Enclosed Discharge Safety Relief Valves

for compressed air or gases

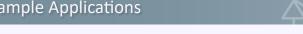


Safety valves made with a Brass or Stainless Steel body and Stainless Steel inlets < Enclosed discharge valve with threaded connections <

Type 33110 / 34110 / 34410

Elastomer rubber sealing <

Example Applications



- Air / gas compressors
- Pressure vessels
- Pneumatic systems
- Medical gases/Technical gases
- Hydrogen (with 316 stainless steel inlet)



Specifications



- Inlet connections: 3/8" to 1/2" threaded inlet connections
- Temperature range:-40°C to +200°C (depending on body rubber seal material)
- Pressure range: 27 to 36 & 48.3 to 241.3 bar

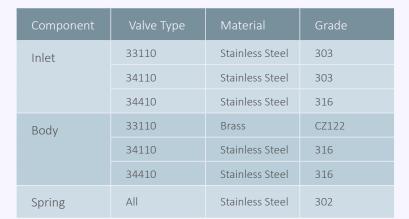




- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)

CE CK

Materials of Construction



Drawing showing all component materials available upon request.

Seal Materials



O'ring material – Top cap	Temperature Range		
Viton® (FKM)	-15°C to +200°C		
Nitrile (NBR)	-40°C to +120°C		

Standard seal materials shown, others are available.

Top fitting



Sealed Cap (gas tight cap)



THESE VALVES SHOULD ONLY BE TESTED FOR SET PRESSURE **RETURN TO CONTENTS PAGE**



Technical information by bore size

Bore size	3.66mm (33110)		3.66mm (34110)		3.66mm (34410)	
Inlet Size	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"
Outlet Size	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"
Flow Area	10.52mm²		10.52mm²		10.52mm²	
H - Height	92mm		92mm		92mm	
TÜV alloted outflow coefficient	0.73		0.73		0.73	
Weight (approximate) Kg	0.8		0.8		0.8	
Set Pressure range - PED (CE) bar	27 to 36 & 48.3 to 241.3 bar		27 to 36 & 48.3 to 241.3 bar		27 to 36 & 48.3 to 241.3 bar	
Relieving pressure/fully open pressure	Set pressure +10%					
Reseating pressure	Set pressure -10%					

Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced.

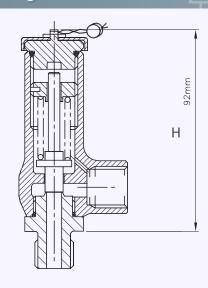
Standard INLET Connection Types

- BSP parallel male thread
- BSP taper male thread
- NPT male thread

Standard OUTLET Connection Types

- BSP parallel female thread
- NPT female thread

Valve Drawing



Valve Selection Guide

Valve type	Inlet Size	Inlet Thread Type	Outlet Thread Type	Seal Material	Set pressure
33110, 34110 or 34410 (see materials)	Select inlet size from above table	Select Inlet Thread type	Select Oulet Thread type	See table	Set pressure from available range

EAC marking available upon request

Example of Valve Selection Process

Example Selection	33110	1/2"	BSP parallel	BSP parallel		100 bar
	Valve Type	Inlet Size	Inlet Thread Type	Outlet Thread Type	Seal Material	Set Pressure



^{*}Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Type 33110, 34110 and 34410: Flow rates at 10% above the set pressure



Set Pressure		Bore Size (D0)					
		3.66mm					
bar	psi	Nm³/Hour					
27	391.5	160.7					
30	435	177.9					
33	478.5	195.2					
36	522	212.5					
48	696	281.5					
50	725	293.0					
60	870.00	350.6					
70	1015	408.1					
80	1160	456.7					
90	1305	523.2					
100	1450	580.8					
150	2175	868.5					
200	2900	1156.2					
241	3494.5	1392.1					

For any intermediate pressures/flows please contact Seetru

