CV1 Check Valves

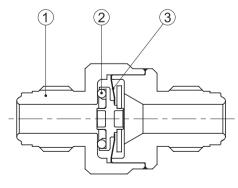


Specifications

Size	1/4"	3/8", 1/2"
Cv Value	0.55	0.7
Max. Working Pressure	206 bar (3	3000 psig)
Nominal Reseal Pressure	0.276 ba	ar (4 psig)
Nominal Cracking Pressure	0.138 ba	ar (2 psig)
Maximum Pressure Drop	10 bar (145 psi)
Working Temp.	-10 ~ 80°C	(14~176°F)
Inboard Leak Test Rates (He) (Holding Time ≥ 15 sec.)	≤1x10 ^{.9}	atm.cc/s
Particle Inspection (EP Only) (0.1µm and Larger)	No c	ount

% BMT CV1 Series Check Valves are designed for directional flow control only. The CV1 Series Check Valve should never be used as safety relief devices.

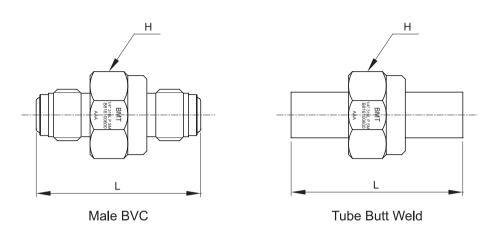
Material



No.	Component	Material
1	Dedu	316L Stainless Steel
I	1 Body	316L Stainless Steel VAR
2	Seal Ring	Viton (standard) / Neoprene
3	Spring	HASTELLOY C-22

·Dimensions and Drawings are for reference only and are subject to change without prior notice.

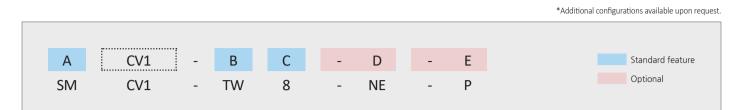
Dimensions



End Connection	Part No.	L	H (Hex.)
Male BVC	SMCV1-VM4	45.8	22
Male BVC	SMCV1-VM8	52.3	27
Tube Butt Weld	SMCV1-TW4	47.8	22
TUDE DULL WEIU	SMCV1-TW8	54.3	27

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Ordering Information



Α	Materials	
	SM	316L Stainless Steel
	DM	316L Stainless Steel VAR
	4SS	304 Stainless Steel

В	Connectio	n Type
	VM	Male BVC (BMT Vacuum Coupling)
	VF	Female BVC (BMT Vacuum Coupling)
	S	SUPERLOK Tube Fitting
	TW	Butt Weld
	VMXVF	In Male-Out Female

D	Seat Mate	erial
	Viton is Stand	dard. No part designator needed
	NE	Neoprene
Е	Wetted Su	urface Grade
	BA is standar	d. No part designator needed.

L .	vvelleu	buildee Graue
	BA is stand	ard. No part designator needed.
	Р	EP
	MP	MP
	AP	AP

С	Connectio	n Size		
	ASTM Tube			
	Designator	Nominal Size	Outside Diameter	Wall Thickness
	4	1/4 in.	6.35 mm	1.00 mm
	8	1/2 in.	12.7 mm	1.24 mm

Part Number Examples

	SMCV1-VM4-P		DMCV1-TW8-NE	
Material	SM	316L Stainless Steel	DM	316L Stainless Steel VAF
Series	CV1	CV1 series	CV1	CV1 series
Operation Method		Omit for Manual Valves		Omit for Manual Valves
Connection Type	VM	BVC Male	TW	Butt Weld
Connection Size	4	1/4"	8	1/2"
Flow Path		Omit for CV1 series		Omit for CV1 series
Seal Material		Viton (standard)	NE	Neoprene
Grade	Р	EP grade		BA grade (standard)

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