

10. Proportional Valves

Proportional Pressure Control Valve

Type	Series	Cetop	Max. Flow (GPM)	Ports Max. Pressure		Linearity	Hysteresis	Repeatability	Page
				P, A, B (PSI)	T (PSI)				
Pressure Control	4VP01 / VP01 ¹	03	1.3	5000	3000	≤ 2.8%	≤ 3.0%	-	10 - 2
Pressure Reducing	4RP01	03	3.4	1500	-	-	≤ 3.0%	≤ 1.0%	10 - 3
Pressure Relief	R1EP01	03	2.6	5000	Tank	≤ 1.5%	≤ 1.0%	≤ 0.5%	10 - 4
Pressure Relief	R4VP	05/08/10	24...160	5000	Tank	≤ 1.5%	≤ 1.0%	≤ 0.5%	10 - 5

Proportional Directional Valve

Type	Series	Cetop	Max. Flow ²	Ports Maximum Pressure			Without Position Feedback		With Position Feedback		Page
				P A,B	T Ext. drain Int. drain	Drain Ext. drain Int. drain	Response ³ 0→100% 100%→0	Hysteresis Repeatability	Response ² 0→100% 100%→0	Hysteresis Repeatability	
			(GPM)	(PSI)	(PSI)				(ms)		
Direct	4DP01	03	7.9	5000	3000 / 2300	145 / 2300	40 / 25	≤5.0% / ≤3.0%	30 / 20	≤1.0% / ≤0.5%	10 - 6
Operated	4DP02 ⁴	05	21.1	4600	3500 / 2300	145 / 2300	60 / 40	≤5.0% / ≤2.0%	50 / 35	≤1.0% / ≤0.5%	
Pilot	4DP03	07	53	5000	3500 / 3000	3000 / -	50 / 50	≤5.0% / ≤3.0%	50 / 25	≤1.0% / ≤0.5%	10-10
Operated	4DP06	08	106	5000	3500 / 3000	3000 / -	60 / 70	≤5.0% / ≤3.0%	50 / 50	≤1.0% / ≤0.5%	

Proportional Flow Control Valve

Type	Series	Size	Max. Flow ⁵ (GPM)	Max. Pressure		Page
				A, B Ports	Other ports	
				(PSI)	(PSI)	
Throttle Valve	C1FP	16	53	5000	1500 (Y port)	10 - 14
		25	106			
		32	169			
		40	240			
Flange Mounted Flow Control	F5C	¾"	25	4000	500 (drain)	10 - 16
		1"	50			
		1 ¼"	100			

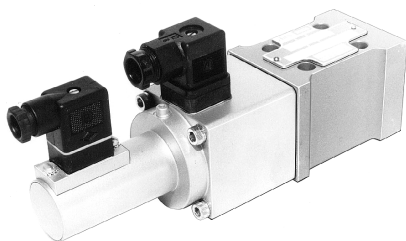
¹ See R4V/R4V...P2 and R5V/R5P...P2 : section 5.

² At 75 psi Δp per edge.

³ With 12 VDC coils.

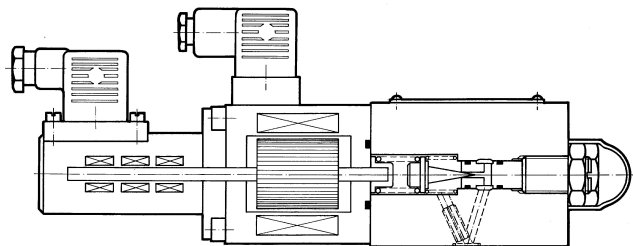
⁴ Contact Denison Hydraulics for availability.

⁵ At 150 psi Δp.



Proportional Pressure Relief Valves

R1EP01 Series
2.6 GPM - 5000 PSI
12 VDC



Key sheet Example : **R1EP01-315-103-A1**

1. **R1EP01-315-103-A1**Series

2. **R1EP01-315-103-A1**Version

Stand alone	31
For R4/R5 : orifices, P=0.6 / T=1.5 / Z=0.6	22
For R4/R5 : orifices, P=1.0 / T=1.5 / Z=1.0	23

3. **R1EP01-315-103-A1**Pressure Range

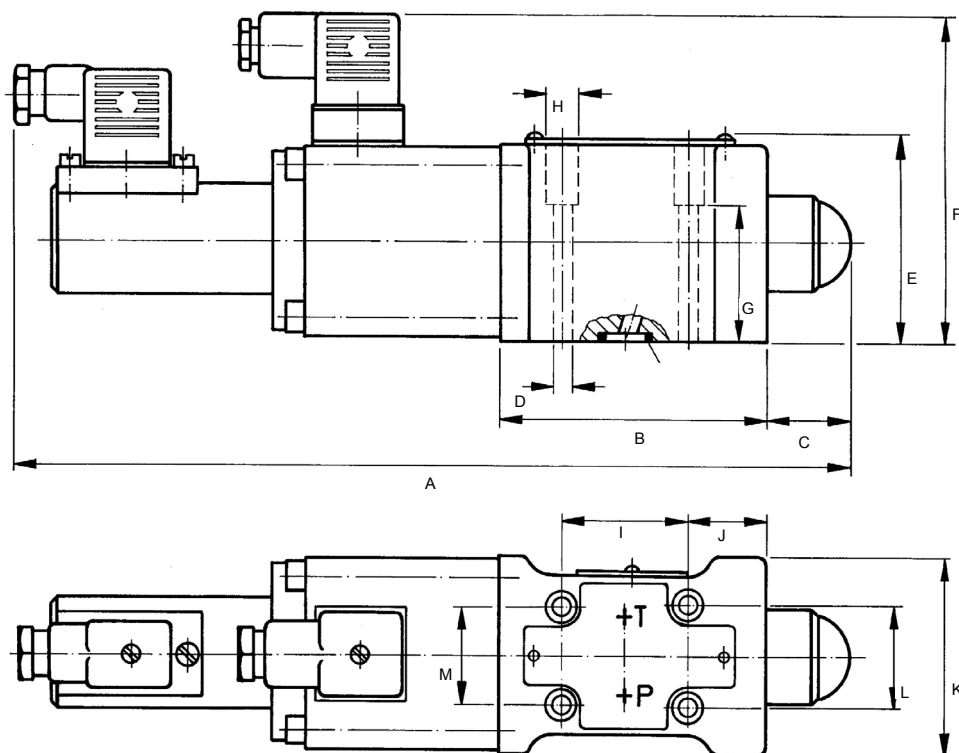
Pressure Range (bar)	14...360	45...2000	45...3000	45...5000
Code	A	2	3	5

4. **R1EP01-315-103-A1**Denison

5. **R1EP01-315-103-A1**Design

6. **R1EP01-315-103-A1**Seal Class

Buna N : Mineral oil	1
Viton : Mineral oil & Fire resistant fluids	5



R1EP01

A	10.51
B	3.39
C	1.06
ØD	0.22
E	2.52
F	4.43
G	1.65
ØH	0.39
I	1.59
J	1.06
K	2.44
L	1.28
M	1.22

Proportional Amplifier

EC01-A1C - 12 VDC : **701-006XX-8**

Accessories

Power supply (115/230 VAC).....	701-00023-8
Card holder.....	701-00066-8
Potentiometer (360°).....	701-00012-8
Potentiometer (3600°).....	701-00013-8
Adjustment knob.....	701-00014-8