

11. Cartridges & Seat Valves

Series	Function	Model	Size	Flow (GPM)		Max. Pressure (PSI)	Subplate mounted	Threaded Body	SAE flange mounted	Cartridge	Page
				Nominal	Maximum						
CVD CVC	Relief (DIN 24342)	CVD05	NG16	40	53	5000	-	-	-	●	11 - 2
		CVD08	NG25	53	79	5000	-	-	-	●	
		CVD10	NG32	119	159	5000	-	-	-	●	
CUD CUC	Unload (DIN 24342)	CUD08	NG25	53	79	5000	-	-	-	●	11 - 3
		CUD10	NG32	119	159	5000	-	-	-	●	
C1D C1C	Seat Valve on/off (DIN 24342)	C1D05	NG16	40	53	5000	-	-	-	●	11 - 4
		C1D08	NG25	82	106	5000	-	-	-	●	
		C1D10	NG32	132	198	5000	-	-	-	●	
		C1D12	NG40	251	330	5000	-	-	-	●	
		C1D16	NG50	449	661	5000	-	-	-	●	
		C1D20	NG63	753	1057	5000	-	-	-	●	
		C1D24	NG80	1110	1585	5000	-	-	-	●	
		C1D32	NG100	1744	2642	5000	-	-	-	●	
CAR	Seat Valve on/off	CAR4	½"	40	48	5000	-	-	-	●	11 - 6
		CAR2	1 ½"	119	159	5000	-	-	-	●	
D4S	Seat Valve on/off	D4S03	⅜"	40	48	5000	●	●	-	-	11 - 7
		D4S06	¾"	71	95	5000	●	●	-	-	
		D4S10	1 ¼"	119	159	5000	●	●	-	-	
D5S	Seat Valve on/off (2 ports)	D5S06	¾"	40	48	5000	-	-	●	-	11 - 8
		D5S08	1"	71	95	5000	-	-	●	-	
		D5S10	1 ¼"	119	159	4000	-	-	●	-	
	Seat Valve on/off (3 ports)	D5S06	¾"	40	48	5000	-	-	●	-	
		D5S08	1"	71	95	5000	-	-	●	-	
		D5S10	1 ¼"	119	159	4000	-	-	●	-	
		D5S12	1 ½"	159	211	3000	-	-	●	-	



C1D & C1C Series DIN Cartridge - Seat Valve (Cavity DIN 24342)

53 - 2642 GPM - 5000 PSI

CartridgeExample : C1D08-01-6-A1

1. **C1D08-01-6-A1** Series

NG size	16	25	32	40	50	63	80	100
Nominal (GPM)	40	82	132	251	449	753	1110	1744
Max. (LGPM)	53	106	198	330	661	1057	1585	2642
Series	C1D 05	C1D 08	C1D 10	C1D 12	C1D 16	C1D 20	C1D 24	C1D 32

2. **C1D08-01-6-A1** Poppet ratio (Aa :Ax)

Type	Code	Ratio	NG					Ratio	NG		
			16	25	32	40	50		63	80	100
Standard	01	1:1.00	●	●	●	●	●	1:1.00	●	●	●
	02	1:1.07	●	●	●	●	●	1:1.04	●	-	-
	03	1:1.50	●	●	●	●	●	1:1.67	●	●	●
Damping	12	1:1.07	●	●	●	●	●	-	-	-	-
	13	1:1.50	●	●	●	●	●	1:1.67	●	●	●
End pos. ctrl	43	1:1.50	●	●	●	●	●	-	-	-	-

3. **C1D08-01-6-A1** Cracking Pressure (PSI)

Size	Poppet Ratio	01	02 / 12		03 / 13 / 43	
	Code	A→B	A→B	B→A	A→B	B→A
NG16 NG25 NG32 NG40 NG50	1	5	5	73	7	15
	2	10	10	148	15	29
	3	24	26	326	36	73
	4	34	36	519	51	102
	5	48	52	741	73	145
	6	58	-	-	-	-
NG63 NG80 NG100	A	7	8	-	12	18
	B	23	24	-	39	58
	C	58	60	-	96	145

4. **C1D08-01-6-A1** Design

C1D05...16 (NG16...50)	A
C1D20...32 (NG63...100)	B

5. **C1D08-01-6-A1** Seal Class

Buna N : mineral oil	1
Viton : mineral oil & fire resistant fluid	5

Control Cap¹ . Example : C1C08-03-B00-P08-T00-A1

1. **C1C08-03-B00-P08-T00-A1** Series

NG Size	16	25	32	40	50	63	80	100
Series	C1C 05	C1C 08	C1C 10	C1C 12	C1C 16	C1C 20	C1C 24	C1C 32

2. **C1C08-03-B00-P08-T00-A1** Control Cover

3. **C1C08-03-B00-P08-T00-A1** Orifice Position

4. **C1C08-03-B00-P08-T00-A1** Orifice Size

in	None	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.10	0.12
Code	00	08	10	12	14	16	18	20	25	30

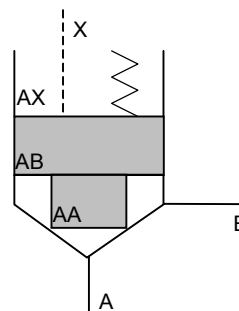
5. **C1C08-03-B00-P08-T00-A1** Design

C1C05...16 (NG16...50)	A
C1C20...32 (NG63...100)	B

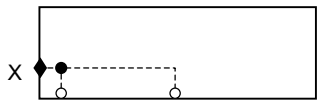
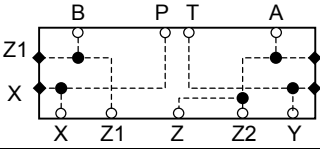
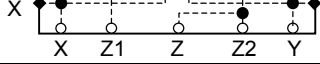
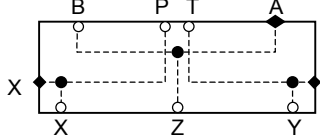
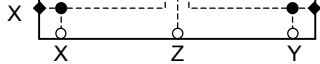
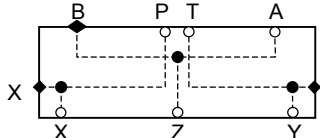
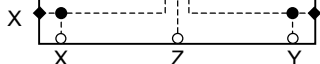
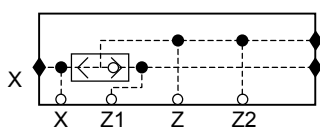
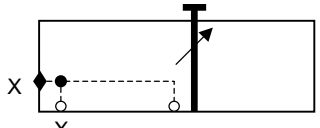
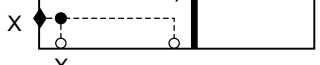
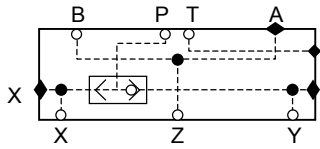
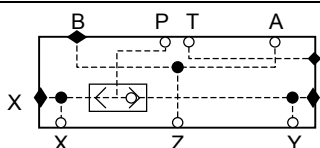
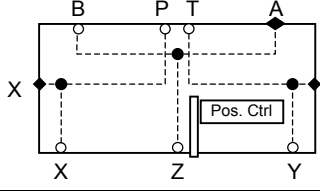
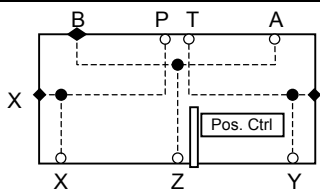
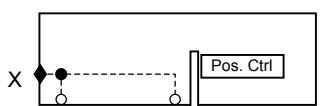
6. **C1C08-03-B00-P08-T00-A1** Seal Class

Buna N : mineral oil	1
Viton : mineral oil & fire resistant fluid	5

C1D :



¹ Mounting bolts included. See technical leaflet for details.

Control Cover Type			Codification	NG**							
				16	25	32	40	50	63	80	100
Direct	-		C1C**-02-X**-A1	✓	✓	✓	✓	✓	✓	✓	✓
Directional Valve Mounting	Std		C1C**-13-A**-B**-P**-T**-A1		✓	✓	✓	✓			
			C1C**-14-A**-B**-P**-T**-A1						✓	✓	✓
	Plug in A		C1C**-03-B**-P**-T**-A1		✓	✓	✓	✓			
			C1C**-05-B**-P**-T**-A1						✓	✓	✓
	Plug in B		C1C**-04-A**-P**-T**-A1		✓	✓	✓	✓			
			C1C**-06-A**-P**-T**-A1						✓	✓	✓
Internal Shuttle Valve	-		C1C**-08-X**-Z1**-Z2**-A1	✓	✓	✓	✓	✓			
Stroke Limiter	Hard Knob		C1C**-10-X**-A1	✓	✓	✓	✓	✓			
	Screw		C1C**-09-X**-A1						✓	✓	✓
Directional Valve Mounting + Shuttle Valve	Plug in A		C1C**-15-B**-P**-T**-X**-Z1**-A1	✓	✓	✓	✓				
	Plug in B		C1C**-16-A**-P**-T**-X**-Z1**-A1	✓	✓	✓	✓				
Directional Valve Mounting + Position Control with Amplifier	Plug in A		C1C**-17-B**-P**-T**-A1	✓	✓	✓	✓				
	Plug in B		C1C**-18-A**-P**-T**-A1	✓	✓	✓	✓				
Direct + Position Control with Amplifier			C1C**-08-X**-A1	✓	✓	✓	✓	✓			