

Enclosed Discharge Safety Relief Valves

Seetru Limited

for compressed air or gases

cryogenic & liquefied gas

refrigeration

hydrogen

Type 329

Safety valves with either Bronze or Stainless Steel body <
Enclosed discharge valve with threaded connections <

Example Applications

- Air/Gas systems
- Natural Gas
- CNG/LNG
- Pressure vessels
- Medical gases
- Technical Gases
- CO2 refrigeration
- Ammonia refrigeration (Stainless steel)
- Cryogenic applications
- Liquefied gases

Specifications

- Inlet connections: 3/8" to 3/4"
- Temperature range: -196°C to +70°C
- Pressure range: 53.0 to 370.0 bar

Materials of Construction

Component	Material	Grade
Inlet	Stainless Steel	1.4401 (316)
Body	Bronze	C83600
	Stainless Steel	1.4408 (316)
Internal Parts	Brass	BS EN 12164 CW614N
	Stainless Steel	1.4401 (316)
Spring	Stainless Steel	1.4310 (302)

Approvals

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



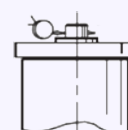
Seal Materials

Seal Material	Temperature Range
PTFE (up to 202 bar) PPS (202 to 370 bar)	-196°C to +70°C

Standard seal materials shown, others are available.

Top Fitting Options

- **Standard Option**
Sealed Cap (gas tight cap)



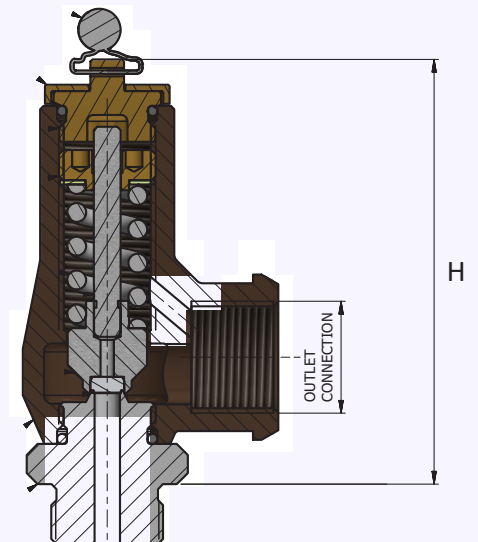
Technical information by bore size



Bore size	6mm		
Inlet Size	3/8"	1/2"	3/4"
Outlet Size	3/4"		
Flow Area	28.2mm ²		
H - Height	100mm (53.0 to 240.0 bar) 114mm (240.0 to 370.0 bar)		
TÜV allotted outflow coefficient	0.77		
NB Certified rated slope (ASME)	0.7scfm/psia		
Weight (approximate) Kg	0.8		
Set Pressure range - PED (CE) bar	53.0 to 370.0		
Set Pressure range - ASME (UV) psi	768.5 to 5365.0		
Relieving pressure/fully open pressure	Set pressure +10%		
Reseating pressure	Set pressure -15%		

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

Valve drawing



Standard Thread 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 Selection Guide



Valve Type	Body Material	Approval Required	Select Bore	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal Material
329	Stainless Steel Bronze	PED (CE)	6mm	Select inlet size from above table	Select Inlet thread type	Select Outlet thread type	Sealed cap	PTFE
		PED (CE), ASME (UV, NB), CRN						

EAC marking available upon request

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


Example of Valve Selection Process



Example Selection	Bronze	329	PED (CE)	6	1/2"	NPT	NPT	Sealed Cap	PTFE	175 bar
	Body Material	Valve Type	Approval	Bore = 6mm	Inlet Size	Inlet Thread Type	Outlet Thread Type	Top Fitting	Seal	Set Pressure

Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour
Type 329: Flow rates at 10% above the set pressure




Set Pressure		Bore Size (D0)				
						
		6mm				
bar	psi	Nm³/Hour				
53	768.5	879.6				
60	870.0	993.8				
70	1015.0	1156.9				
80	1160.0	1320.0				
90	1305.0	1483.1				
100	1450.0	1646.3				
150	2175.0	2461.9				
200	2900.0	3277.5				
250	3625.0	4093.1				
300	4350.0	4908.7				
350	5075.0	5724.4				
370	5365.0	6050.6				

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance with ASME BPVC.XIII, AIR at 60°F and 14.7 psia/scfm. SCFM
Type 329: Flow rates at 10% above the set pressure



Set Pressure		Bore Size (D0)				
						
		6mm				
psi	bar	SCFM				
768.5	53	602				
870	60	680				
913.5	63	714				
1203.5	83	937				
1305	90	1015				
1450	100	1127				
2175	150	1685				
2900	200	2243				
2929	202	2266				
3480	240	2690				
3625	250	2802				
4350	300	3360				
5075	350	3918				
5365	370	4141				

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