

HANTEMP Controls

Bulletin CK40217b

CK4t Stainless Steel In-Line Check Valves

Made in
U.S.A.

iiar
International Institute of
Ammonia Refrigeration



CK4t In-Line Check (Cartridge)

DESCRIPTION

The HANTEMP Controls **Stainless Steel** CK4t Flanged Check Valves are dependable, compact, rugged in-line check valves (disc type non-return valves) ideally suited for liquid, suction, or hot gas refrigerant flow control applications. Valves open for flow in the arrow direction on the valve body. Valves close quickly and reliably when flow reversals occur.

Stainless Steel bodies, flanges, seat discs, springs, bolts, and nuts enable these multi-purpose check valves to withstand industrial refrigeration conditions. These check valves can be mounted in any position and can be close-coupled to outlets of S4At, and A4At solenoid or pressure regulator valves and similar competitors' models.

SPECIFICATIONS

Body: Stainless Steel (no toxic zinc plating)

Seating and Spring: Stainless Steel

Flange: Size 100 (various connections)

Pipe Sizes: 3/4", 1", and 1 1/4"

Safe Operating Temperature: -70°F to +240°F

Safe Working Pressure: 800 psig

Opening Pressure: 1 psid nominal

Approved Refrigerants: Ammonia, CO2, heat transfer fluids and other approved refrigerants

INLINE CHECK VALVE FOR INDUSTRIAL REFRIGERATION

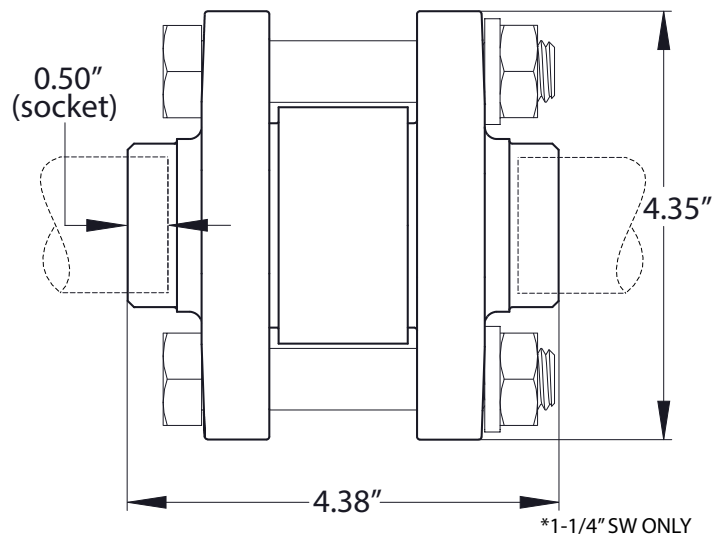
3/4" TO 1 1/4"

- Stainless Steel Body, Spring, Seats, Flanges, Bolts & Nuts
- Flanges compatible with R/S, Hansen, and Henry
- Can bolt to outlet of flanged control valves without need for male adapter ring

INSTALLATION

Valve may be oriented in any position. Arrow on check body should match direction of flow. As for all check valves, do not install on the **inlet** side of solenoid valves or control valves with electric shut-off. For proper flange gasket sealing, care must be taken when threading or welding to assure flanges are parallel to each other and perpendicular to pipe. After welding, gaskets should be lightly oiled and bolts greased and tightened evenly.

INSTALLATION DIMENSIONS



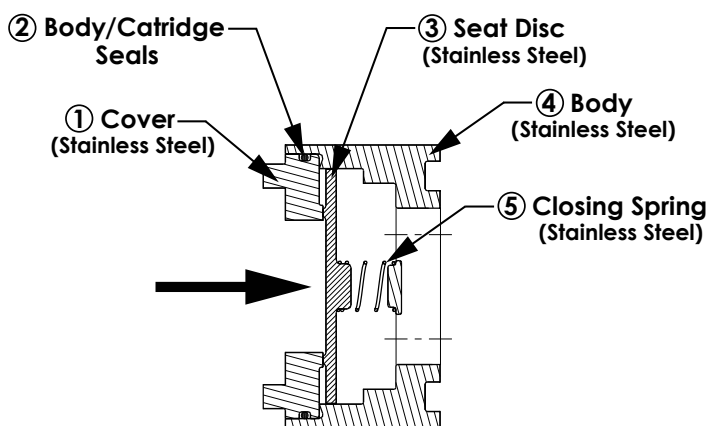
Assembled weld length: SW 3.38", FPT 4.38", BW 4.38"

*Flange groove depth nominal 0.125" ; Tongue heights nominal 0.188" ; gasket thickness nominal 0.06"

OPERATION

CK4t check valves are normally closed valves. As inlet pressure increases, it overcomes the light closing spring force. As the seat disc is pushed back and away from the seat cartridge, flow through the valve occurs. The valve will remain open until the inlet pressure drops below the closing spring force or there is a flow reversal, at which time the seat disc will close against the seat cartridge, preventing reverse flow. Seat Rings and Seat Discs can be flat lapped to renew tightness.

CK4t STAINLESS STEEL CROSS SECTION AND PARTS LIST



CK4t - FLANGED CHECK VALVE

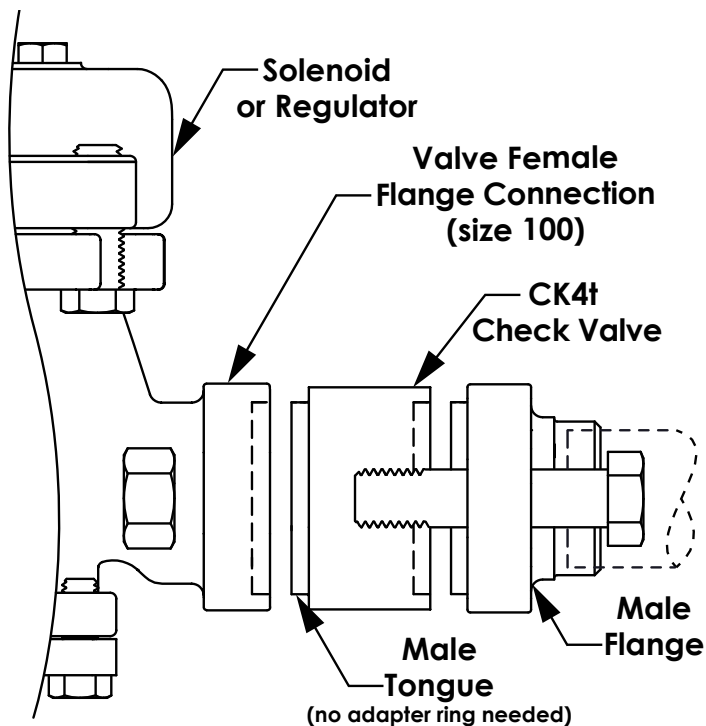
Item	Qty.	Description	Part Number
1	1	Seat Ring (Stainless Steel)	22-0102
2	1	Body/Cartridge Seals	22-0104
3	1	Seat Disc (Stainless Steel)	22-0003
4	1	Body (Stainless Steel)	22-0101
5	1	Closing Spring (Stainless Steel)	22-0004

ORDERING INFORMATION

MODEL	PORT SIZE	FLANGE CONNECTION STYLE & SIZES		
		FPT, SW, BW	ALSO	ODS
CK4-3t	3/4"	3/4"	1", 1 1/4"	7/8"
CK4-4t	1"	1"	3/4", 1 1/4"	1 1/8"
CK4-5t	1 1/4"	1 1/4"	3/4", 1"	1 3/8"

*Specify model & connections when ordering
(Flanges are Stainless Steel HANTEMP nominal 2-Bolt #100)

CK4t COUPLED TO OUTLET OF S4At, A4Kt, or A4Bt (or similar HANTEMP, R/S, or Hansen flanged valves)



Exploded view of connection

PRECAUTIONS

The valves should only be installed, maintained, and serviced by qualified and experienced refrigeration professionals. Before servicing a valve, it should be isolated from the system and all refrigerant evacuated from the piping. Always wear safety glasses. Eyes and lungs are at high risk.

The protective packaging should not be removed until ready for installation to avoid jobsite dirt or damage. Valves should be installed with the directional flow arrow matching the direction of refrigerant flow. Prior to & during welding process, keep dirt from entering the valve.

All HANTEMP Controls products, except electric motors and electric items, are warranted against defects in workmanship and materials for a period of one year from date of shipment from the factory. This warranty is applicable only when products are properly installed and operated in conventional use and service unless an application is approved in writing by HANTEMP Controls.

HANTEMP Controls

33 Chestnut Avenue, Westmont, IL, USA

(630) 537-1049

www.hantempcontrols.com

HANTEMP Controls reserves the right to alter product specifications, materials, and pricing without notice.