



## SECTION 01 MALLEABLE FITTINGS

We offer one of the most extensive selections of black and galvanized malleable iron fittings in the industry. Available in 13 diameters from 1/8" to 6", every fitting is produced to exact specifications. All galvanized products are zinc-coated for water applications and meet all low-lead requirements. In addition, all of our iron fittings undergo our rigorous testing and quality inspections.

### 150# Black & Galv. Fittings.....004

- Elbows
- Tees
- Locknuts
- Crosses
- Couplings
- Caps
- Flanges
- Unions
- Plugs



# BLACK & GALVANIZED FITTINGS | MALLEABLE FITTINGS



**90° Elbow**  
150# Malleable Iron Threaded Fittings  
FIP x FIP

## BULK PART NUMBER

| Size  | Black   | Galvanized | Inner | MC  |
|-------|---------|------------|-------|-----|
| 1/8   | 520-000 | 510-000    | 50    | 600 |
| 1/4   | 520-001 | 510-001    | 35    | 420 |
| 3/8   | 520-002 | 510-002    | 45    | 270 |
| 1/2   | 520-003 | 510-003    | 50    | 200 |
| 3/4   | 520-004 | 510-004    | 35    | 105 |
| 1     | 520-005 | 510-005    | 20    | 60  |
| 1-1/4 | 520-006 | 510-006    | 20    | 40  |
| 1-1/2 | 520-007 | 510-007    | 15    | 30  |
| 2     | 520-008 | 510-008    | 8     | 32  |
| 2-1/2 | 520-009 | 510-009    | -     | 13  |
| 3     | 520-010 | 510-010    | -     | 7   |
| 4     | 520-011 | 510-011    | 2     | 6   |
| 6     | 520-013 | 510-013    | -     | 2   |

## BARCODED PART NUMBER

| Size  | Black     | Galvanized | Inner | MC |
|-------|-----------|------------|-------|----|
| 1/8   | 520-000HC | 510-000HC  | -     | 25 |
| 1/4   | 520-001HN | 510-001HN  | -     | 10 |
| 3/8   | 520-002HN | 510-002HN  | -     | 5  |
| 1/2   | 520-003HN | 510-003HN  | -     | 25 |
| 3/4   | 520-004HN | 510-004HN  | -     | 25 |
| 1     | 520-005HN | 510-005HN  | -     | 10 |
| 1-1/4 | 520-006HN | 510-006HN  | -     | 5  |
| 1-1/2 | 520-007HN | 510-007HN  | -     | 5  |
| 2     | 520-008HN | 510-008HN  | -     | 4  |
| 2-1/2 | 520-009BC | 510-009BC  | -     | 20 |
| 3     | 520-010BC | 510-010BC  | -     | 7  |
| 4     | 520-011BC | 510-011BC  | 2     | 6  |
| 6     | -         | -          | -     | -  |



**90° Reducing Elbow**  
150# Malleable Iron Threaded Fittings  
FIP x FIP

## BULK PART NUMBER

| Size          | Black   | Galvanized | Inner | MC  |
|---------------|---------|------------|-------|-----|
| 1/4 X 1/8     | 520-110 | -          | 60    | 360 |
| 3/8 X 1/4     | 520-121 | -          | 60    | 360 |
| 1/2 X 1/4     | 520-131 | -          | 40    | 240 |
| 1/2 X 3/8     | 520-132 | 510-132    | 50    | 200 |
| 3/4 X 1/4     | 520-141 | -          | 50    | 150 |
| 3/4 X 1/2     | 520-143 | 510-143    | 40    | 120 |
| 1 X 1/2       | 520-144 | 510-144    | 30    | 90  |
| 1 X 3/4       | 520-154 | 510-154    | 25    | 75  |
| 1-1/4 X 1/2   | 520-163 | -          | 35    | 70  |
| 1-1/4 X 3/4   | 520-164 | 510-164    | 30    | 60  |
| 1-1/4 X 1     | 520-165 | 510-165    | 20    | 40  |
| 1-1/2 X 3/4   | 520-174 | -          | 15    | 45  |
| 1-1/2 X 1     | 520-157 | 510-157    | 20    | 40  |
| 1-1/2 X 1-1/4 | 520-176 | 510-176    | 15    | 60  |
| 2 X 1/2       | 520-183 | -          | 15    | 60  |
| 2 X 3/4       | 520-184 | -          | 15    | 30  |
| 2 X 1         | 520-185 | 510-185    | 14    | 28  |
| 2 X 1-1/4     | 520-186 | 510-186    | 10    | 40  |
| 2 X 1-1/2     | 520-187 | 510-187    | 10    | 40  |
| 2-1/2 X 1-1/4 | 520-196 | -          | -     | 15  |
| 2-1/2 X 1-1/2 | 520-197 | -          | -     | 15  |
| 2-1/2 X 2     | 520-198 | 510-198    | 5     | 15  |
| 3 X 2         | 520-118 | 510-118    | -     | 10  |
| 3 X 2-1/2     | 520-119 | -          | -     | 8   |
| 4 X 2         | 520-111 | -          | -     | 6   |

## BARCODED PART NUMBER

| Size          | Black     | Galvanized | Inner | MC    |
|---------------|-----------|------------|-------|-------|
| 1/4 X 1/8     | -         | -          | -     | -     |
| 3/8 X 1/4     | 520-121HC | 510-121HC  | -     | 25    |
| 1/2 X 1/4     | 520-131HC | -          | -     | 25    |
| 1/2 X 3/8     | 520-132HN | 510-132HN  | -     | 10    |
| 3/4 X 1/4     | 520-142HC | -          | -     | 15    |
| 3/4 X 1/2     | 520-143HN | 510-143HN  | -     | 10    |
| 1 X 1/2       | 520-144HP | 510-144HP  | -     | 10    |
| 1 X 3/4       | 520-154HN | 510-154HN  | -     | 5     |
| 1-1/4 X 1/2   | -         | -          | -     | -     |
| 1-1/4 X 3/4   | 520-164HC | 510-164HC  | -     | 8     |
| 1-1/4 X 1     | 520-165HP | 510-165HN  | -     | 8 / 5 |
| 1-1/2 X 3/4   | 520-174HC | -          | -     | 10    |
| 1-1/2 X 1     | 520-157HC | 510-157HC  | -     | 10    |
| 1-1/2 X 1-1/4 | 520-176HC | 510-176HC  | -     | 10    |
| 2 X 1/2       | -         | -          | -     | -     |
| 2 X 3/4       | -         | -          | -     | -     |
| 2 X 1         | 520-185HC | 510-185HC  | -     | 8     |
| 2 X 1-1/4     | 520-186HC | 510-186HC  | -     | 8     |
| 2 X 1-1/2     | 520-187HC | 510-187HC  | -     | 8     |
| 2-1/2 X 1-1/4 | -         | -          | -     | -     |
| 2-1/2 X 1-1/2 | -         | -          | -     | -     |
| 2-1/2 X 2     | -         | -          | -     | -     |
| 3 X 2         | -         | -          | -     | -     |
| 3 X 2-1/2     | -         | -          | -     | -     |
| 4 X 2         | -         | -          | -     | -     |



# FINISHES

## Black, Galvanized and Their Designed Applications

Our fittings, nipples and pipes are offered in three finishes: Black, Galvanized and Red Brass. Each finish offers unique application advantages over each other making them ideal for particular projects.

### BLACK FINISH

Accessories with black finish are generally used for lubricant oil, grease, LP gas, natural gas, gases (nitrogen, oxygen, etc.), steam and diesel. This finish is best suited for normal use where an inner rustproof protection is not required.

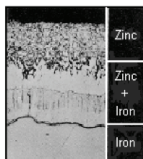
### GALVANIZED FINISH

Our Galvanized Finish offering is used for hot and cold water systems, refrigeration, sprinklers, compressed air, gasoline, diesel, alcohol, and some other applications where conducted fluid needs inner rustproof protection.

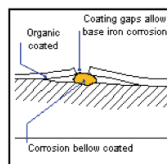
These fittings are manufactured by hot-dip galvanizing according to ASTM A-153. There are several ways to protect iron against rust, but none better than our hot-dip galvanizing process. Hot-dip galvanizing is one of the most efficient, practical and economical ways to protect iron and steel as zinc resists very well environment, air, and water corrosion for long lasting protection.

Galvanizing protects from corrosion the following ways:

- 1) It offers a long lasting isolating coverage made of metallic zinc and zinc alloy expertly applied to our iron.
- 2) Since zinc is bonded to iron as part of the iron-zinc combination, the protection works at a molecular level throughout the union. This serves as both a mechanical and corrosion protector.

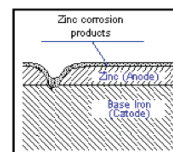


Zinc resists the environment's corrosive actions. Opposite to this, most of the organic coatings (paintings) are environmentally unstable and need to be renewed frequently. When a little failure occurs, corrosion starts and it begins to become larger under the protective coating.



Cathodic iron protection, provided by the metallic zinc coating, is factually based on corrosion being an electro-chemical process.

As zinc is a highly active electrochemical element, it tends to absorb oxygen before iron does it. Furthermore, this condition



creates additional protection against zinc hydroxide. This cathodic protection prevents corrosion to exposed parts, due to any discontinuity or mechanical damage on the coating.