These markings are per AWWA (American Water Works Assoc.) Adopted by the NFPA

5.1 **Classification of Hydrants.**

Hydrants should be classified in accordance with their rated capacities [at 20 psi (1.4 bar) residual pressure or other designated value] as follows:

(1) Class **AA** - Rated capacity of 1500 gprn (5680 L/min) or greater

(2) Class A - Rated capacity of 1000-1499 gpm (3785-5675 L/min)

(3) Class B - Rated capacity of 500-999 gprn (1900-3780 L/min )

(4) Class C - Rated capacity of less than 500 gpm (1900 L/min)

**5.2 Marking of Hydrants.**

|  |  |  |
| --- | --- | --- |
| **Class** | **Color** | **Flow Capacity** |
| AA | Light Blue BonnetBlue Fire Hydrant | 1,500 gpm and above |
| A | Green BonnetGreen Fire Hydrant | 1,000 gpm or greater |
| B | Orange BonnetOrange Fire Hydrant | 500 to 1,000 gpm |
| C | Red BonnetRed Fire Hydrant | Less than 500 gpm |
|  | White BonnetMeans below 500 and is being tested |  |

Note what will also change is..:

**Body Color**

|  |  |  |
| --- | --- | --- |
| **GREEN** | Over 120 p.s.i | Extremely high pressure (caution!) |
| **ORANGE/YELLOW** | 50-120 p.s.i. | "Normal" pressure range |
| **RED** | Below 50 p.s.i. | Must be "pumped" |

|  |
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| 5.2 Marking of Hydrants.5.2.1 Public Hydrants.5.2.1.1 All barrels are to be chrome yellow except in cases where another color has already been adopted.5.2.1.2 The tops and nozzle caps should be painted with the following capacity-indicating color scheme to provide simplicity and consistency with colors used in signal work for safety, danger, and intermediate condition:Class AA- Light blueClass A - GreenClass B - OrangeClass C - Red5.2.1.3 For rapid identification at night, it is recommended that the capacity colors be of a reflective-type paint. |

FLOW RATE AND NUMBER OF HYDRANT OUTLETS REQUIRED TO FLUSH PIPELINES

|  |  |  |
| --- | --- | --- |
| **Pipe Diameter,(inches)** | **Flow Required to Produce Velocity of Approx. 2.5 ft/s in Main(gpm)** | **Number 2.5 inch (65mm) Hydrant Outlets** |
| 4 | 100 | 1 |
| 6 | 200 | 1 |
| 8 | 400 | 1 |
| 10 | 600 | 1 |
| 12 | 900 | 2 |
| 16 | 1600 | 2 |

In general, all Private Fire Hydrants are required to be painted solid RED, or a color that distinguishes them from a Public hydrant. OSHA requires that water sources that are non-potable be painted VIOLET

**Body Colors**

|  |  |  |
| --- | --- | --- |
| **WHITE** | Public System Hydrant |  |
| **YELLOW** | Private System Hydrant | Connected to public water main |
| **RED** | Special Operation Hydrant |  |
| **VIOLET** | Non Potable Supply | Effuent, pond or lake supply |

Some Cities have …

**Body Colors:**

|  |  |  |
| --- | --- | --- |
| **WHITE** | Public System Hydrant | 4” or Smaller main |
| **RED** | Public System Hydrant | 6” main |
| **ORANGE//YELLOW** | Public System Hydrant | 8” and 10” main |
| **GREEN** | Public System Hydrant | 12” or larger main |

|  |  |
| --- | --- |
| 1000 GPM+ 12 to 18 inch diameter main | Private Service Main, less than 500 GPM. 6” main |

In addition to these fire department applied markings, one may notice Roman numerals and other indicators painted in red. These markings indicate the location of the street shutoff valve which would need to be accessed in order to shut down the hydrant in the event it was knocked off or supply needed to be shut down for repairs.

**Regulated Mains**

We also have some neighborhoods in very high pressure areas where the water mains themselves are fed through pressure regulators so that water supplied to domestic users is not so extreme that it could damage water meters and plumbing. In these instances it is of critical importance to shut fire hydrants down slowly in order to prevent damage to water mains and system regulator sets. The orange "R" in a circle is a warning to fire fighters that the hydrant is on a regulator supplied pressure zone.

|  |  |  |
| --- | --- | --- |
| Orange Arrow | **->** | Indicates direction of water flowon a "dead end" main |
| Orange Arrow andvertical bar | **->|** | Indicates last hydrant anddirection of water flowon a "dead end" main |
| Orange "R" in a circle | **®** | Indicates hydrant is on aregulated pressure zone |