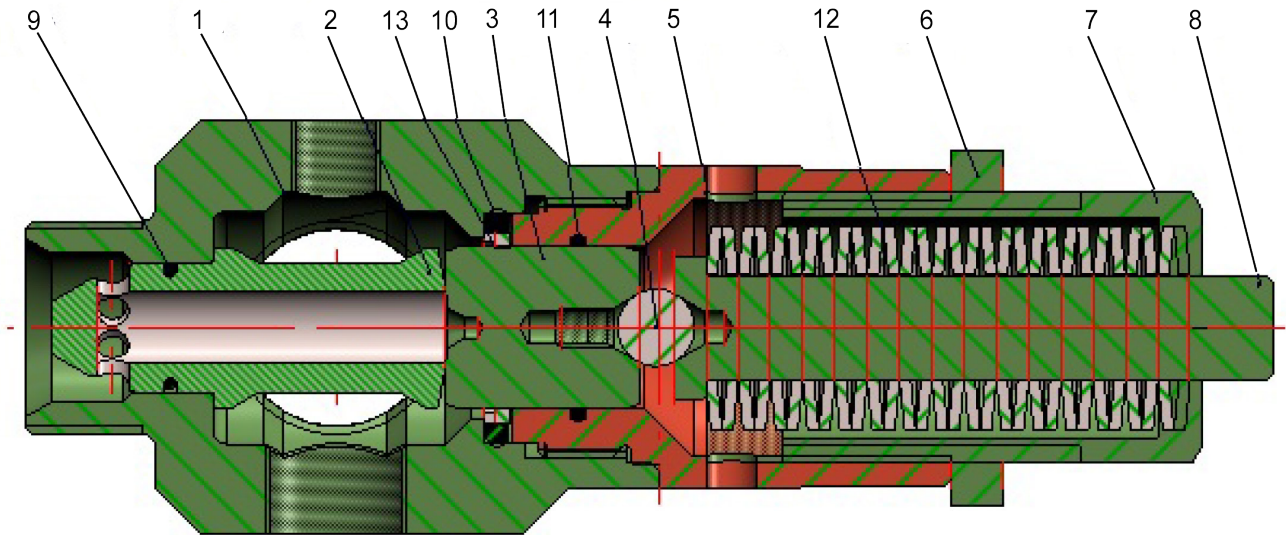


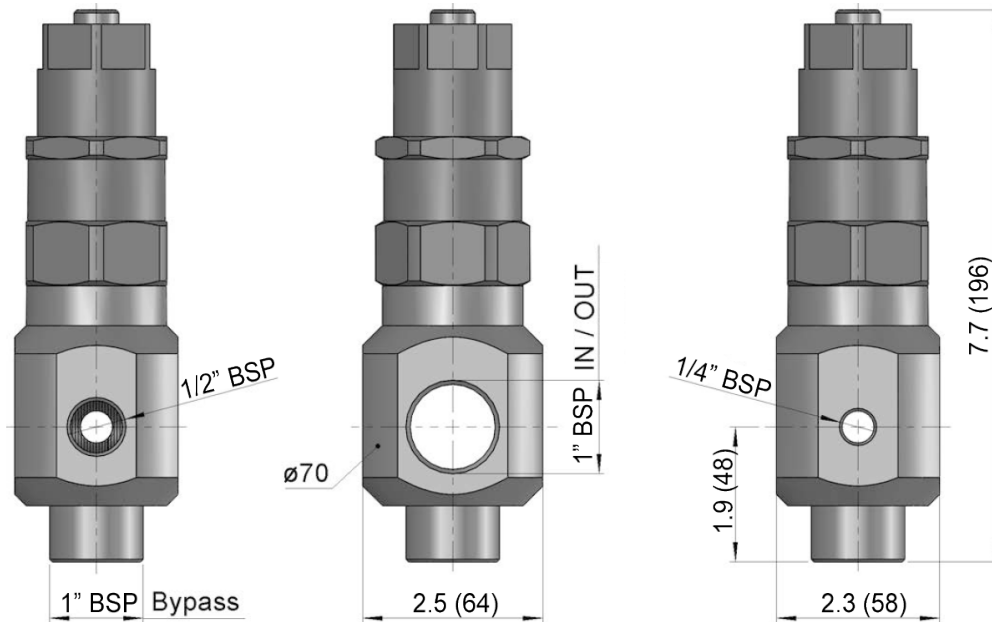
Series 22191

Pressure Regulator



Specifications			Parts List			
	U.S.	Metric	Item	Part No.	Description	Qty.
Max. Flow	66 GPM	250 L/min	1	16142	Valve Housing	1
Pressure 22191-A	300-1000 PSI	20-70 Bar	2	16143	Valve Seat	1
Pressure 22191-B	1000-1740 PSI	70-120 Bar	3*	16144	Plunger	1
Pressure 22191-C	1740-3000 PSI	120-200 Bar	4	12014	Ball	1
Pressure 22191-D	3000-4000 PSI	200-280 Bar	5	16146	Guide Sleeve	1
Max. Pressure	4060 PSI	280 Bar	6	16147	Locking Nut	1
Max. Temp.	140 °F	60 °C	7	16148	Adjustable Screw	1
Inlet Port		1" FBSP	8	16149	Spring Bolt	1
Outlet Port		1" FBSP	9	16150	Spring Support	1
Bypass		1" MBSP	10	07853	O-ring	1
Guage Ports		1/4" FBSP & 1/2" FBSP	11*	16152	O-ring	1
Height	7.7"	195.6 mm	12*	16153	O-ring	1
Width	2.8"	71.1 mm	13	22831	Plate Spring (22191-A)	29
			13	22835	Plate Spring (22191-B)	29
			13	22831	Plate Spring, double layered (22191-C)	34
			13	22835	Plate Spring, double layered (22191-D)	34
			111*	16156	Glide Ring	1
				*09236	Repair Kit	

Dimensions - Inches (mm)



OPERATING INSTRUCTIONS & PRESSURE SETTING

OPERATION OF 22191 REGULATOR

The 22191 works as a proportional pressure relief valve. Should the set operating pressure be exceeded, water is led off through the bypass. Due to the hysteresis of the pressure spring, the amount of the bypassed water increases the pressure. This valve does not fulfill the requirements of a safety valve. (Excess pressure can be higher than 10% before the complete flow is bypassed).

PRESSURE SETTING OF 22191 REGULATOR

The operating pressure is set by turning the adjusting screw (7). The set operating pressure is then secured by turning lock nut (6) against guide sleeve (5).

22191 REPAIR INSTRUCTIONS

1. Loosen the locking nut (6) and remove the spring bolt (8) and adjusting screw (7). Take out springs (13), spring support (9) and ball (4).
2. From the valve housing (1) side, knockout the plunger (3) using a wooden or plastic dowel.
3. Remove the guide sleeve (5) from the valve housing (1). Remove and replace the o-ring (12) located on the inside of the guide sleeve.
4. Remove and replace the o-rings (11 and 111) located on the inside of the valve housing (1).
5. Use new plunger (3) and reassemble the entire regulator by reversing the steps outlined above.

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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