

7E SERIES

SAFETY/RELIEF VALVE

Cryogenic, Steam, Water, Air & Gases
General Process Application
Working Pressure: 15 - 10,000kPa



The 7E range represents the next evolution in Mack's 85+ year history of supplying high-quality, reliable safety/relief valves. It has the added benefit of a simplified, easy-to-use numbering and selection system.

This range of high-flow safety and relief valves is specifically designed and manufactured in accordance with AS1271—2003, Class 'A', for applications where pressure vessels require safeguarding against over pressurisation. They activate in the event of an overpressure occurrence before the event becomes critical, protecting staff and valuable equipment.

Mack's 7E series are typically used to safeguard boilers, vessels and pipework from the risks of higher than desired pressures, ensuring protection for valuable resources while helping to avoid costly downtime.

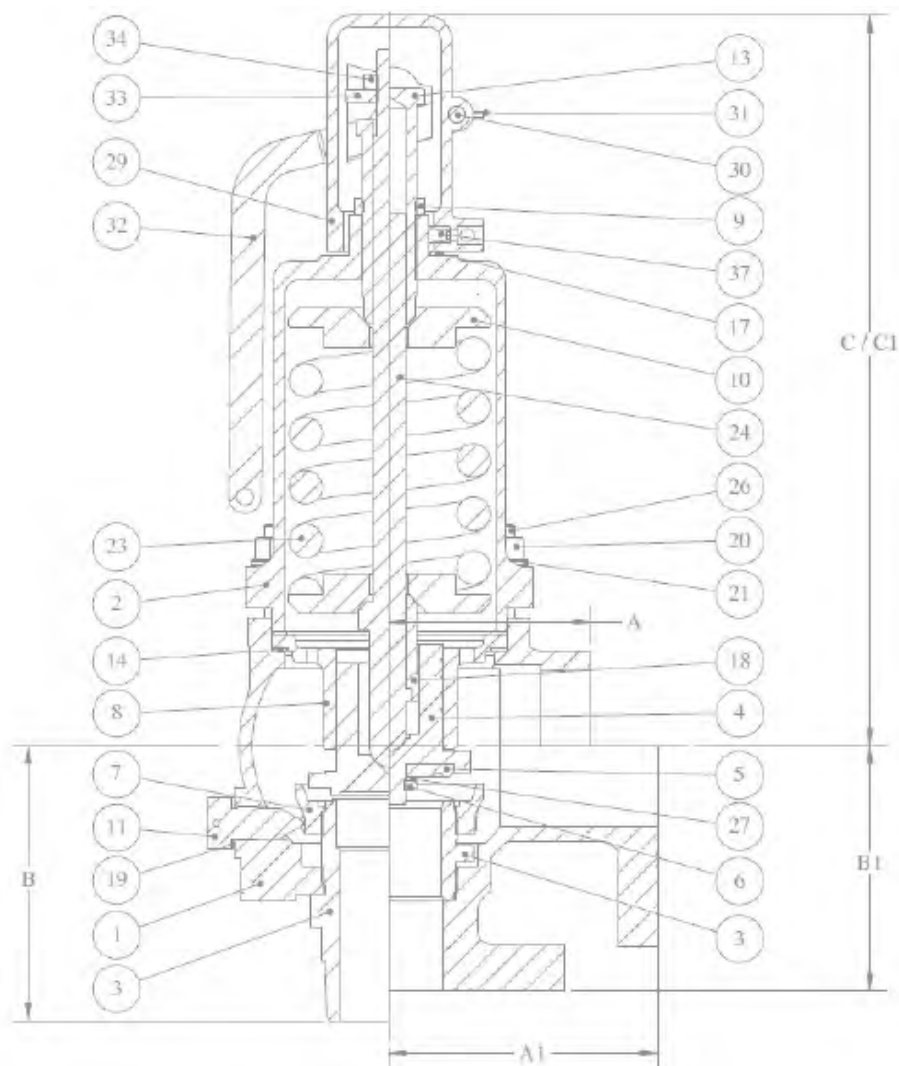
SELECTION & APPLICATION

The 7E range is available in sizes from 15mm to 150mm, and in screwed, BSP, NPT and variety of flanged connections. The 7E range suits applications across numerous industries including building services, cryogenics, pharmaceuticals, mining and food & beverage. Simply select the materials, the size and the connection type, and set pressure. Safety Relief valves should be sized to their application and never sized on pipeline connection alone. Should it be required, one of our product specialists can perform a sizing calculation for you based on your application parameters.

PRODUCT NUMBERING High Lift Relief Valves

7E	-	#	#	#	#	#	#	#	#	#	#	#	#	#		
Base No.	-	Material of Construction								Lever	Inlet Connection		-	###		
		Body, Cover, Cap	Seat	Valve/ Dsc Holder	Seat Type	Gasket	Spindle	BD Ring								
7E	-	1	Bronze			1	Hard	Fibre	BR	BR	0	No	00	Table E	-	015
		2	Brass	2	BR	2	Hard	PTFE	BR	BR	1	Yes	01	Table F	-	020
		3	Stainless 304			3	Soft	PTFE	BR	BR			02	Table H	-	025
		4	Stainless 316	4	SS	4	Hard	PTFE	SS	SS			05	BSPT (male)	-	032
		5	Monel	5	Monel	5	Soft	PTFE	SS	SS			08	BSPT (Female)	-	040
		6	Ductile Iron			6	Hard	Fibre	SS	SS			1A	#150	-	050
		7	Cast Iron										3A	#300	-	065
		8	Nickle AL Bronze										5A	NPT		080
		9	Cast Steel										5P	BSPP	-	100
													6A	#600	-	150

All build options are available from Mack on special order, thus enabling clients to create their own specifications for their own specific needs, but our stock is based around common material specifications favoured by the cryogenic, steam and general process industries.



ITEM NO.	DESCRIPTION
1	Body
2	Spring Cover
3	Seat
4	Disc Holder / Valve
5	Disc (4)
6	Disk Locknut (4)
7	Blowdown Ring
8	Guide Plate
9	Locknut
10	Spring Pad
11	Lockscrew
12	Hex Plug (Not Shown)
13	Adjusting Screw
14	Gasket (3)
15	Nameplate (Not Shown)
16	Drive Pin (Not Shown)
17	Gasket (3)
18	Spindle Sleeve (40 & 50mm)
19	Lockscrew Gasket
20	Hex Nut (1)
21	Washer (1)
22	Tie Wire (Not Shown)
23	Spring
24	Spindle
26	Stud (1)
27	Disc Washer (4)
29	Lockup Top (2) / Cap (3)
30	Lever Pin (2)
31	Split Pin (2)
32	Lever (2)
33	Spindle Nut (2)
34	Locknut (2)
37	Grub Screw (2)

	CENTRE TO OUTLET FACE									INLET FACE TO CENTRE									CENTRE LINE TO TOP		
	A (Screwed)	A1 #150 FF Brnz	A1 #300 FF Brnz	A1 #150 RF Brnz	A1 #300 RF Brnz	A1 Table H Brnz	A1 #150 CSS	A1 #300 CSS	A1 Table H CSS	B (Screwed)	B1 #150 FF Brnz	B1 #300 FF Brnz	B1 #150 RF Brnz	B1 #300 RF Brnz	B1 Table H Brnz	B1 #150 CSS	B1 #300 CSS	B1 Table H CSS	C Relief	C1 Safety	
15mm	38	75	75	75	75	75	75	75	75	59	55	55	65	65	55	65	65	65	65	140	153
20mm	48	86	83	86	86	86	83	83	83	64	64	64	73	73	64	73	73	64	159	167	
25mm	57	99	99	99	99	99	99	99	99	86	90	90	103	103	90	103	103	90	218	221	
32mm	64	90	90	91	91	90	91	91	90	97	90	90	105	105	90	105	105	90	232	235	
40mm	73	108	108	108	108	108	108	108	108	108	95	95	105	105	95	105	105	95	275	288	
50mm	95	127	127	127	127	127	127	127	127	130	114	116	114	114	114	114	114	114	328	344	
65mm	NA	146	146	146	146	146	146	146	146	NA	140	140	140	140	140	140	140	140	403	461	
80mm	NA	165	165	164	165	165	164	164	165	NA	165	165	165	165	165	165	165	165	437	494	
100mm	NA	184	184	184	184	184	184	184	184	NA	156	156	156	156	156	156	156	156	464	530	
150mm	NA	240	240	240	240	240	240	240	240	NA	217	219	217	219	217	217	219	217	660	772	

Notes

- 1) Bolted cover for 50mm+ size valves only
- 2) Lever operated valves only
- 3) Closed Cap valves only
- 4) Soft seated valves only

