

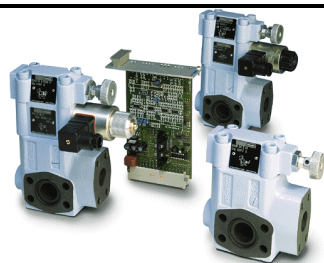
5. Pressure Control Valves

Series	Function	Model	Size	Max. Flow (GPM)	Max. Pressure (PSI)	Mounting					Page
						Subplate mounted	Threaded Body	Cartridge	SAE flange mounted	Panel mounted	
R1E02	Remote Control	R1E02	1/4"	1	5000	●		●		●	5 - 3
R4 Series	Relief	R4V03	3/8"	24	5000	●	●	●			5 - 4
		R4V06	3/4"	79	5000	●	●	●			
		R4V10	1 1/4"	159	5000						
	Unload	R4U03	3/8"	24	5000	●	●	●			
		R4U06	3/4"	79	5000						
		R4U10	1 1/4"	159	5000						
	Reducing	R4R03	3/8"	24	5000	●	●	●			
		R4R06	3/4"	79	5000						
		R4R10	1 1/4"	159	5000						
	Sequence	R4S03	3/8"	24	5000	●	●	●			
		R4S06	3/4"	79	5000						
		R4S10	1 1/4"	159	5000						
R5 Series 3 ports	Relief	R5V06	3/4"	24	5000				●		5 - 6
		R5V08	1"	79	5000						
		R5V10	1 1/4"	159	4500						
		R5V12	1 1/2"	159	3000 / 6000						
	Unload	R5U06	3/4"	24	5000				●		
		R5U08	1"	79	5000						
		R5U10	1 1/4"	159	4500						
		R5U12	1 1/2"	159	3000 / 6000						
	Sequence	R5S06	3/4"	24	5000				●		
		R5S08	1"	79	5000						
		R5S10	1 1/4"	159	4500						
	Compensator ¹	R5P06	3/4"	24	5000				●		
		R5P08	1"	79	5000						
		R5P10	1 1/4"	159	4500						
R5 Series 2 ports ²	Relief Sequence Reducing Compensator	R5V** R5S** R5R** R5A**	3/4" : 1 1/4"	24 : 159	5000				●		Denison

¹ R5P 3-port compensator : to be used with F5C. Refer to proportional flow-control valve (section 10.).

² R5A 2-port compensator : to be used with F5C. Refer to proportional flow-control valve (section 10.).
Other 2-port versions : consult Denison Hydraulics for details.

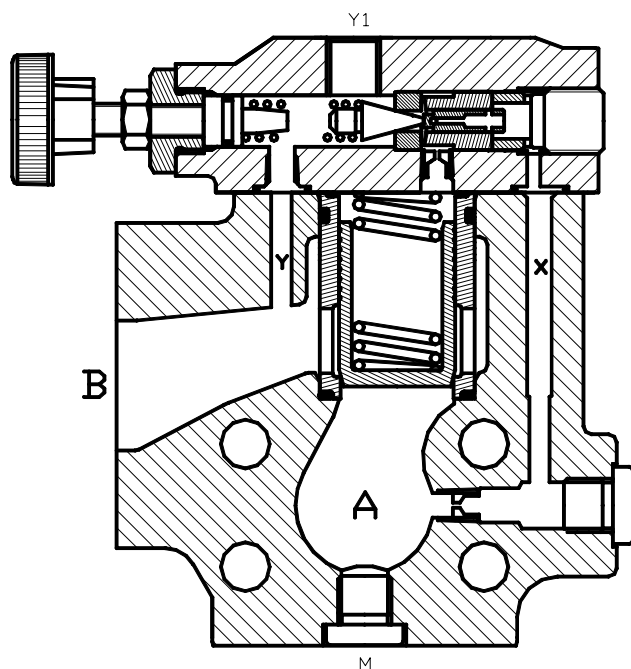
Model	Size	Max. Pressure (PSI)	Weight (lbs)	Maximum flow (GPM)	Page
R1E02				0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4	5 - 3
R1E02	1/4"	5000	4.6	1.0	
R4 Series				0 25 50 75 100 125 150 175	5 - 4
R4♦03	3/8"	5000	6.0	23.8	
R4♦06	3/4"	5000	9.9	79.3	
R4♦10	1 1/4"	5000	13.2	158.5	
R5 Series - 3 ports				0 25 50 75 100 125 150 175	5 - 6
R5♦06	3/4"	5000	7.9	23.8	
R5♦08	1"	5000	10.1	79.3	
R5♦10	1 1/4"	4500	11.5	158.5	
R5♦12	1 1/2"	3000 6000	17.6	158.5	



(R5V shown)

R5 Series - 3 ports Flange mounting

24 - 79 - 159 GPM - 5000 PSI



(R5V shown)

Key Sheet Example : R5V06-535-12-09-GOR-A1

1. R5V06-535-12-09-GOR-A1-*** Series

Size	3/4"	1"	1 1/4"	1 1/2"
Relief	R5V06	R5V08	R5V10	R5V12
Unload	R5U06	R5U08	R5U10	R5U12
Sequence	R5S06	R5S08	R5S10	
Compensator	R5P06	R5P08	R5P10	

2. R5V06-535-12-09-GOR-A1-*** Max. Pressure

	R5♦06	R5♦08	R5♦10	R5♦12
SAE 61	3000 PSI			3
	4500 PSI		4	
	5000 PSI	5	5	
SAE 62	6000 PSI			6

3. R5V06-535-12-09-GOR-A1-*** X1, Y1, M Ports

G 1/4"	9
SAE-4	3

4. R5V06-535-12-09-GOR-A1 Setting Range

	SAE-61				SAE-62
	R5♦06	R5♦08	R5♦10	R5♦12	R5V12
100-1500 PSI			1		1
100-3000 PSI			3		3
100-5000 PSI			5		6

5. R5V06-535-12-09-GOR-A1-*** Control

Knob Ø 1.26"	1
Acorn	3

6. R5V06-535-12-09-GOR-A1-*** Pilot ports

Drain	Pilot	R5V	R5U	R5S	R5P
Internal		2			2
External			4		4
Internal	External		5		5
External	Internal	6		6	6

7. R5V06-535-12-09-GOR-A1-*** Electrical venting

	R5V	R5U	R5S	R5P
Normally opened (VV01)				09
Normally closed (VV01)				11
Proportional (VP01)	P2	-	-	P2
No venting				Omit

8. R5V06-535-12-09-GOR-A1-*** Voltage

	DC		AC		
Electrical venting (option 09 - 11)	12 V	GOR	115 V	60 Hz	W01
				50 Hz	W06
Proportional (P2) ¹ R5V & R5P only	24 V	GOQ	230 V	60 Hz	W02
				50 Hz	W07
No venting	12 V	GOR			-
					Omit

9. R5V06-535-12-09-GOR-A1-*** Design

10. R5V06-535-12-09-GOR-A1-*** Seal Class

Buna N : Mineral oil	1
Others	Denison Hydraulics

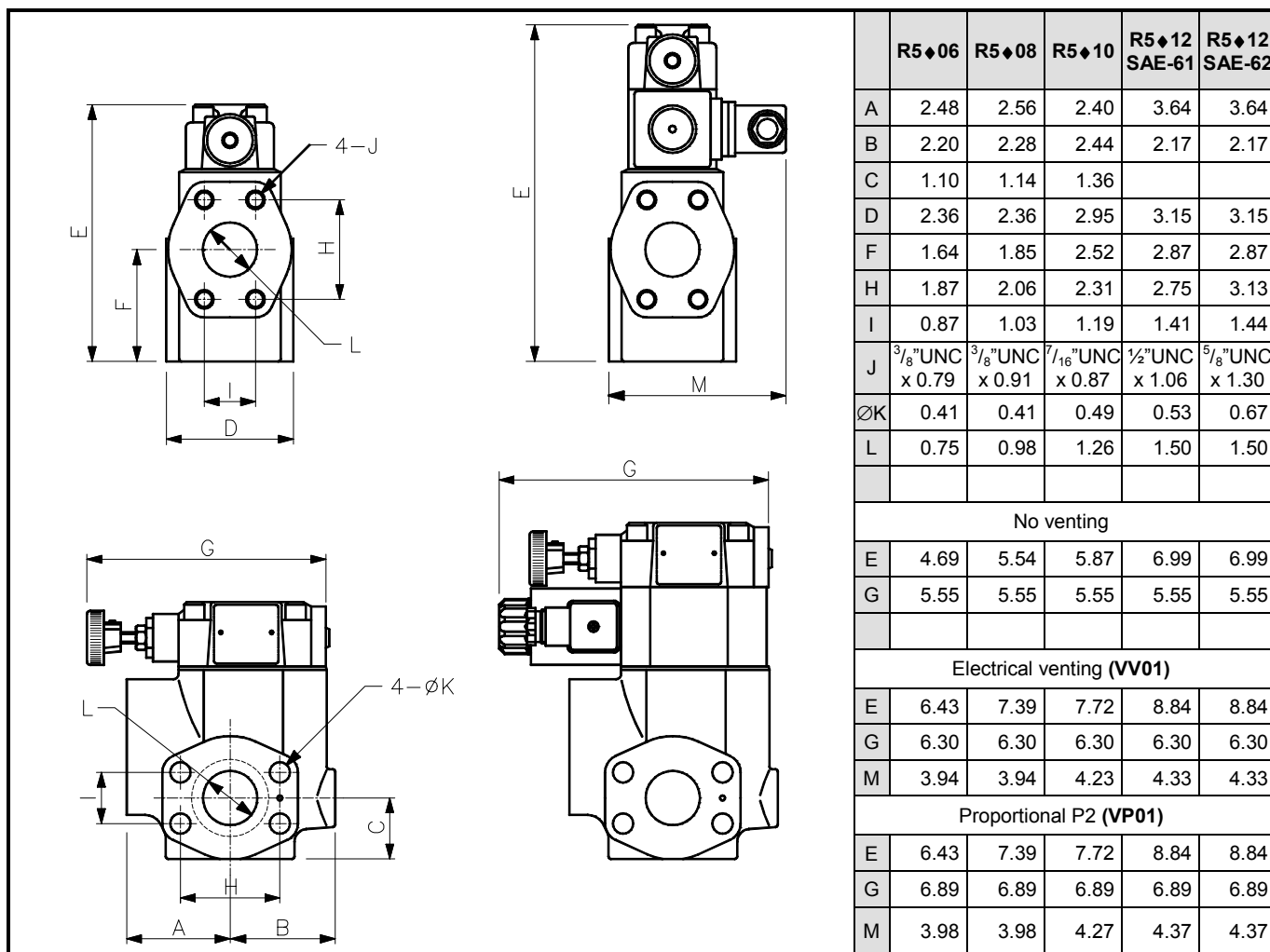
11. R5V06-535-12-09-GOR-A1-*** Options

None	Omit
Soft Shift VV01..... 120 ms	008
Others	Denison Hydraulics

DIN Connector.....for 09-11-P2 options	
Type	Code
Standard (<250 V)	167-01007-8
Red LED (15-30 VDC)	167-01100-8
With Rectifier (<250 V)	167-01076-8

Proportional Amplifierfor P2 option - VP01, 12VDC		
Type	Code	Remarks
EC01 AO1 : 12VDC amplifier ¹	701-00600-8	VP01 B-design only
Power supply	701-00023-8	115/230 VAC → 24 VDC (EC01 input)
Card holder	701-00066-8	

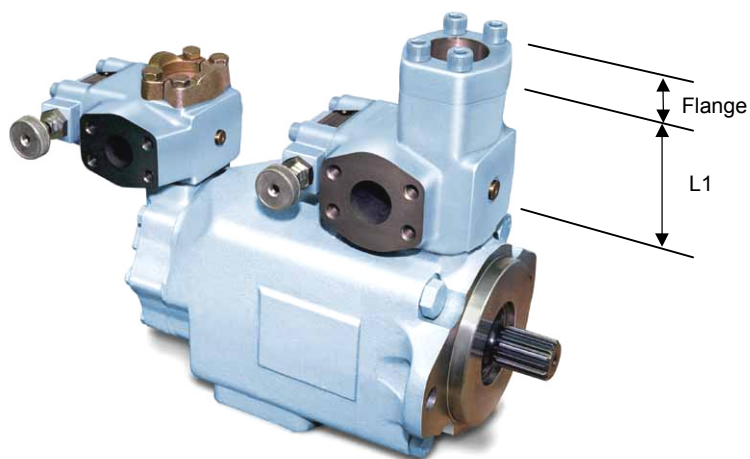
¹ 12 VDC is recommended for best performance. 24 VDC version : contact Denison Hydraulics.



References

Symbol	Code	Code	Symbol
	Relief (SAE-61) R5V♦♦-535-12-A1 R5V10 -435-12-A1 R5V12 -333-12-A1 Unload (SAE-61) R5U♦♦-535-14-A1 R5U10 -435-14-A1 R5U12 -333-14-A1	Sequence (SAE-61) R5S♦♦-535-16-A1 R5S10 -435-16-A1 R5S12 -333-16-A1	

Electrical venting - Normally closed (electric signal = venting)		Electrical venting - Normally vented (electric signal = close)	
Symbol	Code	Code	Symbol
	Relief (SAE-61) R5V♦♦-53♦-12-11-G♦♦-A1 R5V10 -43♦-12-11-G♦♦-A1 R5V12 -33♦-12-11-G♦♦-A1 Unload (SAE-61) R5U♦♦-53♦-15-11-G♦♦-A1 R5U10 -43♦-15-11-G♦♦-A1 R5U12 -33♦-15-11-G♦♦-A1	Relief (SAE-61) R5V♦♦-53♦-12-09-G♦♦-A1 R5V10 -43♦-12-09-G♦♦-A1 R5V12 -33♦-12-09-G♦♦-A1 Unload (SAE-61) R5U♦♦-53♦-15-09-G♦♦-A1 R5U10 -43♦-15-09-G♦♦-A1 R5U12 -33♦-15-09-G♦♦-A1	
	Sequence (SAE-61) R5S♦♦-53♦-16-11-G♦♦-A1 R5S10 -43♦-16-11-G♦♦-A1 R5S12 -33♦-16-11-G♦♦-A1	Sequence (SAE-61) R5S♦♦-53♦-16-09-G♦♦-A1 R5S10 -43♦-16-09-G♦♦-A1 R5S12 -33♦-16-09-G♦♦-A1	



Size		Assembly	L1	Screws (x 4)		Mounting Torque
				UNC	Metric (mm)	
		(C5V : B-design)	In.	Dimensions	Dimensions	In-lbs.
SAE 61	3/4"	C5V06	1.77	3/8"-16 x 3 3/4"	M10 x 80 10.9	250...350
		R5*06	2.36	3/8"-16 x 3 3/4"	M10 x 95 10.9	
		R5*06 + C5V06	4.13	3/8"-16 x 5 1/2"	M10 x 140 10.9	
		R5*06 + R6*06	4.72	3/8"-16 x 6"	M10 x 150 10.9	
	1"	C5V08	1.77	3/8"-16 x 3 3/4"	M10 x 85 10.9	330...420
		R5*08	2.36	3/8"-16 x 3 3/4"	M10 x 95 10.9	
		R5*08 + C5V08	4.13	3/8"-16 x 5 3/4"	M10 x 145 10.9	
		R5*08 + R5*08	4.72	3/8"-16 x 6 1/4"	M10 x 160 10.9	
	1 1/4"	C5V10	1.97	7/16"-14 x 3 1/2"	M12 x 90 10.9	420...550
		R5*10	2.95	7/16"-14 x 4 1/2"	M12 x 115 10.9	
		R5*10 + C5V10	4.92	7/16"-14 x 6 1/2"	M12 x 170 10.9	
		R5*10 + R5*10	5.91	7/16"-14 x 7 1/2"	M12 x 190 10.9	
	1 1/2"	C5V12	1.97	1/2"-13 x 3 3/4"	M12 x 90 10.9	550...620
		R5*12	3.15	1/2"-13 x 5"	M12 x 130 10.9	
		R5*12 + C5V12	5.12	1/2"-13 x 6 1/4"	M12 x 170 10.9	
		R5*12 + R5*12	6.30	1/2"-13 x 6 1/4"	M12 x 200 10.9	
SAE 62	1 1/2"	C5V12	1.97	5/8"-11 x 4"	M16 x 100 12.9	1400...1600
		R5*12-6	3.15	5/8"-11 x 5 1/4"	M16 x 135 12.9	
		R5*12-6 + C5V12	5.12	5/8"-11 x 7"	M16 x 180 12.9	