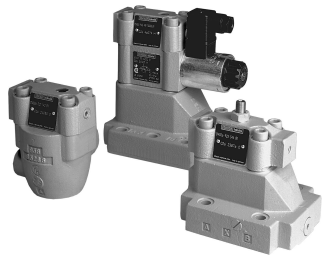


11. Cartridges & Seat Valves

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	-	-	●	-	



D4S Series Seat Valve

159 GPM - 5000 PSI max.

Key sheet Example : **D4S06-712-344-11G0Q-B1**

1. **D4S06-712-344-11G0Q-B1** Series

Size	3/8"	1/2"	1 1/2"
Nominal flow (GPM)	40	71	119
Maximum flow (GPM)	48	95	159
Series	D4S03	D4S06	D4S10

2. **D4S06-712-344-11G0Q-B1** Body mounting

	G				SAE			
D4S	03	06	10		03	06	10	
Y1 port size	1/2"	1"	3/4"	1 1/4"	8	16	12	20
Threaded body	6 (T-body)				4 (T-body)			
Subplate	D (L-body)				B (L-body)			
	9 (G 1/4")				7 (SAE-4)			

3. **D4S06-712-344-11G0Q-B1** Pilot Line (body)

D4S type	Subplate	Threaded	Code	A-X	B-Y
Internal from A	✓	✓	1	●	○
External from X	✓	✓	2	○	●
For Internal from A	✓		A	●	●
VV01 External from X	✓		B	●	●
Internal from A & B	✓		C	○	○
Internal from B	✓		D	●	○
External from Y	✓		G	●	●

4. **D4S06-712-344-11G0Q-B1** Pilot Line (cap)

	Code	Orifices					
		X	Y	Z	X-Y	Y1	
PP = PD	1		●	○	○	●	
External from cap (VV01)	2		○	○	●	○	
PP = PD (stroke limiter)	3	○	●				
	4	●	○				
External PD from Subplate	5		○	○	●	●	
Internal PD	6		○	○	●	●	
PP = PD	C	●	○	○	○	○	●

PP : Pilot Pressure. PD : Pilot Drain
 ● : 0.05" orifice. ○ : Open bore. ○ : Close bore.

5. **D4S06-712-344-11G0Q-B1** Sleeve

AA = 95%, AB = 5%	1
AA = 60%, AB = 40%	3

6. **D4S06-712-344-11G0Q-B1** Spool

	Code	Sleeve
Closed bottom, 15 ° chamfer	1	1
D4S03 : 0.03" orifice, 15 ° chamfer	2	
D4S06/10 : 0.05" orifice, 15 ° chamfer	4	
Closed bottom & 45 ° chamfer	4	3
Safety spool (for end position control)	A	
D4S06/10 & sleeve 3	B	
Throttle spool, 3 ° chamfer	C	

7. **D4S06-712-344-11G0Q-B1** Cracking pressure

Pressure (PSI)	Sleeve 1		Sleeve 3			
	A → B		A → B		B → A	
Code	D4S03	D4S06 D4S10	D4S03	D4S06 D4S10	D4S03	D4S06 D4S10
1	41	51	94	94	138	160
2	7	7	15	15	22	25
3	4	4	9	9	13	15
4	32	32	58	51	80	87
5	-	131	-	232	-	406
6	17	17	29	32	44	55
7	44	-	116	-	174	-

8. **D4S06-712-344-11G0Q-B1** Accessories

Electrical Venting (VV01)	Normally opened	09
	Normally closed	11
Others (shuttle valve,...)		Denison
No venting		Omit

9. **D4S06-712-344-11G0Q-B1** Voltage

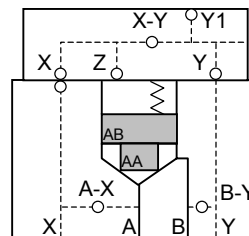
Electrical venting	DC		AC		
	12 V	GOR	115 V	60 Hz	W01
				50 Hz	W06
	24 V	GOQ	230 V	60 Hz	W02
				50 Hz	W07
No venting		Omit			

10. **D4S06-712-344-11G0Q-B1** Design letter

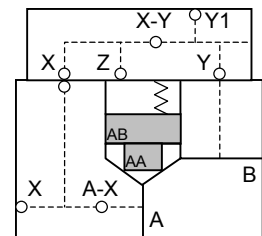
11. **D4S06-712-344-11G0Q-B1** Seal class

Buna N : Mineral oil	1
Others	Denison Hydraulics

Orifices : subplate mounting



Orifices : threaded body



Spool & Sleeve selection table

Function	Type	
Directional & Flow Control	A → B	D4S◆◆◆◆◆-144-...
	A → B or B → A	D4S◆◆◆◆◆-344-...
Pressure control	-	D4S◆◆◆◆◆-114-...
Flow control	Spool B (10 °)	D4S◆◆◆◆◆-3B◆-...
	Spool C (3 °)	D4S◆◆◆◆◆-3C◆-...
Pressure Unloading	-	D4S◆◆◆◆◆-124-...
Check Valve	Direct	D4S◆◆◆◆◆-14◆-...
	Pilot operated	D4S◆◆◆◆◆-34◆-...