# Model 22860P

# Pneumatic Pressure Relief Valve

## **Spare Parts List**

<u>ltem</u>	<u>Part #</u>	<b>Description</b>	<u>Qty.</u>
1	04978	Connection Block	1
2	04979	Hexagon Screw	4
3*	07214	O-Ring	1
4*	13141	O-Ring	1
5	05949	Valve Cone	1
6*	05950	Sealing Cone	1
7*	05951	Valve Seat	1
8	04980	Casing	1
9*	07214	O-Ring	2
10*	05953	Guide Ring	1
11	04981	Piston	1
12*	06361	Support Ring for O-Ring	1
13	12014	Ball	1
14	04982	Centering Ring	1
14A*	07701	Support Ring	1
15*	07140	O-Ring	1
16	05957	Pressure Pin	1
17	04033	Cylinder Retainer	1
18	07008	Inner Hexagon Screw	8
19	03593	Cylinder Assembly	1
19A	03594	Cylinder	1
19B	04036	Hexagon Nut	1
19C	03580	Washer	1
19D	06435	Sleeve	1
19E	03596	Pressure Pin	1
20	08363	Cylinder Screw	1

\* 09717A Repair Kit

# **Operating Specifications**

	U.S.	Metric
Max. Flow:	132 GPM	500 L/min
Min. Flow:	4 GPM	15 L/min
Activation Pressure:	2030 PSI	140 Bar
Max. Pressure:	2320 PSI	160 Bar
Max. Temperature:	160 °F	70 °C



## Operation

The pressure relief valve can be fitted either directly onto the pump or into the discharge line using a T-piece. Should the adjusted operating pressure be exceeded, the medium will be diverted through the bypass. The pressure relief valve switches to bypass when the air pressure switches off. The resulting residual pressure depends on the flow rate and is approximately 435 PSI (30 bar) at 132 GPM (500 L/min).

**Important!** Prolonged pressurized partial flow through the bypass will cause valve cone (6) and valve seat (7) to wear. The bypass line running from the pressure relief vavle must be free of all shut-off devices.

## Adjustment

#### Adjustment work is to be carried out by qualified personnel only.

The compressed air that is present is adjusted to the required pump pressure via a pneumatic governor without kick-back valve.

22860P Air Pressure/ Pressure Chart				
Air Presure	Liquid Pressure*			
PSI (Bar)	PSI (Bar)			
43.2 (3)	725 (50)			
58 (4)	1087.5 (75)			
72.5 (5)	1378 (95)			
87 (6)	1668 (115)			
101.5 (7)	2102 (145)			

\*Approximate values - varies based on pump and system pulsations

## Maintenance

In time, the valve may leak even when the piston is set at the correct air pressure. The leakage would be due to damage in the sealing chamber on the seat (7) and/or the sealing cone (6). To repair the valve, unscrew the hexagon screws (2) from the connection block (1), remove the cylinder assembly (19) by removing screws (18), and press all inner parts out from the top of the casing. Check the seat (7), cone (6), O-rings (3 & 4), and renew parts.



**WARNING:** This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



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