

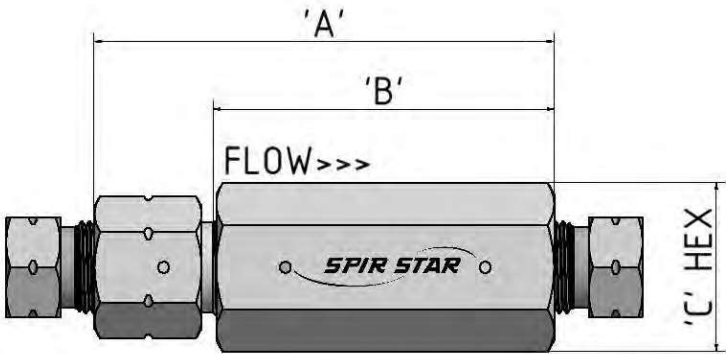
SPIR STAR check valves distinguish themselves by their long useful life and prevent return flow and damage in pressure systems.

In this range of products, SPIR STAR AG offers both ball and O-ring check valves.

While the O-ring check valve is frequently used in gas applications, the ball check valve can often be found in applications with high temperatures and dynamic pressures.

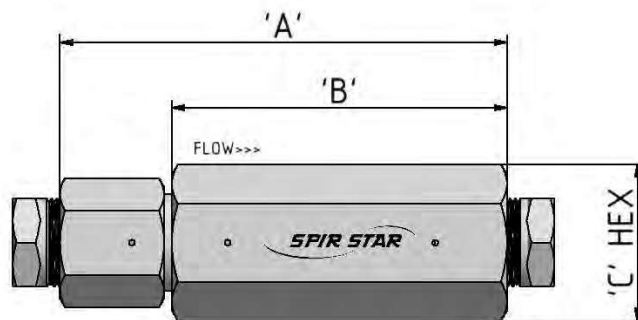
Technical data:

Thread Types:	High-Pressure, Medium-Pressure and NPT		
Valve Types:	Soft Seated Check Valves Ball Seated Check Valves		
Material:	Body: 316 Stainless Steel Sealing: PEEK		
Max. Working Pressure:	4.140 bar // 60.000 psi		
Cracking Pressure:	1 bar // 15 psi		
Temperature:	Soft seated valve HP/MP:	-45°C bis +204 °C	
	Soft seated valve NPT:	-18°C bis +204°C	
	Ball seated valve HP/MP:	-80°C bis +260°C	
	Ball seated valve NPT:	-18°C bis +204°C	



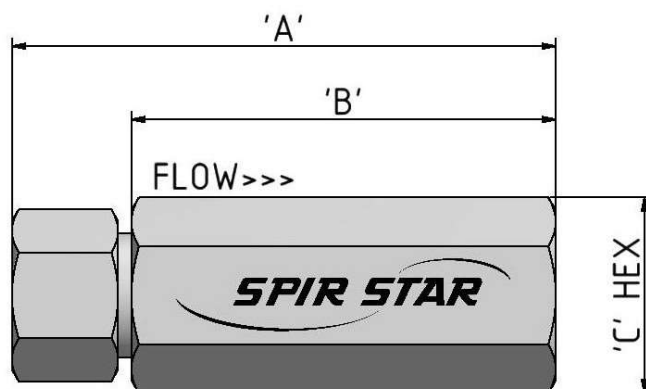
Part Number	Thread	Tube Thread	Screw-in Thread	Orifice		Repair Kit	Suitable Tubing
	Description			mm	inch		
Working pressure 4.140 bar / 60.000 psi							
SS-CVHF4-SS	HF4	1/4"x28UNF LH	9/16"x18UNF	2,388	0,094	RK-CVHF4/HF6SS	TU-HP4-60K
SS-CVHF6-SS	HF6	3/8"x24UNF LH	3/4"-16UNF	3,175	0,125	RK-CVHF4/HF6SS	TU-HP6-60K
SS-CVHF9-SS	HF9	9/16"x18UNF LH	1-1/8"x12UNF	4,775	0,188	RK-CVHF9SS	TU-HP9-60K

Part Number	Unit	Dimensions												
		A	B	C	D1	D2	E	F	G	H	I	J	K	L
SS-CVHF4-SS	mm	82,80	63,50	31,75	-	-	-	-	-	-	-	-	-	-
	inch	3,26	2,50	1,25	-	-	-	-	-	-	-	-	-	-
SS-CVHF6-SS	mm	95,25	69,85	31,75	-	-	-	-	-	-	-	-	-	-
	inch	3,75	2,75	1,25	-	-	-	-	-	-	-	-	-	-
SS-CVHF9-SS	mm	117,60	85,85	38,10	-	-	-	-	-	-	-	-	-	-
	inch	4,63	3,38	1,50	-	-	-	-	-	-	-	-	-	-



Part Number	Thread	Tube Thread	Screw-in Thread	Orifice		Repair Kit	Suitable Tubing
	Description			mm	inch		
Working pressure 1.380 bar / 20.000 psi							
SS-CVMF4-SS	MF4	1/4"x28UNF LH	7/16"-20UNF	3,175	0,125	RK-CVNF4/MF4SS	TU-MP4-20K
SS-CVMF6-SS	MF6	3/8"x24UNF LH	9/16"x18UNF	5,563	0,219	RK-CVNF6/MF6SS	TU-MP6-20K
SS-CVMF9-SS	MF9	9/16"x18UNF LH	13/16"-16UNF	9,119	0,359	RK-CVNF8/MF9SS	TU-MP9-20K
SS-CVMF12-SS	MF12	3/4"x16UNF LH	3/4"x14NPSM	13,106	0,516	RK-CVNF12/MF12SS	TU-MP12-20K
SS-CVMF16-SS	MF16	1"x14UNF LH	1-3/8"x12UNF	17,475	0,688	RK-CVNF16/MF16SS	TU-MP16-20K

Part Number	Unit	Dimensions												
		A	B	C	DI	D2	E	F	G	H	I	J	K	L
SS-CVMF4-SS	mm	77,98	63,50	25,40	-	-	-	-	-	-	-	-	-	-
	inch	3,07	2,50	1,00	-	-	-	-	-	-	-	-	-	-
SS-CVMF6-SS	mm	88,39	66,00	28,70	-	-	-	-	-	-	-	-	-	-
	inch	3,48	2,60	1,13	-	-	-	-	-	-	-	-	-	-
SS-CVMF9-SS	mm	120,90	88,90	35,05	-	-	-	-	-	-	-	-	-	-
	inch	4,76	3,50	1,38	-	-	-	-	-	-	-	-	-	-
SS-CVMF12-SS	mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-	-
	inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-	-
SS-CVMF16-SS	mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-	-
	inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-	-

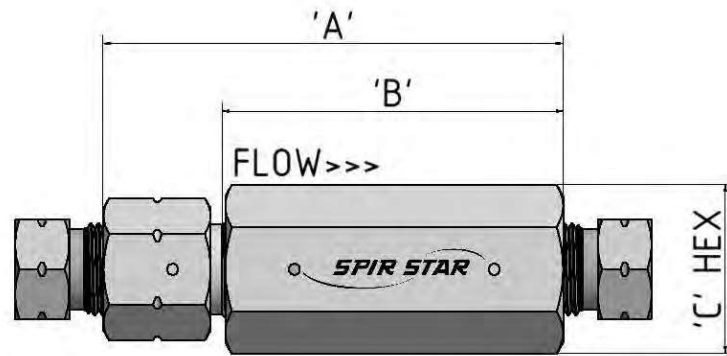


Part Number	Thread Description	Tube Thread	Screw-in Thread	Orifice		Repair Kit	Suitable Tubing
				mm	inch		
Working pressure 690 bar / 10.000 psi							
SS-CVNF12-SS	NF12		3/4"	13,106	0,516	RK-CVNF12/MF12SS	
SS-CVNF16-SS	NF16		1"	17,475	0,688	RK-CVNF16/MF16SS	
Working pressure 1.035 bar / 15.000 psi							
SS-CVNF4-SS	NF4		1/4"	4,775	0,188	RK-CVNF4/MF4SS	
SS-CVNF6-SS	NF6		3/8"	5,563	0,219	RK-CVNF6/MF6SS	
SS-CVNF8-SS	NF8		9/16"	9,119	0,359	RK-CVNF8/MF9SS	

Part Number	Unit	Dimensions												
		A	B	C	DI	D2	E	F	G	H	I	J	K	L
SS-CVNF4-SS	mm	81,28	63,50	25,40	-	-	-	-	-	-	-	-	-	-
	inch	3,20	2,50	1,00	-	-	-	-	-	-	-	-	-	-
SS-CVNF6-SS	mm	90,42	66,00	28,70	-	-	-	-	-	-	-	-	-	-
	inch	3,56	2,60	1,13	-	-	-	-	-	-	-	-	-	-
SS-CVNF8-SS	mm	117,60	88,90	35,10	-	-	-	-	-	-	-	-	-	-
	inch	4,63	3,50	1,38	-	-	-	-	-	-	-	-	-	-
SS-CVNF12-SS	mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-	-
	inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-	-
SS-CVNF16-SS	mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-	-
	inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-	-

Ball Seated-Check Valve

High-Pressure

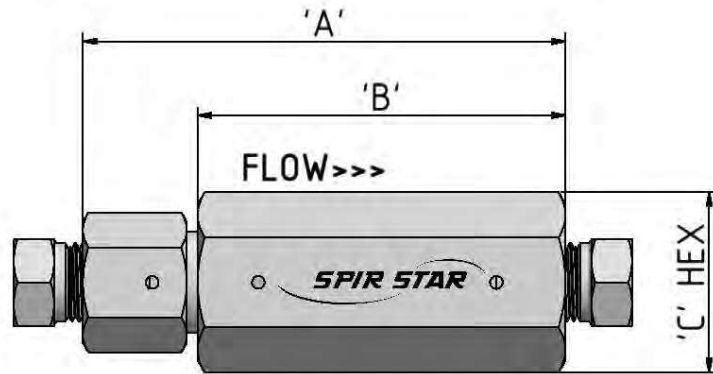


Part Number	Thread Description	Tube Thread	Screw-in Thread	Orifice		Repair Kit	Suitable Tubing
				mm	inch		
Working pressure 4.140 bar / 60.000 psi							
SS-CVHF4-BS	HF4	1/4"x28UNF LH	9/16"x18UNF	2,388	0,094	RK-CVHF4/HF6BS	TU-HP4-60K
SS-CVHF6-BS	HF6	3/8"x24UNF LH	3/4"-16UNF	3,175	0,125	RK-CVHF4/HF6BS	TU-HP6-60K
SS-CVHF9-BS	HF9	9/16"x18UNF LH	1-1/8"x12UNF	4,775	0,188	RK-CVHF9BS	TU-HP9-60K

Part Number	Unit	Dimensions												
		A	B	C	D1	D2	E	F	G	H	I	J	K	L
SS-CVHF4-BS	mm	82,80	63,50	31,75	-	-	-	-	-	-	-	-	-	-
	inch	3,26	2,50	1,25	-	-	-	-	-	-	-	-	-	-
SS-CVHF6-BS	mm	95,25	69,85	31,75	-	-	-	-	-	-	-	-	-	-
	inch	3,75	2,75	1,25	-	-	-	-	-	-	-	-	-	-
SS-CVHF9-BS	mm	117,60	85,85	38,10	-	-	-	-	-	-	-	-	-	-
	inch	4,63	3,38	1,50	-	-	-	-	-	-	-	-	-	-

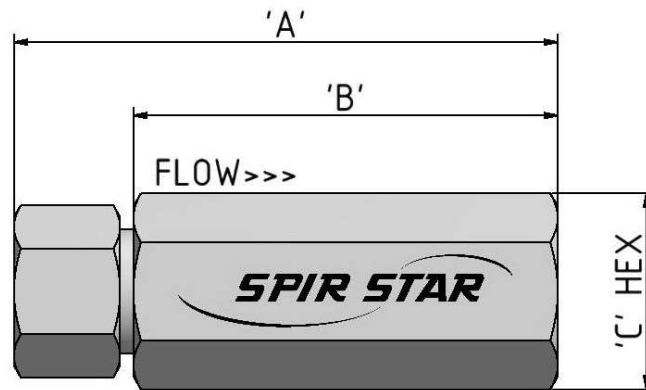
Ball Seated-Check Valve

Medium-Pressure



Part Number	Thread	Tube Thread	Screw-in Thread	Orifice		Repair Kit	Suitable Tubing
	Description			mm	inch		
Working pressure 1.380 bar / 20.000 psi							
SS-CVMF4-BS	MF4	1/4"x28UNF LH	7/16"-20UNF	3,175	0,125	RK-CVNF4/MF4BS	TU-MP4-20K
SS-CVMF6-BS	MF6	3/8"x24UNF LH	9/16"x18UNF	5,563	0,219	RK-CVNF6/MF6BS	TU-MP6-20K
SS-CVMF9-BS	MF9	9/16"x18UNF LH	13/16"-16UNF	9,119	0,359	RK-CVNF8/MF9BS	TU-MP9-20K
SS-CVMF12-BS	MF12	3/4"x16UNF LH	3/4"x14NPSM	13,106	0,516	RK-CVNF12/MF12BS	TU-MP12-20K
SS-CVMF16-BS	MF16	1"x14UNF LH	1-3/8"x12UNF	17,475	0,688	RK-CVNF16/MF16BS	TU-MP16-20K

Part Number	Unit	Dimensions												
		A	B	C	D1	D2	E	F	G	H	I	J	K	L
SS-CVMF4-BS	mm	77,98	63,50	25,40	-	-	-	-	-	-	-	-	-	-
	inch	3,07	2,50	1,00	-	-	-	-	-	-	-	-	-	-
SS-CVMF6-BS	mm	88,39	66,00	28,70	-	-	-	-	-	-	-	-	-	-
	inch	3,48	2,60	1,13	-	-	-	-	-	-	-	-	-	-
SS-CVMF9-BS	mm	120,90	88,90	35,05	-	-	-	-	-	-	-	-	-	-
	inch	4,76	3,50	1,38	-	-	-	-	-	-	-	-	-	-
SS-CVMF12-BS	mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-	-
	inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-	-
SS-CVMF16-BS	mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-	-
	inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-	-



Part Number	Thread	Tube Thread	Screw-in Thread	Orifice		Repair Kit	Suitable Tubing
	Description			mm	inch		
Working pressure 690 bar / 10.000 psi							
SS-CVNF12-BS	NF12		3/4"	13,106	0,516	RK-CVNF12/MF12BS	
SS-CVNF16-BS	NF16		1"	17,475	0,688	RK-CVNF16/MF16BS	
Working pressure 1.035 bar / 15.000 psi							
SS-CVNF4-BS	NF4		1/4"	4,775	0,188	RK-CVNF4/MF4SS	
SS-CVNF6-BS	NF6		3/8"	5,563	0,219	RK-CVNF6/MF6BS	
SS-CVNF8-BS	NF8		9/16"	9,119	0,359	RK-CVNF8/MF9BS	

Part Number	Unit	Dimensions												
		A	B	C	DI	D2	E	F	G	H	I	J	K	L
SS-CVNF4-BS	mm	81,28	63,50	25,40	-	-	-	-	-	-	-	-	-	-
	inch	3,20	2,50	1,00	-	-	-	-	-	-	-	-	-	-
SS-CVNF6-BS	mm	90,42	66,00	28,70	-	-	-	-	-	-	-	-	-	-
	inch	3,56	2,60	1,13	-	-	-	-	-	-	-	-	-	-
SS-CVNF8-BS	mm	117,60	88,90	35,10	-	-	-	-	-	-	-	-	-	-
	inch	4,63	3,50	1,38	-	-	-	-	-	-	-	-	-	-
SS-CVNF12-BS	mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-	-
	inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-	-
SS-CVNF16-BS	mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-	-
	inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-	-