

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 (GPM)	Ports Maximum Pressure			Without Position Feedback		With Position Feedback		Page
				P A, B (PSI)	T Ext. drain Int. drain (PSI)	Drain Ext. drain Int. drain	Response ³ 0→100% 100%→0 (ms)	Hysteresis Repeatability	Response ² 0→100% 100%→0 (ms)	Hysteresis Repeatability	
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 (PSI)	Other ports (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			

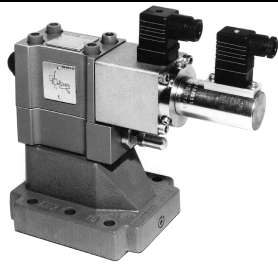
¹ See R4V/R4V...P2 and R5V/R5P...P2 : section 5.

² At 75 psi Δp per edge.

³ With 12 VDC coils.

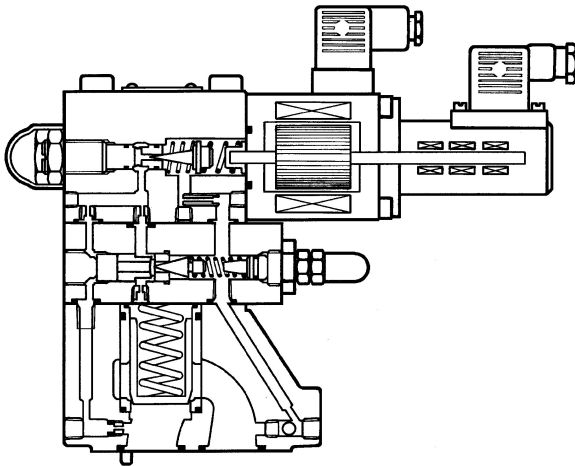
⁴ Contact Denison Hydraulics for availability.

⁵ At 150 psi Δp.



Proportional Pressure Relief Valves

R4VP Series
24...160 GPM - 5000 PSI
12 VDC



Key sheet Example : **R4VP03-535-02-103-A1**

- R4VP03-535-02-103-A1**Series
- R4VP03-535-02-103-A1** Size & Version

Size	Cetop 05	Cetop 08	Cetop 10
Subplate version	03-53	06-53	10-53
Cartridge version	03-00	06-00	-

- R4VP03-535-02-103-A1**Pressure Range

Pressure Range (PSI)	100...2000	100...3000	100...5000
Code	2	3	5

- R4VP03-535-02-103-A1** Max. pressure adjt

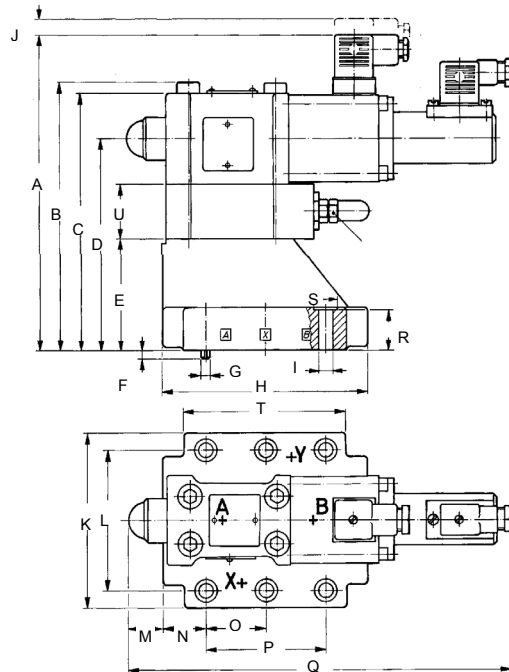
With maximum pressure adjustment	12
Without maximum pressure adjustment	02

- R4VP03-535-02-103-A1**Denison

- R4VP03-535-02-103-A1**Design

- R4VP03-535-02-103-A1**Seal Class

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



	R4VP 03	R4VP 06	R4VP 10
A	7.68	8.66	9.06
B	6.00	6.97	7.40
C	5.69	6.65	7.09
D	4.47	5.43	5.87
E	1.77	2.74	3.15
F	0.25	0.25	0.25
ØG	0.25	0.25	0.25
H	3.62	4.84	5.65
ØI	0.41	0.41	0.41
J	0.59	0.59	0.59
K	3.44	4.13	4.72
L	2.63	3.13	3.81
M	1.06	1.06	0.94
N	1.02	1.22	1.18
O			1.66
P	1.69	2.37	3.32
Q	10.51	10.51	10.51
ØR	0.83	1.14	1.14
S	0.65	0.65	0.65
T	2.50	3.66	4.51
U	1.48	1.48	1.48

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