

OVERVIEW: THROTTLING AND PRESSURE RELIEF/REGULATING VALVES

- Easily regulate flow in systems using centrifugal pumps with throttling valves; adjustable cap and lock ring provide easy valve control
- Control line pressure and minimize liquid waste with adjustable relief valves that return excess liquid back to the liquid source or pump inlet

PRESSURE RELIEF REGULATING VALVE OPTIONS

23120

1/2", 3/4" male inlet and female outlet conn.
 Pressure relief valve
 Adjustable lock nut
 Material: Polypropylene



8460

1/2", 3/4" male inlet and female bypass conn.
 Diaphragm-style pressure relief valve
 Female pressure gauge port and plug for use when pressure gauge not used
 Fairprene® diaphragm seal prevents fluid from working parts
 Materials: Aluminum housing with nylon body



6815

1/2", 3/4" male inlet and female outlet conn.
 Piston-type pressure relief valve
 Free floating design improves speed and sensitivity
 Materials: Aluminum, brass, hardened stainless steel



110

1", 1-1/4", 1-1/2" conn.
 Piston-type pressure relief valve
 Guide vane seat stabilizes flow for vibration reduction
 Free floating design improves speed and sensitivity
 Removable valve bonnet: no disturbance of fluid line connections
 Materials: Aluminum, brass, ductile iron, hardened stainless steel



THROTTLING VALVE OPTION

23520

1/2", 3/4" male inlet and female outlet conn.
 Throttling valve
 Material: Polypropylene



MATERIAL

CODE

Aluminum	AL
Brass	No code
Ductile Iron	No code
Hardened stainless steel	HSS
Nylon/Aluminum	NY
Polypropylene	PP

See Trademark Registration and Ownership, page i-1.



ORDERING INFORMATION

PRESSURE RELIEF/REGULATING VALVE



BSPT connections require the addition of a "B" prior to the inlet connection. Pressure rating is ordered in psi.

THROTTLING VALVE



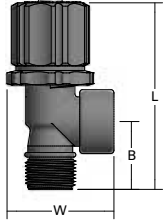
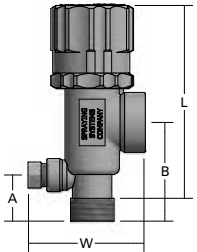
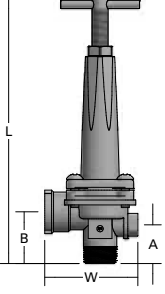
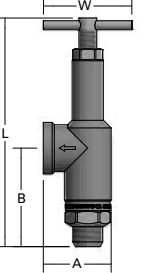
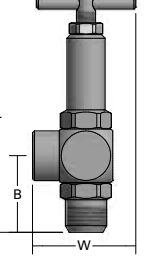
BSPT connections require the addition of a "B" prior to the inlet connection.

SPECIFICATIONS

Inlet/Outlet Pipe Conn. (in.)	Operating Pressure Max. psi (bar)	Valve Type							
		23520	23120	8460	6815	6815-HSS	6815-AL	110	110-AL
1/4	Up to 300 (20)							•	
	300 to 700 (20 to 48)							•	
	700 to 1000 (48 to 70)							•	
3/8	Up to 300 (20)							•	
	300 to 700 (20 to 48)							•	
	700 to 1000 (48 to 70)							•	
1/2	Up to 50 (3.5)				•		•		
	Up to 150 (10.4)	•	•						
	Up to 300 (20)			•	•		•		
	300 to 700 (20 to 48)				•		•		
	700 to 1200 (48 to 85)				•	•			
3/4	Up to 50 (3.5)				•		•		
	Up to 150 (10.4)	•	•						
	Up to 300 (20)			•	•		•		
	300 to 700 (20 to 48)				•		•		
	700 to 1200 (48 to 85)				•	•			
1	Up to 150 (10)								•
1-1/4	Up to 150 (10)								•
1-1/2	Up to 150 (10)								•



DIMENSIONS AND WEIGHTS

Valve	Accessory Type	Inlet/Outlet Conn. (in.)	L at Max. Opening Height (mm)	A (mm)	B (mm)	W (mm)	Net Weight (kg)
	23520	1/2	102	–	29.8	51	0.08
		3/4	114	–	35.8	57	0.08
	23120	1/2	133	26	60.3	66.8	0.16
		3/4	133.4	26	60.3	68.3	0.16
	8460	1/2	203.2	30.9	41.2	71.4	0.42
		3/4	203.2	30.9	41.2	71.4	0.37
	6815	1/2	168.3	48.4	69.9	63.5	0.59
		3/4	168.3	48.4	69.9	63.5	0.59
	110	1/4	101.6	–	30.9	42.9	0.2
		3/8	101.6	–	30.9	42.9	0.2
		1	184.1	–	63.9	68.3	1.23
		1-1/4	184.1	–	66.3	69.9	1.41
		1-1/2	196.9	–	106.9	25.4	1.54

Based on the largest/heaviest version of each type.