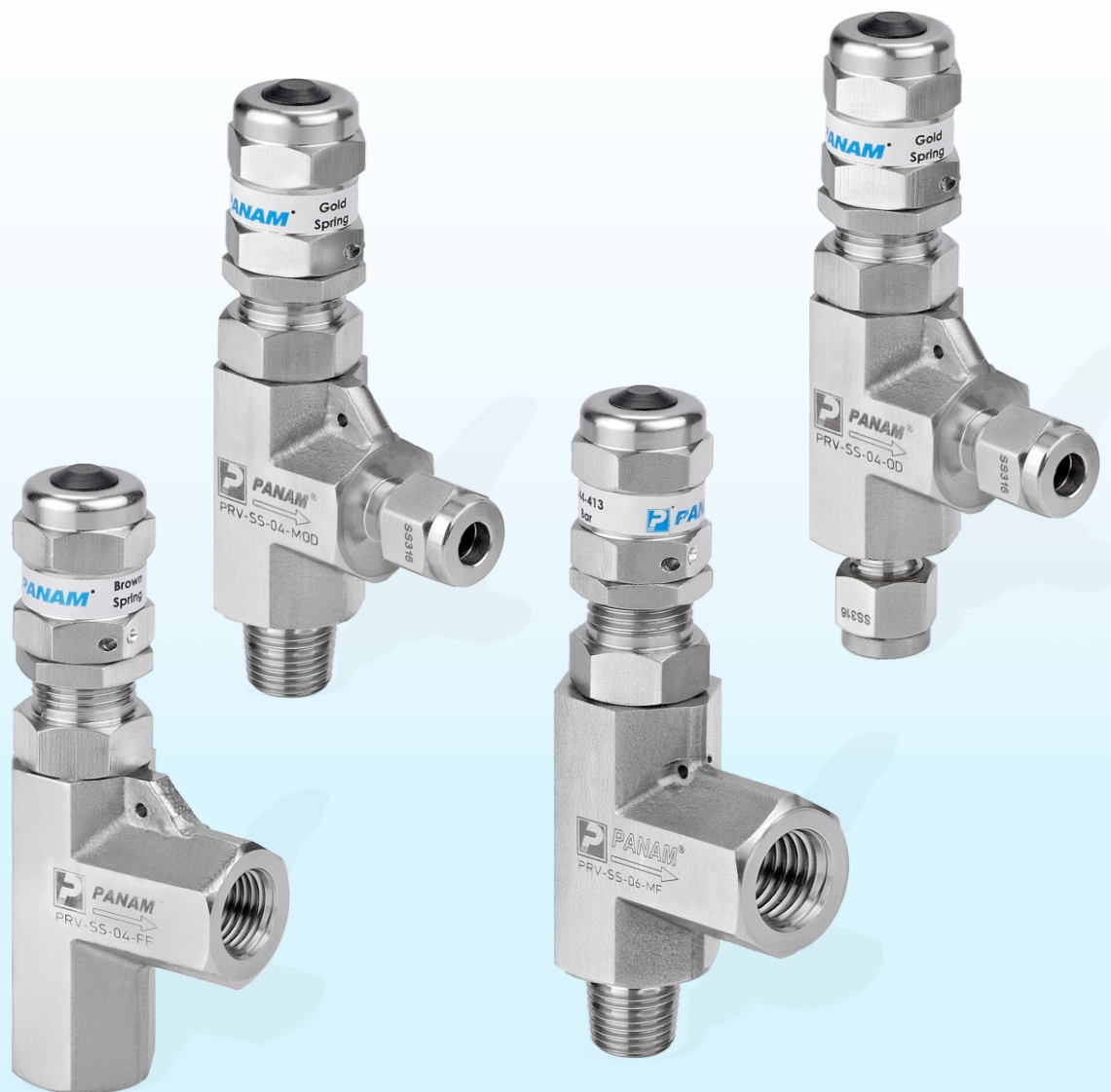


# Relief Valves



[www.panamengineers.com](http://www.panamengineers.com)

## Relief Valves - Features

**PANAM** Relief Valves are Compact design for installation in small space. Cracking pressure adjustable externally. Lock wire feature secures a given pressure setting.

### **PANAM** PRVL Series (Low-Pressure Valves)

- Max. Working Pressure upto 300 psig (20.6 bar)
- One spring for full set pressure range

### **PANAM** PRVH Series (High-Pressure Valves)

- Max. Working Pressure upto 6000 psig (413 bar)
- Multiple spring for selection of set pressure ranges

## Set Pressure Ratings

No.	Spring Color	Set Pressure		
		psig	bar	Mpa
A	White	50 to 350	3.4 to 24.1	0.34 to 2.41
B	Blue	350 to 750	24.1 to 51.7	2.41 to 5.17
C	Gold	750 to 1500	51.7 to 103	5.17 to 10.3
D	Black	1500 to 2250	103 to 155	10.3 to 15.5
E	Green	2250 to 3000	155 to 206	15.5 to 20.6
F	Yellow	3000 to 4000	206 to 275	20.6 to 27.5
G	Brown	4000 to 5000	275 to 344	27.5 to 34.4
H	Orange	5000 to 6000	340 to 413	34.4 to 41.3

### Set Pressure and Resealing Pressure

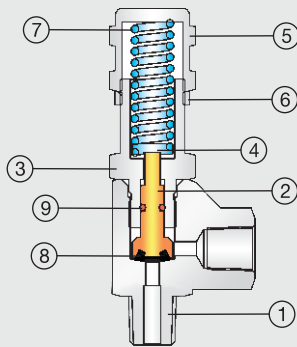
• Set pressure is the upstream pressure at which the first indication of flow occurs • Set pressure of each valve after initial relief is repeatable within 5% at room temperature • Resealing pressure is the upstream pressure at which there is no indication of flow • Resealing pressure is always lower than set pressure.

**Testing** • Each valve is factory tested for set and reseal performance.

### Cleaning and Packaging

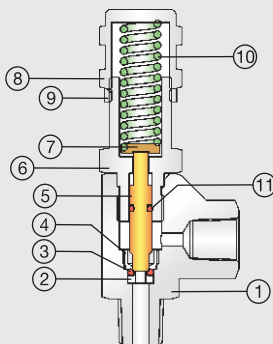
• Each valve is cleaned and packaged in accordance with the standard specification of cleaning and packaging.

## Material of Construction PRVL (Low Pressure)



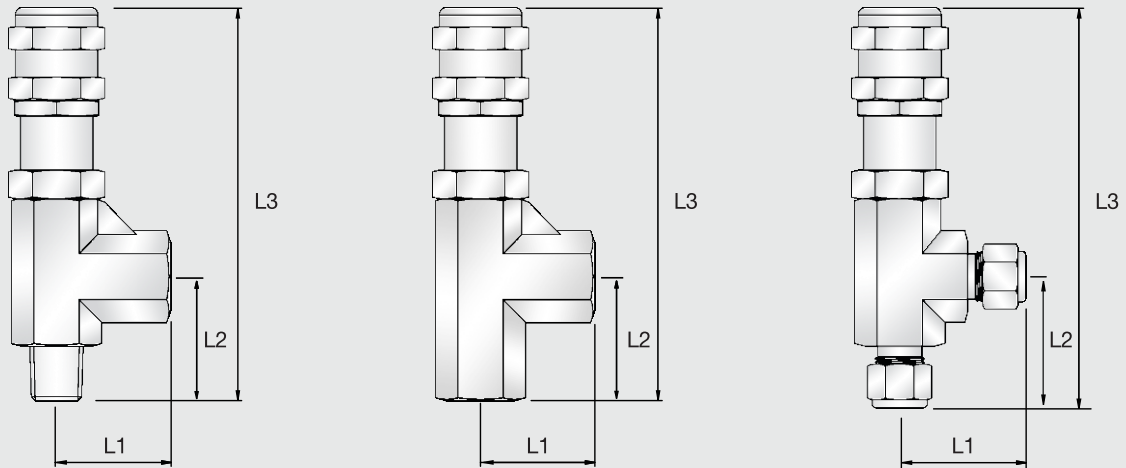
Sr. No.	Part Name	Qty.	Material
1	Body	1	SS 316
2	Spindle	1	SS 316
3	Adaptor	1	SS 316
4	Spindle Cap	1	SS 316
5	Cap	1	SS 316
6	Lock Nut	1	SS 316
7	Spring	1	SS 302
8	Seat	1	Viton
9	'O' Ring	1	Viton / Neoprene

## Material of Construction PRVH (High Pressure)



Sr. No.	Part Name	Qty.	Material
1	Body	1	SS 316
2	'O' Ring Cap	1	SS 316
3	'O' Ring	1	Viton
4	'O' Ring Nut	1	SS 316
5	Spindle	1	SS 316
6	Adaptor	1	SS 316
7	Spindle Cap	1	SS 316
8	Cap	1	SS 316
9	Lock Nut	1	SS 316
10	Spring	1	SS 302
11	'O' Ring	1	Viton

## Dimensions



Part No.			Orifice	End Connections		Dimensions		
				Inlet	Outlet	L1	L2	L3
PRVL or PRVH	SS	04	4.8	1/4" OD	1/4" OD	40.2	38.8	107.5
		06	4.8	3/8" OD	3/8" OD	46.4	46.4	113.5
		08	6.0	1/2" OD	1/2" OD	50.5	50.7	140.0
		M06	4.8	6mm OD	6mm OD	40.2	38.8	107.5
		M08	4.8	8mm OD	8mm OD	40.2	38.8	107.5
		M10	4.8	10 mm OD	10 mm OD	46.4	46.4	113.5
		M12	6.0	12mm OD	12mm OD	50.5	50.7	140.0
		04	4.8	1/4" NPTM	1/4" NPTF	31.5	33.5	102.0
		06	4.8	3/8" NPTM	3/8" NPTF	33.0	34.5	104.0
		08	8.0	1/2" NPTM	1/2" NPTF	42.5	50.7	132.0
		04	4.8	1/4" NPTF	1/4" NPTF	31.5	33.5	102.0
		06	4.8	3/8" NPTF	3/8" NPTF	36.5	34.2	104.0
	08	8.0	1/2" NPTF	1/2" NPTF	31.5	33.5	102.0	
	04	4.8	1/4" NPTM	1/4" OD	33.0	34.5	104.0	
	06	4.8	3/8" NPTM	3/8" OD	40.2	38.8	107.5	
08	6.0	1/2" NPTM	1/2" OD	50.5	50.7	132.0		

## Ordering Information



### 1. Pressure Rating

Rating	Designator
Low Pressure	RVL
High Pressure	RVH

### 3. Inlet / Outlet Connection Size

Size	Designator
1/4"	4
3/8"	6
1/2"	8
6mm	M6
8mm	M8
10mm	M10
12mm	M12

### 2. Body Material

Material	Designator
316 SS	SS
Brass	B
Monel	M

### 4. Inlet / Outlet Connection Type

Type	Designator
Tube Fitting x Tube Fitting	OD
Male x Female	MF
Female x Female	FF
Male x Tube Fitting	MOD

### 5. Inlet / Outlet Connection Type

No.	Spring Color	psig
A	White	50 to 350
B	Blue	350 to 750
C	Gold	750 to 1500
D	Black	1500 to 2250
E	Green	2250 to 3000
F	Yellow	3000 to 4000
G	Brown	4000 to 5000
H	Orange	5000 to 6000



## ***PANAM ENGINEERS LTD.***

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