

## 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, and 44-NP)
- Thermoplastic rubber cover for durability
- 33-DNP, 44-NP, and 5-NP covers marked with "Do Not Drink!" warnings in English and Spanish
- Three-year trade warranty

### 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



Quick Coupling Valves



Quick-Coupling Valve Cutaway



33-DNP, 44-NP



7



3-RC, 5-RC,  
5-LRC



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

- 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
- 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)
- 5-NP: 5 1/2" (14.0 cm)

### How To Specify

#### 33 - DLRC

Model	Cover
33	RC
44	DRC
5	DLRC
7	LRC
	DNP
	NP

**Note:** This specifies a 33-DLRC valve: 3/4" (20/27) quick coupling type; optional locking cover. For non-U.S. applications it is necessary to specify NPT or BSP thread type. (5-RC, 5-LRC only)

## Specifications

### 33-DNP, 44-NP - 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

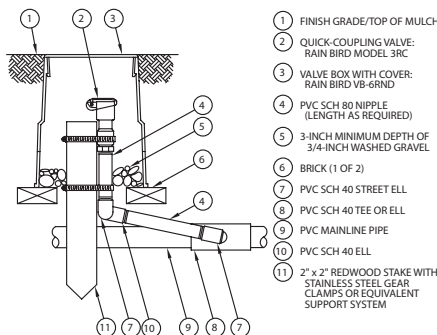
The quick coupling valve shall be a two piece type capable of having a discharge rate of \_\_\_ units with a pressure loss not to exceed \_\_\_ units.

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	
3RC	33DK	¾"	19 mm	½"	13 mm
33DRC	33DK	¾"	19 mm	½"	13 mm
33NP	33DK	¾"	19 mm	½"	13 mm
44NP	44K	1"	25 mm	¾"	19 mm
44RC	44K	1"	25 mm	¾"	19 mm
5RC	55K-1	1"	25 mm	—	—
5NP	55K-1	1"	25 mm	—	—
7	7K	1½"	38 mm	—	—



NOTE: FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

Quick-Coupling Valves Pressure Loss (psi)						
Flow	3-RC	33-DRC 33-DLRC 33-DNP	44-RC 44-LRC 44-NP	5-RC 5-LRC 5-NP	7	
gpm	¾"	¾"	1"	1"	1"	1½"
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 33-DLRC 33-DNP	44-RC 44-LRC 44-NP	5-RC 5-LRC 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	0.13	-
14	233	-	-	1.15	0.18	-
16	267	-	-	1.50	0.25	-
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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