

For Commercial Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Series ICV-125-2-2-T Cast Iron Wafer Check Valves Sizes: 2" - 12" (50-300mm)

Series ICV-125-2-2-T Cast Iron Wafer Check Valves are designed for HVAC and general service applications. They are lighter, more compact, utilize half the number of studs for installation and in some sizes offer more flow capacity than conventional swing check valves. The two spring-loaded plates close when the flow decreases, without the necessity of reverse flow. The Series ICV-125-2-2-T is designed and tested according to API 594 for use between ANSI Class 125 or 150 flanges.

Features

- Lightweight & compact design
- Aluminum bronze disc plates
- EPDM seat bonded to body for leak tight sealing
- Silent check valve
- Complies with API 594

Note: When installed in vertical pipe, flow direction in normal operation should open discs, and inlet pressure should be greater than head pressure.

Specifications

Check valve shall be manufactured out of ASTM A126 Class B cast iron and comply with API 594. Valve shall be pressure rated to 200psi (13.8 bar) for sizes 2" - 12" (50mm - 300mm). Check valve constructed with aluminum bronze disc plate, EPDM seat, 316 stainless steel spring, and PTFE bearings. Valve shall be Watts Regulator Company Series ICV-125-2-2-T.

Pressure — Temperature:

Temperature Range: -40°F - 250°F (-40°C - 121°C)

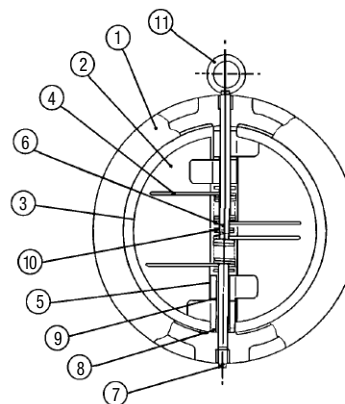
Pressure Rating:

- 2" - 12" (50 - 300mm):
200psi (13.8 bar) CWP @ 150°F (66°C)



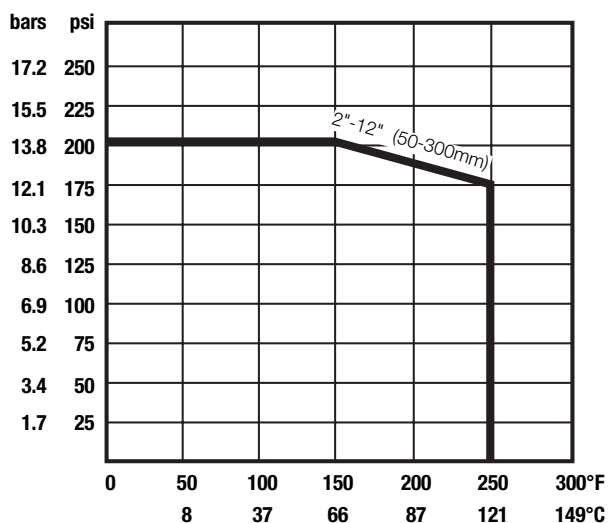
ICV-125-2-2-T

Materials

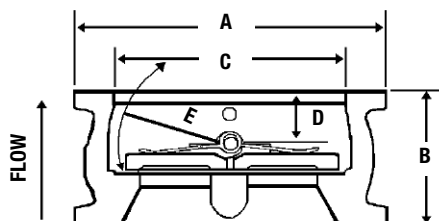


1.	Body	Cast Iron	ASTM A126 Class B
2.	Disc plates (2)	Aluminum Bronze	ASTM B-148
3.	Seat	EPDM	Commercial
4.	Spring	Stainless Steel	ASTM A-276 316SS
5.	Hinge Pin	Stainless Steel	ASTM A-167 304SS
6.	Stop pin	Stainless Steel	ASTM A-167 304SS
7.	Plug	Carbon Steel	ASTM A-105
8.	Body bearings	PTFE	Commercial
9.	Plate bearings	PTFE	Commercial
10.	Spring bearings	PTFE	Commercial

Pressure – Temperature Ratings

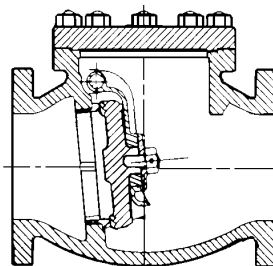


Note: Indicated Pressures are WOG.



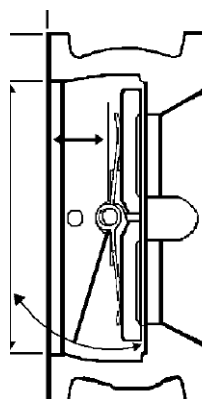
Note: flanges not included. Designed to mount between user supplied flanges.

"ICV-125-2-2-T" vs. Conventional Swing Check



Conventional Swing Check

- Heavy
- Lower flow capacity
- Twice as many studs and nuts required



Watts "ICV-125-2-2-T"

- Lightweight
- Higher flow capacity
- Only one set of studs and nuts required

Dimensions – Weights

SIZE (DN)												NO.	STUD DIAMETER		LENGTH		WEIGHT		
		A		B		C		D		E		CV							
<i>in.</i>	<i>mm.</i>	<i>in.</i>	<i>mm.</i>	<i>in.</i>	<i>mm.</i>	<i>in.</i>	<i>mm.</i>	<i>in.</i>	<i>mm.</i>	<i>in.</i>	<i>mm.</i>			<i>mm</i>	<i>in.</i>	<i>in.</i>	<i>mm.</i>	<i>lbs.</i>	<i>kg.</i>
2	50	4⅛	105	2⅛	54	2⅞ ₁₆	65	1	25	1⅜	35	72	4	⅝	16	5¼	133	7	3
2½	65	4⅞	124	2⅜	60	3⅛ ₁₆	78	1	25	1½	38	132	4	⅝	16	5½	140	9	4
3	80	5⅝	137	2⅝	67	3⅛ ₁₆	94	1⅛	29	1⅞	48	180	4	⅝	16	5¾	146	11	5
4	100	6⅞	175	2⅝	67	4⅞ ₁₆	117	1⅜	35	2	50	380	8	⅝	16	6¼	159	13	6
5	125	7⅞	187	3¼	82	5⅛ ₁₆	145	1⅜	35	2⅝	67	635	8	¾	19	6¾	171	20	9
6	150	8¾	222	3¾	95	6¾	171	1⅞ ₁₆	36	3⅞	79	864	8	¾	19	7	178	22	10
8	200	11	279	5	127	8¾	222	1¾	44	4⅞	105	1650	8	¾	19	8	200	42	19
10	250	13⅜	340	5½	140	10⅞	276	1¾	44	5	127	3017	12	⅞	22	9	229	68	31
12	300	16⅞	409	7⅞	181	12⅞	327	2⅝	60	6⅞	156	4280	12	⅞	22	10½	267	123	56

C_v = flow in GPM through a valve at 1psi pressure drop when the media is water at 68°F.



A Watts Water Technologies Company



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