

QuickStation

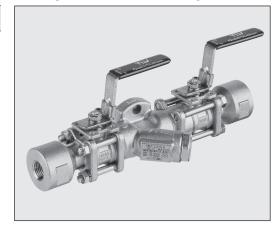
MODEL QS10

COMPACT STAINLESS STEEL STEAM TRAP STATION WITH BUILT-IN BALL VALVES

Benefits

Compact, reliable steam trap station for steam mains, tracers, and light processes. QuickStation enables condensate drainage from a wide range of applications, and inline replacement of universal flange steam traps in minutes.

- Two-bolt flange universal connector allows quick trap replacement or cleaning without disturbing piping.
- 2. All-in-one design, featuring upstream and downstream isolation valves.
- 3. Built-in check valve with tight closure ensures long service life.
- Wetted parts are stainless steel and high-grade rubber or resin for high durability and corrosion resistance.
- Optional elbow-type blowdown valve available for safer condensate blowdown and scale removal.
- 6. Equipped with handle locks for prevention of valve misoperation.
- 7. Enables installation of steam traps on horizontal or vertical lines.
- Models with double upstream isolation valves and with 90° double isolated piping section also available.



Specifications

Model			QS10-B	QS10-D	QS10-T	QS10-TD		
Connection			Screwed, Socket Welded, Flanged					
Valve Port			Full	Full Bore				
Number of Valves Primary Side			1	2	3	3		
Number of valves	Secondary Side		1	1	1	2		
Size (in)			1/2, 3/4, 1	1/2, 3/4, 1	1/2, 3/4, 1	1/2, 3/4, 1		
Maximum Operating P	Pressure (psig) F	РМО	150					
Maximum Operating Temperature (°F) TMO			365					
Maximum Allowable Pressure (psig) PMA				1	50*			
Maximum Allowable Te	emperature (°F)	TMA	365*					

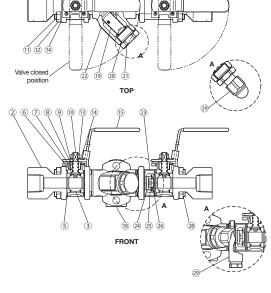
 $^{^{\}star}$ For trap station only; further restricted by mounted trap unit.

Connections and sizes in bold are standard.

CAUTION

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI [*]	JIS
1	Body	Cast Stainless Steel	A351/A351M Gr.CF8	_
2	Cover	Cast Stainless Steel	A351/A351M Gr.CF8	_
3	Ball	Stainless Steel	AISI316	SUS316
4	Valve Seat	Fluorine Resin	R-PTFE	R-PTFE
(5)	Body Gasket	Fluorine Resin	PTFE	PTFE
6	Thrust Washer	Fluorine Resin	PTFE	PTFE
7	Gland Gasket	Fluorine Resin	PTFE	PTFE
8	O-ring	Fluorine Rubber	D2000HK	FPM
9	Gland Nut	Stainless Steel	AISI304	SUS304
10	Valve Stem	Stainless Steel	AISI316	SUS316
11)	Inlet Cover Bolt	Stainless Steel	AISI304	SUS304
12	Inlet Cover Nut	Stainless Steel	AISI304	SUS304
13	Handle Nut	Stainless Steel	AISI304	SUS304
14)	Spring Washer	Stainless Steel	AISI304	SUS304
(15)	Handle	Stainless Steel	AISI304	SUS304
16	Handle Stop Bolt	Stainless Steel	AISI304	SUS304
17	Stop Bolt Nut	Stainless Steel	AISI304	SUS304
18	Connector Body	Cast Stainless Steel	A351/A351M Gr.CF8	_
19	Screen Inside/Outside	Stainless Steel	AISI304/430	SUS304/430
20	Screen Holder Gasket	Stainless Steel	AISI316L	SUS316L
21)	Screen Holder	Cast Stainless Steel	A351/A351M Gr.CF8	_
22	Nameplate	Stainless Steel	AISI304	SUS304
23	Check Valve	Cast Stainless Steel	A351/A351M Gr.CF8	_
24)	Disc	Stainless Steel	AISI303	SUS303
25	Coil Spring	Stainless Steel	AISI304	SUS304
26	Spring Holder	Stainless Steel	AISI304	SUS304
27)	Spacer	Stainless Steel	AISI304	SUS304
28	Outlet Cover Bolt	Stainless Steel	AISI304	SUS304
29	BD2 Blowdown Valve**	Stainless Steel	AISI304	SUS304
30	Extension***	Cast Stainless Steel	A351/A351M Gr.CF8	



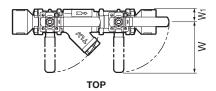
QS10-B

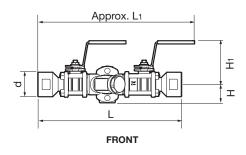
^{*}Equivalent ** Option *** Shown on reverse Consult TLV for available replacement parts.



Dimensions

QS10-B Screwed



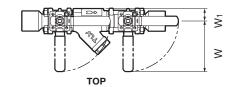


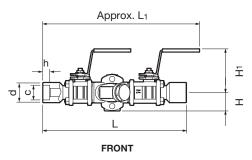
QS10-B Screwed*

(in)

Size	L	L1**	ϕ d	Н	H ₁	W***	W ₁	Weight (lb)
1/2								6.2
3/4	105/8	11 ¹³ / ₁₆	1 13/ ₁₆	1 ³ / ₈	33/8	3¾	¹⁵ / ₁₆	6.0
1								5.7

QS10-B Socket Welded





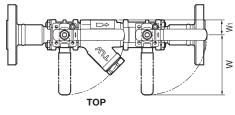
QS10-B Socket Welded*

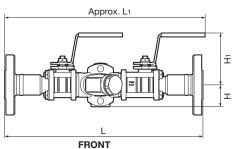
(in)

Size	L	L ₁ **	Н	H ₁	W***	W ₁	φd	φс	h	Weight (lb)
1/2							1 13/ ₁₆	0.855		6.2
3/4	105/8	11 ¹³ / ₁₆	1 ³ / ₈	33/8	3¾	¹⁵ / ₁₆	1 ⁷ / ₁₆	1.065	1/2	6.0
1							1 ³ / ₄	1.330		5.7

* ASME B16.11-2005, other standards available ** At full-open position *** At full-close position

QS10-B Flanged





QS10-B Flanged

(in)

Size		Connects to ASME Class		Н	H ₁	W**	W ₁	Weight*** (lb)
	150RF	300RF						
1/2	131/4	131/4	13					9.9
3/4	141/16	141/16	133/8	1³/ ₈	33/8	3¾	¹⁵ / ₁₆	13
1	1413/16	1413/16	13¾					13

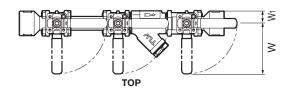
Flange classes in bold are standard.

^{*} NPT; other standards available ** At full-open position *** At full-close position

Other standards available, but length and weight may vary
* At full-open position *** At full-close position *** Weight is for Class 300 RF

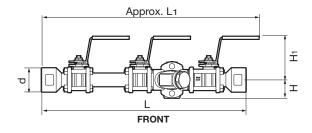
Dimensions

QS10-D Screwed

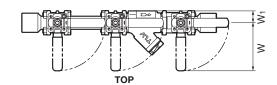


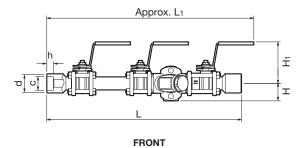
QS10-D Screwed*											
Size	L	L ₁ **	φd	Н	H₁	W***	W ₁	Weight (lb)			
1/2								7.9			
3/4	15¹/ ₈	165/16	1 13/ ₁₆	15/8	33/8	3¾	¹⁵ / ₁₆	7.7			
1								7.5			
- NIDT											

^{*} NPT; other standards available
** At full-open position *** At full-close position



QS10-D Socket Welded



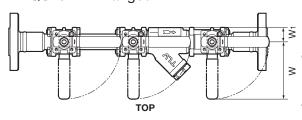


Socket Welded*

S 1	S10-D Socket Welded*										
Size	L	L ₁ **	Н	H ₁	W***	W ₁	ϕ d	φс	h	Weight (lb)	
1/2							1 13/ ₁₆	0.855		7.9	
3/4	15 ¹ / ₈	16 ⁵ / ₁₆	15/8	33/8	3¾	¹⁵ / ₁₆	1 ⁷ / ₁₆	1.065	1/2	7.7	
1							1 ³ / ₄	1.330		7.5	

* ASME B16.11-2005, other standards available ** At full-open position *** At full-close position

QS10-D Flanged



Approx. L1	*
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QS10-D Flanged

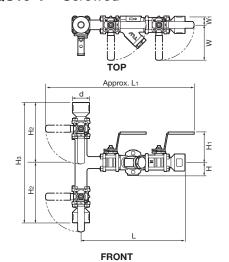
QS1	QS10-D Flanged (in)										
Size	Connects to ASME Class		L ₁ *	Н	H ₁	W**	W ₁	Weight*** (lb)			
	150RF	300RF									
1/2	17 ¹³ / ₁₆	1713/16	1615/16					12			
3/4	18 ⁹ / ₁₆	18 ⁹ / ₁₆	10.716	1³/ ₈	33/8	3¾	¹⁵ / ₁₆	14			
1	19³/ ₈	19³/ ₈	17 ¹ / ₈					15			

Other standards available, but length and weight may vary
* At full-open position *** At full-close position *** Weight is for Class 300 RF

FRONT

Dimensions

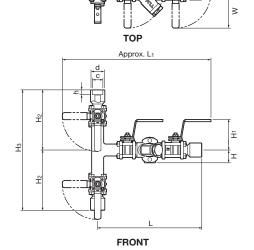
QS10-T Screwed



QS ⁻	QS10-T Screwed*											
Size	L	L ₁ **	φd	Н	H ₁	H ₂	Нз	W***	W ₁	Weight (lb)		
^{1/2} ^{3/4} 1	11	15¾	1 ¹³ / ₁₆	15/8	33/8	63/8	123/4	3¾	¹⁵ / ₁₆	11		

^{*} NPT; other standards available ** Maximum possible length *** At full-close position

QS10-T Socket Welded

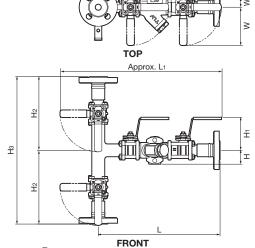


QS10-T Socket Welded*

S10)-T Sc	cket We	elded*			(in)
Size	L	L ₁ **	Н	H ₁	H ₂	Нз
½ ¾ 1	11	15³/₄	15/8	33/8	63/8	123/4

Size	W***	W ₁	φd	φс	h	Weight (lb)
1/2			1 13/16	0.855		
3/4	33/4	¹⁵ / ₁₆	17/16	1.065	1/2	11
1			13/4	1.330		

QS10-T Flanged



QS10-T Flanged

QS10-T Flanged (in)										
Size	1	ects to Class 300RF	L ₁ *	Н	H ₁	H ₂	Нз	W**	W ₁	Weight*** (lb)
1/2	125/16	125/16		13/8	33/8	75/8	151/4		¹⁵ / ₁₆	15
3/4	12¾	12¾	15¾			8	16 ¹ / ₁₆	3¾		17
1	13¹/ ₈	13¹/ ₈				87/16	16 ⁷ / ₈			18

Other standards available, but length and weight may vary

* Maximum possible length *** At full-close position

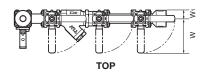
*** Weight is for Class 300 RF

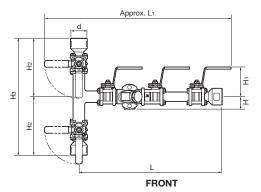
^{*} ASME B16.11-2005, other standards available ** Maximum possible length *** At full-close position



Dimensions

QS10-TD Screwed

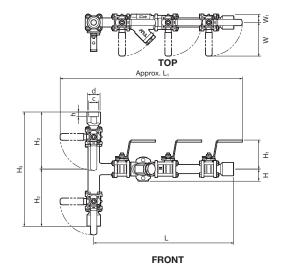




QS10-TD Screwed*										
Size	L	L1**	φd	н	H ₁	H ₂	Нз	W***	W ₁	Weight (lb)
1/2										13
3/4	15¾	20½	1 13/ ₁₆	1 ⁵ / ₈	33/8	63/8	12¾	3¾	¹⁵ / ₁₆	10
1										12

^{*} NPT; other standards available ** Maximum possible length *** At full-close position

QS10-TD Socket Welded

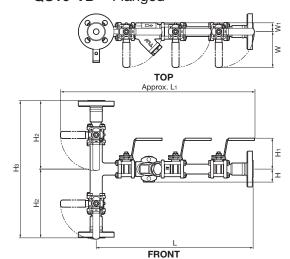


OCIO T	'D C^	0140+ \A	Ialdad ³
QS10-T	D 20	ckel w	/elded [*]

251	0-1D	Socket	vveided	`		(in)
Size	L	L ₁ **	Н	H ₁	H ₂	Нз
½ ¾ 1	15³/ ₄	20½	15/8	33/8	6³/ ₈	12³/ ₄

Size	W***	W ₁	φd	φс	h	Weight (lb)	
1/2			1 13/ ₁₆	0.855		13	
3/4	33/4	¹⁵ / ₁₆	1 ⁷ / ₁₆	1.065	1/2		
1			13/4	1.330		12	

QS10-TD Flanged



	QS10-ID Flanged (in)										
•	Size	ASME	ects to	L ₁ *	Н	H ₁	H ₂	Нз	W**	W ₁	Weight*** (lb)
		150RF	300RF								
	1/2	16 ⁷ / ₈	16 ⁷ / ₈				75/8	151/4			17
	3/4	171⁄4	171⁄4	20½	13/8	33/8	8	161/16	3¾	15/16	19
	1	1711/16	1711/16				87/16	16 ⁷ / ₈			19

Other standards available, but length and weight may vary

* Maximum possible length ** At full-close position

*** Weight is for Class 300 RF

^{*} ASME B16.11-2005, other standards available
** Maximum possible length *** At full-close position



Mounted Steam Trap Units

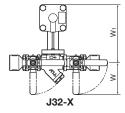
QuickStation QS10 accommodates steam trap units for condensate drainage from a wide range of applications, including process use and steam mains.

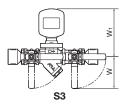
Dimensions with Mounted Steam Trap Units

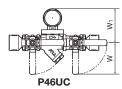
(in)

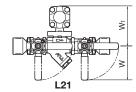
Model	W*	W1**	Weight (lb)***
J32-X		67/8	11
S3	2 ⁹ / ₁₆	5 11/16	8.4
P46UC		41/8	8.4
L21		45/16	8.6
X1		41/8	8.8

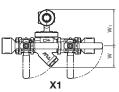
^{*} At full-close position ** At full-open position *** Combined weight of QS10-B with mounted steam trap unit









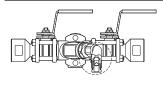


Steam Trap Unit Specifications*

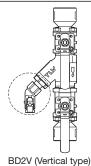
Model	J32-X	S3	P46UC	L21	X1
Steam Trap Type	Free Float	Free Float	Thermodynamic	Thermostatic	Thermostatic
PMO (psig)	450	300	650	300	300
TMO (°F)	464	752	750	455	662
Max. Discharge Capacity** (lb/h)	1470	475	1630	1050	See FX1 data sheet
Trap Image					

^{*} For more information, see the QuickTrap specifications data sheet for the steam trap employing the desired trap unit (trap unit - QuickTrap data sheet): J32-X - FJ32-X; S3 - FS3; P46UC - FP46UC; L21 - FL21/FL32; X1 - FX1.

Options



BD2N (Horizontal type)



BD2N (Horizontal type) BD2V (Vertical type) The BD2 blowdown valve, installed in place of the screen holder, uses internal pressure to blow out condensate/steam, dirt and scale to the atmosphere.

CAUTION

DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.

Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

TLY CORPORATION

13901 South Lakes Drive, Charlotte, NC 28273-6790 Tel: 704-597-9070 Fax: 704-583-1610 E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP"





ISO 9001 ISO 14001



^{**} Capacities shown here will vary depending on orifice numbers, type of X-element and/or pressure differential. Note: The operating pressure and temperature range of the trap unit is limited to that of the QuickStation.