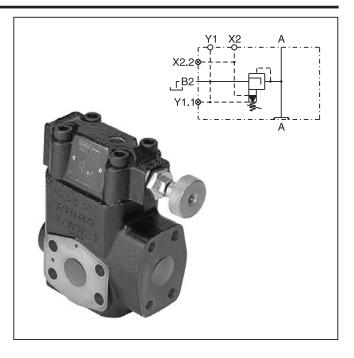
## **General Description**

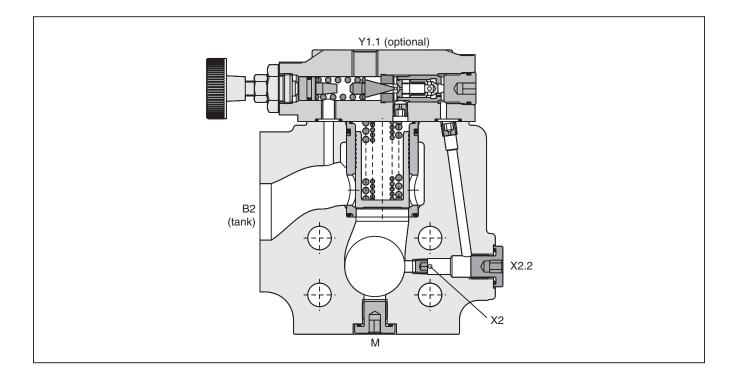
Series R5P direct operated, 3-way pressure compensators can be combined with any type of fixed or adjustable flow resistor (throttle) to provide a load compensated flow. The combination with the proportional throttle valve F5C serves as a compact 3-way flow control unit in SAE flange design. The R5P is typically used as meter-in compensator in front of the flow resistor.

The R5P is additionally equipped with a pressure relief pilot that controls the compensator cartridge and operates a system pressure relief valve. The R5P\*P2 provides a proportional relief function.

### **Features**

- Seated type 3-way pressure compensator
- SAE 61 flange
- 8.4 Bar (121.8 PSI) control pressure
- Pressure relief function (optionally proportional)
- With optional vent function
- 3 sizes (SAE Code 61 3/4", 1", 1-1/4")
- Load compensated flow in combination with F5C

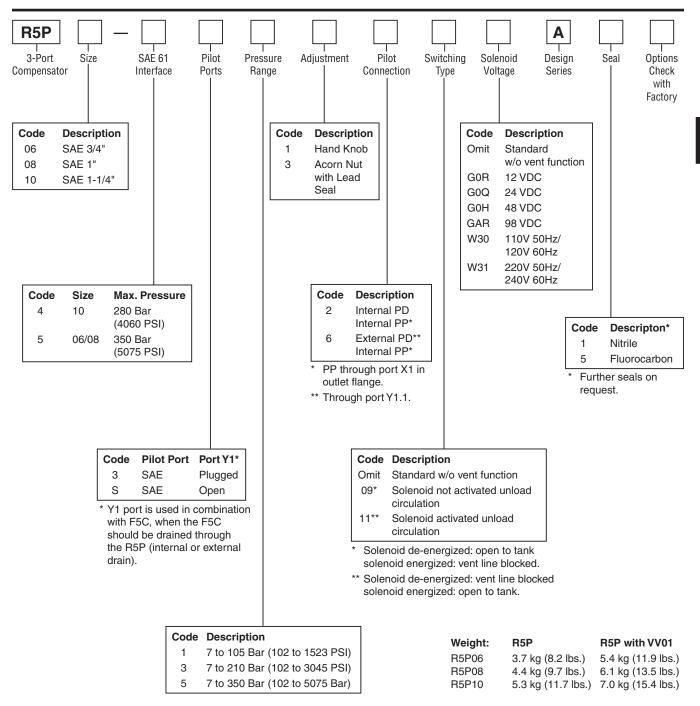




WARNING: This product can expose you to chemicals including Lead, Nickel (Metallic), or 1,3-Butadiene which are known to the State of California to cause cancer, and Lead or 1,3-Butadiene which is known to the State of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

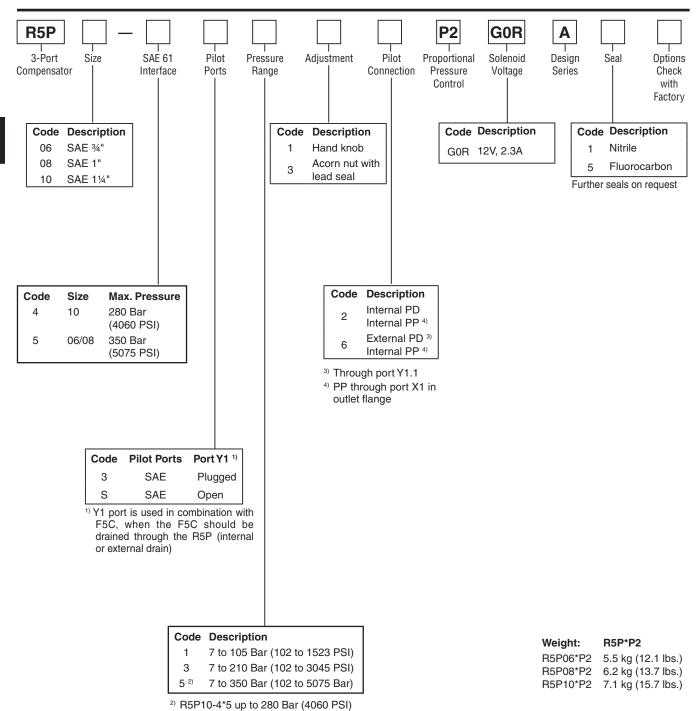


## Proportional Pressure Relief Valves Series R5P (SAE Flange Mounted)





## Proportional Pressure Compensator Valves Series R5P (SAE Flange Mounted)





R5P

General								
Size		06 (3	3/4")	08 (1	l")	10 (1	1/4")	
Mounting	Flanged according to SAE 61							
Mounting Position		Unrestricted						
Ambient Temperature Range	е	-20°C to +50°C (-4°F to +122°F)						
MTTF <sub>D</sub>		150 years						
Hydraulic		•						
Max. Operating Pressure	Ports A, B	350 Bar (8	5075 PSI)	350 Bar (5	075 PSI)	280 Bar (4	060 PSI)	
Pressure Ranges		105 Bar (152	23 PSI), 210 I	Bar (3045 PSI	), 350 Bar (5	5075 PSI)		
Nominal Flow		90 LPM (2	23.8 GPM)	300 LPM (7	9.4 GPM)	600 LPM (1	58.7 GPM)	
Fluid		Hydraulic oil as per DIN 5152451535, other on request						
Fluid Temperature		-20°C to +80°C (-4°F to +176°F)						
Viscosity	Permitted							
	ommended							
Filtration		ISO Class 4406 (1999) 18/16/13 (acc. NAS 1638: 7)						
Electrical (Solenoid) R5P with	th VV01							
Duty Ratio		100% ED; CAUTION: Coil temperature up to 150°C (302°F) possible					e	
Solenoid Connection		Connector a	s per EN1753	301-803				
Protection Class		IP65 in acco	rdance with E	EN60529 (plug	gged and mo	ounted)		
	Code	le G0R G0Q GAR GOH W30					W31	
Supply Voltage		12 VDC	24 VDC	98 VDC	48 VDC	110V at 50Hz	230V at 50Hz	
						+	240V at 60Hz	
Tolerance Supply Voltage	[%]	±10	±10	±10	±10	±5	±5	
Power Consumption Hol		32.7	31	32	30	70 / 70 VA	70 / 70 VA	
In Rus	h [W]	32.7	31	32	30	280 / 290 VA	280 / 290 VA	
Response Time		Energized / De-energized AC 20/18ms, DC 46/27 ms						
Maximum Switching Freque	ency	AC up to 7200, DC 70 to 16,000 switchings/hour						
Coil Insulation Class		H (180°C) (356°F)						

# **R5P\*P2 (Proportional)**

General						
Size	06 (3/4")	08 (1")	10 (1-1/4")			
Mounting	Flanged according to SAE 61					
Mounting Position	Unrestricted					
Ambient Temperature Range	-20°C to +50°C (-4°F to +1	122°F)				
MTTF <sub>D</sub>	150 years					
Hydraulic						
Max. Operating Pressure Ports A, B	350 Bar (5075 PSI)	350 Bar (5075 PSI)	280 Bar (4060 PSI)			
Pressure Range	105 Bar (1523 PSI), 210 B	ar (3045 PSI), 350 Bar (50	75 PSI)			
Nominal Flow	300 LPM (79.4 GPM)	600 LPM (158.7 GPM)				
Fluid	Hydraulic oil as per DIN 5152451535, other on request					
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)					
Viscosity Permitted						
Recommended						
Filtration	ISO Class 4406 (1999) 18/16/13 (acc. NAS 1638: 7)					
Electrical (Solenoid) R5P with VV01						
Duty Ratio	100% ED; CAUTION: Coil temperature up to 150°C (302°F) possible					
Nominal Voltage	12 VDC					
Maximum Current	2.3 A					
Coil Resistance	4 Ohm at 20°C (68°F)					
Solenoid Connection	Connector as per EN175301-803, Solenoid indentification as per ISO 9461					
Protection Class	IP65 in accordance with EN60529 (plugged and mounted)					
Power Amplifier	PCD00A-400					
B01_Cat2550.indd, ddp, 04/19						

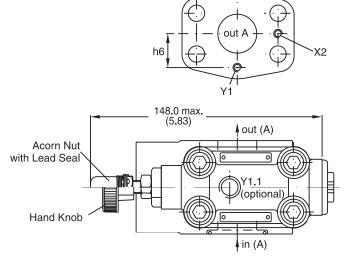


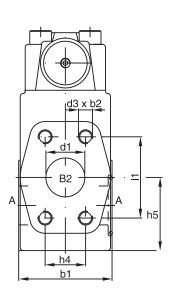
Inch equivalents for millimeter dimensions are shown in (\*\*)

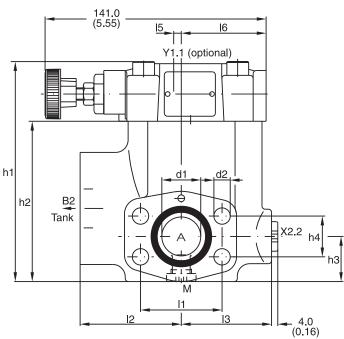
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Seal Kits*						
Size	Nitrile	Fluorocarbon				
06	S16-91461-0	S16-91461-5				
08	S16-91460-0	S16-91460-5				
10	S16-91459-0	S16-91459-5				
Deee	met intervale DO	a al luit				

Does not inlcude P2 seal kit.







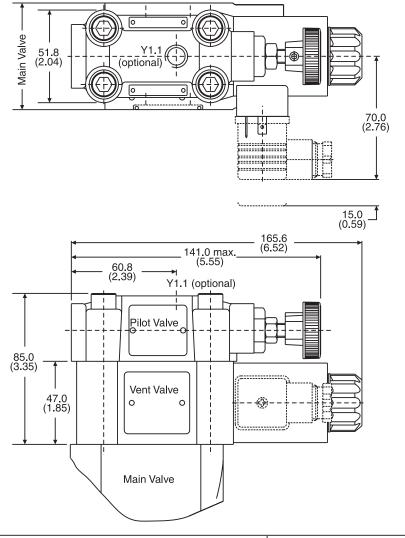
Size	1	12	13	14	15	16	b1	b2	h1	h2	h3	h4	h5	h6	d1	d2	d3
06	47.6	63.0	56.0	148.0	1.0	49.0	60.0	20.0	119.0	81.6	28.5	22.2	41.6	20.8	19.0	10.5	3/8" UNC
00	(1.87)	(2.48)	(2.20)	(5.83)	(0.04)	(1.93)	(2.36)	(0.79)	(4.69)	(3.21)	(1.13)	(0.87)	(1.64)	(0.82)	(0.75)	(0.41)	3/8 UNC
08	52.4	65.0	58.0	144.6	5.0	54.5	60.0	23.0	142.0	103.0	30.5	26.2	48.6	24.3	25.0	10.5	3/8" UNC
00	(2.06)	(2.56)	(2.28)	(5.69)	(0.20)	(2.15)	(2.36)	(0.91)	(5.59)	(4.06)	(1.20)	(1.03)	(1.91)	(0.96)	(0.98)	(0.41)	3/8 0110
10	58.7	61.0	62.0	146.6	3.0	56.5	75.0	22.0	149.0	111.5	37.5	30.2	64.1	29.3	32.0	12.5	7/16" UNC
10	(2.31)	(2.40)	(2.44)	(5.77)	(0.12)	(2.22)	(2.95)	(0.87)	(5.87)	(4.39)	(1.48)	(1.19)	(2.52)	(1.15)	(1.26)	(0.49)	THE UNC

Port	Function	Port size						
Port	Function	R5P06	R5P08	R5P10				
A	Inlet/Outlet	3/4"	1"	1-1/4"				
B2	Tank	3/4"	1"	1-1/4"				
X2	Internal Pilot Pressure	M3						
X2.2	External Pilot Pressure	G1/4"						
Y1	Internal Pilot Drain	M3						
Y1.1	External Pilot Drain	G1/4"						
М	Pressure Gauge	G1/4"						



#### **R5P with Vent Function**

Inch equivalents for millimeter dimensions are shown in (\*\*)



Seal Kits*					
Nitrile	Fluorocarbon				
DC solenoid					
S26-58515-0	S26-58515-5				
AC solenoid					
S26-35237-0	S26-35237-5				
For vent valve only.					



Code	Internal Drain	External Drain
11		
09		

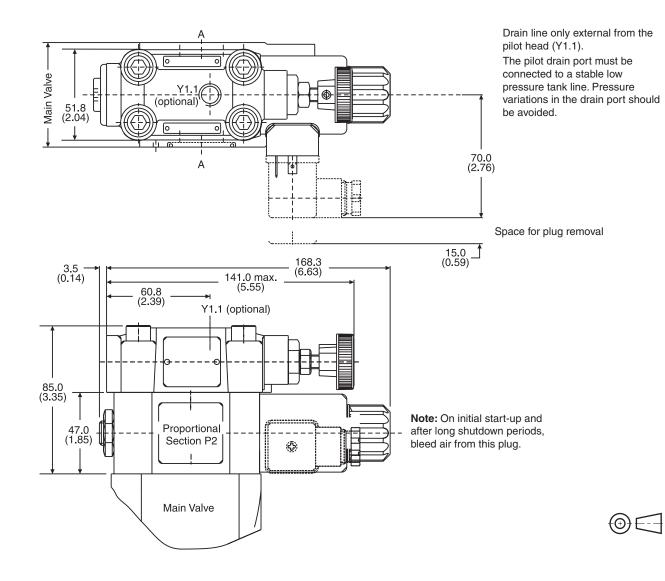
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Parker Hannifin Corporation Hydraulic Valve Division Elyria, Ohio, USA

### **R5P with Proportional Function**

Inch equivalents for millimeter dimensions are shown in (\*\*)



	Seal 🔘 Kit *				
	Nitrile	Fluorocarbon			
Prop. Section P2	S26-58473-0	S26-58473-5			

\* P2 seal kit only.

See previous page for full valve seal kit

