



Type 437

Safety Relief Valves
– spring loaded

Metric Units



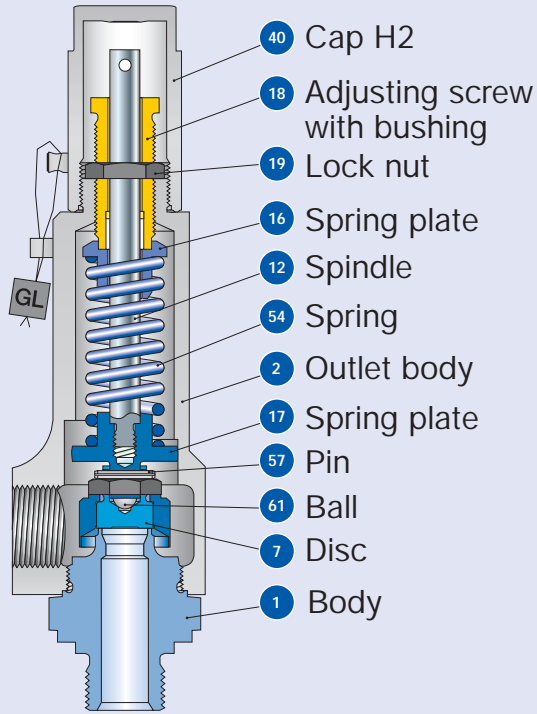
Facts

LESER

The-Safety-Valve.com

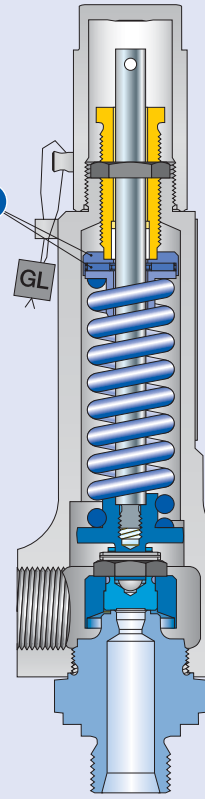
Available designs

Type 437

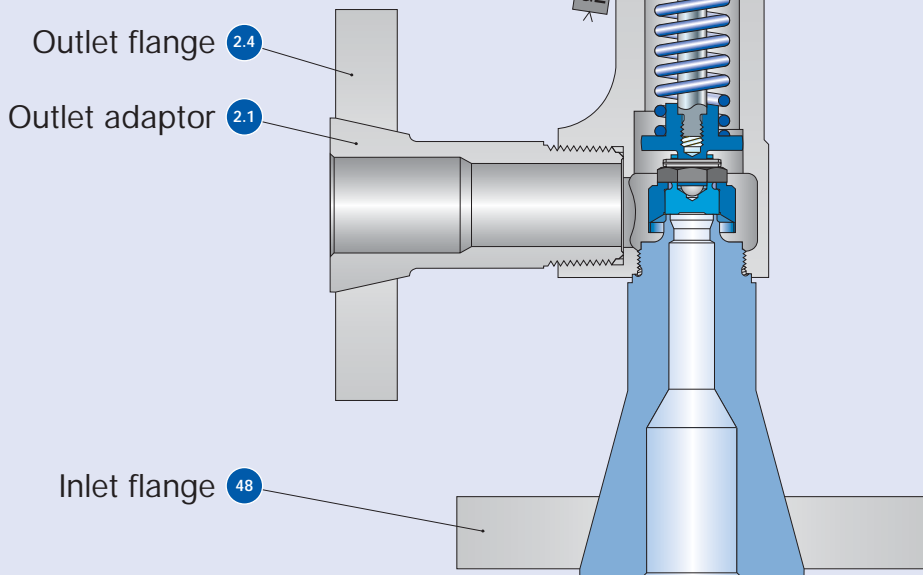


Conventional design
Threaded connection

Axial needle bearing 69



Long version
Threaded connection



Conventional design
Flange connection

Available designs – materials

Materials			Type 4373	Type 4374
Item	Component	Remarks	Type 4373	Type 4374
1	Base / Inlet body	Threaded connection	1.4104 SA 479 430	1.4404 SA 479 316L
		Flange connection	1.4404 SA 479 316L	1.4404 SA 479 316L
		Long version	1.4404 Stellite SA 479 316L Stellite	1.4404 Stellite SA 479 316L Stellite
2	Outlet body		1.4104 SA 479 430	1.4404 SA 479 316L
2.1	Outlet adaptor	Flange connection	1.4404 316L	1.4404 316L
2.4	Outlet flange	Flange connection	1.4404 316L	1.4404 316L
7	Disc		1.4122 Hardened stainless steel	1.4404 SA 316L
		Long version	1.4404 Stellite 316L Stellite	1.4404 Stellite 316L Stellite
12	Spindle		1.4021 420	1.4404 316L
16/17	Spring plate		1.4104 Chrome steel	1.4404 316L
18	Adjusting screw with bushing		1.4104 / PTFE Chrome steel / PTFE	1.4104 / PTFE 316L / PTFE
19	Lock nut		1.0718 Steel	1.4404 316L
40	Cap H2		1.0718 Steel	1.4404 316L
48	Inlet flange	Flange connection	1.4404 316L	1.4404 316L
54	Spring		1.4310 Stainless steel	1.4310 Stainless steel
57	Pin		1.4310 Stainless steel	1.4310 Stainless steel
61	Ball		1.3541 Hardened stainless steel	1.4401 316
69	Axial needle bearing	Long version	1.4404 316L	1.4404 316L

Please notice:

- Modifications reserved by LESER.
- LESER can upgrade materials without notice.
- Every part can be replaced by other material acc. to customer specification.

How to order – Article numbers

Article numbers

		Conventional design	
Actual Orifice diameter d_0 [mm]		10	
Actual Orifice area A_0 [mm ²]		78,5	
Actual Orifice diameter d_0 [inch]		0,394	
Actual Orifice area A_0 [inch ²]		0,122	
Base / Inlet body material: 1.4104 (430)			
H2	Art.-No. 4373.	2602	
H3	Art.-No. 4373.	2603	
$p_{max} = 10 \text{ bar}_g$			
H4	Art.-No. 4373.	2604	
p [bar _g]	S/G/L	0,1 – 93	
p [psig]	S/G/L	1,5 – 1349	
Base / Inlet body material: 1.4404 (316L)			
H2	Art.-No. 4374.	3142	
H4	Art.-No. 4374.	3144	
p [bar _g]	S/G/L	0,1 – 68	
p [psig]	S/G/L	1,5 – 986	

Article numbers

		Long version		
Actual Orifice diameter d_0 [mm]		6	6	10
Actual Orifice area A_0 [mm ²]		28,3	28,3	78,5
Actual Orifice diameter d_0 [inch]		0,236	0,236	0,394
Actual Orifice area A_0 [inch ²]		0,044	0,044	0,122
Base / Inlet body material: 1.4104 (430)				
H2	Art.-No. 4373.	2622	–	2612
H4	Art.-No. 4373.	2624	–	2614
p [bar _g]	S/G/L	180 – 365	–	93 – 180
p [psig]	S/G/L	2611 – 5294	–	1349 – 2611
Base / Inlet body material: 1.4404 (316L)				
H2	Art.-No. 4374.	3122	3132	3153
H4	Art.-No. 4374.	3124	3134	3154
p [bar _g]		S/G 180 – 365	L 180 – 380 ¹⁾	S/G/L 68 – 180
p [psig]		S/G 2611 – 4786	L 2611 – 5511	S/G/L 986 – 2611

¹⁾ At the moment no TÜV approval, useable for thermal expansion.
 Use "Long version" only for set pressure exceeding set pressure range of "Standard" model.
 For selection of inlet and outlet connection please refer to page 04/04 – 04/05.

Dimensions and weights – Metric Units

Type 437

Threaded connections

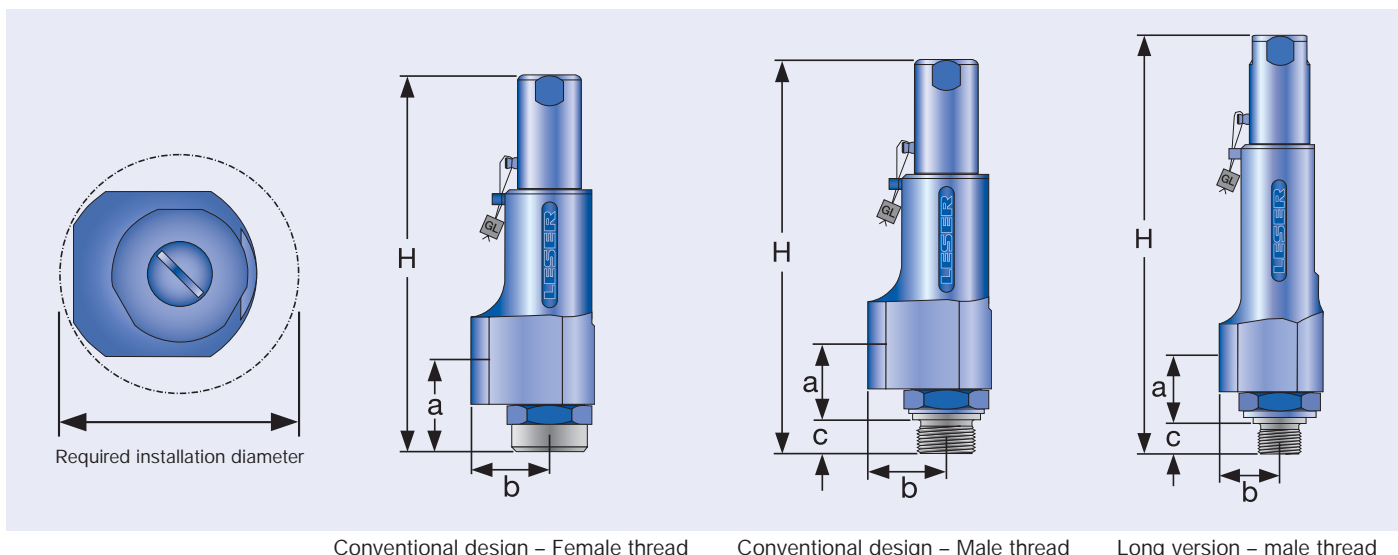
		Conventional design			Long version						
Size Outlet body		1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	
Actual Orifice diameter d_0 [mm]		10	10	10	6	6	6	10	10	10	
Actual Orifice area A_0 [mm ²]		78,5	78,5	78,5	28,3	28,3	28,3	78,5	78,5	78,5	
Weight [kg]		1,2	1,6	1,6	1,4	2,1	2,1	1,4	2,1	2,1	
Required installation diameter [mm]		65	80	80	65	80	80	65	80	80	
Inlet thread "Female"											
DIN ISO 228-1	G	Inlet a	45	55	55	45	55	55	45	55	55
		Center to face [mm]	Outlet b	30	37	37	30	37	37	30	37
Height [mm]		H max.	210	220	220	230	240	240	230	240	240
ISO 7-1/BS 21	Rc	Inlet a	45	55	55	45	55	55	45	55	55
		Center to face [mm]	Outlet b	30	37	37	30	37	37	30	37
Height [mm]		H max.	210	220	220	230	240	240	230	240	240
ANSI/ASME B1.20.1	NPT	Inlet a	45	55	55	45	55	55	45	55	55
		Center to face [mm]	Outlet b	30	37	37	30	37	37	30	37
Height [mm]		H max.	210	220	220	230	240	240	230	240	240
Inlet thread "Male"											
DIN ISO 228-1	G	Inlet a	33	33	36	33	33	36	33	33	36
		Center to face [mm]	Outlet b	30	37	37	30	37	37	30	37
ISO 7-1/BS 21	R	Inlet a	31	31	34	31	31	34	31	31	34
		Center to face [mm]	Outlet b	30	37	37	30	37	37	30	37
ANSI/ASME B1.20.1	NPT	Inlet a	31	31	34	31	31	34	31	31	34
		Center to face [mm]	Outlet b	30	37	37	30	37	37	30	37

Height inlet thread "Male"

		Conventional design				Long version			
Inlet thread	Size	3/8"	1/2"	3/4"	1"	3/8"	1/2"	3/4"	1"
DIN ISO 228-1 [mm]	G H max.	210	212	214	216	230	232	234	236
ISO 7-1/BS 21 [mm]	R H max.	–	215	216	219	–	235	236	239
ASME B1.20.1 [mm]	NPT H max.	–	218	218	223	–	238	238	243

Length of screwed end "c" inlet thread "Male"

Inlet thread	Size	3/8"	1/2"	3/4"	1"
DIN ISO 228-1 [mm]	G	12	14	16	18
ISO 7-1/BS 21 [mm]	R	–	19	20	23
ASME B1.20.1 [mm]	NPT	–	22	22	27



Conventional design – Female thread

Conventional design – Male thread

Long version – male thread

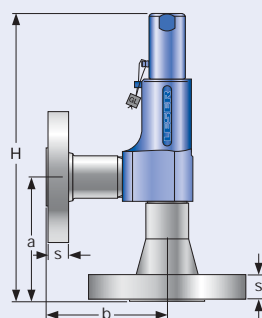
Dimensions and weights – Metric Units

Flanged connection

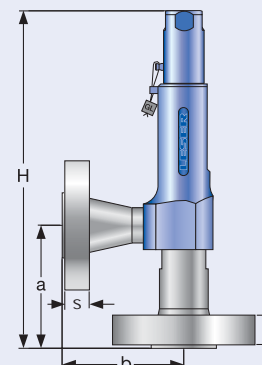
		Conventional design			Long version		
Actual Orifice diameter d_0 [mm]		6	10	6	10		
Actual Orifice area A_0 [mm ²]		28,3	78,5	28,3	78,5		
DIN ISO 1092-1 (Available flange sizes refer to page 04/05)							
Flange rating PN 40							
Center to face	[mm]	Inlet a	100	100	100	100	
		Outlet b	100	100	100	100	
Height [H4]	[mm]	H max.	263	263	284	284	
Flange rating \geq PN 160							
Center to face	[mm]	Inlet a	103	103	103	103	
		Outlet b	100	100	100	100	
Height [H4]	[mm]	H max.	266	266	287	287	
ASME B 16.5 (Available flange sizes refer to page 04/05)							
Flange rating class 150							
Center to face	[mm]	Inlet a	100	100	100	100	
		Outlet b	100	100	100	100	
Height [H4]	[mm]	H max.	263	263	284	284	
Flange rating class \geq 300							
Center to face	[mm]	Inlet a	103	103	103	103	
		Outlet b	100	100	100	100	
Height [H4]	[mm]	H max.	266	266	287	287	
Weight							
For the calculation of the total weight please use the Formular: $W_T = W_N + W_F$ (Inlet) + W_F (Outlet)							
Weight net	[kg]	W_N	2,4	2,4	2,8	2,8	
(without inlet and outlet flange)							

Flange dimensions and availability

		DIN ISO 1092-1 / Flange rating PN					ASME B16.5 / Flange rating class						
Size		40	160	250	320	400	Size	150	300	600	900	1500	2500
DN 15							NPS 1/2"						
Flange thickness	[mm] s	18	22	26	26	30	14	18		26		30,2	
Weight slip on flange	[kg] W_F	0,8	1,2	2,5	2,5	3,6	0,6	0,9		2,1		3	
Available at Inlet		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
Available at Outlet		✓	✓	✓			✓	✓		✓			
DN 20							NPS 3/4"						
Flange thickness	[mm] s	20	22				15	18		25,4		32	
Weight slip on flange	[kg] W_F	1,1	1,3				0,8	1,4		2,3		3,5	
Available at Inlet		✓	✓				✓	✓		✓		✓	✓
Available at Outlet		✓	✓				✓	✓		✓			
DN 25							NPS 1"						
Flange thickness	[mm] s	22	26	30	36	40	17	21,5		32,5		40	
Weight slip on flange	[kg] W_F	1,3	2,6	3,5	5	7,5	1	2,1		4,1		5,1	
Available at Inlet		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
Available at Outlet		✓	✓	✓	✓	✓	✓	✓		✓			



Conventional design



Long version

Pressure temperature ratings

Metric Units

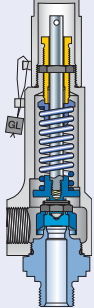
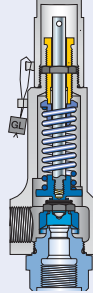
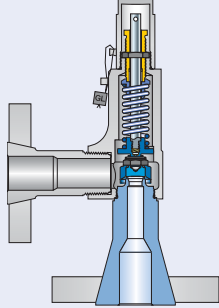
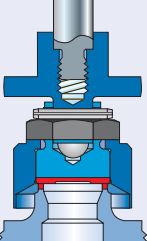
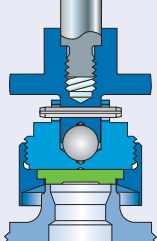
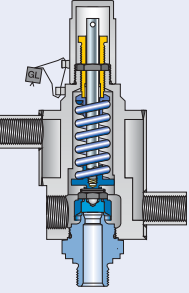
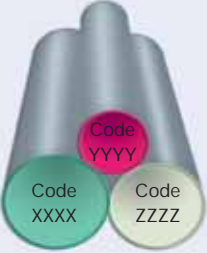
Actual Orifice diameter d_0 [mm]		6				10			
Actual Orifice Area A_0 [mm ²]		28,3				78,5			
Body material: 1.4104 (430)									
Base / Inlet Body	Connection size	3/8"	1/2"	3/4"	1"	3/8"	1/2"	3/4"	1"
	Pressure rating	PN 400				PN 250			
Outlet body	Pressure rating	PN 160				PN 160			
Minimum set pressure	p [bar _g] S/G/L	180 [S/G only]				0,1			
Maximum set pressure	p [bar _g] S/G/L	365 [S/G only]				10 only H3 180			
Temperature acc. to DIN EN	min [°C]	-10				-10			
	max [°C]	+220				+220			
Temperature acc. to ASME	min [°C]	-29				-29			
	max [°C]	+220				+220			
Body material: 1.4404 (316L)									
Base / Inlet Body	Connection size	3/8"	1/2"	3/4"	1"	3/8"	1/2"	3/4"	1"
	Pressure rating	PN 400				PN 250			
Outlet body	Pressure rating	PN 160				PN 160			
Minimum set pressure	p [bar _g] S/G/L	180 [S/G only]				0,1			
Maximum set pressure	p [bar _g] S/G/L	365 [S/G only]				10 only H3 180			
Temperature acc. to DIN EN	min [°C]	-270				-270			
	max [°C]	+280				+280			
Temperature acc. to ASME	min [°C]	-268				-268			
	max [°C]	+280				+280			

US Units

Actual Orifice diameter d_0 [inch]		0,236				0,394			
Actual Orifice area A_0 [inch ²]		0,044				0,122			
Body material: 1.4104 (430)									
Base / Inlet Body	Connection size	3/8"	1/2"	3/4"	1"	3/8"	1/2"	3/4"	1"
Minimum set pressure	p [bar _g] S/G/L	2610				1,			
Maximum set pressure	p [bar _g] S/G/L	5294				145 only H3 2610			
Temperature acc. to DIN EN	min [°F]	+14				+14			
	max [°F]	+428				+428			
Temperature acc. to ASME	min [°F]	-20				-20			
	max [°F]	+428				+428			
Body material: 1.4404 (316L)									
Base / Inlet Body	Connection size	3/8"	1/2"	3/4"	1"	3/8"	1/2"	3/4"	1"
Minimum set pressure	p [bar _g] S/G/L	2610				1,5			
Maximum set pressure	p [bar _g] S/G/L	5294				145 only H3 2610			
Temperature acc. to DIN EN	min [°F]	-450				-450			
	max [°F]	+536				+536			
Temperature acc. to ASME	min [°F]	-450				-450			
	max [°F]	+536				+536			

Available Options


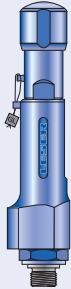
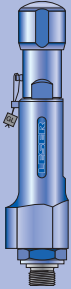
Type 437



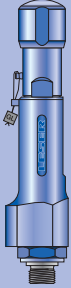
<p>Male thread</p> 	<p>Female thread</p> 	<p>Flanged version</p> 	
<p>Stellited sealing surface J25: Disc stellited L20: Base/inlet body</p> 	<p>Disc with inserted sealing plate J44: PTFE-FDA "A" J48: PCTFE "G" J49: VESPEL-SP1 "T"</p> 		
<p>Heating jacket H29</p> 			
<p>Special material 2.4610 Hastelloy® C4 2.4360 Monel® 400 1.4462 Duplex</p> 			

Application range of conventional design and long version

Type 437

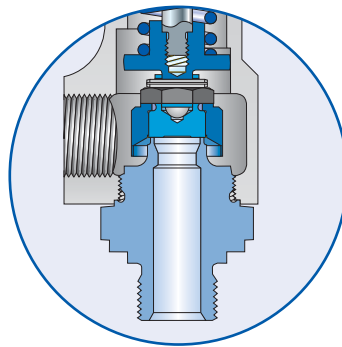
Application range

Type 4373	Conventional design		Long version				Set pressure p [psig]																																																																									
	S/G/L	S/G	S/G/L	S/G																																																																												
 <table border="1"> <tr><th colspan="3">S/G/L</th></tr> <tr><td>Act. Orifice diameter</td><td>d₀ [mm]</td><td>10</td></tr> <tr><td></td><td>[inch]</td><td>0,394</td></tr> <tr><td>Act. Orifice area</td><td>A₀ [mm²]</td><td>78,5</td></tr> <tr><td></td><td>[inch²]</td><td>0,122</td></tr> <tr><th colspan="2">Components</th><th>Materials</th></tr> <tr><td>Base / Inlet Body</td><td></td><td>1.4104 SA 479 430</td></tr> <tr><td>Disc</td><td></td><td>1.4122 Hardened stainless steel</td></tr> </table>	S/G/L			Act. Orifice diameter	d ₀ [mm]	10		[inch]	0,394	Act. Orifice area	A ₀ [mm ²]	78,5		[inch ²]	0,122	Components		Materials	Base / Inlet Body		1.4104 SA 479 430	Disc		1.4122 Hardened stainless steel	 <table border="1"> <tr><th colspan="3">S/G/L</th></tr> <tr><td>Act. Orifice diameter</td><td>d₀ [mm]</td><td>10</td></tr> <tr><td></td><td>[inch]</td><td>0,394</td></tr> <tr><td>Act. Orifice area</td><td>A₀ [mm²]</td><td>78,5</td></tr> <tr><td></td><td>[inch²]</td><td>0,122</td></tr> <tr><th colspan="2">Components</th><th>Materials</th></tr> <tr><td>Base / Inlet Body</td><td></td><td>1.4104 SA 479 430</td></tr> <tr><td>Disc</td><td></td><td>1.4122 Hardened stainless steel</td></tr> </table>	S/G/L			Act. Orifice diameter	d ₀ [mm]	10		[inch]	0,394	Act. Orifice area	A ₀ [mm ²]	78,5		[inch ²]	0,122	Components		Materials	Base / Inlet Body		1.4104 SA 479 430	Disc		1.4122 Hardened stainless steel	 <table border="1"> <tr><th colspan="3">S/G</th></tr> <tr><td>Act. Orifice diameter</td><td>d₀ [mm]</td><td>6</td></tr> <tr><td></td><td>[inch]</td><td>0,236</td></tr> <tr><td>Act. Orifice area</td><td>A₀ [mm²]</td><td>28,3</td></tr> <tr><td></td><td>[inch²]</td><td>0,044</td></tr> <tr><th colspan="2">Components</th><th>Materials</th></tr> <tr><td>Base / Inlet Body</td><td></td><td>1.4404 Stellite SA 479 316L Stellite</td></tr> <tr><td>Disc</td><td></td><td>1.4404 Stellite SA 479 316L Stellite</td></tr> </table>	S/G			Act. Orifice diameter	d ₀ [mm]	6		[inch]	0,236	Act. Orifice area	A ₀ [mm ²]	28,3		[inch ²]	0,044	Components		Materials	Base / Inlet Body		1.4404 Stellite SA 479 316L Stellite	Disc		1.4404 Stellite SA 479 316L Stellite	986	1349	2611	4786	5294	5511
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0	68	93	180	330	365	380	Set pressure p [bar]																																																																									

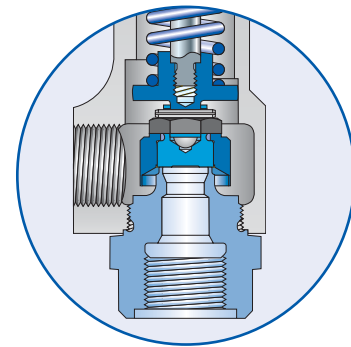
Type 4374	Conventional design		Long version				Set pressure p [bar]																																																																							
	S/G/L	S/G	S/G/L	S/G																																																																										
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Available connections

For dimensions and weights refer to:
 Type 437 – page 01/08 + 01/10
 Type 438 – page 02/08 + 02/10
 Type 439 – page 03/08 + 03/10



Male thread



Female thread

Threaded connections

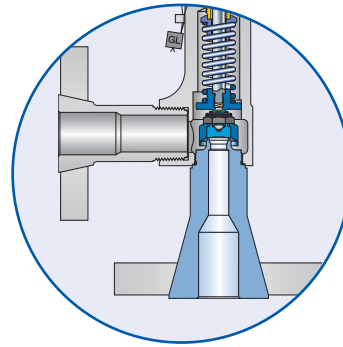
Available for complete 437 series

Valve size		Option code	Inlet	Option code	Outlet
Male thread DIN ISO 228-1					
G	3/8"	V49	✓	-	-
	1/2"	V54	✓	-	-
	3/4"	V55	✓	-	-
	1"	V56	✓	-	-
Female thread DIN ISO 228-1					
G	1/2"	V50	✓	V65	✓
	3/4"	V51	✓	V76	✓
	1"	V52	✓	V66	✓
Male thread DIN ISO 7-1/BS 21					
R/BSPT	1/2"	V30	✓	-	-
	3/4"	V31	✓	-	-
	1"	V32	✓	-	-
Female thread DIN ISO 7-1/BS 21					
Rc/BSPT	1/2"	V38	✓	V34	✓
	3/4"	V39	✓	V35	✓
	1"	V40	✓	V36	✓
Male thread ANSI/ASME B1.20.1					
NPT	1/2"	V61	✓	-	-
	3/4"	V62	✓	-	-
	1"	V63	✓	-	-
Female thread ANSI/ASME B1.20.1					
NPT	1/2"	V58	✓	V70	✓
	3/4"	V59	✓	V71	✓
	1"	V60	✓	V72	✓

Flanged and threaded connections can be combined.
 Threads according to other standards are available.
 Please specify in writing (diameter, pressure rating, standard).

Available connections

For dimensions and weights refer to:
 Type 437 – page 01/09 + 01/11
 Type 438 – page 02/09 + 02/11
 Type 439 – page 03/09 + 03/11



Flanged version

Flanged connections

Available for complete 437 series

	PN	Option code	Inlet	Option code	Outlet
DIN ISO 1092-1 (PN > 100: DIN 2501)					
DN 15	40	I21	✓	I40	✓
	160	I22	✓	I41	✓
	250	I23	✓	I42	✓
	320	I24	✓	-	-
	400	I25	✓	-	-
DN 20	40	I26	✓	I43	✓
	160	I27	✓	I44	✓
	250	-	-	-	-
DN 25	40	I31	✓	I46	✓
	160	I32	✓	I47	✓
	250	I33	✓	I48	✓
	320	I34	✓	-	-
	400	I35	✓	-	-

	Class	Option code	Inlet	Option code	Outlet
ANSI/ASME B 16.5					
NPS 1/2"	150	V01	✓	V24	✓
	300	V02	✓	V13	✓
	600	V02	✓	V13	✓
	900	V03	✓	V14	✓
	1500	V03	✓	-	-
	2500	V04	-	-	-
NPS 3/4"	150	V05	✓	V15	✓
	300	V06	✓	V16	✓
	600	V06	✓	V16	✓
	900	V07	✓	V17	✓
	1500	V07	✓	-	-
	2500	V08	✓	-	-
NPS 1"	150	V09	✓	V18	✓
	300	V10	✓	V19	✓
	600	V10	✓	V19	✓
	900	V11	✓	V20	✓
	1500	V11	✓	-	-
	2500	V12	✓	-	-

Flanged and threaded connections can be combined.
 Threads according to other standards are available.
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