-----------------------|-------------|
| 1/8         | 0.028         | 0.029        | 8500                  | FT69-2-28   |
|             | 0.035         | 0.080        | 5100                  | FT69-4-35   |
| 1/4         | 0.049         | 0.105        | 7500                  | FT69-4-49   |
|             | 0.065         | 0.128        | 10200                 | FT69-4-65   |
|             | 0.035         | 0.127        | 3300                  | TF69-6-35   |
| 3/8         | 0.049         | 0.171        | 4800                  | FT69-6-49   |
|             | 0.065         | 0.215        | 6500                  | FT69-6-65   |
|             | 0.035         | 0.174        | 2600                  | FT69-8-35   |
| 1/2         | 0.049         | 0.236        | 3700                  | FT69-8-49   |
|             | 0.065         | 0.302        | 5100                  | FT69-8-65   |
|             | 0.065         | 0.389        | 4000                  | FT69-10-65  |
| 3/4         | 0.065         | 0.476        | 3300                  | FT69-12-65  |
| 1           | 0.083         | 0.813        | 3100                  | FT69-16-83  |
| 1-1/4       | 0.095         | 1.187        | 2800                  | FT69-20-95  |
|             | 0.120         | 1.473        | 3600                  | FT69-20-120 |
| 1-1/2       | 0.120         | 1.792        | 3000                  | FT69-24-120 |
|             | 0.134         | 1.981        | 3400                  | FT69-24-134 |
|             | 0.134         | 2.705        | 2500                  | FT69-32-134 |
| 2           | 0.188         | 3.686        | 3600                  | FT69-32-188 |

## Metric Sizes

\*Allowable working pressures are based on equations from ASME B31.3 and ASME B31.1 for EN ISO 1127 tubing (D4, T4 tolerance for 3 to 12 mm; D4, T3 tolerance 14 to 50 mm), using a stress value of 137.8 MPa (20 000 psi) and tensile strength of 516.4 MPa (74 900 psi).

| Tube OD mm | Tube Wall mm | Weight kg/m | Working Pressure bar | P/N         |
|------------|--------------|-------------|----------------------|-------------|
| 3          | 0.5          | 0.021       | 330                  | MT69-3M-5   |
|            | 0.7          | 0.027       | 0.027                | MT69-3M-7   |
| 6          | 1.0          | 0.125       | 420                  | MT69-6M-10  |
|            | 1.5          | 0.169       | 710                  | MT69-6M-15  |
| 8          | 1.0          | 0.175       | 310                  | MT69-8M-10  |
|            | 1.5          | 0.244       | 520                  | MT69-8M-15  |
| 10         | 1.0          | 0.225       | 240                  | MT69-10M-10 |
|            | 1.5          | 0.319       | 400                  | MT69-10M-15 |
|            | 1.0          | 0.275       | 200                  | MT69-12M-10 |
| 12         | 1.5          | 0.394       | 330                  | MT69-12M-15 |
|            | 2.0          | 0.500       | 470                  | MT69-12M-20 |
|            | 1.0          | 0.375       | 140                  | MT69-16M-10 |
| 16         | 1.5          | 0.507       | 230                  | MT69-16M-15 |
|            | 2.0          | 0.651       | 330                  | MT69-16M-20 |
|            | 1.0          | 0.425       | 120                  | MT69-18M-10 |
| 18         | 1.5          | 0.619       | 200                  | MT69-18M-15 |
|            | 2.0          | 0.801       | 290                  | MT69-18M-20 |
|            | 2.0          | 0.901       | 260                  | MT69-20M-20 |
| 20         | 2.0          | 1.15        | 200                  | MT69-22M-20 |
|            | 2.5          | 1.41        | 260                  | MT69-22M-25 |



*A Tradition of Quality*

*Our passion is to develop solutions for difficult situations in Industrial Applications, no matter how large or small the project.*

*"Serving the world, one project at a time"*

