OVERFLOW RISER VALVES

The Waterman line of OVERFLOW RISER VALVES began with our original design, known as a Yakima Valve, featuring a simple single ring frame for installation in concrete pipe. In recent years frame adaptations have been made for use with steel, and plastic (PIP) low-head irrigation pipe. Cover styles have been added and now include our popular "Red Top" high-strength concave and ribbed design, a smooth convex (domed) "Sunshine" design, and our "Pasture" design which features a flush, key operated, self-cleaning stem, for use in areas where livestock are present.

Threads available include our popular high strength National Standard (vee) thread form, many sizes having fast action, double or triple lead threads and a rugged modified acme thread form (acme) for use where shipping or handling damage may be expected. Note: National Standard Threads (vee) will be provided on "Red Top" Valves unless acme is specified, and acme threads will be provided on 6 inch and larger "Sunshine" and "Pasture" Valves unless national standard (vee) threads are specified.

Special threads to interchange with "Martin" and "Snow" Valves can often be provided. Contact the factory with your requirements.

FEATURES

- High Strength, close-grained grey iron frame and cover
- Cast bronze screw with fully machined threads and seal ring.
- Continuous ring, synthetic rubber cover packing and a long-life friction resistant synthetic washer seal.
- · Cast-in-place bronze bushing and solid bronze assembly nut.



Red Top Overflow Valve with Yakima Frame (solid arch)



Sunshine Overflow Valve with Patented CIP Frame

Maximum Operating Heads:

6" - 12", 25 feet; 14", 20 feet; 18" - 20", 15 feet; 24", 10 feet; 30" - 36", 10 feet

Maximum Static Heads:

6" - 12", 50 feet; 14", 35 feet; 18" - 20", 30 feet; 24", 20 feet; 30" - 36", 15 feet.

SELECT:

- Cover Style
- Thread Form
- Frame Type

See page 13A for Frame Installations Suggestions









OVERFLOW RISER VALVES

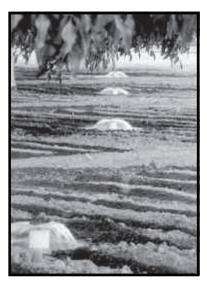


SUNSHINE Overflow Valve with Yakima Type Frame (Solid Arch)



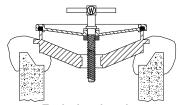
PASTURE Overflow Valve with Type 4 frame.

Note the smooth, slightly domed cover and flush stem. These options serve to protect livestock and reduce problems with vandalism. A hand key or longer key-type spinner handle (ordered separately) is used to open and close the valve.

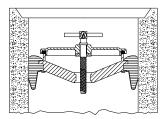


SELECT:

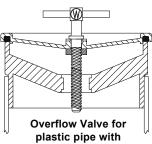
- COVER STYLE
- THREAD FORM
- FRAME TYPE



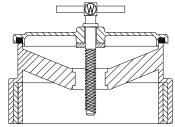
Typical up location, Red Top cover, Yakima frame Overflow Valve for concrete pipe.



Typical down-setting, Yakima frame and Sunshine cover, shown with Redi-Set Ring for concrete pipe.

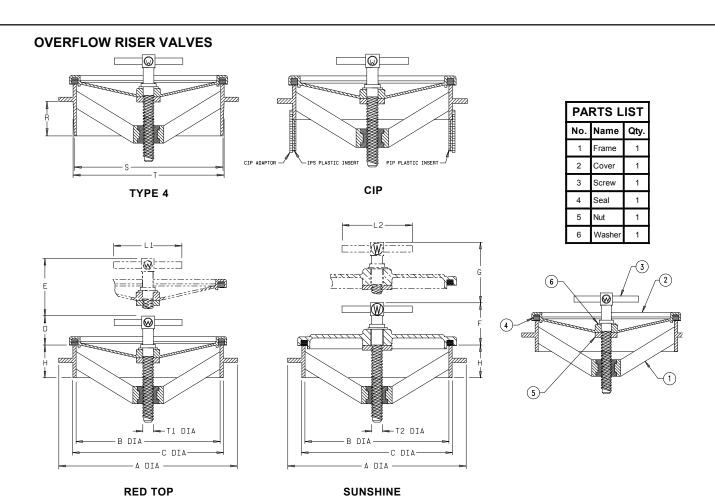


plastic pipe with type 4 frame and Red Top cover.



CIP frame for PIP & IPS plastic pipe. PVC cement bonded.





VALVE DIMENSIONS IN INCHES (NOMINAL)

FOR CONCRETE PIPE

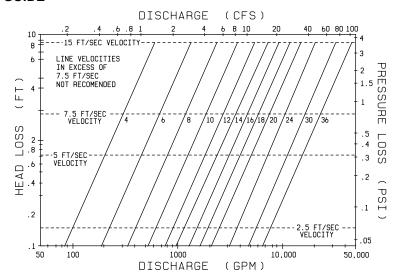
VALVE SIZE	Α	В	С	D	E	F	G	Н	L1	L2	R	S	Т	T1	T2
3	3%16	27/8	33/16	2½	13/16	23/4	3/4	15//8	31//8	31/8	-	-	-	1/2	1/2
3½	41/16	315/16	3½	25/16	15/16	2 1/8	13/16	17/16	31/8	31/8	2½	3½	37/8	1/2	1/2
4	4½	4	41/4	23/16	13/16	2 1/8	13/4	1%	31//8	27/8	13//8	313/16	43/16	1/2	1/2
5	5 1/8	5	53//8	21/4	21/16	213/16	15//8	11//8	31//8	27/8	31/4	51/16	5 1/8	1/2	1/2
6	63//8	6	61/4	23//8	213/16	215/16	31/8	115/16	3¾	3¾	31/4	5½	5 ¹³ / ₁₆	5/8	5/8
6½	71//8	6½	63/4	25/8	21/2	2 1/8	25/16	2	3¾	3¾	-	-	-	5/8	5/8
8	91/4	83//8	85/8	23//8	23/16	31/8	21/8	21/4	3¾	31/8	3	71/4	7 1/8	5/8	5/8
10	10¾	10	105/16	213/16	4	315/16	31/8	21//8	4½	5	3	93//8	913/16	3/4	7∕8
12	1215/16	12	12½	25/16	4	31/16	3¾	115/16	4½	7	33//8	115/16	1111/8	3/4	11/8
14	151/8	14	14½	23/4	4	$3^{3}\!/_{16}$	61/8	23/16	5	8				7/8	11//8
14 x 15	-	-	-	-	-	-	-	-	-	-	4	141/8	143/4	-	-
16	17½	16¾	17	13//8	43/4	45/16	45/16	23//8	8	8	-	-	-	11//4	11/4
18	19½	18¾	19	15/16	61/16	4%/16	61/4	2½	8	8	4	175/16	171/8	11/4	11/4
20	21%	203//8	2015/16	11/8	6½	311/16	61/4	2½	8	8	4	195/16	191/8	11/4	11/4

FOR CONCRETE PIPE



PERFORMANCE CHART & PARTS GUIDE

Flow through various size overflow valves, with corresponding pressure loss at rate of discharge



SUNSHINE OVERFLOW VALVE PARTS GUIDE *										
SIZE	covi	ER	SCRE	:w		FRAME CRETE)	TYPE-4 FRAME (IPS-PIP)	CIP FRAME (IPS-PIP)		
3½"	W656	3½ SS	½ "W506B	58	W102	3½ Y	W1196	-		
4"	W1655	488	½ "W506B	58	W117	4Y	W1296	W1751-CIP		
5"	W1035SS	588	½ "W598B	5SL	W118	5Y	W1155	-		
5" X 6"	W1035SS	588	½ "W596B	5SL	W118	5Y	W1195	W1792-CIP		
6"	W925	6SS	%"W507B	6S	W120	6Y	W1165	W1787-CIP		
6½"	W105SS	6½ SS	%"W507B	6S	W974	6½ Y	-	-		
8"	W146	888	⁵ / ₈ "W683B	6SL	W121	8Y	W1162	W1788		
10"	W141	1088	⅓"W595B	148	W142	1088	-	OV-CIP		
12"	W143	1288	1½ "W512B	12A	W144	1288	-	OV-CIP		
14"	W148	1488	1½ "W684B	1488	W149	1488	-	-		
16"	W149	1688	1¼ "W514B	20A	W129	16Y	-	-		
18"	W147	18SS	1¼ "W685B	20SS	W131	18Y	-	-		
20"	W1366	20SS	1¼ "W685B	20SS	W133	20Y	-	-		

^{*} Numbers beginning with "W" (example: "W130", etc.) are casting numbers which can be located on each cast part.

Numbers which do not begin with "W" are part designations also found on most castings (example: "16A").

RED TOP OVERFLOW VALVE PARTS GUIDE *											
SIZE	cov	ÆR	SCRE	w	FR	(IMA AME CRETE)	TYPE-4 FRAME (PIP)	CIP FRAME (IPS-PIP)			
3"	W114	3Y	½ "W506B	58	W115	3Y	•	-			
3½"	W101	6-0	½"W506B	58	W102	3½ Y	•	-			
4"	W116	4Y	½ "W506B	58	W117	4Y	W1296	W1757-CIP			
5"	W103	5Y	½ "W598B	5SL	W118	5Y	W1195	-			
5" X 6"	W103	5Y	½ "W598B	5SL	W118	5Y	-				
6"	W119	6Y	%"W507B	68	W120	6Y	W1165	W1787-CIP			
6½"	W105	10-0	%"W507B	68	W974	6½ Y	-	-			
8"	W107	8Y	5/ ₈ "W507B	68	W121	8Y	W1162	W1788-CIP			
10"	W122	10Y	³⁄₄"W586	108	W123	10Y	W1163	W1808-CIP			
12"	W124	12Y	³⁄₄"W586	108	W125	12Y	W1164	W1809-CIP			
14"	W126	14Y	½"W595B	148	W127	14Y	W2080 W1194	-			
16"	W128	16Y	1¼ "W513B	16A	W129	16Y	-	-			
18"	W130	18Y	1½ "W514B	20A	W131	18Y	W1659	-			
20"	W132 20Y		1¼ "W514B	20A	W133	20Y	W1660	-			

^{*}Numbers beginning with "W" (example: "W130", etc.) are casting numbers which can be located on each cast part.

Numbers which do not begin with "W" are part designations also found on most castings (example: "16A").

