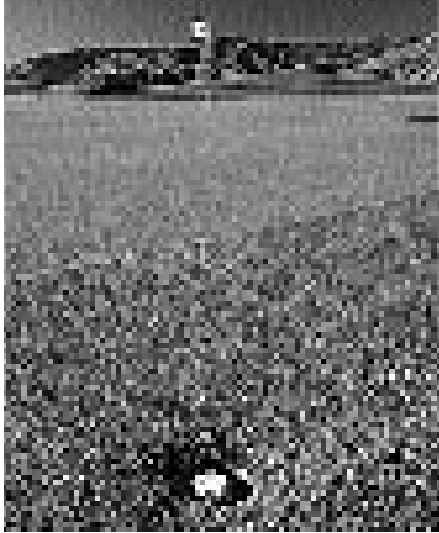


RAIN BIRD®

Valves



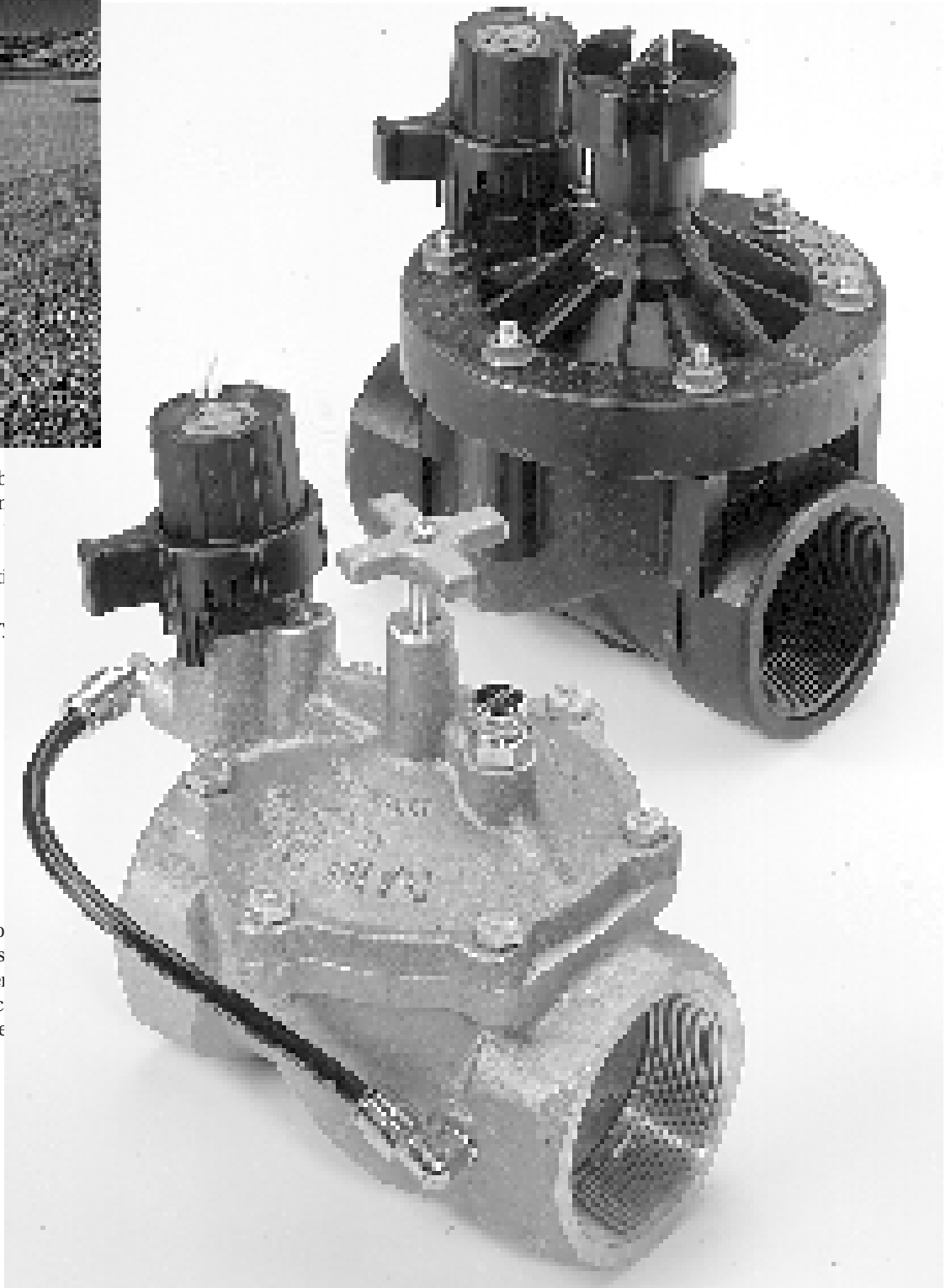
Valves Built To Take The Pressure

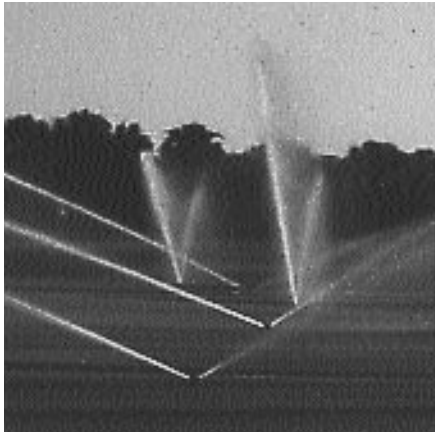


Rain Bird® valves are robust, reliable and durable. They are built to withstand the harsh environments in which the system operates. State-of-the-art design and over 60 years of irrigation experience have made Rain Bird valves the very best in the industry.

No other part of the system has to deal with a combination of pressure surges, clogging debris, effluent water and operating pressures reaching 200 psi (13,8 bars). Add blistering heat, numbing cold, blows from heavy equipment and you've pretty much summed up the life of a typical irrigation valve.

Rain Bird valves are engineered to stand up to the harshest elements with a track record of reliable operation. They have proven through the decades to be the most dependable valves in the





Debris-Tolerant Features Ensure Reliable Performance

Rain Bird® valves have unique features which ensure operation under the harshest water conditions. The EFB-CP brass valve has a contamination-proof, self-flushing nylon screen to keep ports free of debris and provide free operation in extremely dirty water—especially under sand, grit and silt conditions. The PES-B plastic valve is designed exclusively for dirty water and where algae is a problem. The patented, self-cleaning, inlet “screen scrubber” eliminates the possibility of clogging internal water ports with algae, microorganisms and silt.

Provides Uniform Application of Water

An optional PRS-B pressure regulator maintains constant outlet pressure despite fluctuations in main line pressure. At working pressures of 200 psi (13,8 bars), Rain Bird brass and plastic valves are able to manage a wide variety of pressures while still providing uniform application of water over the entire golf course. The PRS-B pressure regulator module fits both the EFB-CP and PES-B valves. Additionally, Rain Bird valves are equipped with a manual flow control operation. This means that the operator has the ability to adjust water volume delivered to the sprinklers right at the valve.

Automatic or Manual Operation

Rain Bird valves are designed to work through electrical activation or by manual operation. To manually open the valve, turn the solenoid for internal bleed, or open the bleed screw for external bleed. The uniquely designed, low-powered solenoid incorporates a captured solenoid plunger to prevent the loss of small parts during field servicing.

Designed for Ease of Maintenance

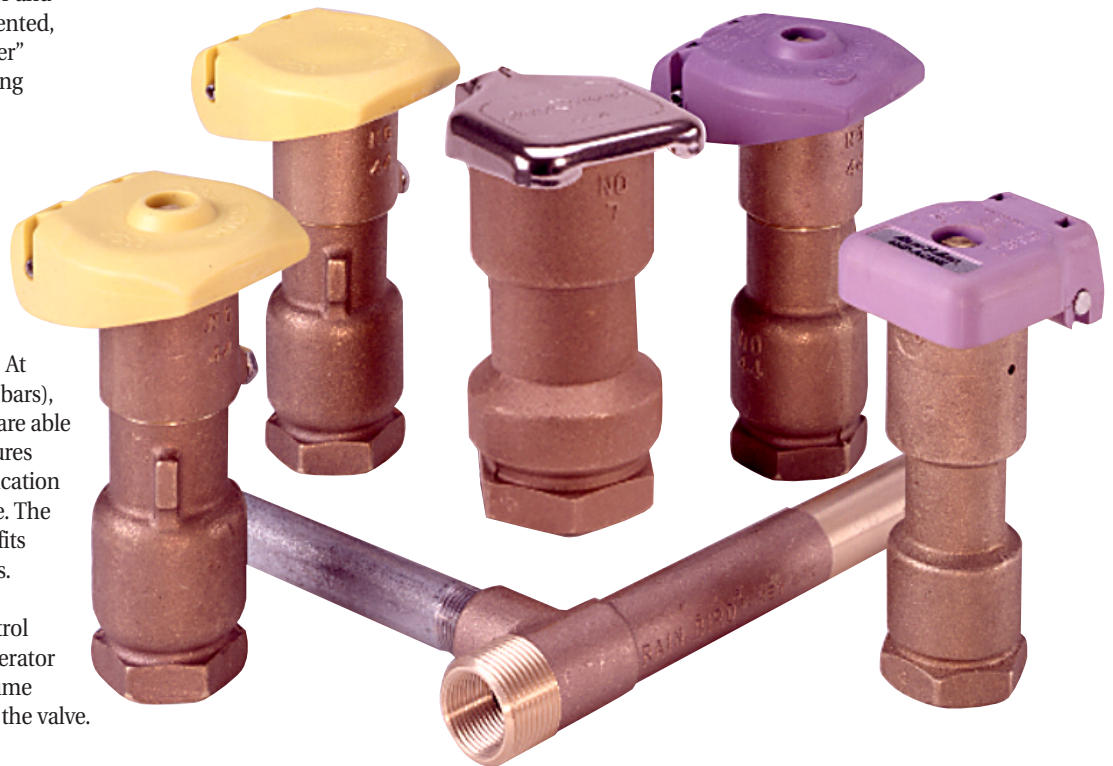
All Rain Bird valves are top serviceable. This facilitates quicker field repairs and allows valve repair without cutting into irrigation lines. Interchangeable solenoids and PRS-B modules mean reduced parts inventory and training for your field staff. With few moving parts, Rain Bird valves perform reliably for many years and have become the industry standard for excellence.

Broad Product Offering to Meet Site Conditions and Applications

Rain Bird valves are offered in plastic or brass, an excellent selection of sizes and NPT or BSP thread configurations. The EFB-CP is available in 1", 1.25", 1.5" and 2" (2,5;-; 3,2;-; 3,8- and 5,1-cm) sizes. The PES-B is available in 1", 1.5" and 2" (2,5;-; 3,8- and 5,1-cm) sizes.

Dependability is Built into Both Remote Control and Quick Coupling Valves

Proven valve designs, highest quality materials, state-of-the-art manufacturing, quality control and product testing ensure dependable performance of the entire line of Rain Bird valves. Rain Bird valves save you money with consistent, reliable and low maintenance operation and are recognized as the best option available for golf irrigation.

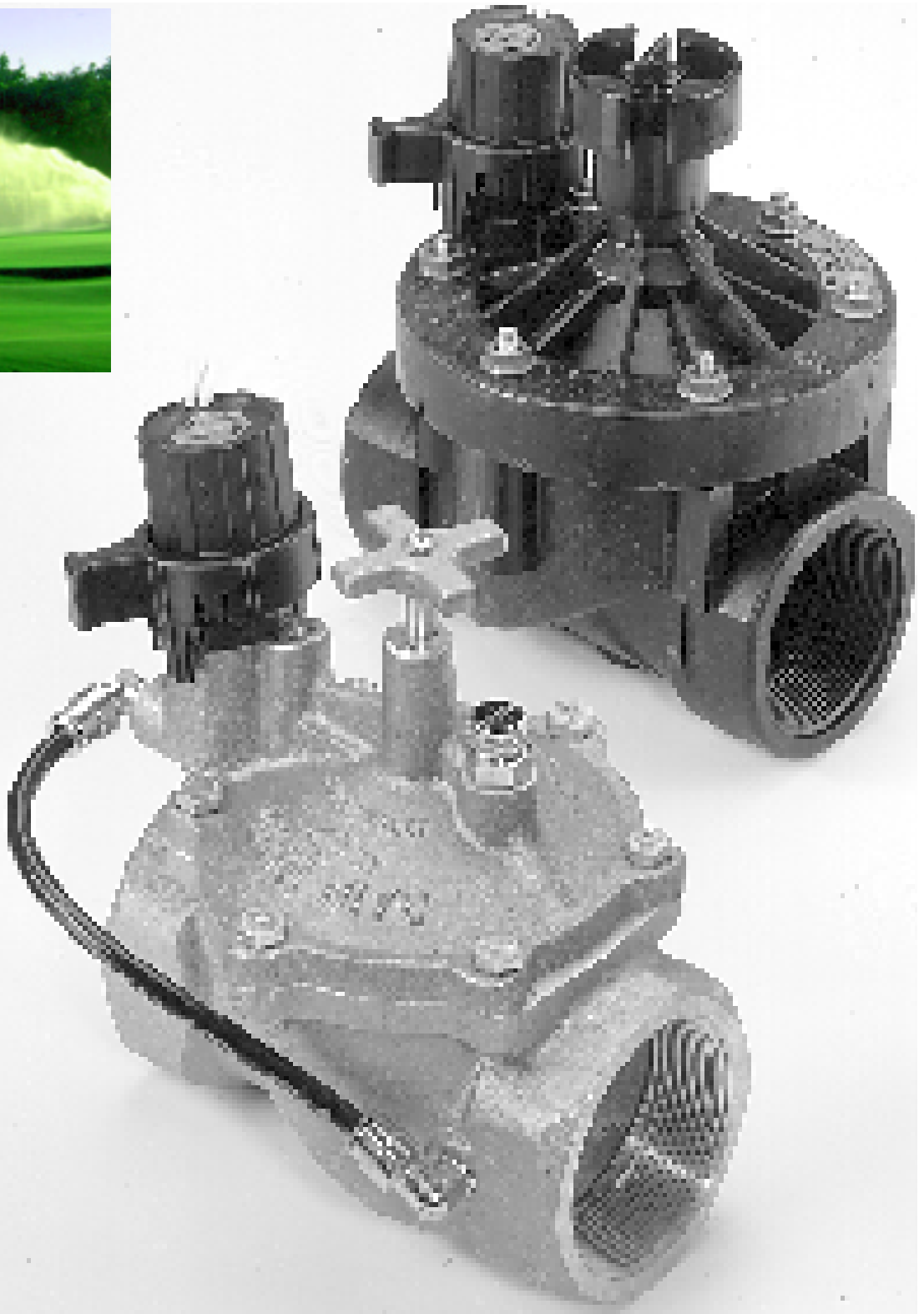


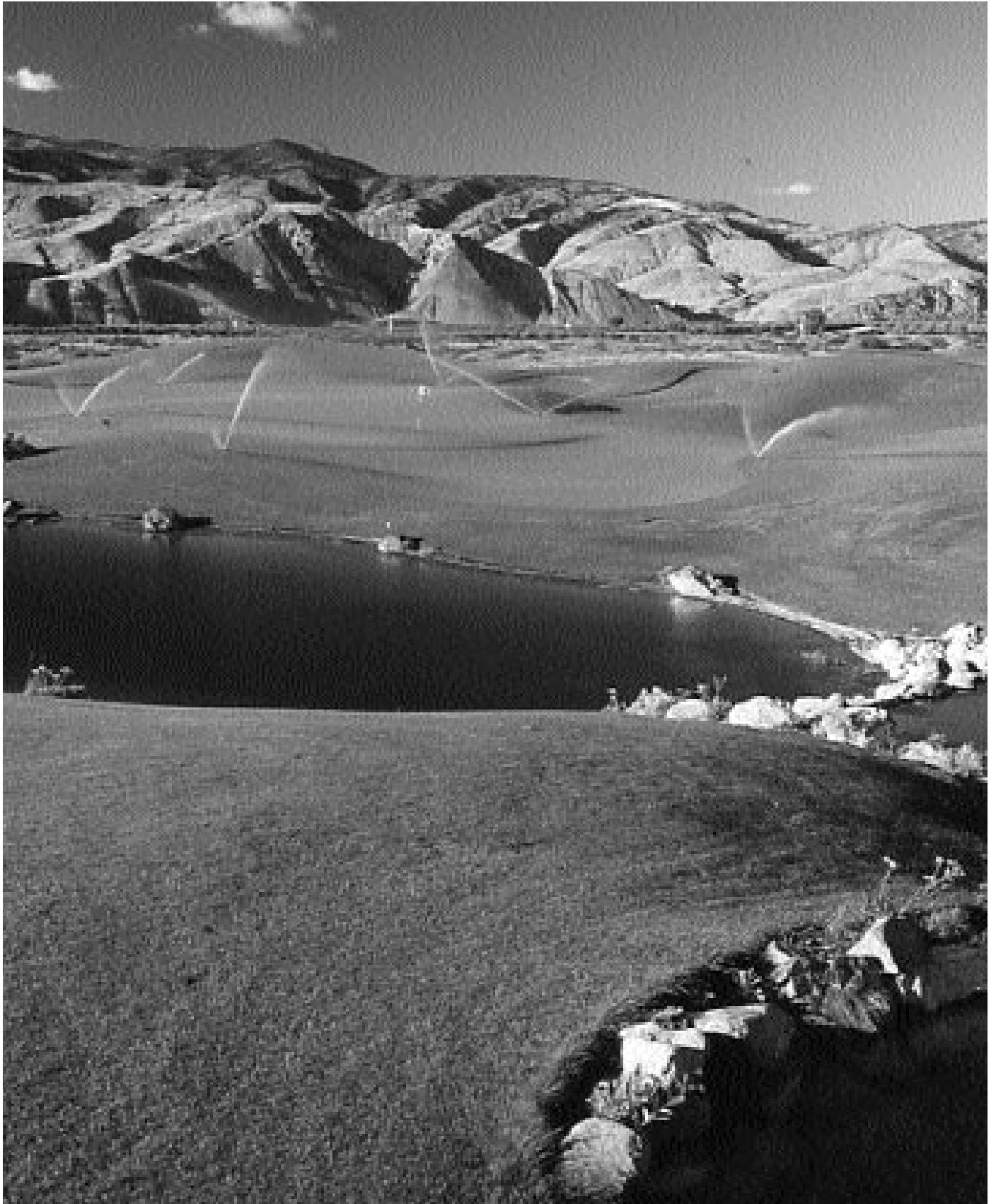
EFB-CP and PES-B Valves



Use EFB-CP and PES-B valve performance in potable and

- An easy turn of either the bleed screw activates desired pressure for manual activation.
- Unique captured solenoid design prevents loss of solenoid during field service.
- Optional PRS-B unit maintains constant outlet pressure despite fluctuations in main line pressure. (Same module fits both EFB-CP and PES-B valves.) The unit provides uniform application of water over the entire golf course.
- Valves operate to specs with flow rates as low as 5.0 gpm (0,3 l/s) on the EFB-CP model and .25 gpm (0,02 l/s) on the PES-B model. This is ideal for the control of drip irrigation circuits for trees, shrubs and other plant life.
- The EFB-CP model features a contamination-proof, self-cleaning nylon screen to keep ports free of debris. This model provides free operation in extreme water conditions.
- Designed exclusively for drip operation, the patented, self-cleaning inlet screen on the PES-B model is considered the very best in the industry. The screen keeps algae, mud and silt from clogging water







100EFB-CP, 125EFB-CP, 150EFB-CP and 200EFB-CP

Electric Remote Control Brass Valve With Optional PRS-B Pressure Regulating Feature

Model Specifications

The remote control valve shall be a normally closed 24 VAC 50/60 cycle solenoid actuated globe pattern design capable of having a flow rate of ___ gallons per minute (gpm) with a pressure loss not to exceed ___ pounds per square inch (psi). The valve pressure rating shall not be less than 200 psi.

The valve body and bonnet shall be constructed of machined cast brass and shall have stainless steel bonnet bolts. The diaphragm shall be of nylon-reinforced nitrile rubber.

The valve shall have both internal and external manual open/close control (internal and external bleed) for manually opening and closing the valve without electrically energizing the solenoid. The valve's internal bleed shall prevent flooding of the valve box.

The valve shall house a fully encapsulated, one-piece solenoid. The solenoid shall have a captured plunger with a removable retainer for easy servicing and a leverage handle for easy turning. This 24 VAC 50/60 Hz solenoid shall open with 19.6 VAC minimum at 200 psi. At 24 VAC, average inrush current shall not exceed .41 amps.

The valve shall have a stainless steel flow control stem and cross handle for accurate manual regulation and/or shut off of outlet flow. The valve must open or close in less than one minute at 200 psi and less than 30 seconds at 20 psi.

The valve shall have a contamination-proof (CP) self-flushing nylon filter screen located at the valve inlet to filter grit, prevent clogging of hydraulic control ports and assure reliable operation.

The valve construction shall allow all internal parts to be removed from the top of the valve without disturbing the valve body installation in the piping system.

Optional/Feature Specification

When so indicated on the design, the 1", 1.25", 1.5" and 2" (2,5-; 3,2-; 3,8- and 5,1-cm) electric remote control valves shall have a pressure regulating module (PRS-B) capable of regulating outlet pressure between 15 and 100 psi (±5 psi).

The PRS-B module shall have an adjusting screw for setting pressure and Schrader valve connection for monitoring pressure. Pressure shall be adjustable from the PRS-B when the valve is manually bled internally or electrically activated.

The valve shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

Specifications

Model:

EFB-CP (Brass)

Flow:

5-200 gpm (0,3-12,6 l/s)

Pressure:

15-200 psi (1,0-13,8 bars)

Pressure with PRS-B:

15-100 psi (1,0-7,0 bars)

Pressure Requirements using PRS-B:

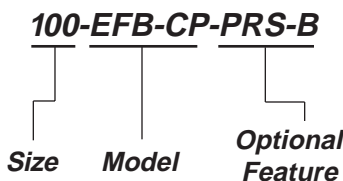
15 psi (1,0 bar) inlet pressure above desired outlet pressure

Temperature:

150° F (66° C) maximum

Solenoid: 24 VAC 50/60 cycle solenoid power requirement—.41 amp (9.9 VA) inrush current, .23 amp (5.5 VA) holding current

How To Specify



This specifies a 100 EFB-CP valve with optional pressure regulating module; 1" (26/34) female threads with flow control, brass body; contamination resistant feature to protect solenoid inlet water supply. Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type.

EFB-CP Series Valves

Flow (gpm)	Pressure Loss *(psi)			
	100 EFB-CP 1"	125 EFB-CP 1.25"	150 EFB-CP 1.5"	200 EFB-CP 2"
5	3.0	—	—	—
10	3.5	—	—	—
15	4.0	—	—	—
20	5.0	5.0	2.7	1.5
30	13.0	6.0	2.9	1.6
40	20.0	8.0	3.2	1.8
50	—	10.0	3.7	2.0
60	—	13.0	4.5	2.3
80	—	20.0	8.0	3.1
100	—	—	12.9	4.4
120	—	—	18.1	6.2
140	—	—	24.0	8.5
160	—	—	—	11.0
180	—	—	—	14.0
200	—	—	—	16.8

*Loss values are with flow control fully open and pressure regulating module not regulating.

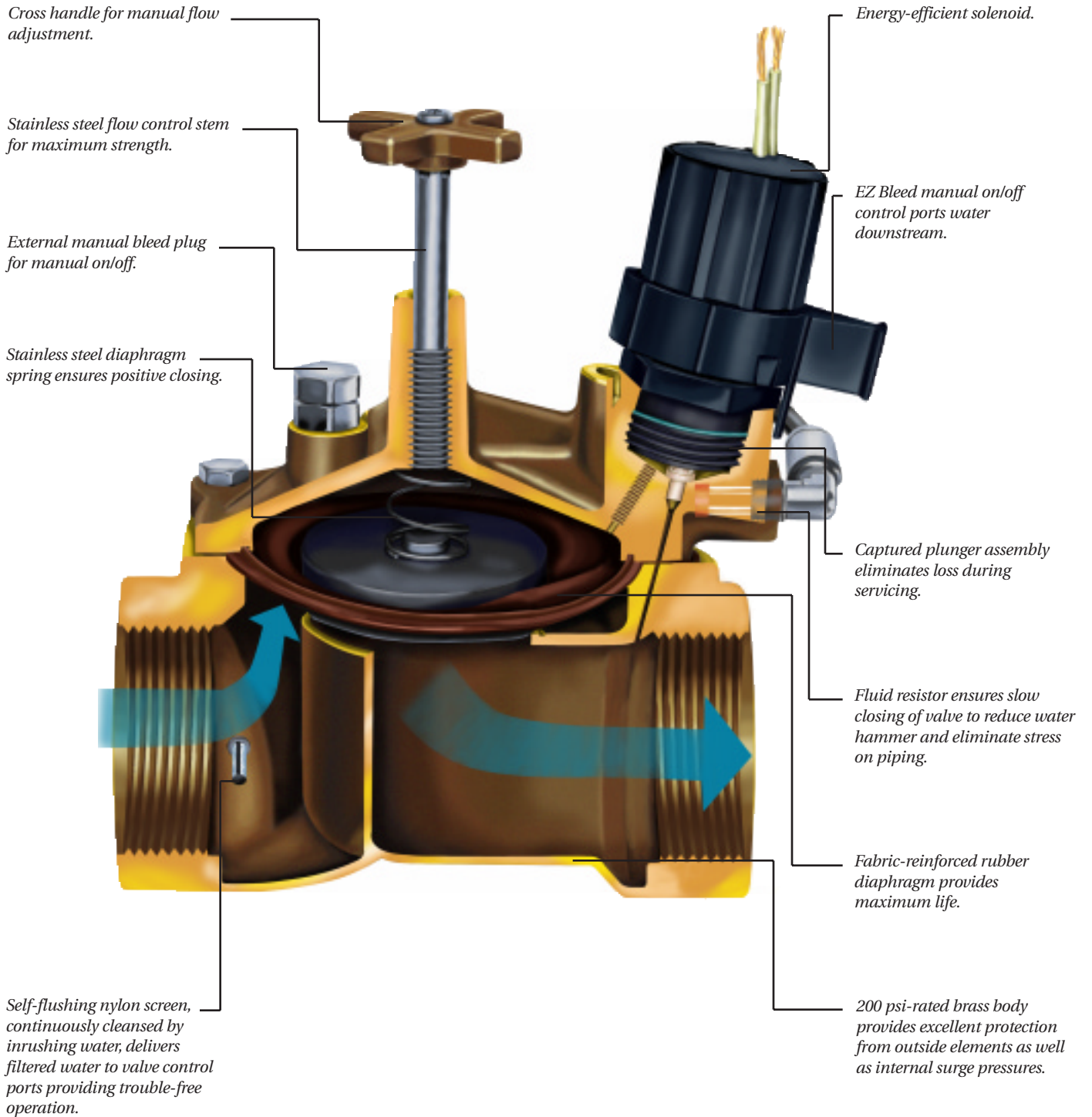
EFB-CP Series Valves

Flow m ³ /h	Flow l/s	Pressure Loss *(bars)			
		100 EFB-CP 2,5 cm	125 EFB-CP 3,1 cm	150 EFB-CP 3,8 cm	200 EFB-CP 5,1 cm
1	0,32	0,21	—	—	—
2	0,56	0,24	—	—	—
3	0,83	0,26	—	—	—
4	1,11	0,31	—	—	—
5	1,39	0,39	0,36	0,19	0,11
6	1,67	0,50	0,40	0,20	0,11
7	1,94	0,63	0,44	0,20	0,11
8	2,22	0,76	0,48	0,21	0,12
9	2,50	0,92	0,53	0,21	0,12
10	2,78	1,09	0,60	0,23	0,13
12	3,33	13,8	0,69	0,26	0,15
14	3,89	—	0,90	0,31	0,17
16	4,44	—	1,28	0,55	0,19
22	6,11	—	—	0,89	0,29
28	7,77	—	—	1,25	0,46
34	9,44	—	—	—	0,66
40	11,10	—	—	—	0,91
45	12,60	—	—	—	1,16

*Loss values are with flow control fully open and pressure regulating module not regulating.

- 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.

EFB-CP Valve





100PES-B, 150PES-B and 200PES-B

Electric Remote Control Plastic Scrubber Valve With Optional PRS-B Pressure Regulating Feature

Model Specifications

The remote control valve shall be a normally closed 24 VAC 50/60 cycle solenoid actuated globe pattern design capable of having a flow rate of ___ gallons per minute (gpm) with a pressure loss not to exceed ___ pounds per square inch (psi). The valve pressure rating shall not be less than 200 psi.

The valve body and bonnet shall be constructed of heavy glass-filled, UV-resistant nylon, the diaphragm shall be of nylon-reinforced nitrile rubber. The bonnet shall be secured to the body by stainless steel flanged nuts. All other internal parts shall be made of bronze, brass and stainless steel to ensure corrosion resistance.

The valve shall have both internal and external manual open/close control (internal and external bleed) for manually opening and closing the valve without electrically energizing the solenoid. The valve shall have internal manual bleed to prevent flooding of the valve box. The valve shall house a fully encapsulated, one-piece solenoid.

The solenoid shall have a captured plunger with a removable retainer for easy servicing and a leverage handle for easy turning. This 24 VAC 50/60 Hz solenoid shall open with 19.6 VAC minimum at 200 psi. At 24 VAC average inrush current, it shall not exceed .41 amps. Average holding current shall not exceed .23 amps.

The valve shall have a self-cleaning, scrubber type, stainless steel screen designed for use in dirty water applications and be particularly effective under algae conditions.

The valve shall have a brass flow control stem for regulating or shutting off the flow of water. The valve must open or close in less than one minute at 200 psi and less than 30 seconds at 20 psi.

The valve construction shall allow all internal parts to be removed from the top of the valve without disturbing the valve body installation in the piping system.

Optional Feature Specification

When so indicated on the design, the 1", 1.5" and 2" (2,5-; 3,8- and 5,1-cm) electric remote control valves shall have a pressure regulating module (PRS-B) capable of regulating outlet pressure between 15 and 100 psi (±5 psi). The PRS-B module shall have an adjusting screw for setting pressure and Schrader valve connection for monitoring pressure. Pressure shall be adjustable from the PRS-B when the valve is internally bled manually or electrically activated.

The valve shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

Specifications

Model:

PES-B (Plastic)

Flow:

.25-200 gpm (0,02-12,6 l/s)

Pressure:

20-200 psi (1,4-13,8 bars)

Pressure with PRS-B:

15-100 psi (1,0-7,0 bars)

Pressure Requirements using PRS-B:

15 psi (1,0 bar) inlet pressure above desired outlet pressure

Temperature:

150° F (66° C) maximum

Solenoid:

24 VAC 50/60 cycle solenoid power requirement— .41 amp (9.9 VA) inrush current, .23 amp (5.5 VA) holding current.

PES-B Series Valves

Flow (gpm)	Pressure Loss *(psi)		
	100 PES-B 1"	150 PES-B 1.5"	200 PES-B 2"
0.25	3.0	—	—
0.05	3.0	—	—
1	3.0	—	—
5	2.0	—	—
10	1.5	—	—
20	2.5	1.5	—
30	5.0	1.5	—
40	9.3	1.8	—
50	15.5	2.2	1.2
75	—	3.9	2.4
100	—	7.0	4.2
125	—	11.3	6.8
150	—	16.2	9.8
175	—	—	13.3
200	—	—	17.7

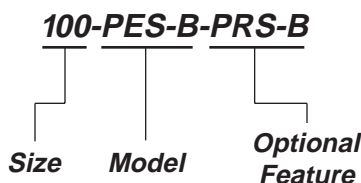
*Loss values are with flow control fully open and pressure regulating module not regulating.

PES-B Series Valves

METRIC				
Pressure Loss *(bars)				
Flow M ³ /H	Flow l/s	100 PES-B 2,5 cm	150 PES-B 3,8 cm	200 PES-B 5,1 cm
0,06	0,02	0,21	—	—
1	0,28	0,15	—	—
2	0,56	0,10	—	—
3	0,83	0,12	—	—
4	1,11	0,16	—	—
5	1,39	0,21	0,10	—
6	1,67	0,27	0,12	—
7	1,94	0,35	0,14	—
8	2,22	0,45	0,15	—
9	2,50	0,59	0,16	—
10	2,78	0,77	0,17	—
12	3,33	—	0,18	0,09
14	3,89	—	0,19	0,12
16	4,44	—	0,23	0,15
22	6,11	—	0,46	0,26
28	7,77	—	0,75	0,44
34	9,44	—	1,12	0,66
40	11,10	—	—	0,93
45	12,60	—	—	1,27

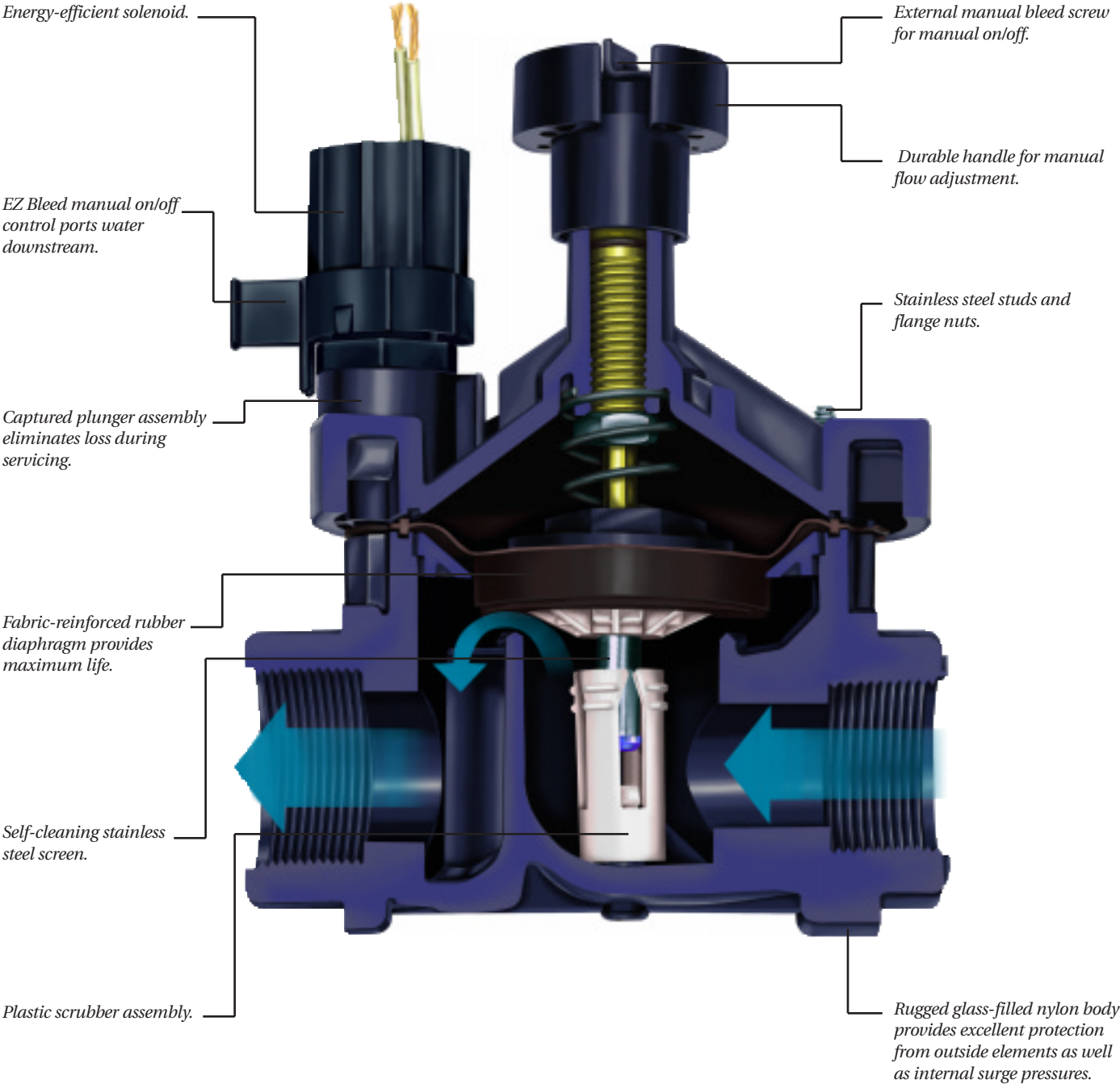
*Loss values are with flow control fully open and pressure regulating module not regulating.

How To Specify



This specifies a 100 PES-B valve with optional pressure regulating module; 1" (26/34) female threads; optional scrubber feature. Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type.

PES-B Valve



Quick Coupling Valves

Use heavy-duty, brass quick coupling valves for site-specific potable water access on greens, tee boxes and other areas of the course where the valve needs to be hidden.

- Heavy-duty, brass construction.
- Economical, one-piece body design (models 3RC, 5RC, 7).
- Easy to service, two-piece body design (models 33DRC, 33DLRC, 44RC).
- Stainless steel internal valve spring.
- Optional locking rubber cover that uses 2049 key (models 33DLRC, 44LRC, 5LRC).
- High-quality yellow thermoplastic rubber cover (except on model 7).
- BSP and NPT threads are available on 5RC, 5LRC and 7.



Model 7 Quick Coupling Valve



Model Specifications

3RC, 5RC, 5LRC and 7

One-Piece Quick Coupling Valve

The quick coupling valve shall be a one-piece type capable of having a discharge rate of ___ gallons per minute (gpm) with a pressure loss not to exceed ___ pounds per square inch (psi).

The valve body shall be constructed of heavy cast brass. The cover shall be made of durable, thermoplastic rubber and shall be self-closing. Model 7 shall have a metal cover. When so specified, the 5RC 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 keyway with detent positions for regulating water flow.

The quick coupling valve shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

33DRC, 33DLRC, 44RC and 44LRC

Two-Piece Quick Coupling Valve

The quick coupling valve shall be a two-piece type capable of having a discharge rate of ___ gallons per minute (gpm) with a pressure loss not to exceed ___ pounds per square inch (psi).

The valve body shall be constructed of heavy cast 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 keyway with detent positions for regulating water flow.

The quick coupling valve shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

Specifications

Models:

3RC:

.75" (20/27)
Rubber Cover, One-Piece Body

33DRC:

.75" (20/27)
Double Track Key Lug, Rubber Cover, One-Piece Body

33DLRC:

.75" (20/27)
Double Track Key Lug, Locking Rubber Cover, Two-Piece Body

44RC:

1" (26/34)
Rubber Cover, Two-Piece Body

44LRC:

1" (26/34)
Locking Rubber Cover, Two-Piece Body

5RC:

1" (26/34)*
Rubber Cover, One-Piece Body

5LRC:

1" (26/34)*
Locking Rubber Cover, One-Piece Body

7:

1.50" (40/49)*
Metal Cover
*Available in BSP model.

Flow:

10-125 gpm
(3-28 m³/h; 0,83-7,78 l/s)

Pressure:

5-125 psi (0,4-8,6 bars)

Height:

3RC: 4.25" (10,8 cm)
33DR: 4.375" (11,1 cm)
33DLRC: 4.625" (11,8 cm)
44RC: 6" (15,2 cm)
44LRC: 6" (15,2 cm)
5RC: 5.50" (14 cm)
5LRC: 5.50" (14 cm)
7: 5.75" (14,6 cm)

Valve Keys

Valve	Key	Top Pipe Threads			
		Male		Female	
3RC	33DK	.75"	20/27	.50"	15/21
33DRC	33DK	.75"	20/27	.50"	15/21
44RC	44K	1"	26/34	.75"	20/27
5RC	55K-1*	1"	26/34	—	—
7	7K*	1.50"	40/49	—	—

* Available in BSP models.

Cover Key—Model 2049

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

Quick Coupling Valves

Flow (gpm)	Valve Pressure Loss *(psi)				
	3RC	33DRC	44RC	5RC	7
10	1.8	2.0	—	—	—
15	4.7	4.3	2.2	—	—
20	7.2	7.6	4.4	—	—
30	—	—	11.5	1.9	—
40	—	—	—	3.8	—
50	—	—	—	6.4	1.7
60	—	—	—	9.6	2.5
70	—	—	—	14.0	3.6
80	—	—	—	—	4.9
90	—	—	—	—	8.4
100	—	—	—	—	14.0

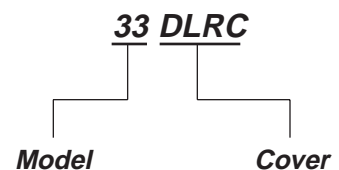
Quick Coupling Valves

METRIC						
Flow (m ³ /h)	Flow (l/s)	Valve Pressure Loss *(bars)				
		3RC	33DRC	44RC	5RC	7
3	0,83	0,25	0,23	—	—	—
4	1,11	0,42	0,41	0,22	—	—
5	1,39	—	—	0,37	—	—
6	1,67	—	—	0,57	—	—
7	1,94	—	—	0,84	0,14	—
8	2,22	—	—	—	0,19	—
9	2,50	—	—	—	0,25	—
10	2,78	—	—	—	0,33	—
12	3,33	—	—	—	0,50	0,13
14	3,89	—	—	—	0,72	0,18
16	4,44	—	—	—	0,97	0,25
22	6,11	—	—	—	—	0,72
28	7,78	—	—	—	—	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.

How To Specify



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

Non-Potable Quick Coupling Valves



Exceptional-quality, brass quick coupling valves are used for site specific non-potable and effluent water access, where the valve needs to be hidden from view and vandal-resistant.

- Solid brass construction.
- Stainless steel and brass internal components for longer wear life.
- Durable, high-quality, locking purple thermoplastic rubber cover.
- Valve marked with “Do Not Drink” in English, Spanish and the universal symbol for use on non-potable systems.



Model Specifications

33DNP, 44NP and 5NP
Two-Piece Quick Coupling Valve
(Non-Potable)

The quick coupling valve shall be a two-piece type capable of having a discharge rate of ___ gallons per minute (gpm) with a pressure loss not to exceed ___ pounds per square inch (psi) at that flow.

The valve shall be constructed of heavy cast 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 with 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 keyway with detent positions for regulating water flow.

The quick coupling valve shall be manufactured by Rain Bird Sprinkler Mfg Corp.,

Specifications

Models:

33DNP:
 .75" (20/27) Locking Rubber Cover,
 Two-Piece Body

44NP:
 1" (26/34) Locking Rubber Cover,
 Two-Piece Body

5NP:
 1" (26/34) Locking Rubber Cover,
 One-Piece Body

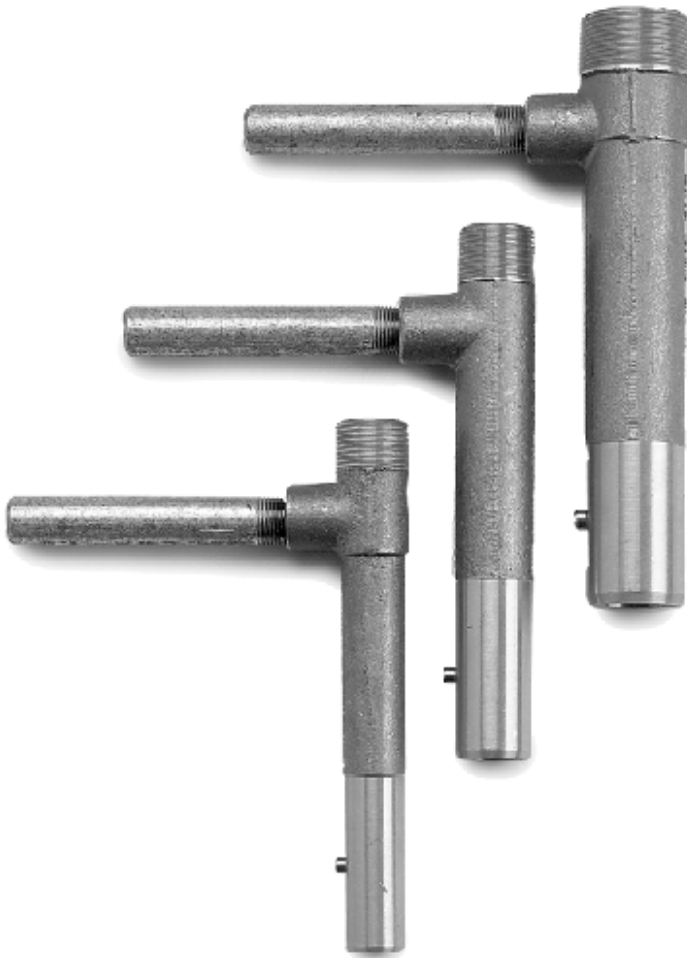
Flow:
 10-70 gpm
 (2,28-15,96 m³/h; 0,63-4,42 l/s)

Pressure:
 5-125 psi (0,3-8,5 bars)

Height:
 33DNP: 4.375" (11,1 cm)
 44NP: 6" (15,2 cm)
 5NP: 5.50" (14 cm)

Cover Key—Model 2049

- Locks and unlocks the locking cover on standard quick coupling valves.
- Operates the valve marker compression lock.



Standard Non-Potable

QUICK COUPLING VALVES

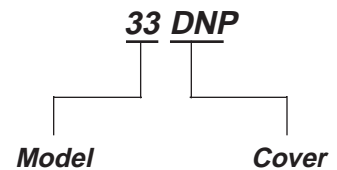
Flow (gpm)	Valve Pressure Loss *(psi)		
	33DNP .75"	44NP 1"	5NP 1"
10	2.0	—	—
15	4.3	2.2	—
20	7.6	4.4	—
30	—	11.5	1.9
40	—	—	3.8
50	—	—	6.4
60	—	—	9.6
70	—	—	14.0
80	—	—	—
90	—	—	—
100	—	—	—

Standard Non-Potable

QUICK COUPLING VALVES (METRIC)

Flow (m ³ /h)	Valve Pressure Loss *(bars)			
	Flow (l/s)	33DNP .75"	44NP 1"	5NP 1"
3	0,83	0,23	—	—
4	1,11	0,41	0,22	—
5	1,39	—	0,37	—
6	1,67	—	0,57	—
7	1,94	—	0,84	0,14
8	2,22	—	—	0,19
9	2,50	—	—	0,25
10	2,78	—	—	0,33
12	3,33	—	—	0,50
14	3,89	—	—	0,72
16	4,44	—	—	0,97
22	6,11	—	—	—
28	7,78	—	—	—

How To Specify

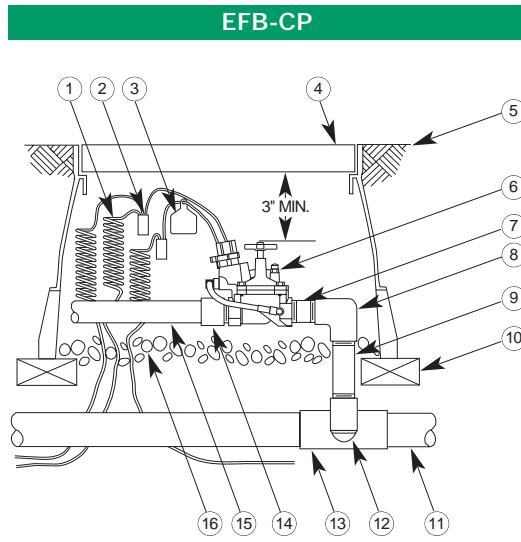


This specifies a 33DNP valve; 3/4" (20/27) quick coupling type; optional purple non-potable locking cover. Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type. (for 55K-1 only)

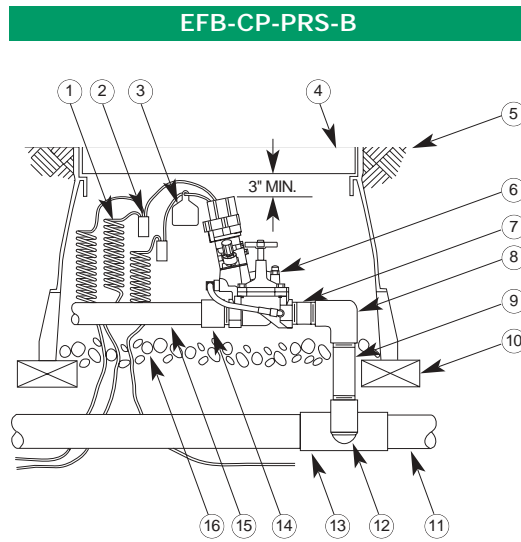
Standard Valve Keys

Valve	Key	Top Pipe Threads			
		Male	Female	Male	Female
33NP	33DK	.75"	20/27	.50"	15/21
44NP	44K	1"	26/34	.75"	20/27
5NP	55K-1*	1"	26/34	—	—

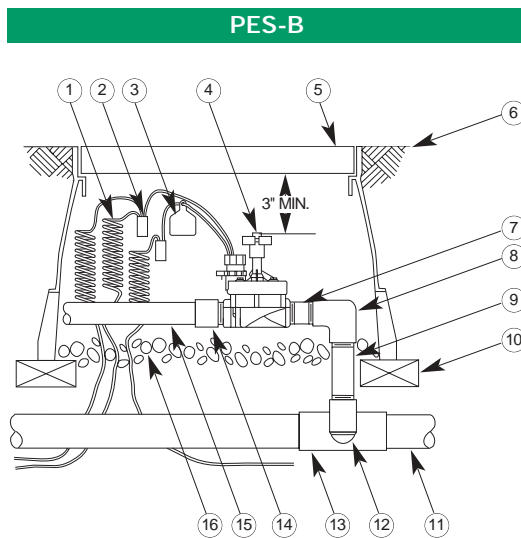
Rain Bird® Valves Construction Detail Drawing



- ① 30-INCH LINEAR LENGTH OF WIRE COILED
- ② WATER PROOF CONNECTION (1 OF 2)
- ③ ID TAG
- ④ VALVE BOX WITH COVER: 12-INCH SIZE
- ⑤ FINISH GRADE/TOP OF MULCH
- ⑥ REMOTE CONTROL VALVE: RAIN BIRD EFB-CP
- ⑦ PVC SCH 80 NIPPLE (CLOSE)
- ⑧ PVC SCH 40 ELL
- ⑨ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑩ BRICK (1 OF 4)
- ⑪ PVC MAINLINE PIPE
- ⑫ SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- ⑬ PVC SCH 40 TEE OR ELL
- ⑭ PVC SCH 40 MALE ADAPTER
- ⑮ PVC LATERAL PIPE
- ⑯ 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL



- ① 30-INCH LINEAR LENGTH OF WIRE COILED
- ② WATER PROOF CONNECTION (1 OF 2)
- ③ ID TAG
- ④ VALVE BOX WITH COVER: 12-INCH SIZE
- ⑤ FINISH GRADE/TOP OF MULCH
- ⑥ REMOTE CONTROL VALVE: RAIN BIRD EFB-CP-PRS-B
- ⑦ PVC SCH 80 NIPPLE (CLOSE)
- ⑧ PVC SCH 40 ELL
- ⑨ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑩ BRICK (1 OF 4)
- ⑪ PVC MAINLINE PIPE
- ⑫ SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- ⑬ PVC SCH 40 TEE OR ELL
- ⑭ PVC SCH 40 MALE ADAPTER
- ⑮ PVC LATERAL PIPE
- ⑯ 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

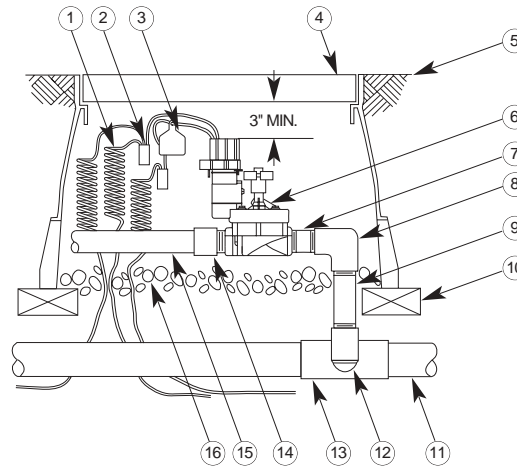


- ① 30-INCH LINEAR LENGTH OF WIRE COILED
- ② WATER PROOF CONNECTION (1 OF 2)
- ③ ID TAG
- ④ REMOTE CONTROL VALVE: RAIN BIRD PES-B
- ⑤ VALVE BOX WITH COVER: 12-INCH SIZE
- ⑥ FINISH GRADE/TOP OF MULCH
- ⑦ PVC SCH 80 NIPPLE (CLOSE)
- ⑧ PVC SCH 40 ELL
- ⑨ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑩ BRICK (1 OF 4)
- ⑪ PVC MAINLINE PIPE
- ⑫ SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- ⑬ PVC SCH 40 TEE OR ELL
- ⑭ PVC SCH 40 MALE ADAPTER
- ⑮ PVC LATERAL PIPE
- ⑯ 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

Rain Bird® Valves

Construction Detail Drawings

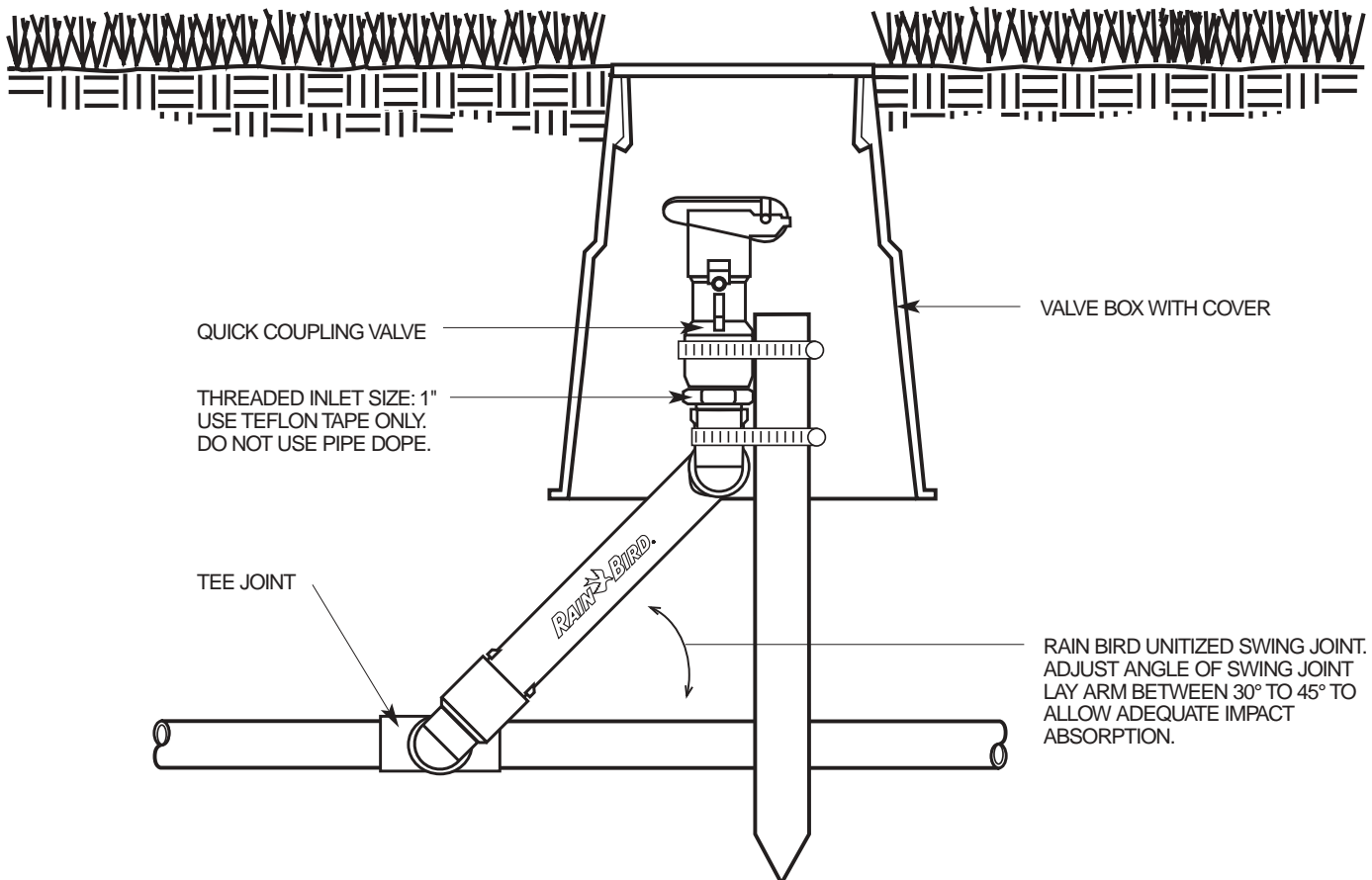
PES-B-PRS-B



- 1 30-INCH LINEAR LENGTH OF WIRE COILED
- 2 WATER PROOF CONNECTION (1 OF 2)
- 3 ID TAG
- 4 VALVE BOX WITH COVER: 12-INCH SIZE
- 5 FINISH GRADE/TOP OF MULCH
- 6 REMOTE CONTROL VALVE: RAIN BIRD PES-B-PRS-B
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

Rain Bird® Quick Coupling Valves

Construction Detail Drawings





Rain Bird Sales, Inc.
970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (626) 812-3600
Fax: (626) 812-3608

www.rainbird.com

Rain Bird International, Inc.
145 North Grand Avenue
Glendora, CA 91741
Phone: (626) 963-9311
Fax: (626) 963-4287

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