Enclosed Discharge Safety Relief Valves

for compressed air & gas

hydrogen

Seetru Limited

Туре В4605 / В6605 / 359

Safety valves made from Stainless Steel < Enclosed discharge valve with threaded connections <

Example Applications

- Air/Gas compressors
- Natural Gas
- Pressure vessels
- Medical gases
- Technical Gases
- Hydrogen production/generation



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)



Specifications

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- Inlet connections: 3/8" and 1/2"
- Temperature range:
 - 0°C to 200°C (with 1.4057 (431) stainless steel inlet)
 - -50°C to 150°C (with 1.4401 (316) stainless steel inlet)
- Pressure range: 35.0 to 500.0 bar

Materials of ConstructionComponentMaterialGradeInletStainless Steel1.4057 (431)InletStainless Steel1.4401 (316)BodyStainless Steel1.4408 (316)Internal PartsStainless Steel1.4305 (303)

Stainless Steel

1.4310 (302)

Inlet Seat Material

This valve seals using a metal ball design						
Seal Material	Temperature Range					
Stainless steel 1.4057 (431)	0°C to +200°C					
Stainless steel 1.4401 (316)	-50C to +150°C					

Standard seal materials shown, others are available.

Top Fitting Options

- Standard Option Sealed Cap (gas tight cap)





Spring

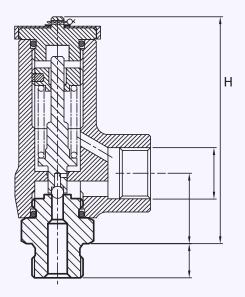
Technical information by bore size



Bore size	4.6mm				
Inlet Size	3/8"	1/2"			
Outlet Size	1/2"				
Flow Area	16.6mm²				
H - Height	96	Smm			
TÜV alloted outflow coefficient	0.402				
NB Certified rated slope (ASME)	0.34 scfm/psia				
Weight (approximate) Kg	0.8				
Set Pressure range - PED (CE) bar	essure range - PED (CE) bar 35.0 to 500.0				
Set Pressure range - ASME (UV) psi	507.5 to 7250.0				
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

Valve drawing



IMPORTANT NOTE:

These valves should only be tested for set pressure on liquid prior to final installation. Valves that are tested on air & fully lifted will cause damage to the sealing face.

Standard Thread Connection Types

- BSP Parallel male thread
- BSP Taper male thread
- NPT male thread

flow is not reduced

Standard Outlet Connection Types

- BSP Parallel female thread
- NPT female thread

Valve Selection Guide

Valve Type	Inlet Material	Approval Required (Avaialble for both Inlet materials)	Select Bore	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal Material
B6605	Stainless Steel 1.4057 (431)	PED (CE)		size from	Select Inlet	Select Outlet thread type	Sealed cap	Metal ball seal
B4605	Stainless Steel 1.4401 (316)	PED (CE)	4.66mm		thread type			

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	1.4057 (431)		PED (CE)	4.66	1/2"			Sealed Cap	Ball Seal	
Selection	Inlet Material	Valve Type	Approval	Bore = 4.6mm	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 Flow rates at 10% above the set pressure

6 · F		Bore Size (D0)						
Set Pressure		4.6mm						
bar	psi	Nm³/Hour						
35	507.5	179.8						
50	725.0	254.9						
100	1450.0	505.2						
150	2175.0	755.5						
200	2900.0	1005.8						
250	3625.0	1256.0						
300	4350.0	1506.3						
350	5075.0	1756.6						
400	5800.0	2006.9						
450	6525.0	2257.2						
500	7250.0	2507.5						

