





SKU: BV5131

-  Mars Series 33 - Diverting 3 Way Ball Valve
-  Mars Serie 33 - Umleiten 3 Wege Kugelhahn
-  Mars Serie 33 - Desvío de 3 Válvula de bola Camino
-  Mars Série 33 - Détourner 3 Way Ball Valve

**Valves**<sup>™</sup>  
O N L I N E

- 1/4 " - 4" Direct Mount 3 Way L or T Port ball Valve
- 1/4 " - 4" 3-Wege- Direktmontage L oder T-Anschluss -Kugelhahn
- 1/4 " - 4" de 3 vías montaje directo L o puerto T válvula de bola
- 1/4 " - 4" Montage direct 3 Way L Orr T Port balle Valve

## Mars Series 33 Multi-Port Ball Valve

Flanged PN16 and  
ANSI 150



- **Live Loaded Chevron PTFE Gland Packing**
- **Direct Mount Pad**
- **Full Bore**
- **Various End Connections**
- **L or T Flow Paths for Diverting**

### Description

3 Way L or T Port, full bore ball valve. body material in CF8M/316, with 5 seat design reinforced PTFE and live loaded chevron PTFE gland packing. This direct mount valve is suitable for manual or for automatic actuation, offering superior performance and reliability. Pressure rating 1000 PSI and temperatures up to 200°C. Connections are Screwed BSP or NPT, Butt or Socket Weld and flanged PN16 or ANSI 150.

Available in either L port (Diverter Valve) or T port.



### Description

Full Bore Stainless Steel 3 Way Ball Valve. The flow paths are in L or T configuration and offers a low torque. Easily actuated because of the ISO direct mount pad.

Temperature Range -20°C to 200°C.

Operating pressure: 1/4" to 1" 1000 PSI, 1 1/4" to 2" 800 PSI and 2 1/2" to 4" 600 PSI



### Beschreibung

Vollbohrung Edelstahl 3 Wege Kugelhahn . Die Strömungswege in L- oder T-Konfiguration und bietet ein niedriges Drehmoment . Leicht wegen der ISO Direktmontage Pad angesteuert.

Temperaturbereich -20 ° C bis 200 ° C .

Betriebsdruck : 1/4 "bis 1" 1000 psi , 1 1/4 "bis 2" 800 PSI und 2 1/2 "bis 4" 600 PSI



### Descripción

Bore completa de acero inoxidable Válvula de bola de 3 vías . Las trayectorias de flujo están en configuración L o T y ofrece un par motor bajo . Fácilmente accionado por el pad directa ISO montura.

Rango de temperatura de -20°C a 200°C .

Presión de trabajo : 1/4 "a 1 " 1000 PSI , 1 1/4 "a 2 " 800 PSI y 2 1/2 "a 4 " 600 PSI







### Description

Full Bore Stainless Steel 3 Way Ball Valve . Les trajets d'écoulement sont en configuration L ou T et offre un couple à bas régime . Facilement actionné en raison de la garniture à montage direct ISO .

Température -20°C à 200°C .

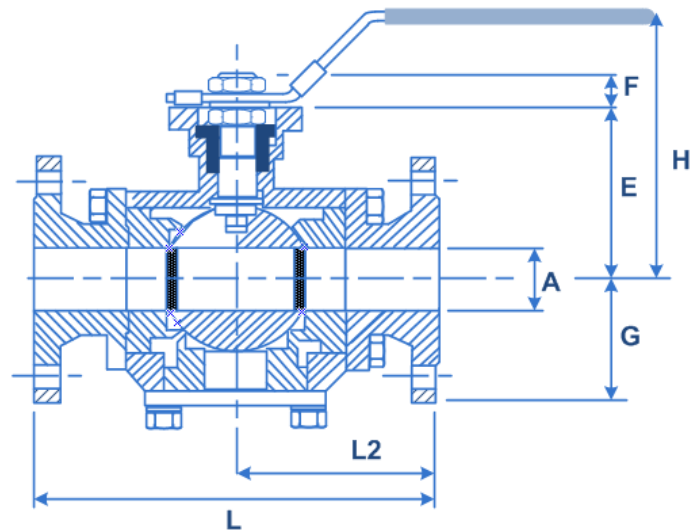
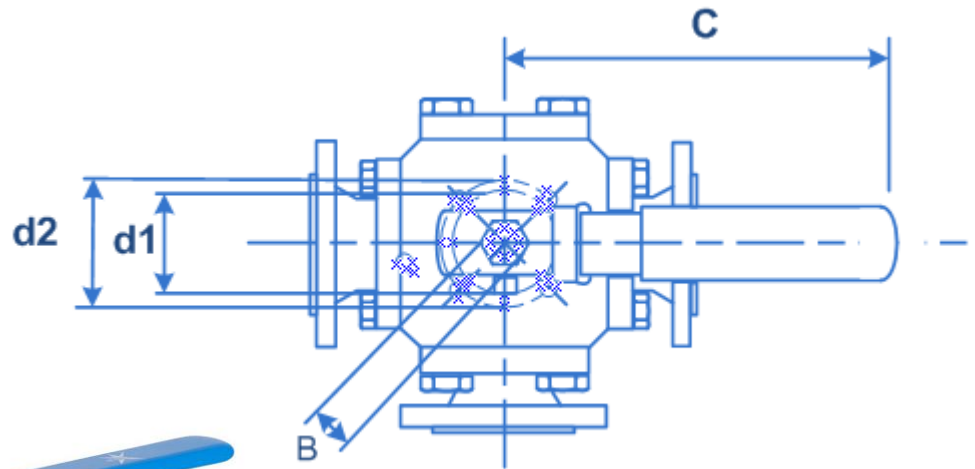
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## MARS Series 33 Ball Valve Flanged





### Flanged PN16 and ANSI 150

We can supply both PN16 and ANSI150 three way valves in the series 33 range. The valve offers full bore, L or T port flow path with the addition of a direct mount ISO pad for actuation.



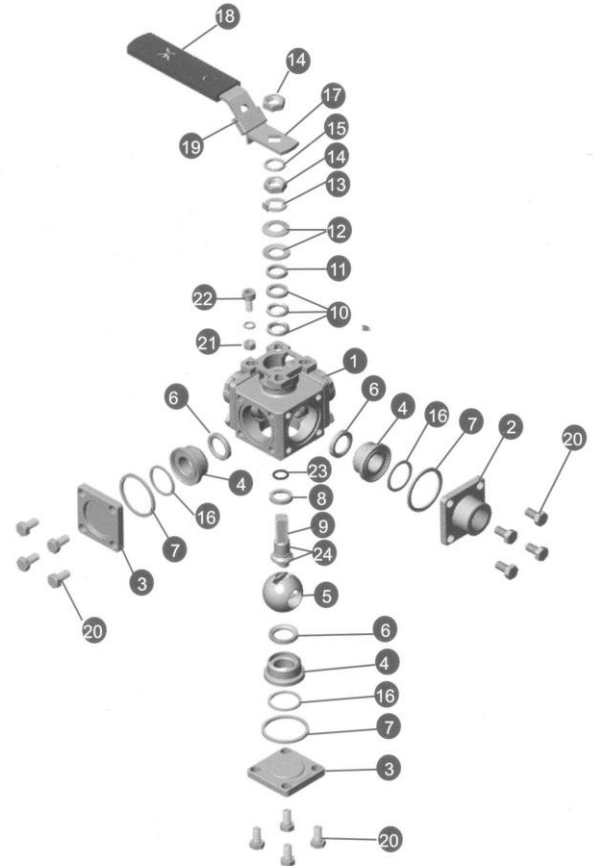
3 Way Full Bore Series 33 ANSI 150 and PN16

| SIZE   | A   | B     | C   | E     | F    | G     | H   | d1  | d2  | 150 | PN16 | ISO 5211    |
|--------|-----|-------|-----|-------|------|-------|-----|-----|-----|-----|------|-------------|
| 1/2"   | 15  | 9     | 150 | 43.9  | 9    | 35.1  | 85  | 36  | 42  | 150 | 165  | F03,F04,F05 |
| 3/4"   | 20  | 11    | 165 | 54.2  | 10.5 | 42.2  | 93  | 42  | 50  | 175 | 190  | F04/F05     |
| 1"     | 25  | 11    | 180 | 64.1  | 10.5 | 56.8  | 108 | 42  | 50  | 205 | 220  | F04,F05,F07 |
| 1 1/4" | 32  | 14    | 215 | 78.5  | 13   | 59.8  | 127 | 50  | 70  | 215 | 235  | F05/F07     |
| 1 1/2" | 40  | 17/19 | 263 | 94.9  | 18   | 72.3  | 152 | 70  | 102 | 255 | 270  | F07/F10     |
| 2"     | 50  | 17/19 | 313 | 101.6 | 18   | 80.5  | 159 | 70  | 102 | 280 | 290  | F07/F10     |
| 2 1/2" | 65  | 17/19 | 344 | 120   | 18   | 96.8  | 177 | 70  | 102 | 325 | 330  | F07/F10     |
| 3"     | 76  | 22    | 370 | 132.9 | 23   | 105   | 195 | 102 | 125 | 345 | 340  | F10/F12     |
| 4"     | 100 | 22    | 510 | 164   | 23   | 131.5 | 226 | 102 | 125 | 403 | 403  | F10/F12     |

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## MARS Series 33 Ball Valve

| Materials |                   |                               |     |
|-----------|-------------------|-------------------------------|-----|
| No.       | Part Name         | Material                      | Qty |
| 1         | Body              | ASTM A351 Gr. CF8M            | 1   |
| 2         | End Cap A         | ASTM A351 Gr. CF8M            | 3   |
| 3         | End Cap B         | ASTM A351 Gr. CF8M            | 2   |
| 4         | Stem Retainer     | ASTM A351 Gr. CF8M            | 5   |
| 5         | Ball              | SUS316                        | 1   |
| 6         | Seat              | PTFE/RTFE                     | 5   |
| 7         | Joint Gasket      | PTFE                          | 5   |
| 8         | Stem Seal         | PTFE                          | 1   |
| 9         | Stem              | SUS316                        | 1   |
| 10        | Gland Packing     | 25% Glass Fibre Filled + PTFE | SET |
| 11        | Gland Bush        | SUS304                        | 1   |
| 12        | Belleville Washer | SUS301                        | 2   |
| 13        | Stop Washer       | SUS304                        | 1   |
| 14        | Stem Nut          | SUS304                        | 2   |
| 15        | Stem Washer       | SUS304                        | 1   |
| 16        | Retainer Seal     | PTFE                          | 5   |
| 17        | Handle            | SUS304                        | 1   |
| 18        | Handle Sleeve     | Vinyl                         | 1   |
| 19        | Locking Device    | SUS304                        | 1   |
| 20        | Bolt Nut          | SUS304                        | 20  |
| 21        | Pin Nut           | SUS304                        | 1   |
| 22        | Stop Pin          | SUS304                        | 1   |
| 23        | O-Ring            | VITON                         | 1   |
| 24        | Antistatic Device | SUS304                        | #   |



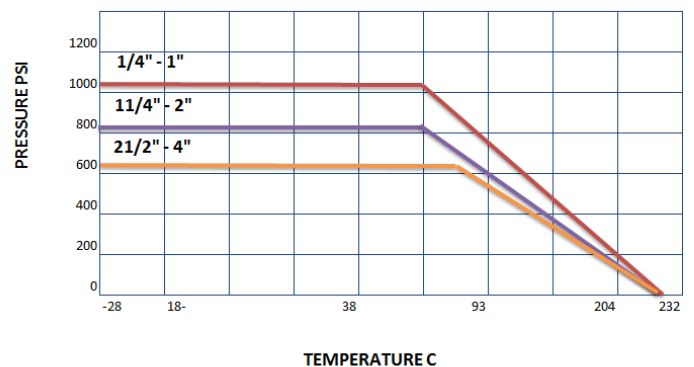
### Break Away Torque





| Valve Size |     | R-PTFE Seats |         |
|------------|-----|--------------|---------|
| Inches     | DN  | Nm           | Inch-Lb |
| 1/4"       | 8   | 8            | 75      |
| 3/8"       | 10  | 8            | 75      |
| 1/2"       | 15  | 8            | 75      |
| 3/4"       | 20  | 17           | 150     |
| 1"         | 25  | 36           | 325     |
| 1 1/4"     | 32  | 42           | 370     |
| 1 1/2"     | 40  | 68           | 600     |
| 2"         | 50  | 94           | 840     |
| 2 1/2"     | 65  | 25           | 1100    |
| 2"         | 80  | 198          | 1750    |
| 4"         | 100 | 250          | 2250    |

30% safety factor included, standard Mars Valves are assembled with silicon free based lubricant; torques for dry assembled valves please call us.

PRESSURE / TEMPERATURE CHART

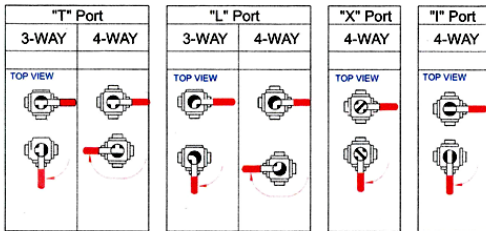
RPTFE SEATS



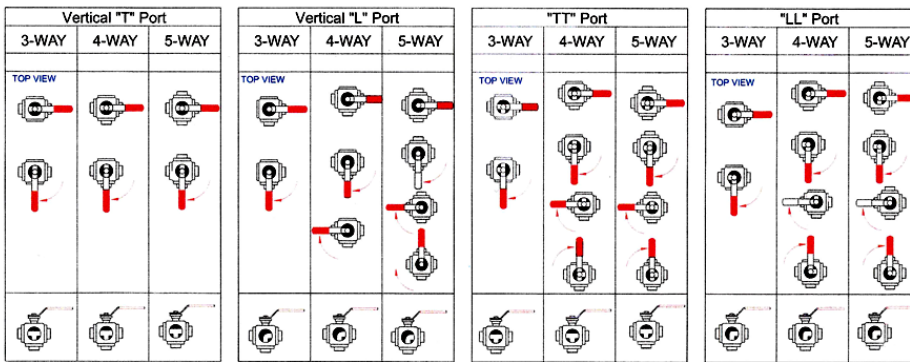
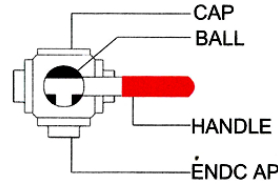
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## MARS Series 33 Ball Valve

### ■ FLOW PATTERNS



### SERIES 33



### END CONNECTIONS

Screwed BSP

Screwed NPT

Socket Weld

Butt Weld SCH 40

Flanged ANSI 150

Flanged PN16



Easy to Actuate in both  
Pneumatic or Electric

