

*for compressed air or gases*

## Type 848 / 841

Safety valves made from Stainless Steel <  
Atmospheric discharge with threaded connections <

### Example Applications

- Compressors
- Pressure vessels
- Pneumatic systems
- Transport and railway systems

### Specifications

- Inlet connections: 1/4" to 1/2"
- Temperature: -60°C to +200°C (depending on seal material)
- Pressure range: 0.55 to 21.0 bar

### Materials of Construction

Component	Material	Grade
Body	Stainless Steel	1.4401 (316)
Internal Parts	Stainless Steel	1.4401 (316)
Spring	Stainless Steel	1.4310 (302)

### Easing Gear / Lifting Gear Options

- **Standard option** – Rota-lift cap, twist type
- **Other option** - Spindle lift



### 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
- EAC



### Seal Materials

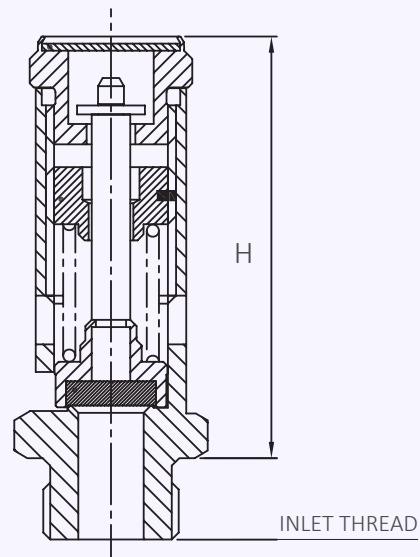
Seal Material	Temperature Range
Viton® (FKM)	-15°C to +200°C
Hydrogenated Nitrile (HNBR)	-60°C to +150°C

## Technical information by bore size

Bore size	8mm		
Inlet Size	1/4"	3/8"	1/2"
Flow Area	50.27 mm <sup>2</sup>		
H - Height (Rota-lift cap)	52mm (1/4" & 3/8") 56mm (1/2")		
TÜV allotted outflow coefficient <sup>1</sup>	0.74		
NB Rated discharge coefficient (ASME)	0.748		
Weight (approximate) Kg	0.3		
Set Pressure range - PED (CE) bar	0.55- 21.0		
Set Pressure range - ASME (UV) psi	43.5- 304.5		
Relieving pressure/fully open pressure	Set Pressure +10% (0.1 bar below 1.0 bar)		
Reseating pressure	Set pressure -10% (0.3 bar below 3.0 bar)		

<sup>1</sup> TÜV allotted outflow coefficients for pressures above 3.0 bar, for lower pressures please see the flow rate tables or contact Seetru.

## Valves with Rota-lift Easing Gear



## Standard Thread Connection Types

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

## Valve Selection Guide

Approval Required	Valve type	Select Bore	Inlet Size	Thread Type	Easing Gear	Seal Material
PED (CE)	848	8mm	Select inlet size from above table	Select thread type	Select easing gear (rota-lift is the standard option)	Viton®
PED (CE), ASME (UV) & CRN	841					HNBR

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	CE	848	8	1/4"	BSP Taper	Rota-lift	Viton	13.5 bar
	Approval	Valve Type	Bore = 8mm	Inlet Size	Thread Type	Easing Gear	Seal	Set Pressure

Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m<sup>3</sup>/hour  
 Type 848: Flow rates at 10% above the set pressure.



Set Pressure		Bore Size (D0)				
Bar g	Psi g		8mm			
		Nm <sup>3</sup> /Hour				
0.55	7.975	41.5				
1	14.5	53.5				
2	29	81.4				
3	43.5	109.3				
4	58	137.2				
5	72.5	165.0				
6	87	192.9				
7	101.5	220.8				
8	116	248.6				
9	130.5	276.5				
10	145	304.3				
11	159.5	332.2				
12	174	360.1				
13	188.5	387.9				
14	203	415.8				
15	217.5	443.7				
20	290	583.1				
21	304.5	610.9				

Capacity Table - In accordance with ASME BPVC.XIII, AIR at 60°F and 14.7 psia/scfm. SCFM  
 Type 841 (848): Flow rates at 10% above the set pressure.



Set Pressure		Bore Size (D0)				
psi	bar		8mm			
		SCFM				
43.5	3.00	66.8				
50	3.45	74.4				
60	4.14	86.1				
70	4.83	97.9				
80	5.52	109.6				
90	6.21	121.4				
100	6.90	133.1				
150	10.34	191.8				
200	13.79	250.5				
250	17.24	309.2				
300	20.69	367.9				
304.5	21.00	373.2				