

## Quick-Coupling Valves

Convenient water access in potable and non-potable systems

### Features

- Industrial-strength brass quick-coupling valves for convenient water access in potable and non-potable systems.
- Rugged, red brass construction for long life and reliable performance.
- Reliable leak proof operation with strong corrosion-resistant stainless steel spring.
- Optional locking cover on models 33-DLRC, 44-LRC, 5-LRC, 33-DNP, 44-NP, and 5-NP (use \* 2049 key to unlock). Metal cover on model 7 only
- One-piece body design (models 3-RC, 5-RC and 7)
- Two-piece body design for easy servicing (models 33-DLRC, 33-DRC, 44-LRC, 44-RC, 33-DNP, 44-NP, and 44-NP ACME)
- Thermoplastic rubber cover for durability
- 33-DNP, 44-NP, 44-NP ACME, and 5-NP covers marked with "Do Not Drink!" warnings in English and Spanish
- Three-year trade warranty



Quick Coupling Valves



Quick-Coupling Valve Cutaway



33-DNP, 44-NP,  
44-NP ACME



7



3-RC, 5-RC,  
5-LRC



33-DRC, 33-DLRC,  
44-RC, 44-LRC

### Specifications

- Pressure: 5 to 125 psi (0.35 to 8.63 bar)
- Flow: 10 to 125 gpm (2.27 to 28.38 m<sup>3</sup>/h; 37.8 to 473 l/m)
- 33-DNP, 44-NP and 5-NP flow: 10 to 70 gpm (2.27 to 15.89 m<sup>3</sup>/h; 37.8 to 265 l/m)

### Models

- 3-RC: 3/4" (20/27) Rubber Cover, 1-Piece Body
- 33-DRC: 3/4" (20/ 27) Double Track Key Lug, Rubber Cover, 2-Piece Body
- 33-DLRC: 3/4" (20/27) Double Track Key Lug, Locking Rubber Cover, 2-Piece Body
- 44-RC: 1" (26/34) Rubber Cover, 2-Piece Body
- 44-LRC: 1" (26/34) Locking Rubber Cover, 2-Piece Body
- 5-RC: 1" (26/34) Rubber Cover, 1-Piece Body
- 5-LRC: 1" (26/34) Locking Rubber Cover, 1-Piece Body
- 7: 1 1/2" (40/49) Metal Cover, 1-Piece Body
- 5-RC-BSP: 1" (26/34) Rubber Cover, 1-Piece Body, BSP threaded

- 5-LRC-BSP: 1" (26/34) Locking Rubber Cover, 1-Piece Body, BSP threaded
- 33-DNP: 3/4" (20/27) Non-potable, Purple Locking Rubber Cover, 2-Piece Body
- 44-NP: 1" (26/34) Non-potable, Purple Locking Rubber Cover, 2-Piece Body
- 44-NP ACME: 1" (26/34) Non-potable, Purple Locking Rubber Cover, 2-Piece Body, ACME thread
- 5-NP: 1" (26/34) Non-potable, Purple Locking Rubber Cover, 1-Piece Body

**Note:** For non-US applications, it is necessary to specify NPT or BSP thread type

### Dimensions (height)

- 3-RC: 4 1/4" (10.8 cm)
- 33-DRC: 4 3/8" (11.1 cm)
- 33-DLRC: 4 5/8" (11.7 cm)
- 44-RC: 6" (15.2 cm)
- 44-LRC: 6" (15.2 cm)
- 5-RC: 5 1/2" (14.0 cm)

- 5-LRC: 5 1/2" (14.0 cm)
- 7: 5 3/4" (14.6 cm)
- 33-DNP: 4 3/8" (11.1 cm)
- 44-NP: 6" (15.2 cm)
- 44-NP ACME: 6" (15.2 cm)
- 5-NP: 5 1/2" (14.0 cm)

### How To Specify

#### 33 - DLRC

| Model | Cover | Thread                |
|-------|-------|-----------------------|
| 33    | RC    | Blank: NPT            |
| 44    | DRC   | BSP: 5-RC, 5-LRC only |
| 5     | DLRC  | ACME: 44-NP only      |
| 7     | LRC   |                       |
|       | DNP   |                       |
|       | NP    |                       |

**Note:** This specifies a 33-DLRC valve: 3/4" (20/27) quick coupling type; optional locking cover.

## Specifications

### 33-DNP, 44-NP, 44-NP ACME - Two Piece Quick Coupling Valve (Non-Potable)

The quick coupling valve shall be a two piece type capable of having a discharge rate of \_\_\_ units with a pressure loss not to exceed \_\_\_ units.

The valve shall be constructed of red brass and shall have a purple, thermoplastic, locking rubber cover with molded-in warnings of "DO NOT DRINK" in English and Spanish, for use on systems using non-potable water.

The valve shall be opened and closed by a brass key of the same manufacturer having a \_\_\_" (MNPT) and \_\_\_" (FNPT) outlet. The valve throat shall have a key-way with detent positions for regulating water flow.

### QUICK COUPLING VALVES - 3-RC, 5-RC, 5-LRC, 7 - One Piece Quick Coupling Valve

The quick coupling valve shall be a one-piece type capable of having a discharge rate of \_\_\_ units with a pressure loss not to exceed \_\_\_ units.

The valve body shall be constructed of red brass. The cover shall be a durable, protective self-closing rubber cover. When so specified, the cover shall be a locking rubber cover (LRC).

The valve shall be opened and closed by a brass key of the same manufacturer having a \_\_\_" (MNPT) and \_\_\_" (FNPT) outlet. The valve throat shall have a key-way with detent positions for regulating water flow.

#### \* Cover Key - Model 2049

- Locks and unlocks the optional locking cover (LRC) on quick coupling valves.
- Operates the valve marker compression lock.

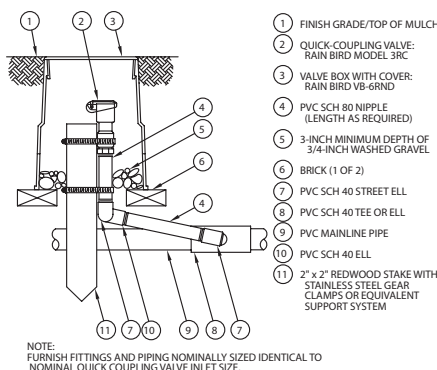
### 33-DRC, 33-DLRC, 44-RC, 44-LRC- Two Piece Quick Coupling Valve

The quick coupling valve shall be a two piece type capable of having a discharge rate of \_\_\_ units with a pressure loss not to exceed \_\_\_ units.

The valve body shall be constructed of red brass. The cover shall be a durable, protective self-closing rubber cover. When so specified, the cover shall be a locking rubber cover (LRC).

The valve shall be opened and closed by a brass key of the same manufacturer having a \_\_\_" (MNPT) and \_\_\_" (FNPT) outlet. The valve throat shall have a key-way with detent positions for regulating water flow.

| Quick Coupling Valve Keys |      |      |        |    |       |
|---------------------------|------|------|--------|----|-------|
| TOP PIPE THREADS          |      |      |        |    |       |
| VALVE                     | KEY  | MALE | FEMALE |    |       |
| 3-RC                      | 33DK | ¾"   | 19 mm  | ½" | 13 mm |
| 33-DRC                    | 33DK | ¾"   | 19 mm  | ½" | 13 mm |
| 33-NP                     | 33DK | ¾"   | 19 mm  | ½" | 13 mm |
| 44-NP                     | 44K  | 1"   | 25 mm  | ¾" | 19 mm |
| 44-NP ACME                | 44KA | 1"   | 25 mm  | ¾" | 19 mm |
| 44-RC                     | 44K  | 1"   | 25 mm  | ¾" | 19 mm |
| 5-RC                      | 55K1 | 1"   | 25 mm  | —  | —     |
| 5-NP                      | 55K1 | 1"   | 25 mm  | —  | —     |
| 7                         | 7K   | 1 ½" | 38 mm  | —  | —     |



| Quick-Coupling Valves Pressure Loss (psi) |      |                             |                                        |                       |      |
|-------------------------------------------|------|-----------------------------|----------------------------------------|-----------------------|------|
| Flow                                      | 3-RC | 33-DRC<br>33-DLRC<br>33-DNP | 44-RC<br>44-LRC<br>44-NP<br>44-NP ACME | 5-RC<br>5-LRC<br>5-NP | 7    |
| gpm                                       | ¾"   | ¾"                          | 1"                                     | 1"                    | 1 ½" |
| 10                                        | 1.8  | 2                           | -                                      | -                     | -    |
| 15                                        | 4.7  | 4.3                         | 2.2                                    | -                     | -    |
| 20                                        | 7.2  | 7.6                         | 4.4                                    | -                     | -    |
| 30                                        | -    | -                           | 11.5                                   | 4.1                   | -    |
| 40                                        | -    | -                           | -                                      | 7.3                   | -    |
| 50                                        | -    | -                           | -                                      | 11                    | 1.7  |
| 60                                        | -    | -                           | -                                      | 15.7                  | 2.5  |
| 70                                        | -    | -                           | -                                      | 21.5                  | 3.6  |
| 80                                        | -    | -                           | -                                      | -                     | 4.9  |
| 100                                       | -    | -                           | -                                      | -                     | 8.4  |
| 125                                       | -    | -                           | -                                      | -                     | 14   |

| Quick-Coupling Valves Pressure Loss (bar) METRIC |      |                             |                                        |                       |               |
|--------------------------------------------------|------|-----------------------------|----------------------------------------|-----------------------|---------------|
| Flow                                             | 3-RC | 33-DRC<br>33-DLRC<br>33-DNP | 44-RC<br>44-LRC<br>44-NP<br>44-NP ACME | 5-RC<br>5-LRC<br>5-NP | 7             |
| m³/h                                             | l/m  | 1.9 cm                      | 1.9 cm                                 | 2.5 cm                | 2.5 cm 3.8 cm |
| 2.3                                              | 38   | 0.12                        | 0.12                                   | -                     | -             |
| 4                                                | 67   | 0.41                        | 0.42                                   | 0.23                  | -             |
| 5                                                | 83   | 0.57                        | 0.62                                   | 0.40                  | -             |
| 6                                                | 100  | -                           | -                                      | 0.62                  | -             |
| 7                                                | 117  | -                           | -                                      | 0.83                  | 0.30          |
| 8                                                | 133  | -                           | -                                      | -                     | 0.40          |
| 9                                                | 150  | -                           | -                                      | -                     | 0.50          |
| 10                                               | 167  | -                           | -                                      | -                     | 0.61          |
| 12                                               | 200  | -                           | -                                      | -                     | 0.85          |
| 14                                               | 233  | -                           | -                                      | -                     | 1.15          |
| 16                                               | 267  | -                           | -                                      | -                     | 1.50          |
| 22                                               | 367  | -                           | -                                      | -                     | 0.54          |
| 28                                               | 473  | -                           | -                                      | -                     | 0.97          |

\*Loss values are with flow control fully open.

1) Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft/sec (2.3 m/s) in order to reduce the effects of water hammer.

2) For flows below 5 gpm (1 m³/h; 32 l/s) Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.

3) For flows below 10 gpm (2 m³/h; 63 l/s) Rain Bird recommends that the flow control stem be turned down two full turns from the fully open position. PRS-B module is recommended for use only at flow rates in areas below solid line.

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