

HSC/EHSC-Series Spring Check Valve



Used in sanitary processes to prevent backflow of fluids. The HSC-Series is for vertical applications and the EHSC-Series is for horizontal applications. These valves are certified clean-in-place for sizes 1" thru 4" and clean-out-of-place for sizes 1/2" and 3/4".

They are found in the food processing, beverage, dairy, personal care, winery, brewery, pet product and industrial markets.

Sizes

• 1/2" to 4"

Features

- · Machined from solid bar
- Integrated spider design
- · Standard O-ring and gasket seals

Materials

- · Product contact metal components: 316L stainless steel
- Non-product contact metal components: CF8
- · Product contact seals: EPDM, FKM

Specifications

- · Standard connection: clamp
- · Valve data
 - Maximum pressure: 145 PSI (10 bar)
 - Maximum operating temperature: 200°F (93°C)
 - Minimum operating temperature: 15°F (-9°C)
- Surface finish
 - Product contact metal components: Ra ≤ 32
- Cleaning method
 - CIP models: HSC and EHSC sizes 1" to 4"
 - COP models: HSC and EHSC sizes 1/2" to 3/4"



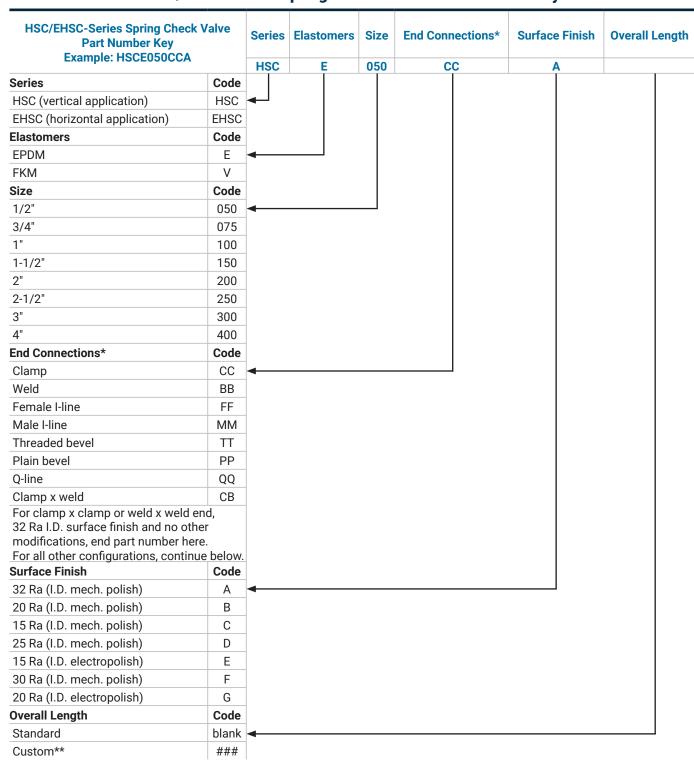
NOTE: Check valves should be sized for the application and not necessarily for the tubing size.

Cracking Pressure Chart

Size	Cracking Pressure (PSIG)
1/2"	10.0
3/4"	4.0
1"	2.5
1-1/2"	1.0
2"	1.5
2-1/2"	0.8
3"	0.5
4"	0.4



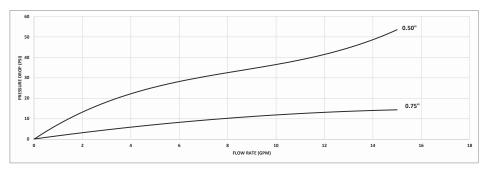
HSC/EHSC-Series Spring Check Valve - Part Number Key

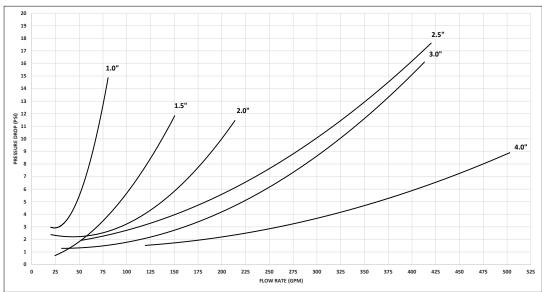


^{*}Lower body connection listed first.

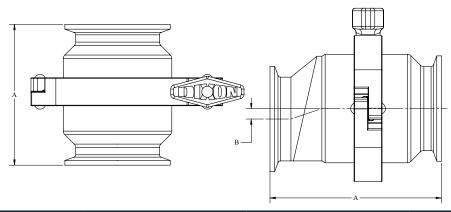
^{**}Enter overall length number, no decimals (e.g. 575 = 5.75 in).

HSC/EHSC-Series Spring Check Valve - Pressure Drop Charts





HSC/EHSC-Series Spring Check Valve - Dimensions

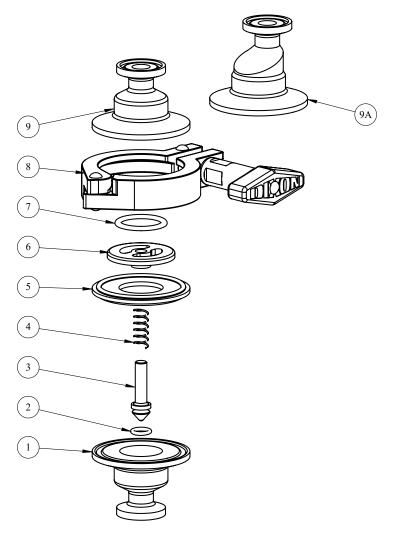


Size	HSC	EH	SC
Size		A	В
1/2"	2.7	3.1	0.3
3/4"	2.7	3.1	0.3
1"	3.3	4.0	0.3
1-1/2"	3.4	3.6	0.3
2"	3.4	4.1	0.3
2-1/2"	3.4	4.0	0.4
3"	3.4	4.0	0.4
4"	4.1	4.7	0.4



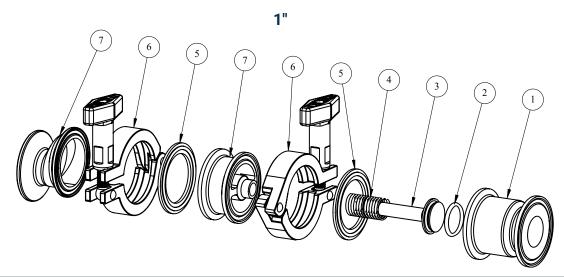
HSC/EHSC-Series Spring Check Valve - Bill of Materials





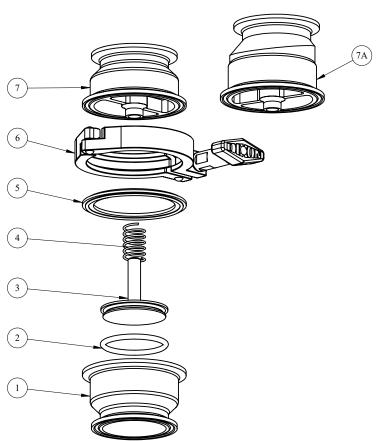
Item # Size	Size Part #	Description	Matarial	Qty		
		Part #	Description	Material	HSC	EHSC
1	1/2"	HSC-LB050	lower body, clamp	316L SS	1	1
ı	3/4"	HSC-LB075	lower body, clamp	316L SS	1	1
2	both	see repair kits	plunger O-ring	see repair kits	1	1
2	1/2"	HSC-P050	plunger	316L SS	1	1
3	3/4"	HSC-P075	plunger	316L SS	1	1
4	1/2"	HSC-SP050	spring	316L SS	1	1
4	3/4"	HSC-SP075	spring	316L SS	1	1
5	both	see repair kits	plunger O-ring	see repair kits	1	1
	1/2"	HSC-S050	spider	316L SS	1	1
6	3/4"	HSC-S075	spider	316L SS	1	1
7	both	see repair kits	spider O-ring	see repair kits	1	1
8	both	13MHHM100-150	clamp	CF8	1	1
0	1/2"	HSC-UB050	concentric upper body, clamp	316L SS	1	-
9	3/4"	HSC-UB075	concentric upper body, clamp	316L SS	1	-
0.4	1/2"	EHSC-UB050	eccentric upper body, clamp	316L SS	-	1
9A	3/4"	EHSC-UB075	eccentric upper body, clamp	316L SS	-	1

EHSC-Series Spring Check Valve - Bill of Materials



Item #	Part #	Description	Material	Qty
1	HSC-LB100	lower body, clamp	316L SS	1
2	see repair kits	plunger O-ring	see repair kits	1
3	HSC-P100	plunger	316L SS	1
4	HSC-SP100	spring	316L SS	1
5	see repair kits	body gasket	see repair kits	2
6	13MHHM100-150	clamp	CF8	2
7	EHSC-UB100	2 pc upper body, clamp	316L SS	1

1" to 4" HSC, 1-1/2" to 4" EHSC

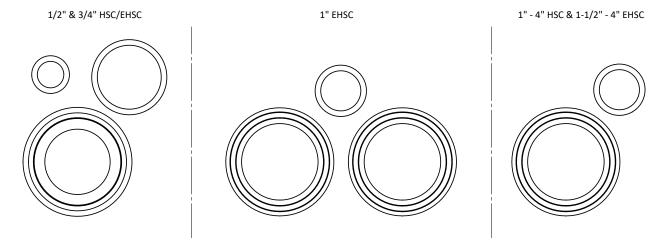




HSC/EHSC-Series Spring Check Valve - Bill of Materials 1" to 4" HSC, 1-1/2" to 4" EHSC

Item #	Size	Part # Description	Description	Material	Qty	
item#			Description		HSC	EHSC
1	1"	HSC-LB100	lower body, clamp	316L SS	1	-
	1-1/2"	HSC-LB150	lower body, clamp	316L SS	1	1
	2"	HSC-LB200	lower body, clamp	316L SS	1	1
	2-1/2"	HSC-LB250	lower body, clamp	316L SS	1	1
	3"	HSC-LB300	lower body, clamp	316L SS	1	1
	4"	HSC-LB400	lower body, clamp	316L SS	1	1
2	all	see repair kits	plunger O-ring	see repair kits	1	1
	1"	HSC-P100	plunger	316L SS	1	-
	1-1/2"	HSC-P150	plunger	316L SS	1	1
3	2"	HSC-P200	plunger	316L SS	1	1
3	2-1/2"	HSC-P250	plunger	316L SS	1	1
	3"	HSC-P300	plunger	316L SS	1	1
	4"	HSC-P400	plunger	316L SS	1	1
4	1'	HSC-SP100	spring	316L SS	1	-
	1-1/2"	HSC-SP150	spring	316L SS	1	1
	2"	HSC-SP200	spring	316L SS	1	1
	2-1/2"	HSC-SP250	spring	316L SS	1	1
	3"	HSC-SP300	spring	316L SS	1	1
	4"	HSC-SP400	spring	316L SS	1	1
5	all	see repair kits	plunger O-ring	see repair kits	1	1
	1"	13MHHM100-150	clamp	316L SS	1	-
	1-1/2"	13MHHM200	clamp	316L SS	1	1
_	2"	13MHHM250	clamp	316L SS	1	1
6	2-1/2"	13MHHV300	clamp	316L SS	1	1
	3"	13MHHM400	clamp	316L SS	1	1
	4"	13MHHM500	clamp	316L SS	1	1
	1"	HSC-UB100	concentric upper body, clamp	316L SS	1	-
	1-1/2"	HSC-UB150	concentric upper body, clamp	316L SS	1	_
_	2"	HSC-UB200	concentric upper body, clamp	316L SS	1	-
7	2-1/2"	HSC-UB250	concentric upper body, clamp	316L SS	1	-
	3"	HSC-UB300	concentric upper body, clamp	316L SS	1	-
	4"	HSC-UB400	concentric upper body, clamp	316L SS	1	-
	1-1/2"	EHSC-UB150	eccentric upper body, clamp	316L SS	-	1
	2"	EHSC-UB200	eccentric upper body, clamp	316L SS	_	1
7A	2-1/2"	EHSC-UB250	eccentric upper body, clamp	316L SS	-	1
	3"	EHSC-UB300	eccentric upper body, clamp	316L SS	_	1
	4"	EHSC-UB400	eccentric upper body, clamp	316L SS	_	1

HSC/EHSC-Series Spring Check Valve - Repair Kits



Series	Elastomer	Size	Part #
		1/2"	HSC-RKE050
		3/4"	HSC-RKE075
		1"	HSC-RKE100
		1-1/2"	HSC-RKE150
	EPDM	2"	HSC-RKE200
		2-1/2"	HSC-RKE250
		3"	HSC-RKE300
1100		4"	HSC-RKE400
HSC		1/2"	HSC-RKV050
		3/4"	HSC-RKV075
		1"	HSC-RKV100
	FIZA	1-1/2"	HSC-RKV150
	FKM	2"	HSC-RKV200
		2-1/2"	HSC-RKV250
		3"	HSC-RKV300
		4"	HSC-RKV400
		1/2"	EHSC-RKE050
		3/4"	EHSC-RKE075
		1"	EHSC-RKE100
	EPDM	1-1/2"	EHSC-RKE150
		2"	EHSC-RKE200
		2-1/2"	EHSC-RKE250
		3"	EHSC-RKE300
EHSC		4"	EHSC-RKE400
EHSC		1/2"	EHSC-RKV050
		3/4"	EHSC-RKV075
		1"	EHSC-RKV100
	FIZA	1-1/2"	EHSC-RKV150
	FKM	2"	EHSC-RKV200
		2-1/2"	EHSC-RKV250
		3"	EHSC-RKV300
		4"	EHSC-RKV400

HSC/EHSC-Series



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Notes	



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DSEPRGHSC_0425_Rev2