



Check Valves

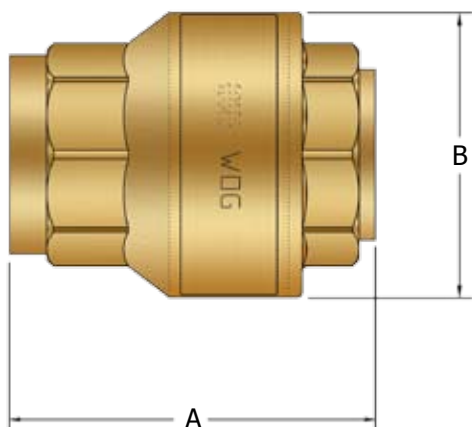


BC SERIES CHECK VALVE



Features:

- Soft Seat Bubble Tight 1/2 psi Cracking Pressure
- NBR Standard (Viton® Optional, use Suffix V)
- Lead Free option, use suffix LF Complies with California AB1953
- Max Working Pressure 1/4" thru 2" 400 psi WOG
- Max Working Pressure 2-1/2" thru 4" 175 psi WOG
- ANSI/NSF 61 Certified (NBR only)
- NBR Temperature Range +10°F to 210°F
- Viton Max Temperature 366°F/125 psi Steam

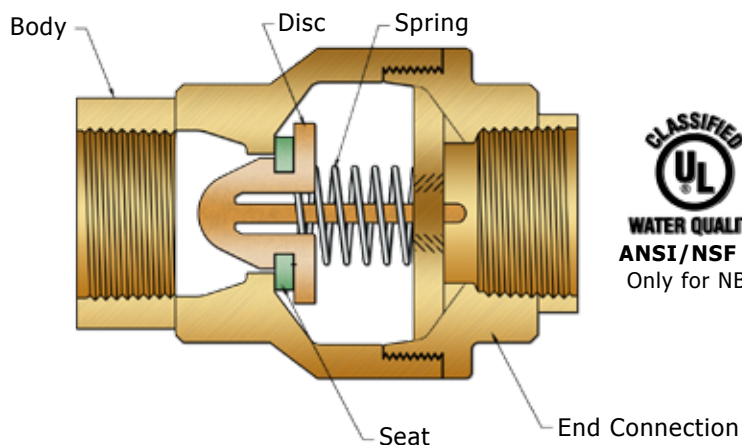


Dimensions

PART #	NPT SIZE	A	B	Cv	Max psi
BC-2	1/4"	1.73	1.06	4.55	400 psi
BC-3	3/8"	1.73	1.06	4.55	
BC-4	1/2"	2.32	1.35	6.00	
BC-6	3/4"	2.56	1.65	11.00	
BC-8	1"	2.76	1.93	16.90	
BC-10	1-1/4"	2.93	2.40	27.40	
BC-12	1-1/2"	3.17	2.87	39.10	
BC-16	2"	3.37	3.46	60.70	175 psi
BC-20	2-1/2"	4.37	4.39	98.40	
BC-24	3"	4.86	5.24	158.0	
BC-32	4"	5.41	6.42	225.4	

Bill of Materials

Material	Description
Body	Brass CW 617
End Connection	UNI EN 12165
Disc	Polyetherimide
Spring	Stainless Steel
Seat	NBR (Viton® Optional)

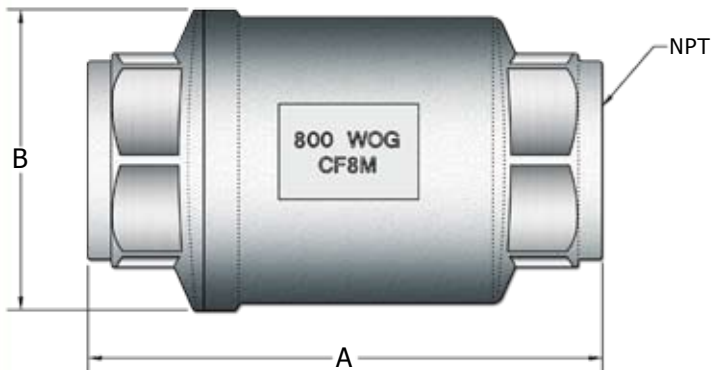


SCI SERIES CHECK VALVE



Features:

- 316 Stainless Steel CF8M
- Soft Seat Bubble Tight 1/2 psi Cracking Pressure
- Max Working Pressure 800 psi WOG
- 125 WSP Saturated Steam
- P.T.F.E., Seat Temperature Range +10°F to 450°F

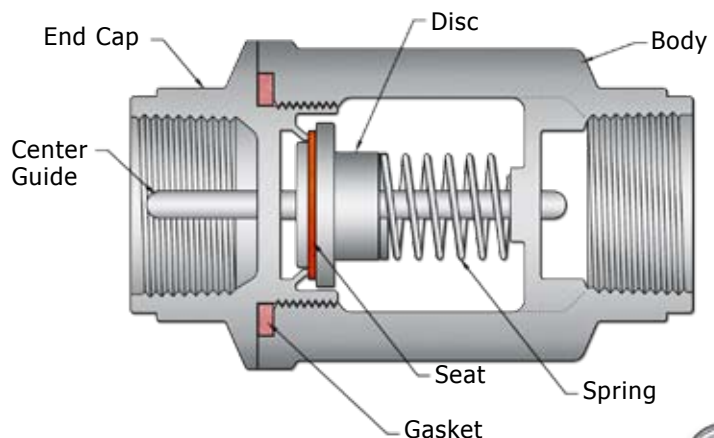


Dimensions

PART #	NPT SIZE	A	B	Cv
SCI-2	1/4"	2.31	1.35	3.5
SCI-3	3/8"	2.31	1.35	3.5
SCI-4	1/2"	2.31	1.35	5.2
SCI-6	3/4"	2.87	1.81	10.0
SCI-8	1"	3.50	2.13	15.0
SCI-10	1-1/4"	4.18	2.46	24.5
SCI-12	1-1/2"	4.93	2.88	35.2
SCI-16	2"	6.00	3.56	52.0

Bill of Materials

Material	Description
Body	ASTM A351-CF8M
Center Guide	
Disc	
End Cap	316 Stainless Steel
Spring	
Seat	
Gasket	
	PTFE





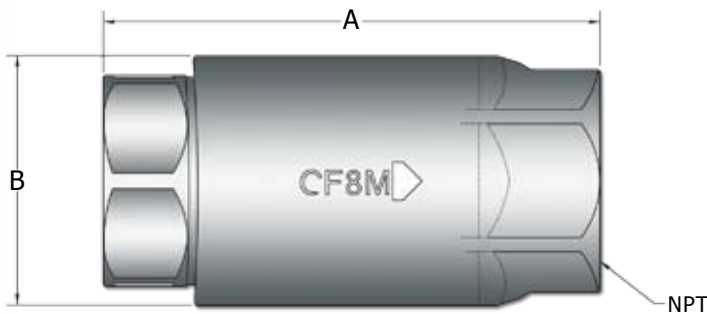
SC SERIES CHECK VALVE



Features:

- 316 Stainless Steel CF8M
- 400 psi WOG, 125 psi WSP
- RTFE Ball Cone Check Valve
- 1/2 psi Cracking Pressure
- Temperature Range -20°F to 350°F

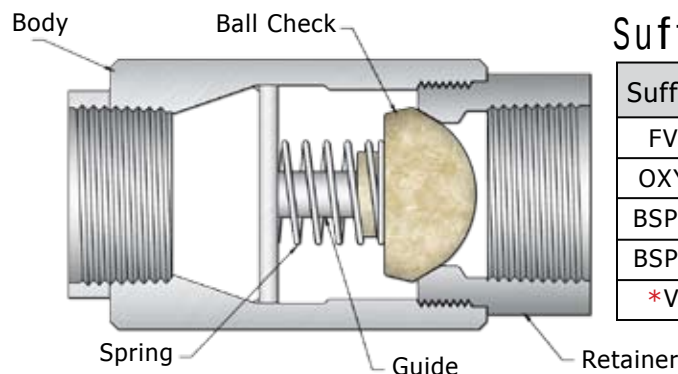
Dimensions



PART #	NPT SIZE	A	B	GPM
SC-2	1/4"	2.06	1.12	0.85
SC-3	3/8"	2.12	1.12	1.21
SC-4	1/2"	2.31	1.12	1.40
SC-6	3/4"	2.87	1.50	3.53
SC-8	1"	3.15	1.93	6.00
SC-10	1-1/4"	4.18	2.37	44.0
SC-12	1-1/2"	4.93	2.81	65.0
SC-16	2"	6.00	3.68	81.0

Bill of Materials

Material	Description
Body	Stainless Steel ASTM A351 CF8M
Retainer (1-1/4" to 2")	
Guide	Stainless Steel ASTM A276 316
Spring	
Retainer (1/4" to 1")	RPTFE (Reinforced Teflon®)
Ball Check	



Suffix for Options

Suffix	Option
FV	Foot Valve Screen
OXY	Oxygen Clean
BSPT	BSPT Threads
BSPP	BSPP Threads
*V	Viton® Seat

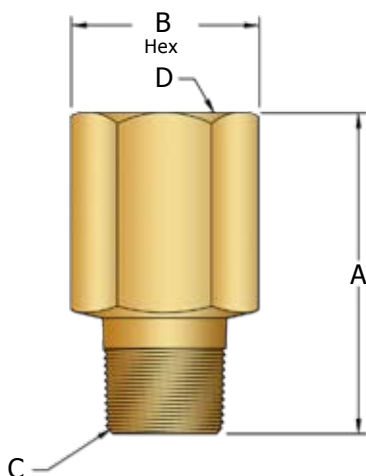
* Note:
For Suffix "V"
Consult Factory

BCMF SERIES CHECK VALVE



Features:

- ASTM B16 Brass Construction
- Precision Custom Cracking Pressure Settings (0.5 - 150 psi)
- Viton Seal Standard, Other Elastomers Available, Consult Factory
- 200 psi Max Working Pressure
- Cracks +/- 5% of Set Pressure
- Working Temperature 0°F to 350°F



Dimensions

PART #	A	B	C & D	Cv
BCMF2-*	1.63	0.75	1/4"	0.25
BCMF3-*	2.12	0.87	3/8"	1.09
BCMF4-*	2.38	1.12	1/2"	1.31
BCMF6-*	2.40	1.25	3/4"	1.37
BCMF8-*	3.61	1.50	1"	2.75

* = Set Pressure

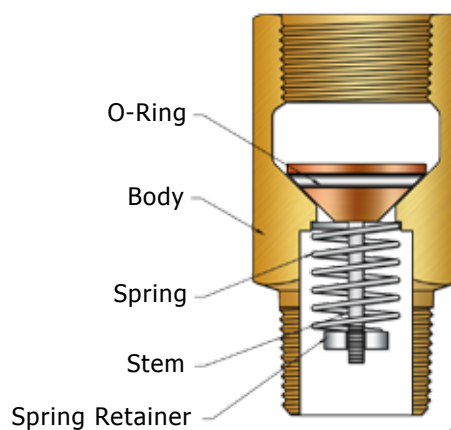
(example: for a 15.5 psi cracking pressure, part# BCMF2-15.5)

Bill of Materials

Material	Description
Body	ASTM B16
Spring	302 Stainless Steel 316 Optional
Stem	ASTM B16
O-Ring	Viton®
Spring Retainer	ASTM B16

Special Options:

SAE
BSPT
BSPP
Oxygen Clean
(consult factory)



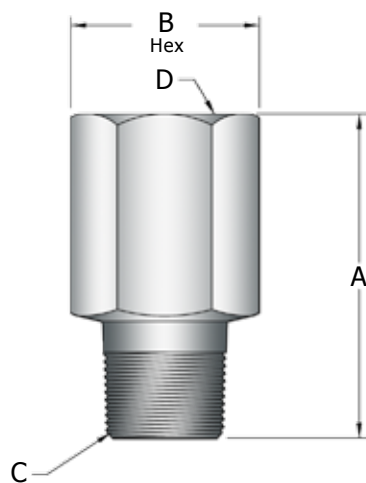


SCMF SERIES CHECK VALVE



Features:

- 316 Stainless Steel Construction
- Precision Custom Cracking Pressure
- Settings (0.5 - 150 psi)
- Viton Seal Standard, Other Elastomers Available, Consult Factory
- 200 psi Max Working Pressure
- Cracks +/- 5% of Set Pressure
- Working Temperature 0°F to 350°F



Dimensions

PART #	A	B	C & D	Cv
SCMF2-*	1.63	0.75	1/4"	0.25
SCMF3-*	2.12	0.87	3/8"	1.09
SCMF4-*	2.38	1.12	1/2"	1.31
SCMF6-*	2.40	1.25	3/4"	1.37
SCMF8-*	3.61	1.50	1"	2.75

* = Set Pressure

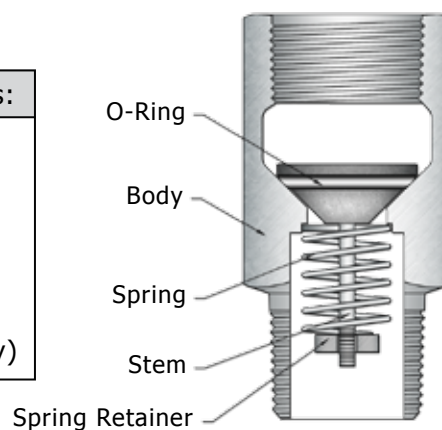
(example: for a 15.5 psi cracking pressure, part# SCMF2-15.5)

Bill of Materials

Material	Description
Body	316 Stainless Steel
Spring	302 Stainless (316 Optional)
Stem	316 Stainless Steel
O-Ring	Viton®
Spring Retainer	316 Stainless Steel

Special Options:

SAE
BSPT
BSPP
Oxygen Clean
Hastelloy
(consult factory)



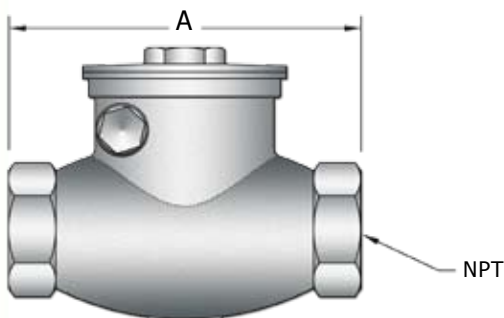
SSWC SERIES CHECK VALVE



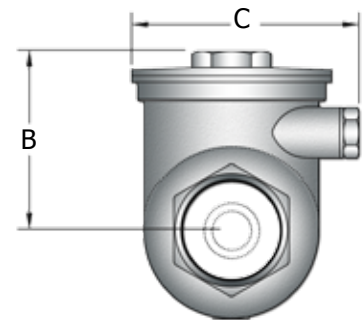
Features:

- ASTM A351 CF8M Stainless Steel
- Metal Seat Design
- Investment Casting
- 200 psi Max Working Pressure
- Working Temperature -4°F to 392°F
- Sizes Available From 1/2" to 3"

Dimensions

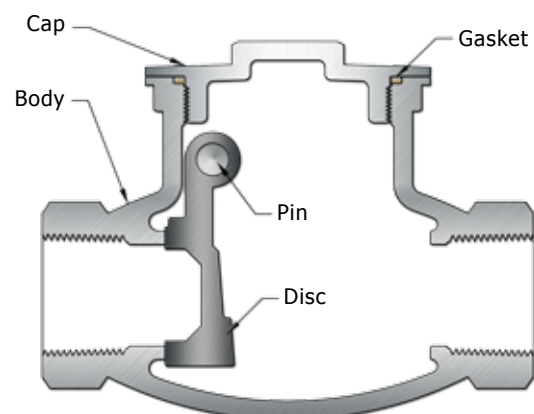


PART #	NPT SIZE	A	B	C
SSWC-4	1/2"	2.56	1.73	1.83
SSWC-6	3/4"	3.15	2.05	2.05
SSWC-8	1"	3.50	2.44	2.20
SSWC-10	1-1/4"	4.13	2.64	2.56
SSWC-12	1-1/2"	4.72	3.11	2.95
SSWC-16	2"	5.47	3.15	3.31
SSWC-20	1-1/2"	7.13	3.78	4.25
SSWC-24	3"	7.87	4.09	5.39



Bill of Materials

Material	Description
Body	ASTM A351-CF8M (Stainless Steel)
Seat	
Cap	
Disc	
Gasket	PTFE
Pin	AISI 304 Stainless





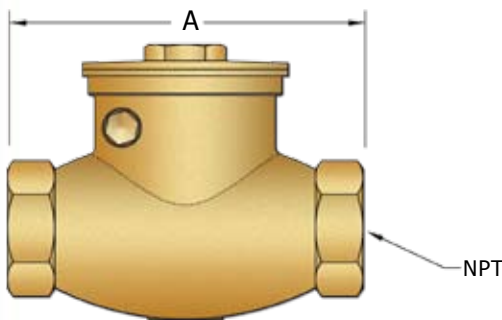
SWC SERIES CHECK VALVE



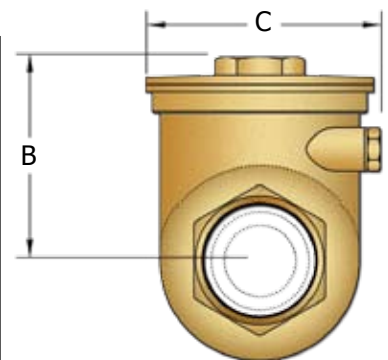
Features:

- All Brass Construction
- Metal Seat Design
- 200 psi Max Working Pressure
- Working Temperature -20°F to 248°F
- Sizes Available From 1/2" to 3"

Dimensions

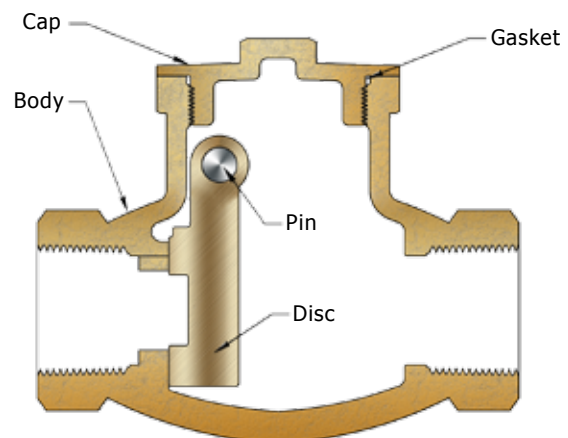


PART #	NPT SIZE	A	B	C
SWC-4	1/2"	2.56	1.73	1.83
SWC-6	3/4"	3.15	2.05	2.05
SWC-8	1"	3.50	2.44	2.20
SWC-10	1-1/4"	4.13	2.64	2.56
SWC-12	1-1/2"	4.72	3.11	2.95
SWC-16	2"	5.47	3.15	3.31
SWC-20	1-1/2"	7.13	3.78	4.25
SWC-24	3"	7.87	4.09	5.39



Bill of Materials

Material	Description
Body	Cast Bronze
Cap	
Disc	
Pin	Stainless Steel
Gasket	PTFE

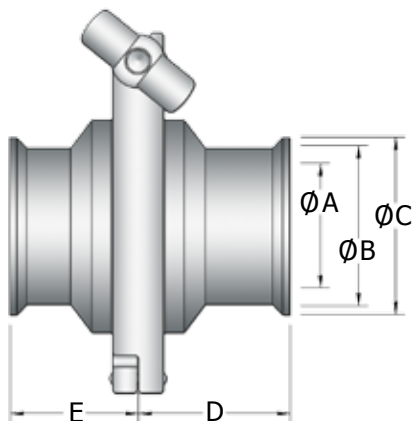


SCTC SERIES CHECK VALVE



Features:

- ASTM 316L Stainless Steel Construction
- Max Working Pressure 150 psi
- Max Working Temperature 250°F
- Sanitary Tri-Clamp Design (Weld in Connection Also Available. Consult Factory)
- Viton® Seal Standard (EPDM available)
- Suitable for Food, Pharmaceutical, Dairy and Other Sanitary Applications
- Sizes Available From 1/2" to 6"

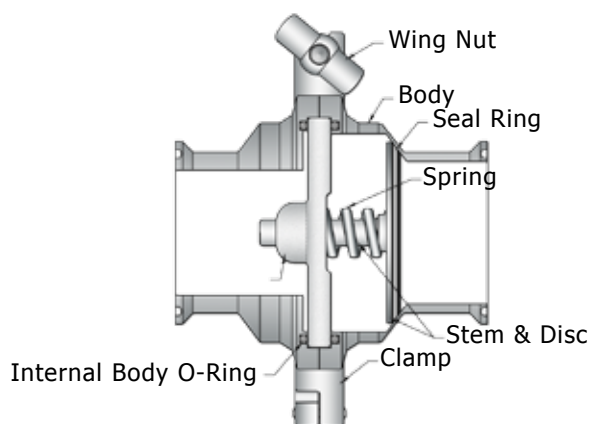


Dimensions

PART #	Ø A	Ø B	Ø C	D	E
SCTC-4	0.37	0.68	1.00	1.10	1.53
SCTC-6	0.62	0.68	1.00	1.10	1.53
SCTC-8	0.87	1.71	1.98	1.65	2.32
SCTC-12	1.37	1.71	1.98	1.65	2.32
SCTC-16	1.87	2.25	2.51	1.65	2.32
SCTC-20	2.37	2.77	3.05	1.65	2.32
SCTC-24	2.87	3.28	3.58	1.65	2.32
SCTC-32	3.81	4.42	4.68	2.32	2.59

Bill of Materials

Material	Description
Body Stem & Disc Wing Nut Clamp Stem Guide	ASTM 316L Stainless Steel
Spring	316 Stainless Steel
Internal Body O-Ring	BUNA
Seal Ring	Viton®





CHC SERIES CHECK VALVE

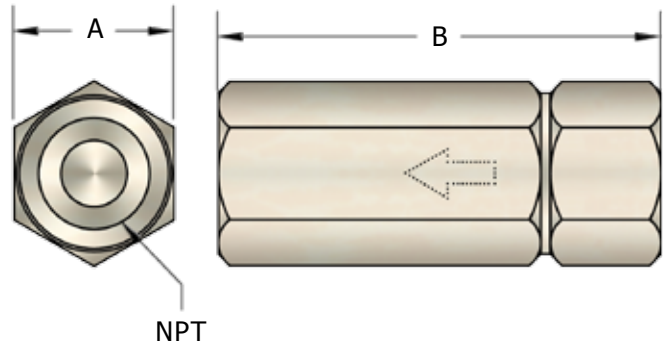


Features:

- Zinc Clear Plated Steel Check Valve
- RoHs Compliant
- Sizes From 1/4" to 2" with 5 or 65 psi Cracking Pressure
- Available in NPT or SAE Connections
- Metal to Metal Seat, Case Hardened Poppet and Guide
- Temperature -40°F to 500°F

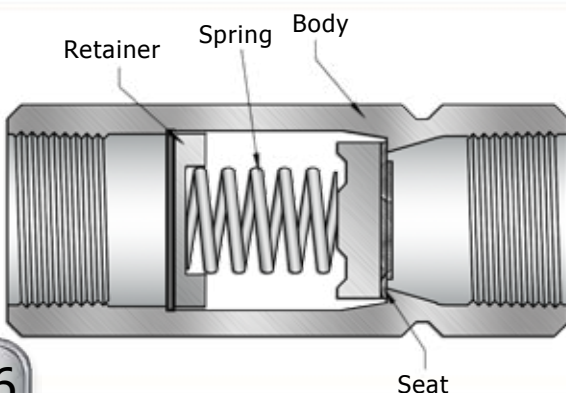
Dimensions

PART #	NPT/SAE	A	B	Psi	Cv
CHC-2-**-	1/4"NPT	2.44	0.87	6000	6
CHC-S4-**-	7/16-20 ORB				
CHC-3-**-	3/8"NPT	2.87	0.95	6000	9.5
CHC-S6-**-	9/16-18 ORB				
CHC-4-**-	1/2"NPT	3.50	1.14	5000	18
CHC-S8-**-	3/4-16 ORB				
CHC-6-**-	3/4"NPT	4.25	1.50	5000	30
CHC-S12-**-	1 1/16-12 ORB				
CHC-8-**-	1"NPT	5.12	1.69	5000	35
CHC-S16-**-	1 5/16-12 ORB				
CHC-10-**-	1-1/4"NPT	5.56	2.40	3000	60
CHC-S20-**-	1 5/8-12 ORB				
CHC-12-**-	1-1/2"	5.56	2.56	3000	90
CHC-S24-**-	1 7/8-12 ORB				
CHC-16-**-	2"	7.91	3.15	3000	145



Note:

** = Cracking Pressure
(5 = 5 Psi, 65 = 65 Psi)



Bill of Materials

Description	Material
Entire Construction	Zinc Plated Steel RoHs Compliant

CHSC SERIES CHECK VALVE

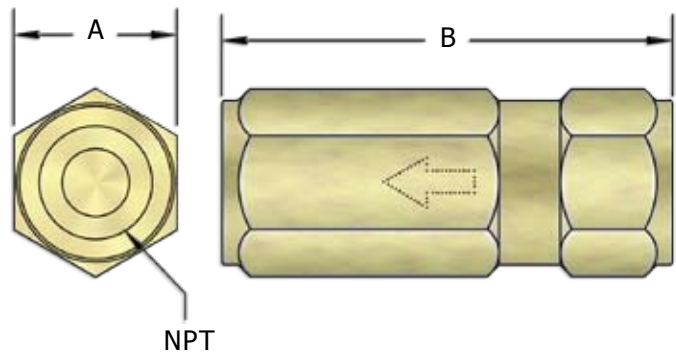


Features:

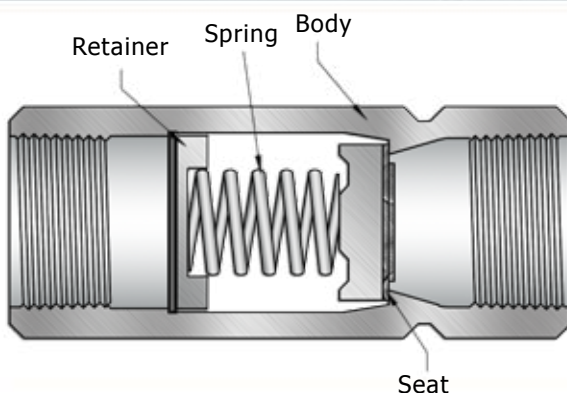
- Zinc Plated Steel Check Valve
- Sizes From 1/4" to 2" with 7 or 70 psi Cracking Pressure
- Available in NPT or SAE Connections
- Buna-N Captive Poppet O-Rings
- Temperature -13°F to 185°F

Dimensions

PART #	NPT/SAE	A	B	Psi	Cv
CHSC-2-**-	1/4"NPT	1.97	0.75	10000	6
CHSC-S4-**-	7/16-20 ORB				
CHSC-3-**-	3/8"NPT	2.36	0.91	10000	9.5
CHSC-S6-**-	9/16-18 ORB				
CHSC-4-**-	1/2"NPT	2.76	1.06	7250	18
CHSC-S8-**-	3/4-16 ORB				
CHSC-6-**-	3/4"NPT	3.39	1.38	7250	30
CHSC-S12-**-	1 1/16-12 ORB				
CHSC-8-**-	1"NPT	3.94	1.62	7250	35
CHSC-S16-**-	1 5/16-12 ORB				
CHSC-10-**-	1-1/4"NPT	5.12	2.17	4350	60
CHSC-S20-**-	1 5/8-12 ORB				
CHSC-12-**-	1-1/2"	5.31	2.56	4350	90
CHSC-S24-**-	1 7/8-12 ORB				
CHSC-16-**-	2"	5.91	2.95	4350	145



Note:
 ** = Cracking Pressure
 (7 = 7 Psi, 70 = 70 Psi)



Bill of Materials

Description	Material
Body	Zinc Plated Steel Body
Retainer	
Spring	
Seat	Buna-N



SHSC SERIES CHECK VALVE

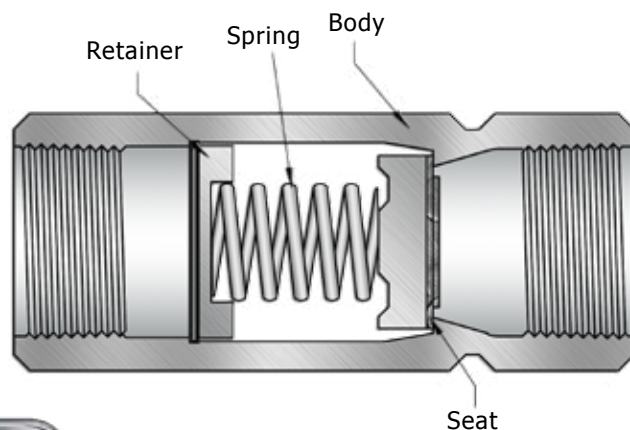
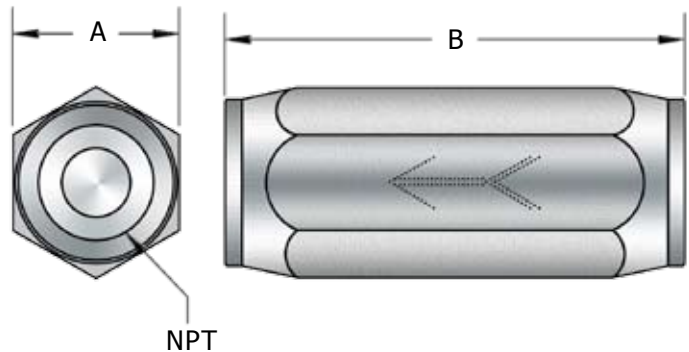


Features:

- 316 Stainless Steel Check Valve
- 7 psi Cracking Pressure
- Available in NPT or SAE Connections
- Viton® Poppet O-Rings
- Temperature -13°F to 392°F

Dimensions

PART #	NPT	A	B	Psi	Cv
SHSC-2-7	1/4"	1.97	0.75	5145	6
SHSC-3-7	3/8"	2.36	0.94	5145	9.5
SHSC-4-7	1/2"	2.56	1.06	5145	18
SHSC-6-7	3/4"	2.95	1.34	4410	30
SHSC-8-7	1"	3.66	1.61	3675	35
SHSC-10-7	1-1/4"	4.33	1.97	3675	60
SHSC-12-7	1-1/2"	4.41	2.17	3675	90
SHSC-16-7	2"	4.72	2.95	2200	145



Bill of Materials

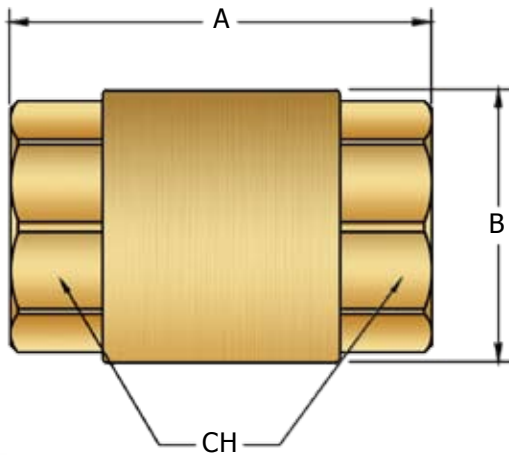
Description	Material
Body	316 Stainless Steel
Retainer	
Spring	302 Stainless Steel
Seat	Viton®

BCS SERIES CHECK VALVE



Features:

- Soft Seat Bubble Tight 1/2 psi Cracking Pressure
- NBR Seat Stainless Steel Spring
- Max Working Pressure 400 psi WOG
- Working Temperature 10°F to 210°F
- Foot Valve Screen Available



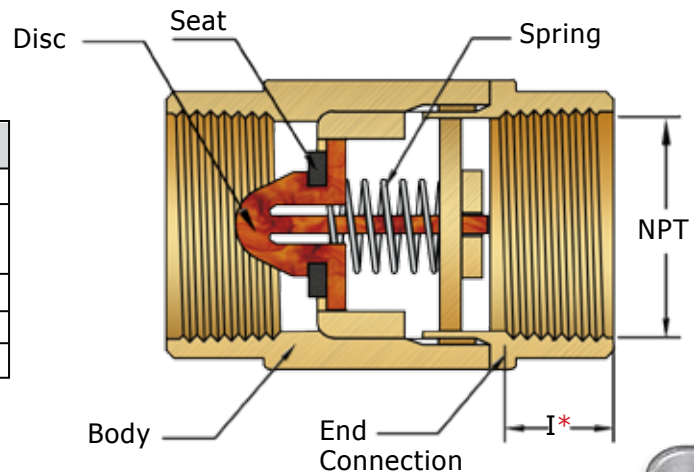
Dimensions

PART #	NPT	A	B	CH	I*	Psi	Cv	Lbs
BCS-4	1/2"	1.74	1.10	0.98	0.47	400	4.50	0.20
BCS-6	3/4"	1.87	1.36	1.22	0.47	400	6.10	0.35
BCS-8	1"	2.20	1.65	1.50	0.57	400	11.00	0.55
BCS-10	1-1/4"	2.44	2.05	1.89	0.63	400	16.90	0.88
BCS-12	1-1/2"	2.75	2.40	2.12	0.71	400	27.40	1.28
BCS-16	2"	3.07	2.87	2.64	0.75	400	39.10	1.94

* = for "I" see drawing below

Bill of Materials

Description	Material
Body	Brass CW 617N UNI EN 12165
End Connection	Brass CW 617N UNI EN 12165
Disc	Polyetherimide
Seat	NBR
Spring	Stainless Steel



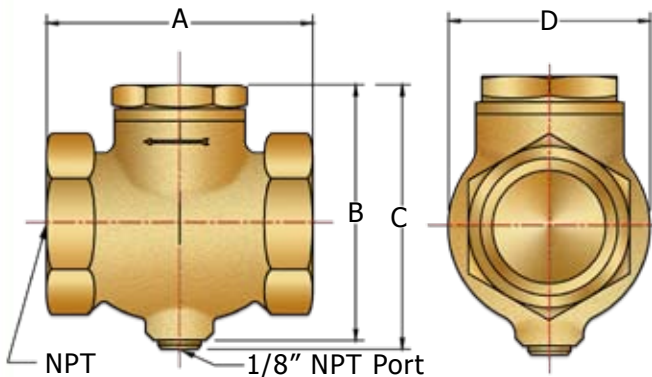


BPC SERIES CHECK VALVE



Features:

- Bronze Piston Check Valve
- 3 psi Cracking Pressure
- 15% Glass Filled Teflon Poppet
- 250 psi Max Working Pressure
- 450°F Max Temperature

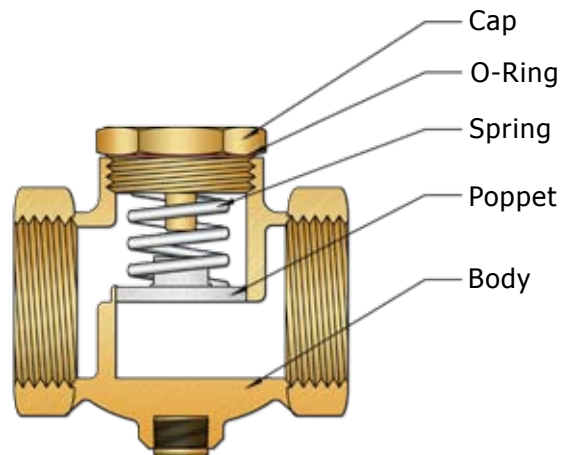


Dimensions

PART #	NPT	A	B	C	D	SCFM@ 100psig	Cv
BPC-1	1/8"	1.76	0.94	1.78	1.04	12	1.41
BPC-2	1/4"	1.78	1.69	1.78	1.04	12	1.41
BPC-3	3/8"	1.85	1.72	1.81	1.13	22	2.59
BPC-4	1/2"	2.28	2.15	2.24	1.44	38	4.15
BPC-6	3/4"	2.54	2.30	2.39	1.62	60	7.33
BPC-8	1"	3.00	2.58	2.68	1.97	115	13.31
BPC-10	1-1/4"	3.60	3.24	3.33	2.38	160	23.06
BPC-12	1-1/2"	3.97	3.34	3.43	2.75	160	23.0
BPC-16	2"	4.91	3.91	4.00	3.32	220	57.0

Bill of Materials

Description	Material
Body	Bronze
Spring	Stainless Steel
Poppet	15%-Glass Filled Teflon®
Cap	C360 Machined Brass
O-Ring	Viton®

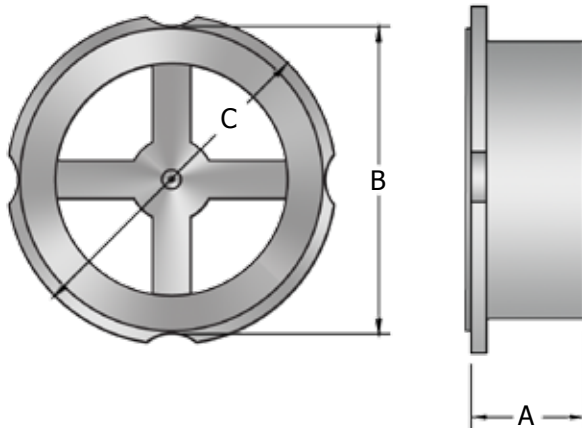


SCFW SERIES CHECK VALVE



Features:

- All 316 Stainless Steel Construction, Other Alloys Available. Consult Factory
- Wafer Style Check fits ANSI class 125FF, 250RF, 150RF and 300RF
- Metal to Metal Seats are Precision Lapped, Resilient Seats Available. Consult Factory
- 1/4 psi Cracking Pressure, Designed to Work in any Position
- Disc Guided by 4 Ribs for Smooth Operation Without Binding
- Standard Working Temperature -40° to 450°F, Wider Temp. Range Available. Consult Factory

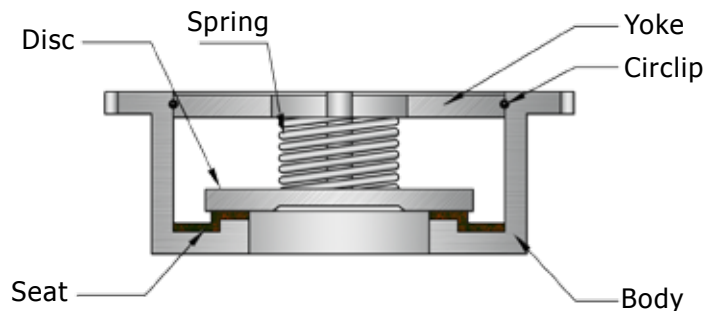


Dimensions

PART #	NPT	A	B	C	Lbs	Cv
SCFW-4	1/2"	0.67	1.69	1.97	0.39	8
SCFW-6	3/4"	0.79	2.09	2.36	0.44	10
SCFW-8	1"	0.91	2.48	2.76	0.55	25
SCFW-10	1-1/4"	1.10	2.99	3.19	1.10	33
SCFW-12	1-1/2"	1.10	3.35	3.58	1.54	40
SCFW-16	2"	1.55	3.74	4.17	2.86	60
SCFW-20	2-1/2"	1.81	4.53	4.96	3.75	70
SCFW-24	3"	1.97	5.20	5.55	6.17	150

Bill of Materials

Description	Material
Body	Stainless Steel A351 GR.CF8M type 316
Yoke	Stainless Steel A351 GR.CF8M type 316
Spring	Series 300 Stainless Steel
Disc	Stainless Steel A351 GR.CF8M
Seat	Stainless Steel A351 GR.CF8M
CirClip	Series 300 Stainless Steel



Universal Components, Inc.

1313 Hall Spencer Road

Rock Hill, SC 29730

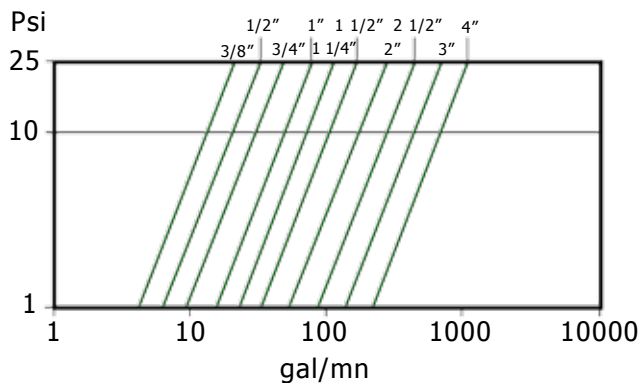
Phone: 803-324-5176

Fax: 803-324-2640

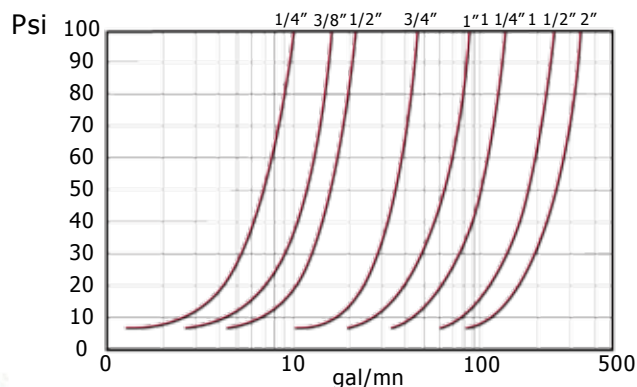
www.ucimfg.com



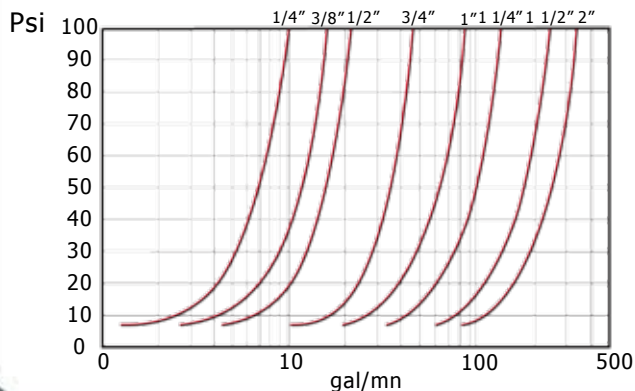
BCS-BC Series Flow Chart



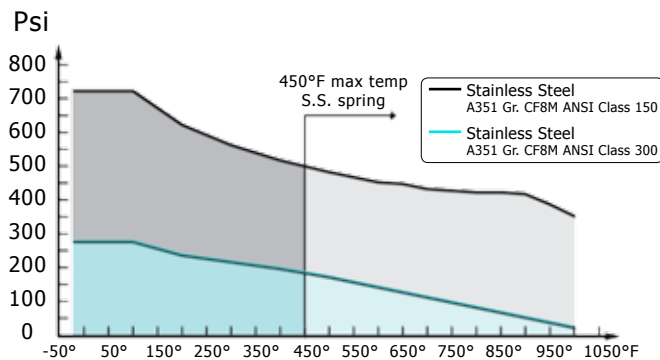
CHC Series Flow Chart



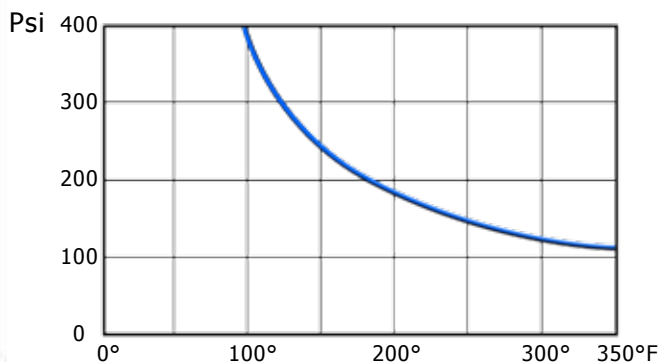
CHSC Series Flow Chart



SCFW Series Temp vs Pressure Chart



SC Series Temp vs Pressure Chart



SHSC Series Flow Chart

