PowerTrap TLV MODEL GP10/GP14

SECONDARY PRESSURE DRAINER FOR PUMPING APPLICATIONS

Benefits

Technologically advanced system for pumping high-temperature condensate or process liquids from vented receivers and sumps.

- 1. No cavitation or seal leakage.
- 2. Non-electric design with durable nickel-based alloy compression spring for reliable performance.
- 3. Externally removable motive medium intake valve protected by an internal screen provides excellent serviceability.
- 4. Inlet and exhaust valve heads are both Rockwell 65C with 55C/45C seats for maximum durability.
- 5. High quality stainless steel internals ensure reliability.
- 6. Two year mechanism and lifetime spring warranty.*
- 7. Float resists shock to 1340 psig.
- 8. Cycle Counter installable as option.

* Contact TLV for details

Specifications

CAUTION

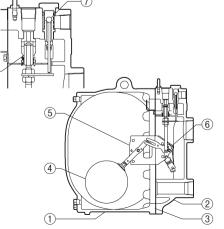
Model		GP10			GP14		
Body Mate	rial	Cast Iron	Cast	Steel	Cast Iron	Cast	Steel
Connectior	Pumped Medium Inlet & Outlet	Screwed	Screwed	Flanged	Screwed	Screwed	Flanged
CONTECTO	Motive Medium & Pump Exhaust	Screwed	Screwed	Flanged	Screwed	Screwed	Flanged
	Pumped Medium: Inlet × Outlet	3>	< 2	2×2, 3×2	3>	< 2	2×2, 3×2
Size (in)	Motive Medium Inlet		1			1	
	Pump Exhaust Outlet		1		1		
Maximum (Operating Pressure (psig) PMO	150			200		
Maximum (Operating Temperature (°F) TMO	365			392		
Maximum /	Allowable Pressure (psig) PMA	200 230			200 230		
Maximum A	Allowable Temperature (°F) TMA	428			428		
Motive Med	dium Pressure Range (psig)	5 – 150			100 - 200		
Maximum A	Allowable Back Pressure	7 psi less than motive medium pressure used			7 psi less than motive medium pressure used, but not to exceed 150 psig		
Volume of I	Each Discharge Cycle (gal)	approximately 8					
Motive Med	dium*	Saturated Steam, Compressed Air, Nitrogen					
Pumped M	edium**	Steam Condensate, Water					

* Do not use with toxic, flammable or otherwise hazardous fluids. ** Do not use for fluids with specific gravities under 0.85 or over 1, or for toxic, flammable or otherwise hazardous fluids.

> 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)			Cast Iron	A126 Cl.B	FC250
U	Body		Cast Steel**	A216 Gr.WCB	—
(2)	0		Cast Iron	A126 CI.B	FC250
0	Cover		Cast Steel**	A216 Gr.WCB	—
(3)	Cover Gasket (0	GP10)	Graphite Compound	—	—
9	Cover Gasket (GP14)		Graphite/Stainless Steel	-/ AISI316L	-/ SUS316L
(4)	Float		Stainless Steel	AISI316L/303	SUS316L/303
(5)	Lever Unit		Stainless Steel	—	—
6	Snap-action Un	it	Stainless Steel	—	—
	Motive Medium	Intake Valve	Stainless Steel	AISI303/440C	SUS303/440C
7	Intake Valve Unit	Valve Seat	Cast Stainless Steel/ Stainless Steel	A351 Gr.CF8/ AISI440C	-/ SUS440C
0	Exhaust Valve	Exhaust Valve	Stainless Steel	AISI303/440C	SUS303/440C
8	Unit	Valve Seat	Stainless Steel	AISI420F	SUS420F
0	Chaole Value***	CK3MG	Cast Stainless Steel	A351 Gr.CF8	—
9	9 Check Valve***	CKF3MG	Cast Stainless Steel	A351 Gr.CF8	—

Connections and sizes in bold are standard



* Equivalent ** Option: Cast Stainless Steel
*** Not shown, model depends on connection; CK3MG for screwed, CKF3MG for flanged

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TLV

Discharge Capacity

• GP10 (Filling Head: 36" from Grade)

Inlet Pi	pe Size	A	2″	В	2″	С	2″	D	3″	E	2″	F	3″
Inlet Che	eck Valve	1" CK3MG		1 ¹ /2" CK3MG		2" CK3MG		3" CK3MG		2" CKF3MG		3" CKF3MG	
Outlet Ch	eck Valve	1″ CK	(3MG	11⁄2″ C	K3MG	2″ CK	(3MG	2″ CK	(3MG	2″ CK	F3MG	2″ CK	F3MG
Motive	Medium	Air	Steam	Air	Steam	Air	Steam	Air	Steam	Air	Steam	Air	Steam
Motive Medium Inlet Pressure (Pm) (psig)	Back Pressure (P2) (psig)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)
	15	3,600	3,400	7,800	7,500	12,100	11,900	18,600	18,400	10,900	10,700	16,700	16,600
	25	3,500	3,300	7,400	6,900	11,200	11,000	16,400	15,800	10,100	9,900	14,800	14,200
150	40	3,300	3,100	6,800	6,300	9,800	9,300	13,400	12,500	8,800	8,400	12,100	11,300
	60	3,000	2,900	6,200	5,400	8,300	7,800	10,400	9,500	7,500	7,000	9,400	8,600
	80	2,900	2,700	5,600	4,600	7,000	6,500	8,000	7,300	6,300	5,900	7,200	6,600
	100	2,600	2,500	5,100	3,900	6,400	5,400	7,000	6,100	5,800	4,900	6,300	5,500
	15	3,400	3,200	7,600	7,200	11,800	11,600	17,500	17,300	10,600	10,400	15,800	15,600
	25	3,300	3,100	7,200	6,700	10,600	10,400	15,300	14,900	9,500	9,400	13,800	13,400
125	40	3,100	2,900	6,600	6,000	9,300	8,900	12,600	11,600	8,400	8,000	11,300	10,400
120	60	2,900	2,800	5,900	5,100	8,000	7,000	10,000	8,900	7,200	6,300	9,000	8,000
	80	2,600	2,500	5,100	4,300	6,800	5,800	7,700	6,800	6,100	5,200	6,900	6,100
	100	2,400	2,200	4,600	3,500	6,100	5,000	6,800	5,600	5,500	4,500	6,100	5,000
	15	3,300	3,100	7,500	7,000	11,500	11,200	16,900	16,100	10,400	10,100	15,200	14,500
	25	3,100	3,000	7,000	6,600	10,000	9,800	15,000	13,600	9,000	8,800	13,500	12,200
100	40	2,900	2,800	6,200	5,700	8,800	8,200	11,900	10,700	7,900	7,400	10,700	9,600
	60	2,700	2,600	5,400	4,800	7,600	6,600	9,600	7,900	6,800	5,900	8,600	7,100
	80	2,400	2,300	4,700	3,900	6,400	5,000	7,400	5,900	5,800	4,500	6,700	5,300
	15	3,100	3,000	7,400	6,700	11,100	10,900	15,500	14,600	10,000	9,800	14,000	13,100
75	25	3,000	2,900	6,700	6,200	9,400	9,200	13,300	12,100	8,500	8,300	12,000	10,900
10	40	2,800	2,700	5,800	5,300	8,100	7,700	10,600	8,800	7,300	6,900	9,500	7,900
	60	2,500	2,400	4,700	4,300	6,500	5,600	7,600	6,600	5,900	5,000	6,800	5,900
	10	3,100	2,900	7,500	6,600	11,000	10,800	15,100	14,600	9,900	9,700	13,600	13,100
50	15	3,000	2,800	7,100	6,200	9,800	9,300	13,900	13,000	8,800	8,400	12,500	11,700
50	25	2,900	2,700	6,300	5,400	8,500	7,200	11,900	9,900	7,700	6,500	10,700	8,900
	40	2,600	2,500	5,000	4,200	6,600	5,500	8,000	6,100	5,900	5,000	7,200	5,500
	5	3,000	2,900	7,200	6,300	10,500	10,300	14,800	12,900	9,500	9,300	13,300	11,600
25	10	2,900	2,800	6,700	5,700	9,500	8,200	12,400	9,700	8,600	7,400	11,200	8,700
	15	2,800	2,600	6,200	5,100	8,500	6,400	9,500	7,300	7,700	5,800	8,600	6,600

• GP14 (Filling Head: 36" from Grade)

· · · · · · · · · · · · · · · · · · ·	no Sizo	G	2″	Н	3″		2″	J	3″
Inlet Pipe Size Inlet Check Valve		2″ CK3MG		3″ CK3MG				3″ CKF3MG	
		2" CK3MG 2" CK3MG		2" CK3MG		2" CKF3MG		2" CKF3MG	
	eck Valve					2″ CK			
-	Medium	Air	Steam	Air	Steam	Air	Steam	Air	Steam
Motive Medium	Total Lift or								
Inlet Pressure	Back Pressure	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)	(lb/h)
(Pm) (psig)	(P ₂) (psig)								
	15	11,100	9,700	13,800	13,300	9,900	8,700	13,400	12,700
	25	10,300	8,600	12,600	11,700	9,200	7,800	12,200	11,100
	40	9,200	7,100	10,800	9,400	8,100	6,500	10,500	8,900
150 – 200	60	8,000	5,600	9,000	7,200	7,100	5,300	8,900	6,700
	80	7,000	4,400	7,500	5,400	6,200	4,300	7,500	5,000
	100	6,200	3,600	6,600	4,200	5,500	3,600	6,500	3,900
	120	5,700	3,200	6,000	3,600	5,100	3,200	6,000	3,400
	15	11,100	9,000	13,800	11,900	9,900	7,900	13,400	11,400
	25	10,300	7,900	12,600	10,300	9,200	7,000	12,200	9,800
125	40	9,200	6,400	10,800	8,100	8,100	5,800	10,500	7,600
125	60	7,900	4,900	9,000	6,000	7,100	4,600	8,400	5,500
	80	6,700	3,700	7,500	4,300	6,000	3,500	6,800	3,900
	100	6,000	2,900	6,600	3,300	5,400	2,700	6,100	2,900
	15	10,300	8,300	12,900	10,800	9,100	7,200	12,600	9,800
	25	9,500	7,200	11,600	9,100	8,300	6,300	11,300	8,300
100	40	8,400	5,700	9,700	6,900	7,300	5,000	9,600	6,200
	60	7,200	4,200	7,900	4,800	6,300	3,700	7,800	4,300
	80	6,100	3,000	6,400	3,200	5,500	2,600	6,100	2,900

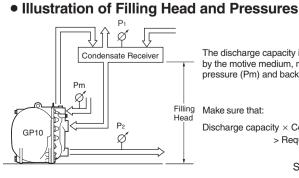
• Correction Factors

(For GP10 and GP14 with filling heads other than 36")

	0			
Filling Head	Ch	Inlet I eck Valv		(in)
from		GP10		GP14
Grade	1	1½, 2	3	2, 3
60″	1.34	1.27	1.14	1.14
54″	1.29	1.24	1.12	1.12
48″	1.22	1.18	1.09	1.09
42″	1.13	1.11	1.05	1.05
36″	1.0	1.0	1.0	1.0
30″	0.71	0.75	0.88	0.88

NOTE:

- A check valve must be installed at both the pumped medium inlet and outlet. To achieve the above capacities with the standard GP10 or GP14 configuration, TLV CK3MG or CKF3MG check valves must be used.
- Motive medium pressure minus back pressure must be greater than 7 psi.
- In closed system applications, the motive medium must be compatible with the liquid being pumped. If a non-condensable gas such as air or nitrogen is used as the motive medium, consult TLV for assistance.
- A strainer must be installed at the motive medium and pumped medium inlets.



The discharge capacity is determined by the motive medium, motive medium pressure (Pm) and back pressure (P2).

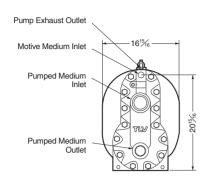
Filling Make sure that:

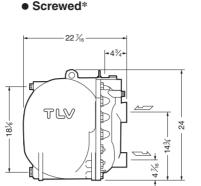
Discharge capacity \times Correction Factor > Required Flow Rate



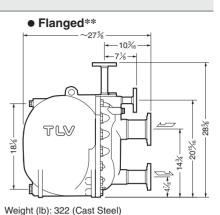
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Dimensions





Weight (lb): 273 (Cast Iron), 300 (Cast Steel) * NPT, other standards available



** ASME Class 150 RF (GP10, option for GP14), Class 300 RF (GP14), other standards available

Units: in

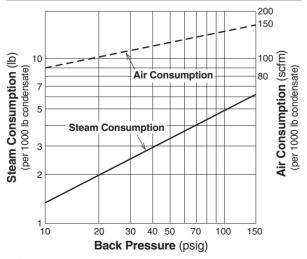
Receiver/Reservoir Sizing Tables

The receiver/reservoir must have a capacity sufficient to store the condensate produced during the PowerTrap operation and discharge. A receiver will generally be larger than a reservoir because it must handle the condensate both as a liquid and as flash steam, and separate one from the other so that only condensate is sent to the PowerTrap.

If NO flash steam is present, use dimensions given in table 2. If flash steam is present, compare tables 1 & 2 and choose the larger resultant size. For all open systems, use table 1 to select a suitable vent pipe diameter.

1. Receiver Dimensions (Length: 3.5							
Flash Steam up to (lb/h)	Receiver Diameter (in)	Vent Pipe Diameter (in)					
50	3	1					
75	4	1 ¹ /2					
100	4	2					
200	6	2 ¹ /2					
300	8	3					
400	8	4					
600	10	4					
800	12	6					
1,000	14	6					
1,400	16	8					
1,600	18	8					
2,000	20	8					

Steam or Air Consumption (Motive Medium)



* Equivalent consumption of air at 68 $^\circ F$ under atmospheric pressure Copyright O TLV

2. Reservoir Dimensions

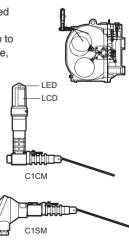
Amount of condensate	Reservoir diameter (in) and length (ft)							
lb/h	1 ½	2	3	4	6	8	10	
500 or less	3.0 ft	2.0						
700	4.0	2.5	1.0					
1,000	5.5	3.5	1.5					
1,200		4.5	2.0	1.0				
1,500			2.5	1.5				
2,000			3.5	2.0				
3,000			4.5	3.0				
4,000			6.5	4.0	1.5			
5,000				5.0	2.5			
6,000				5.5	2.5	1.5		
7,000				6.5	3.0	1.5		
8,000					3.5	2.0		
9,000					4.0	2.5	1.5	
10,000					4.5	2.5	1.5	
12,000					5.0	3.0	2.0	
14,000					6.0	3.5	2.5	
16,000					6.5	4.0	2.5	
18,000						4.5	3.0	
20,000						5.0	3.5	

Reservoir length can be reduced by 50% when the motive medium pressure (Pm) divided by back pressure (P₂) equals 2 or greater (when Pm \div P₂ \ge 2).

Cycle Counter (option)

Two types of counter can be installed on the GP10/GP14 to monitor the number of pumping cycles and help to determine the timing of maintenance, or estimate the volume of pumped condensate.

- C1CM (Counter Unit Type) : Self-contained standalone unit. Includes an LCD counter display and an operation indicator LED.
- C1SM (Terminal Box Type) : Designed for use with remote monitoring equipment and systems.



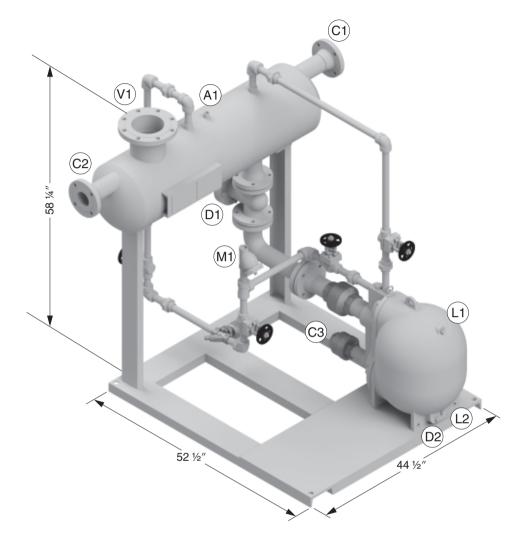
Intrinsically safe models are also available. See the Cycle Counter SDS for further details.



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System Package Configuration

Single System Package¹⁾



Available Standard System Package Configurations

Single GP10/GP14: 29 Gallon Tank Weight: approx. 1060 lb

Max. Allowable Flash Steam: 1800 lb/h	ſ
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Tag	Qty.	Size (in)	Process
A1	1	1⁄2	Auxiliary Connection
C1	1	3	Condensate Inlet/Overflow Connection
C2	1	3	Condensate Inlet/Overflow Connection
C3	1	2	Pumped Condensate Outlet Connection
D1	1	1/2	Tank Drain Connection
D2	1	1/2	PowerTrap Drain Connection
L1	1	1/2	PowerTrap Level Gauge Connection
L2	1	1⁄2	PowerTrap Level Gauge Connection
M1	1	1	Motive Steam Inlet Connection
V1	1	6	System Vent Connection

Discharge Capacity: see discharge capacity graph column \blacksquare for GP10, column \blacksquare for GP14.

NOTES:

Twin GP10/GP14: 50 Gallon Tank Weight: approx. 1740 lb Max. Allowable Flash Steam: 3200 lb/h

Tag	Qty.	Size (in)	Process	
A1	1	1⁄2	Air Vent Connection	
C1	1	4	Condensate Inlet Connection	
C2	1	4	Auxiliary Connection	
C3	2	2	Pumped Condensate Outlet Connection	
D1	1	1⁄2	Tank Drain Connection	
D2	2	1⁄2	PowerTrap Drain Connection	
L1	2	1⁄2	PowerTrap Level Gauge Connection	
L2	2	1⁄2	PowerTrap Level Gauge Connection	
M1	1	1 ½	Motive Steam Inlet Connection	
V1	1	6	Max. Flash Steam Capacity	

Discharge Capacity: double the discharge capacity found in column D for GP10, column 1 for GP14.

1) Single Industrial System Package shown. See System Package Specifications table for details and alternative configuration. See next page for Standard Tank/Piping specifications. Other non-standard specifications available to meet site requirements.



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System Package Specifications

Tank



ASME U-stamped pressure vessel built in accordance with the latest edition of ASME Section VIII Div. 1 Rated to 200 psig @ 395 °F Connections 2″ and greater: ASME 150RFV Connections 1 ½″ and smaller: 300# socket we Corrosion Allowance: ½″

ASME 150RFWN flanged fittings 300# socket weld fittings 1/32"

Addition Cast Iron Cast Steel Sody Material Cast Iron Cast Steel DreverTrap Connections incl. NPT ISORFWM Nanged (connections are NPT & seal welided) OwerTrap Connections incl. NPT NPT DreverTrap Connections are NPT & seal welided) NPT NPT OwerTrap Connections incl. NPT NPT Check Valves NPT NPT DreverTrap Check Valves NPT (CK3MG) Flangeless 150FF (CKF3MG) Solation Valves 150RF Cast Steel Flanged Gate Valve with #0 Trim Gate Valve with #0 Trim AdvierBalance Line Valves 150RF Cast Steel Flanged Gate Valve with #0 Trim Gate Valve with #0 Trim AdvierBalance Line Valves 3000# Forged Steel Threaded 3000# Forged Steel Stee	Standard Design Option:	Industrial	Power & Refining			
Ower Trap Connections incl. NPT 150RF/VN flanged (connections are NPT & seal welded) Over Trap Connections NPT NPT Over Trap Connections NPT NPT Check Valves Image: Connections NPT NPT Check Valves Image: Connections NPT NPT Check Valves NPT (CK3MG) Flangeless 150RF (CKF3MG) Solation Valves PowerTrap Check Valves NPT (CK3MG) Flangeless 150RF (CKF3MG) Solation Valves PowerTrap Check Valves 150RF Cast Steel Flanged Gate Valve with #8 Trim Gate Valve with #8 Trim Gate Valve with #8 Trim Advier/Balance Line Valves 800# PTC Cast Steel Flanged Gate Valve with #8 Trim 800# Socket Weld Cast Steel Flanged Gate Valve with #8 Trim Schedule 40 A106 SMLS Advier/Balance Line Piping Schedule 40 A106 SMLS Schedule 80 A106 SMLS Schedule 80 A106 SMLS Advier/Balance Line Piping Schedule 40 A106 SMLS Schedule 80 A106 SMLS Schedule 80 A106 SMLS Advier/Balance Line Piping Schedule 40 A106 SMLS Schedule 80 A106 SMLS Schedule 80 A106 SMLS Advier/Balance Line Piping Schedule 80 A106 SMLS Schedule 80 A106 S	PowerTrap	The second				
Ower Trap Connections incl. NPT 150RF/VN flanged (connections are NPT & seal welded) Over Trap Connections NPT NPT Over Trap Connections NPT NPT Check Valves Image: Connections NPT NPT Check Valves Image: Connections NPT NPT Check Valves NPT (CK3MG) Flangeless 150RF (CKF3MG) Solation Valves PowerTrap Check Valves NPT (CK3MG) Flangeless 150RF (CKF3MG) Solation Valves PowerTrap Check Valves 150RF Cast Steel Flanged Gate Valve with #8 Trim Gate Valve with #8 Trim Gate Valve with #8 Trim Advier/Balance Line Valves 800# PTC Cast Steel Flanged Gate Valve with #8 Trim 800# Socket Weld Cast Steel Flanged Gate Valve with #8 Trim Schedule 40 A106 SMLS Advier/Balance Line Piping Schedule 40 A106 SMLS Schedule 80 A106 SMLS Schedule 80 A106 SMLS Advier/Balance Line Piping Schedule 40 A106 SMLS Schedule 80 A106 SMLS Schedule 80 A106 SMLS Advier/Balance Line Piping Schedule 40 A106 SMLS Schedule 80 A106 SMLS Schedule 80 A106 SMLS Advier/Balance Line Piping Schedule 80 A106 SMLS Schedule 80 A106 S	Body Material	Cast Iron	Cast Steel			
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