

SAFETY VALVES

Model EP 496

Full lift with
spring loading

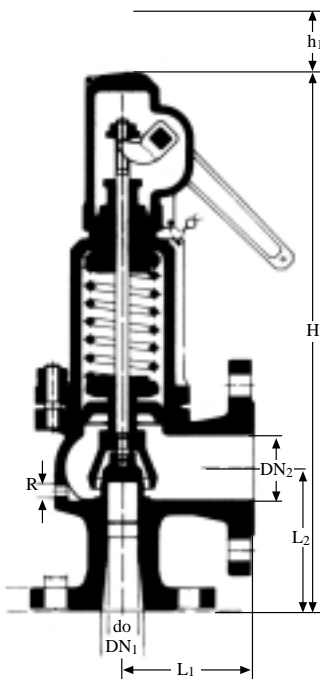
Inlet P max. 16 bar
Outlet P 0,95 to 16,0 bar

Flanged PN16
DN20 to DN200



Model EP 496

Cast iron body
Stainless steel internals



VYC

Applications - suitable for free exhaust of air, gas or steam to atmosphere and for piped exhaust of liquids. In air and gas lines: after pressure reducing set; on pressure vessel; on pressure line; on air receiver; on compressor. In steam lines within the P/T limits shown below: after pressure reducing set; on steam boilers; in steam reticulation; on steam accumulators; on calorifiers. In water and oil lines: after pressure reducing valve; pressure vessel protection; to pumps; to process machines and lines; on hot water boilers.

Specification - the safety valve is normally supplied with a spring for a set pressure of 9,5 to 12,5 bar. Other springs are available for ranges 0,95 to 1,4 bar; 1,3 to 1,9 bar; 1,8 to 2,6 bar; 2,5 to 3,6 bar; 3,5 to 5,0 bar; 4,8 to 6,3 bar; 6,0 to 8,0 bar; 7,5 to 10,0 bar; 12,0 to 16,0 bar. To set the valve clamp the inlet flange to a test rig with a supply of air or nitrogen for gas and steam applications and water for a liquid application. In both cases the supply pressure must be higher than the set pressure required. Move the lever in a horizontal position, remove sealing wire with lead seal and unscrew the cap complete with lever. Loosen the lock nut, hold the spindle steady and unscrew the cap complete with lever. Loosen the lock nut, hold the spindle steady and turn adjusting screw clockwise to increase the pressure and anti-clockwise to decrease the pressure. Check the gauge. Tighten the lock nut and screw and screw on the cap until sealing wire lugs are in alignment. Fit sealing wire with lead seal and test the valve by easing the plug disk off its seat by moving the lever downwards.

P/T ratings

Temperature °Celsius	-10° to +120°	200°	250°	300°
Pressure bar	16	13	13	13

Materials

Part	Material	Part	Material
Body	Cast iron	Spring holder	Carbon steel
Bonnet	Cast iron	Spacer	Stainless steel
Cap	Cast iron	Spindle	Stainless steel
Dome	Nodular iron	Lever shaft	Carbon steel
Cam	Nodular iron	Spring	V. Cr. Steel
Lever	Nodular iron	Adjusting screw	Stainless steel
Seat	Stainless steel	Lock nut	Stainless steel
Plug disk	Stainless steel	Thrust nut	Stainless steel
Guide	Stainless steel	Spindle nut	Carbon steel

Testing - each safety valve is tested for body and seat tightness

Dimensions mm / Weights

DN ₁ x DN ₂	20x32	25x40	32x50	40x65	50x80	65x100	80x125	100x150
Seat do	16	20	25	32	40	50	63	77
$A_o = \frac{\pi \cdot do^2}{4}$	201	314	491	804	1257	1964	3117	4657
H	350	395	415	500	555	660	710	810
h ₁	112	129	129	148	148	191	191	191
L ₁	85	95	100	115	125	140	155	175
L ₂	95	105	110	130	145	150	170	180
R	/ "	/ "	/ "	/ "	/ "	/ "	/ "	/ "
kg	8,0	9,6	13,9	20,3	26,7	39,5	55,5	82,2

Options - without lever and closed cap; open bonnet; body material nodular iron, cast steel or stainless steel, seats in Viton, Silicone rubber or PTFE; special springs.

