



## FRAC VALVES & SEATS

- Material: high quality alloy steel.
- Heat treated – carburized case (1.85 – 2.00mm).
- Surface hardness: HRC58-61; high resistance to abrasion and extrusion.
- Core hardness exceeds HRC41.

## VALVE INSERTS

- Made from proprietary urethane materials.
- High performance:
  - Hardness: 96±1A.
  - 300% Modulus: 2,987 PSI
  - Stress at Break: 9,775 PSI
  - Tear Strength: 89,245 Ft-Lbs
  - Abrasion Loss: 54.2 mm<sup>3</sup>
  - Rebound Resilience: 50%
  - Special Gravity: 1.2
  - Temperature: -22~300 Deg F.
- Insert Options:
  - \*Green: STD fracturing conditions.**
  - \*\*White: Extreme fracturing conditions.**

| P/N       | DESCRIPTION                                 |
|-----------|---|
| MF4GST    | 4" VALVE W/ GREEN INSERT + SEAT (SET) *     |
| MF4WST    | 4" VALVE W/ WHITE INSERT + SEAT (SET) **    |
| MF4-S     | 4" SEAT (ONLY)                              |
| MF4-VG    | 4" VALVE W/ URETHANE INSERT (GREEN) *       |
| MF4-VW    | 4" VALVE W/ URETHANE INSERT (WHITE) **      |
| MF4-V-UIG | 4" VALVE INSERT URETHANE (GREEN) * (ONLY)   |
| MF4-V-UIW | 4" VALVE INSERT URETHANE (WHITE)** (ONLY)   |
| MF4-TH-SS | 4" SPRING (ONLY)                            |
| MF5GST    | 4.5" VALVE W/ GREEN* INSERT + SEAT (SET)    |
| MF5WST    | 4.5" VALVE W/ WHITE** INSERT + SEAT (SET)   |
| MF5-S     | 4.5" SEAT (ONLY)                            |
| MF5-VG    | 4.5" VALVE W/ URETHANE INSERT (GREEN)*      |
| MF5-VW    | 4.5" VALVE W/ URETHANE INSERT (WHITE)**     |
| MF5-V-UIG | 4.5" VALVE INSERT URETHANE (GREEN)* (ONLY)  |
| MF5-V-UIW | 4.5" VALVE INSERT URETHANE (WHITE)** (ONLY) |
| MF5-TH-SS | 4.5" SPRING (ONLY)                          |

## APPLICATIONS:

- Pressure Rating: Max 20,000 PSI.
- Fracturing-Fluid: Water, Bio-gel.
- Polyacrylamide, acid, etc.
- Proppants: quarts sand, ceramic, etc
- Shale Gas & Oil Fracturing.
- Coal Bed Methane Fracturing.
- Conventional Fracturing.
- Acid Fracturing.