

Square Operating Nut



General

- **Style:** Direct mount or gear operator mount
- **Material:** Aluminum (alternatives available upon request)
- **Type 546 Ball Valve Size:** 2½"–4" (d75–d110)
- **Type 578/567/563 Butterfly Valve Size:** 2"–24" (d63–d630)
- **Connection:** Set screw
- **Direct Mount Operation:** Quarter turn
- **Gear Op. Operation:** Multi-turn

Mounting Options

Gear-operated mount operating nuts use a gear operator to maintain the valves position. Standard gear operators from GF are not self-locking, but the mechanical advantage of the gear operator will maintain a valve's position even in high-velocity applications, defined by the suggested ideal velocity range for each given size line. If application velocities exceed these limits, a self-locking gear operator is suggested to be used.

Direct-mount operating nuts do not use a locking mechanism or mechanical advantage to maintain the valve's position and therefore should not be used on butterfly valves in medium- to high-velocity applications. Ball valves are less susceptible to this type of unwanted valve movement, but this style of operating nut should not be used on ball valves in high velocity applications.

Description

The 2" square operating nut is available on both ball and butterfly valves. The nut is mechanically connected to the stem of the valve and takes the place of the standard handle or gear operator. The nut can be directly installed on valve or used in conjunction with a gear operator. This allows for remote operation of the valve when it is below ground, in a well, under grating, or in a vault. Using this feature requires a tool that accommodates the nut.

Mount Options

Butterfly Valve Direct Mount



Square Nut Part Numbers

| Size (Inch) | d (mm) | Direct Mount |
|-------------|-----------|--------------|
| 2 - 3 | 63 - 90 | 150 900 454 |
| 4 - 5 | 110 - 140 | 150 900 456 |
| 6 - 8 | 160 - 225 | 150 900 457 |
| 10 - 12 | 280 - 315 | 150 900 459 |
| 14 | 355 | 150 901 460 |
| 16 - 18 | 400 - 450 | 150 901 461 |
| 20 - 24 | 500 - 630 | 150 901 462 |

Butterfly Valve Gear Op. Mount



Square Nut Part Numbers

| Size (Inch) | d (mm) | Gear Op Mount |
|-------------|-----------|---------------|
| 2 - 8 | 63 - 225 | 150 901 454 |
| 10 - 12 | 280 - 315 | 150 901 455 |
| 14 - 16 | 355 - 400 | 150 901 456 |
| 18 | 450 | 150 901 457 |
| 20-24 | 500 - 630 | 150 901 458 |

Ball Valve Mount



Square Nut Part Numbers

| Size (Inch) | d (mm) | Direct Mount |
|-------------|---------|--------------|
| 2½ - 3 | 75 - 90 | 150 900 454 |
| 4 | 110 | 150 900 456 |

MFM Part Numbers

| Size (Inch) | d (mm) | MFM |
|-------------|---------|-------------|
| 2½ - 3 | 63 - 90 | 167 482 684 |
| 4 | 110 | 167 482 685 |