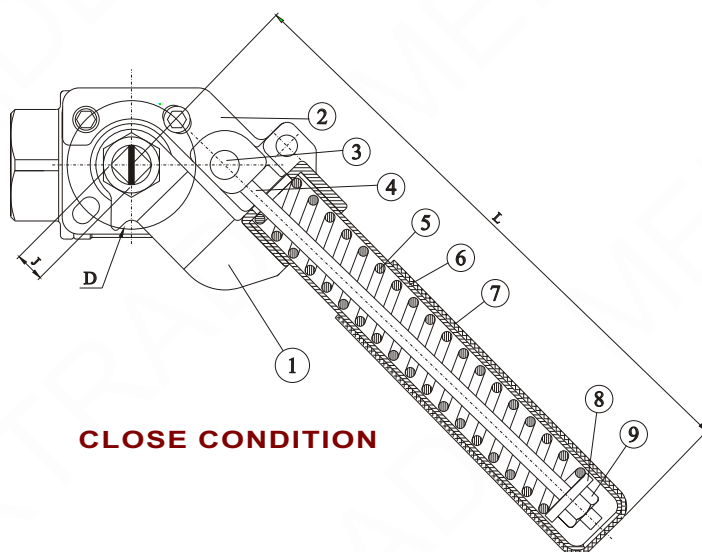


SPRING RETURN HANDLE

SPECIFICATION

- * Merxtrade Handle
- * with locking function
- * heavy duty design
- * for ISO 5211 direct mounting pad & DIN 3337 stem
- * suitable valve size 1/4" to 4"



CLOSE CONDITION

MATERIALS LIST

| ITEM | PART NAME | MATERIALS |
|------|------------------|--------------|
| 1 | HANDLE HEAD | CF8 |
| 2 | ANCHOR | Cf8 |
| 3 | ANCHOR SCREW | SS 304 |
| 4 | SPRING ROD | SS 304 |
| 5 | SPRING | SPRING STEEL |
| 6 | HANDLE EXTENSION | SS 304 |
| 7 | SLEEVE | PVC |
| 8 | WASHER | SS 304 |
| 9 | HEX NUT | SS 304 |

DIMENSIONS (mm)

| | L | J | D (ISO5211) | TORQUE |
|--|-----|--------|-------------|--------|
| | 170 | 9 | F03/F04 | 15 Nm |
| | 207 | 9 | F03/F04 | 22 Nm |
| | 220 | 11 | F04/F05 | 22 Nm |
| | 275 | 11 | F04/F05 | 35 Nm |
| | 280 | 14 | F05/F07 | 35 Nm |
| | 500 | 17/ 22 | F10/F12 | 100 Nm |

1000WOG/ PN 63
 SIZE: 1/4"-3"



SPECIFICATION

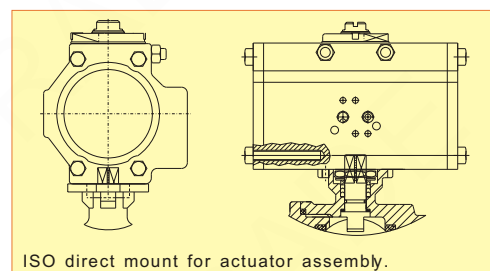
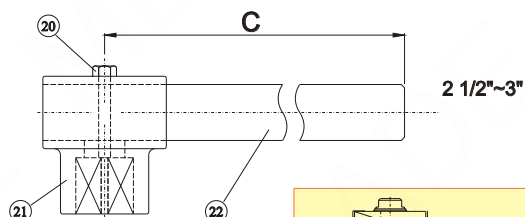
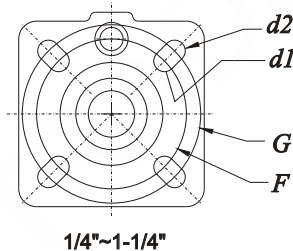
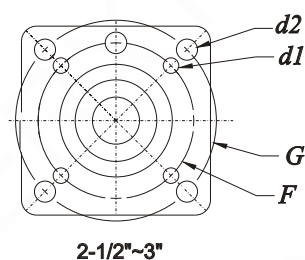
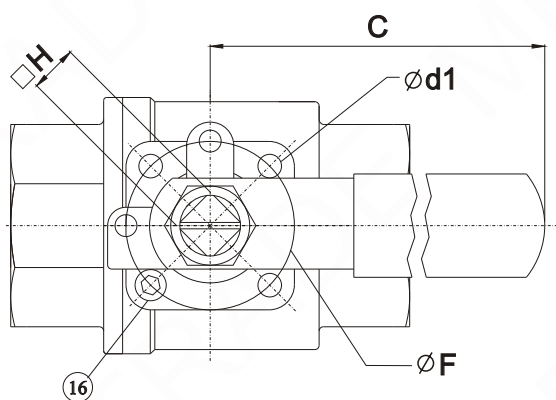
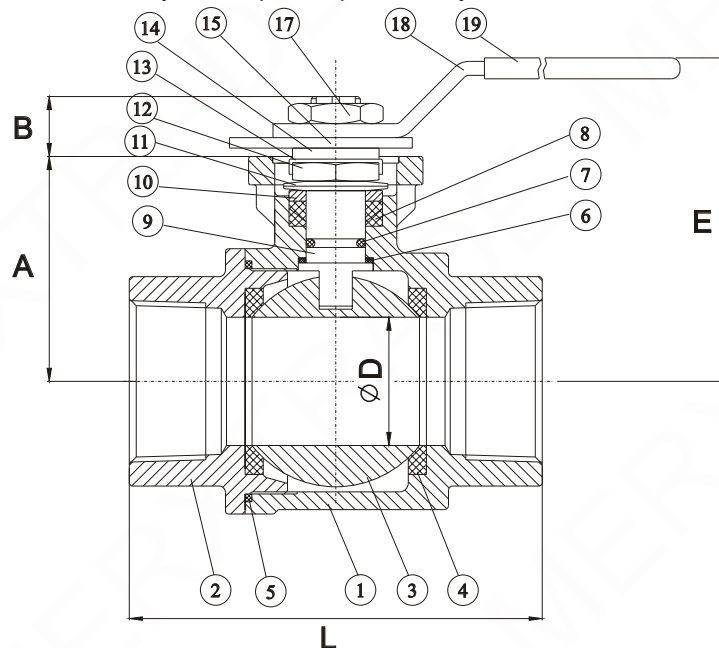
- * Body & end caps quality investment casting
- * with ISO 5211 direct mounting pad
- * Adjustable stem packing
- * Available in stainless steel or carbon steel
- * Blow-out proof stem design
- * 100% air tested under water at 80-100 psi
- * Working pressure: 1000/ 800 psi
- * Temperature range -20°F to 450°F
- * with locking function
- * End type: threaded

OPTION

- * Spring handle (dead man handle)
- * Oval handle
- * Automation application
- * PTFE/ PFA coating (40-70 um)
- * Hastalloy C/ Super duplex/ Alloy 20/ Monel

2-piece ball valve with ISO direct mounting pad is designed for most of the industrial pipelines as full port product. Different material of soft kits will be applicable for different working circumstance.

The standard bare stem type has been designed for direct mounting actuator with very low torque values.



ISO direct mount for actuator assembly.

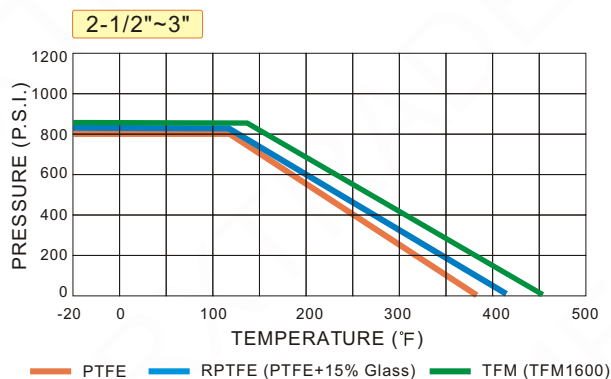
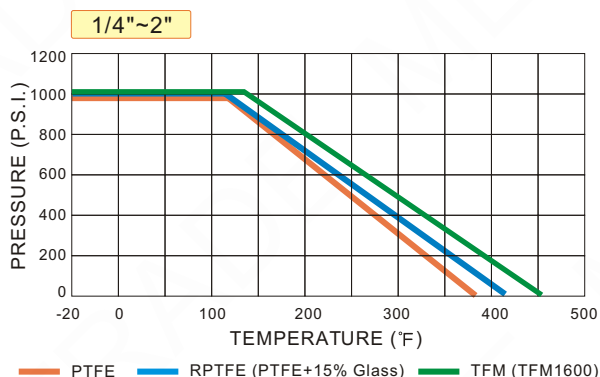
DIMENSIONS (mm)

| SIZE | A | B | C | D | d1 | d2 | E | F | G | H | L |
|--------|------|----|-----|------|-----|------|-----|----|-----|----|-------|
| 1/4" | 37 | 9 | 130 | 11 | 6.0 | 6.0 | 66 | 36 | 42 | 9 | 56.5 |
| 3/8" | 37 | 9 | 130 | 12.5 | 6.0 | 6.0 | 66 | 36 | 42 | 9 | 56.5 |
| 1/2" | 37 | 9 | 130 | 15 | 6.0 | 6.0 | 66 | 36 | 42 | 9 | 59.0 |
| 3/4" | 40 | 11 | 130 | 20 | 6.0 | 6.0 | 69 | 36 | 42 | 9 | 72.0 |
| 1" | 48 | 14 | 160 | 25 | 6.0 | 7.0 | 80 | 42 | 50 | 11 | 79.5 |
| 1-1/4" | 53.5 | 14 | 160 | 32 | 6.0 | 7.0 | 85 | 42 | 50 | 11 | 96.0 |
| 1-1/2" | 63.5 | 18 | 205 | 38 | 7.0 | - | 98 | 50 | - | 14 | 104.5 |
| 2" | 72 | 18 | 205 | 50 | 7.0 | - | 106 | 50 | - | 14 | 123.5 |
| 2-1/2" | 92 | 22 | 320 | 63.5 | 9.0 | 11.3 | 140 | 70 | 102 | 17 | 160.0 |
| 3" | 102 | 22 | 320 | 78 | 9.0 | 11.3 | 150 | 70 | 102 | 17 | 182.2 |

MATERIALS LIST

| ITEM | PART NAME | MATERIALS |
|------|---------------|------------|
| 1 | BODY | CF8M |
| 2 | END CAP | CF8M |
| 3 | BALL | SS 316 |
| 4 | SEAT | PTFE |
| 5 | GASKET | PTFE |
| 6 | THRUST WASHER | RPTFE |
| 7 | O-RING | VITON |
| 8 | STEM PACKING | PTFE |
| 9 | STEM | SS 316 |
| 10 | GLAND | SS 304 |
| 11 | DISK WAHSER | SS 301 |
| 12 | STEM NUT | SS 304 |
| 13 | NUT STOP | SS 304 |
| 14 | SPACE WASHER | SS 304 |
| 15 | PLATER | SS 304 |
| 16 | STOP PIN | SS 304 |
| 17 | HANDLE NUT | SS 304 |
| 18 | HANDLE | SS 304 |
| 19 | SLEEVE | PLASTIC |
| 20 | SET BOLT | SS 304 |
| 21 | LEVER HEAD | CF 8 |
| 22 | LEVER | STEEL PIPE |

PRESSURE/ TEMPERATURE



BREAK-TORQUE VALUE (Nm/ at 0 psi)

| SIZE | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2-1/2" | 3" |
|------------|------|------|------|------|-----|--------|--------|----|--------|----|
| GREASE | 3.5 | 3.5 | 5 | 5.5 | 7 | 11 | 17 | 23 | 35 | 46 |
| NON-GREASE | 5 | 5 | 6 | 7 | 9.5 | 16 | 27 | 30 | 68 | 85 |

Note 1: The greases use including lubricant & anti-seize grease are both SILICONE-FREE.

Note 2: Strongly suggest increasing at least 30%~40% for safety factor for mounting actuator.

Suggestion!

- After dismantling the ball valve, don't forget to replace with new Repair Kit.
- PTFE is better than RPTFE (+15% Glass) as operate the valve by actuation, for Glass fibre will damage the ball and cause the torque value to increase after 500 operations. Another good option is TFM or PTFE+25% Carbon.
- disassemble the valve ends before installation and ensure that the ends have cooled before reassembly.