



Valve boxes are used for practical, aesthetic and security reasons wherever valves or off-fairway GDC modules need to be installed below grade but remain accessible for monitoring or service. Toro offers a full line of valve boxes that will fit valves up to 10,2cm (4") and 1-, 2- and 4- station GDC modules.

Features & Benefits

T-lip Lid Design

The T-lip lid design keeps dirt out to prevent jamming and provides improved grip for lid removal and easy access to the equipment inside. The secure snap fit and bolt retention ensure that only authorized personnel will have access.

Wide Range Of Sizes

Toro offers a wide range of round and rectangular boxes to meet every need. 15,2,17,8 and 25,4cm (6", 7" and 10") round; and 30,5 x 43,2cm and 38,1 x 53,3cm (12" x 17" and 15" x 21") rectangular in both 12" standard depth and 15,2cm (6") shallow depth. With the reverse stack capability and rectangular 15,2cm (6") extensions tackling deeper installations can be easily accomplished.

Reverse Stack
Allows for deeper installations in an initial 30,5cm (12") then 70cm (24") increments.



Variety of Colors

Toro valve boxes and covers come in a wide variety of colors to blend into the surrounding environment or to identify specific applications. Green for grass, tan for sand and purple for non-potable water applications. Black and brown to blend in with a variety of soils and mulches and gray for electrical applications.

Durable Construction

Valve boxes are constructed of H.D.P.E. (High-Density Polyethylene) with heavy-duty wall sections designed to provide a secure enclosure to protect your equipment investment.

Rectangular Extension Boxes
Rectangular extensions allow for deeper installation in 15,2cm (6") increments



Ordering Information—Round Valve Boxes

TVB-XXRND-XX		
Type	Size	Color Description
TVB	XXRND	XX
TVB—Toro Valve Box	6—15,2cm (6") Round 7—17,8cm (7") Round 10—25,4cm (10") Round	Blank— Green lid and black box G—Green lid and box GY—Gray lid and box (electrical) T—Tan lid and box E—Purple lid and box (effluent) BK—Black lid and box BR—Brown lid w/black box

Example - A Toro 17,8cm (7") round valve box for effluent water applications would be specified as: TVB-7RND-E

Description	A Length	B Width	C Height	Weight (lbs)
15,2cm(6")	16,0cm(6.3")	20,6cm(8.1")	22,9cm(9.0")	0,52 kg (1.15 lbs)
17,8cm(7")	17,3cm(6.8")	23,6cm(9.3")	22,9cm(9.0")	0,82 kg (1.80 lbs)
25,4cm(10")	25,1cm(9.9")	33,0cm(13.0")	26,2cm(10.3")	1,54 kg (3.39 lbs)



Ordering Information—Rectangular Valve Boxes

TVB-XXXX-XX-XX			
Type	Size	Height	Color Description
TVB	XXXX	XX	XX
TVB—Toro Valve Box	1217—30,5X43,2cm (12"x17") 1521—38,1X53,3cm (15"x21")	6—15,2cm(6") High 12—30,5cm(12") High	Blank— Green lid and black box G—Green lid and box GY—Gray lid and box (elect.) T—Tan lid and box E—Purple lid and box (effluent) BK—Black lid and box BR—Brown lid w/black box

Example - A Toro 30,5x43,2x15,2(12x17x6) rectangular valve box for effluent water applications would be specified as: TVB-1217-6-E

Description	A Length	B Width	C Height	Weight (lbs)
30,5x43,2x15,2 (12x17x6)	47,8cm (18.8")	35,0cm (13.8")	17,3cm (6.8")	2,98 kg (6.56 lbs)
30,5x43,2x30,5 (12x17x12)	53,3cm (21.0")	40,6cm (16.0")	31,2cm (12.3")	4,11 kg (9.05 lbs)
38,1x53,3x15,2 (15x21x6)	61,7cm (24.3")	47,8cm (18.8")	18,3cm (7.2")	3,97 kg (8.75 lbs)
38,1x53,3x30,5 (15x21x12)	65,3cm (25.7")	48,5cm (19.1")	31,2cm (12.3")	5,49 kg (12.11 lbs)

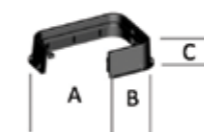


Ordering Information—Rectangular Extensions

TVB-XXXX-EXT6BOX-XX			
Type	Size	Height	Color Description
TVB	XXXX	EXT6BOX	XX
TVB—Toro Valve Box	1217—30,5X43,2cm (12"x17") 1521—38,1X53,3cm (15"x21")	EXT6BOX— 15,2cm(6") High	Blank— Black box G—Green box GY—Gray box (elect.) T—Tan box E—Purple box (effluent)

Example - A Toro 15,2cm (6") extension for a 30,5x43,2cm (12"x17") tan valve box would be specified as: TVB-1217-EXT6BOX-T

Description	A Length	B Width	C Height	Weight (lbs)
30,5x43,2x15,2 (12x17x6)	47,8cm (18.8")	35,0cm (13.8")	17,3cm (6.8")	3,04 kg (6.71 lbs)
38,1x53,3x15,2 (15x21x6)	61,7cm (24.3")	45,2cm (17.8")	17,5cm (6.9")	4,03 kg (8.89 lbs)

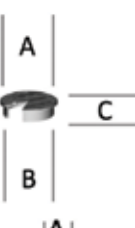


Ordering Information—Round Valve Box Separates

TVB-XXXXX-XX		
Type	Size Box or Lid	Color Description
TVB	XXXXX	XX
TVB—Toro Valve Box	6LID—15,2cm(6") Round lid 7LID—17,8cm(7") Round lid 10LID—25,4cm(10") Round lid BOX6—15,2cm(6") Box (black only) BOX7—17,8cm(7") Box (black only) BOX10—25,4cm(10") Box (black only)	G—Green lid GY—Gray lid (electrical) T—Tan lid E—Purple lid (effluent) BK—Black lid BR—Brown lid

Example - A Toro 17,8cm(7") round valve box lid for effluent water applications would be specified as: TVB-7LID-E

Description	A Length	B Width	C Height	Weight (lbs)
15,2cm (6") lid	16,0cm (6.3")	20,6cm (8.1")	3,0cm (1.2")	0,14 kg (.31 lbs)
17,8cm (7") lid	17,3cm (6.8")	23,6cm (9.3")	4,3cm (1.7")	0,24 kg (.52 lbs)
25,4cm (10") lid	25,1cm (9.9")	33,0cm (13.0")	5,3cm (2.1")	0,51 (1.13 lbs)



Description	A Length	B Width	C Height	Weight (lbs)
15,2cm (6") box	16,0cm (6.3")	20,6cm (8.1")	22,9cm (9.0")	0,35 kg (.77 lbs)
17,8cm (7") box	17,3cm (6.8")	23,6cm (9.3")	22,9cm (9.0")	0,54 kg (1.19 lbs)
25,4cm (10") box	25,1cm (9.9")	33,0cm (13.0")	26,2cm (10.3")	1,02 kg (2.26 lbs)



Ordering Information—Rectangular Valve Box Separates

TVB-XXXX-LID-XX			
Type	Size	Height	Color Description
TVB	XXXX	LID	XX
TVB—Toro Valve Box	1217—30,5X43,2cm (12"x17") 1521—38,1X53,3cm (15"x21")	LID—Lid	Blank— Green lid G—Green lid GY—Gray lid (elect.) T—Tan lid E—Purple lid (effluent) BK—Black lid BR—Brown lid

Example - A Toro 30,5x43,2cm (12x17) rectangular valve box lid for effluent water applications would be specified as: TVB-1217-LID-E

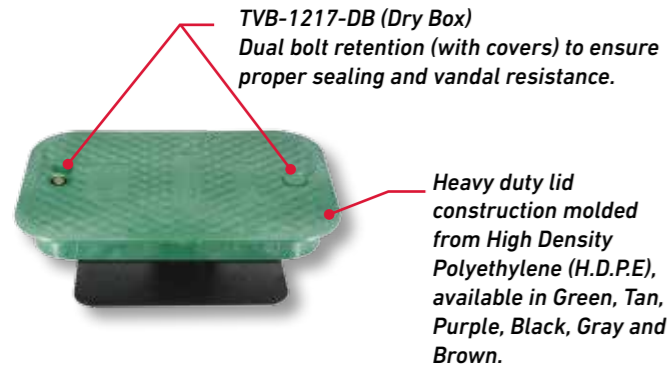
TVB-XXXX-XXXXX			
Type	Size	Height	Color Description
TVB	XXXX	XX	XX
TVB—Toro Valve Box	1217—30,5X43,2cm (12"x17") 1521—38,1X53,3cm (15"x21")	6BOX—15,2cm(6") High valve box 12BOX—30,5cm(12") High valve box	

Example - A Toro 30,5x43,2x15,2(12x17x6) rectangular valve box would be specified as: TVB-1217-6BOX-BK

Description	A Length	B Width	C Height	Weight (lbs)
30,5x43,2cm (12"x17") lid	42,9cm (16.9")	30,0cm (11.8")	5,1cm (2.0")	1,24 kg (2.73 lbs)
38,1x53,3cm (15"x21") lid	54,1cm (21.3")	37,8cm (14.9")	4,8cm (1.9")	1,47 kg (3.23 lbs)
30,5x43,2x15,2cm (12"x17"x6") box	47,8cm (18.8")	35,1cm (13.8")	17,3cm (6.8")	1,74 kg (3.83 lbs)
30,5x43,2x30,5cm (12"x17"x12") box	53,3cm (21")	40,6cm (16")	31,2cm (12.3")	2,87 kg (6.32 lbs)
38,1x53,3x15,2cm (15"x21"x6") box	61,7cm (24.3")	45,2cm (17.8")	17,5cm (6.9")	2,57 kg (5.66 lbs)
38,1x53,3x30,5cm (15"x21"x12") box	65,3cm (25.7")	48,5cm (19.1")	31,2cm (12.3")	4,02 kg (8.88 lbs)



TORO® DRY BOXES



TVB-1217-DB (Dry Box)
Dual bolt retention (with covers) to ensure proper sealing and vandal resistance.

Heavy duty lid construction molded from High Density Polyethylene (H.D.P.E), available in Green, Tan, Purple, Black, Gray and Brown.

TVB-1217-DBAP
Optional accessory plate attaches directly to the lid and allows attachments of various components like GDC modules, elec/hyd converters, battery operated controllers and more.



Dual seal lid design keeps water and critters from creeping in from the top.

Heavy duty 30,5x43,2x30,5cm (12"x 17" x 12") box construction molded from High Density Polyethylene (H.D.P.E), available in Green, Tan, Purple, Black, Gray and Brown.

TVB-1217-DBDS
Optional dirt skirt attaches directly to the bottom of the valve box and provides an outer seal to prevent intrusion from burrowing rodents, water and critters.

Ordering Information—Dry Box Valve Boxes

TVB-1217-12DB-XX			
Type	Size	Height	Color Description
TVB	1217	12DB	XX
TVB—Toro Valve Box	1217—30,5x43,2 12"x17"	12DB—30,5 (12") High Dry Box	Blank— Green lid and black box G—Green lid and box GY—Gray lid and box (elect.) T—Tan lid and box E—Purple lid and box (effluent) BK—Black lid and box BR—Brown lid w/black box
Example - A Toro 30,5x43,2x30,5cm (12"x17"x12") valve box for electrical applications would be specified as: TVB-1217-12DB-GY			

Accessories	
TVB-1217-DBAP	DRY BOX Accessory Plate
TVB-1217-DBDS	DRY BOX Dirt Skirt

Specifications

Static Vertical Load Rating:
SCTE - Light Duty, Pedestrian

Properties of Base Material	ASTM Test Method	HDPE
Tensile Strength	D-638	186,16 - 303,37 bar (2700-4,400 PSI) (Typical Range)
Flexural Modulus	D-790	Minimum 14,000 not to exceed 24,000 PSI
Notched Izod Impact Strength	D-256	0.5 - 3.0 (Typical Range)
Deflection Temperature @ 66PSI	D-648	65,56 - 93,33 C (150-200 F) (Typical Range)
Density	D-792	Minimum 0.95- not to exceed 0.965
Electrical Dielectric Strength	D-149	400-600 V/mil (Typical Range)
Chemical Resistance	D-543	Very Resistant
Water Absorption	D-570	Less than 1% weight change

Warranty
• One year

470 QUICK COUPLER VALVES



Features

- Full range of flows from 0 to 100 gallons per minute
- 1,9, 2,5 and 3,8cm (0.75", 1" and 1.5") one- and two-piece single-lug models including ACME thread key connections to meet a variety of installation requirements
- Hose swivel provides 360° movement without hose tangling for ease of use
- A variety of sizes meet various applications
- Metal and vinyl locking and non-locking covers
- Effluent (lavender-colored) locking cover

Warranty

- Two years

Ordering Information—Quick Coupler Valve Accessories

Order Number	Description
463-01	12,7mm(0.5") Female, 19,1mm(0.75") Male, Single-lug Coupler Key
464-01	19,1mm(0.75") Female, 25,4mm(1") Male, Single-lug Coupler Key
464-02	25,4mm(1") Female, Single-lug Coupler Key
464-03	25,4mm(1") ACME Thread Coupler Key
465-01	31,8mm(1.25") Inlet, 19,1mm(0.75") Female, 25,4mm(1") Male, Single-lug Coupler Key
465-02	25,4mm(1") Female, 38,1mm(1.5") Male, Single-lug Coupler Key
466-01	31,8mm(1.25") Female, 38,1mm(1.5") Male, Single-lug Coupler Key
477-00	19,1mm(0.75") NPT x 19,1mm(0.75") MHT Hose Swivel
477-01	25,4mm(1") NPT x 19,1mm(0.75") MHT Hose Swivel
477-02	25,4mm(1") NPT x 25,4mm(1") MHT Hose Swivel
491-02	Key for Locking Cover

470 Series Friction Loss Data—(Metric)

	LPM Flow										
	35	50	75	100	125	150	175	225	275	325	375
Model 473	1,0	0,2	0,4	0,6							
Model 474			0,1	0,2	0,3	0,5					
Model 475				0,1	0,2	0,2	0,4	0,6			
Model 476						0,1	0,1	0,2	0,3	0,4	0,6

Note: For optimum sprinkler performance when designing a system, be sure to calculate total friction loss to ensure sufficient downstream pressure. Flow rates are recommended not to exceed 0,3 bar loss. Values listed in bar. For kPa values, multiply tabular values by 100. For Kg/cm2 values, multiply tabular values by 1,02.

470 Series Friction Loss Data—(U.S.)

	GPM Flow											
	10	15	20	25	30	35	40	50	60	70	85	100
Model 473	1,5	3,1	5,3	8,5								
Model 474			1,1	2,2	3,6	5,7	8,0					
Model 475				1,0	1,8	2,7	3,6	6,4	9,8			
Model 476							1,0	1,7	2,6	3,6	5,6	8,8

Note: For optimum sprinkler performance when designing a system, be sure to calculate total friction loss to ensure sufficient downstream pressure. Flow rates are recommended not to exceed 5 psi loss. Values listed in psi.

Specifying Information—Quick Couplers

Toro Model Number	Description	Inlet Size NPT Threads	Body Type	Outlet Key Size	Corresponding Key(s)	Valve Cover Type	Corresponding Swivel(s)*		
							477-00	477-01	477-02
473-00	QCV 19,1(0.75), SS CVR	19,1mm(.75")	1 Piece	19,1mm(.75")	463-01	Stainless Steel	A	B	B
474-00	QCV 25,4(1), SS CVR	25,4mm(1")	1 Piece	25,4mm(1")	464-01 & 464-02	Stainless Steel	B	A	A
474-01	QCV 25,4(1), VYL CVR	25,4mm(1")	1 Piece	25,4mm(1")	464-01 & 464-02	Yellow Vinyl, Spring Loaded	B	A	A
474-03	QCV 25,4(1), VYL CVR, W/LK	25,4mm(1")	1 Piece	25,4mm(1")	464-01 & 464-02	Yellow Vinyl, Locking, Spring Loaded	B	A	A
474-04	QCV 25,4(1), LAV VYL CVR	25,4mm(1")	1 Piece	25,4mm(1")	464-01 & 464-02	Lavender Vinyl, Locking, Spring Loaded	B	A	A
474-21	QCV 25,4(1), VYL CVR, 2PC	25,4mm(1")	2 Piece	25,4mm(1")	464-01 & 464-02	Yellow Vinyl, Spring Loaded	B	A	A
474-24	QCV 25,4(1), LAV VYL CVR, 2PC	25,4mm(1")	2 Piece	25,4mm(1")	464-01 & 464-02	Lavender Vinyl, Locking, Spring Loaded	B	A	A
474-40	QCV 25,4(1), SS CVR, ACME	25,4mm(1")	1 Piece	25,4mm(1")	464-03	Stainless Steel	B	A	A
474-41	QCV 25,4(1), VYL CVR, ACME	25,4mm(1")	1 Piece	25,4mm(1")	464-03	Yellow Vinyl, Spring Loaded	B	A	A
474-44	QCV 25,4(1), LAV VYL CVR, W/LK, ACME	25,4mm(1")	1 Piece	25,4mm(1")	464-03	Lavender Vinyl, Locking, Spring Loaded	B	A	A
475-00	QCV 31,8(1.25), SS CVR	31,8mm(1.25")	1 Piece	31,8mm(1.25")	465-01 & 465-02	Stainless Steel	B	B	B
475-01	QCV 31,8(1.25), VYL CVR	31,8mm(1.25")	1 Piece	31,8mm(1.25")	465-01 & 465-02	Yellow Vinyl	B	B	B
476-00	QCV 38,1(1.5), SS CVR	38,1mm(1.5")	1 Piece	38,1mm(1.5")	466-01	Stainless Steel	B	B	B
476-01	QCV 38,1(1.5), VYL CVR	38,1mm(1.5")	1 Piece	38,1mm(1.5")	466-01	Yellow Vinyl, Spring Loaded	B	B	B
476-04	QCV 38,1(1.5), LAV VYL CVR	38,1mm(1.5")	1 Piece	38,1mm(1.5")	466-01	Lavender Vinyl, Locking, Spring Loaded	B	B	B

* A - Attaches directly to the quick coupler key. B - Requires additional fittings to be used with the quick coupler key.