



LESER Spring-loaded safety valve Type 548 series 433 steel low-lifting flange

- Type 548 low-light safety device made of steel in a right-angled design with flange, ideal for medium quantities.

The proportional range ensures quiet operation, especially for liquids.

Available with a set pressure of 0.2 barg to 40 barg in the following dimensions. DN15

- DN20
- DN32
- DN40
- DN50
- DN65
- DN80
- DN100
- DN125
- DN150

The set pressure must be specified when ordering.

For more information, visit: <https://eriks.com/en/our-locations/>

Characteristics

Series: 433

Type: 548

Norm: ISO 4126-1

Model: Spring-loaded safety valve

Construction type: Angle Pattern

Housing material inlet side: Steel

Material quality inlet side: 1.0619

Housing material outlet side: Steel

Material quality outlet side: 1.0619

Connection inlet side: Flange

Pressure rating inlet side: PN40

Connection outlet side: Flange

Pressure rating outlet side: PN40

Blow-off characteristic: Low-lifting

Gastight valve: Yes

Spring cap, closed: Yes

Material spring bonnet: Ductile cast iron

Material disc: 1.4122

Seat material: 1.4404

Spring material: Spring steel

Spindle material: 1.4404

Medium temperature: -85 / 450 °C

Application

- Liquids.Vapours.Steam.Gasses.Safety device type 548 made of light steel in a right-angled design with flange, ideal for medium-sized capacities.The proportional range ensures quiet operation, especially for liquids.Suitable for thermal expansion

Technical Information

- Spring safety, usually designed for use with liquids and thermal expansion, but also for use with gases or steam for smaller capacities.Due to the proportional operation at overpressure, there is a minimum discharge volume of the medium.Metal-sealing design in accordance with LESER nano-tightness, which achieves a lower leakage than specified in API527, and therefore less loss of medium and less emission.

Approval

- Available with:BV.DNV.GL.ABS.Lloyds. EMEA.RINA. EAK.NK.TÜV.PED/ISO 4126-1.PED/AD 2000 Merkblatt A2.AQSIQ.

Options

- O-ring seal on the valve, material type to be selected based on process data.
- Stainless steel bellows (back pressure compensation or shielding of the spring cap).
- EPDM bellows (shielding of spring cap).
- Sensing.
- Heating jacket.
- Flanges in accordance with ASME.

Safety Valves | Spring loaded safety valves with flanged connection

Nominal inner diameter inlet side	Nominal inner diameter outlet side	Adjustment range	Valve bore	Valve lifter	Sealing	Article
		bar	mm			Max. 200 articles in the table
DN20	DN20	0.51 / 0.85	18	Closed	Metal	13478909
DN20	DN20	0.86 / 1.19	18	Closed	Metal	13478910
DN20	DN20	33.91 / 40	18	Closed	Metal	13478922
DN20	DN20	4.5 / 6.4	18	Closed	Metal	13478915
DN20	DN20	24.01 / 28.4	18	Closed	Metal	13478920
DN20	DN20	3.4 / 4.49	18	Closed	Metal	13478914
DN20	DN20	28.41 / 33.9	18	Closed	Metal	13478921
DN20	DN20	0.24 / 0.3	18	Closed	Metal	13478907
DN20	DN20	1.2 / 1.69	18	Closed	Metal	13478911
DN20	DN20	18.61 / 24	18	Closed	Metal	13478919
DN20	DN20	0.2 / 0.23	18	Closed	Metal	13478906
DN20	DN20	1.7 / 2.39	18	Closed	Metal	13478912
DN20	DN20	12.81 / 18.6	18	Closed	Metal	13478918
DN20	DN20	2.4 / 3.39	18	Closed	Metal	13478913
DN20	DN20	0.31 / 0.5	18	Closed	Metal	13478908
DN20	DN20	9.21 / 12.8	18	Closed	Metal	13478917
DN20	DN20	6.41 / 9.2	18	Closed	Metal	13478916
DN20	DN20	0.2 / 0.23	18	No	Metal	13479082
DN20	DN20	1.7 / 2.39	18	No	Metal	13479088
DN20	DN20	33.91 / 40	18	No	Metal	13479098
DN20	DN20	3.4 / 4.49	18	No	Metal	13479090
DN20	DN20	1.2 / 1.69	18	No	Metal	13479087
DN20	DN20	2.4 / 3.39	18	No	Metal	13479089
DN20	DN20	0.86 / 1.19	18	No	Metal	13479086
DN20	DN20	28.41 / 33.9	18	No	Metal	13479097
DN20	DN20	0.51 / 0.85	18	No	Metal	13479085
DN20	DN20	12.81 / 18.6	18	No	Metal	13479094
DN20	DN20	18.61 / 24	18	No	Metal	13479095
DN20	DN20	6.41 / 9.2	18	No	Metal	13479092
DN20	DN20	24.01 / 28.4	18	No	Metal	13479096
DN20	DN20	4.5 / 6.4	18	No	Metal	13479091
DN20	DN20	0.24 / 0.3	18	No	Metal	13479083
DN20	DN20	9.21 / 12.8	18	No	Metal	13479093
DN20	DN20	0.31 / 0.5	18	No	Metal	13479084
DN25	DN25	0.86 / 1.19	18	Closed	Metal	13478927
DN25	DN25	0.31 / 0.5	18	Closed	Metal	13478925
DN25	DN25	1.2 / 1.69	18	Closed	Metal	13478928
DN25	DN25	0.51 / 0.85	18	Closed	Metal	13478926
DN25	DN25	12.81 / 18.6	18	Closed	Metal	13478935
DN25	DN25	6.41 / 9.2	18	Closed	Metal	13478933
DN25	DN25	3.4 / 4.49	18	Closed	Metal	13478931
DN25	DN25	28.41 / 33.9	18	Closed	Metal	13478938
DN25	DN25	1.7 / 2.39	18	Closed	Metal	13478929
DN25	DN25	2.4 / 3.39	18	Closed	Metal	13478930
DN25	DN25	0.2 / 0.23	18	Closed	Metal	13478923
DN25	DN25	0.24 / 0.3	18	Closed	Metal	13478924
DN25	DN25	4.5 / 6.4	18	Closed	Metal	13478932
DN25	DN25	33.91 / 40	18	Closed	Metal	13478939
DN25	DN25	9.21 / 12.8	18	Closed	Metal	13478934
DN25	DN25	18.61 / 24	18	Closed	Metal	13478936
DN25	DN25	24.01 / 28.4	18	Closed	Metal	13478937
DN25	DN25	0.31 / 0.5	18	No	Metal	13479101

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Safety Valves | Spring loaded safety valves with flanged connection

Nominal inner diameter inlet side	Nominal inner diameter outlet side	Adjustment range	Valve bore	Valve lifter	Sealing	Article
		bar	mm			Max. 200 articles in the table
DN25	DN25	0.24 / 0.3	18	No	Metal	13479100
DN25	DN25	2.4 / 3.39	18	No	Metal	13479106
DN25	DN25	18.61 / 24	18	No	Metal	13479112
DN25	DN25	28.41 / 33.9	18	No	Metal	13479114
DN25	DN25	0.86 / 1.19	18	No	Metal	13479103
DN25	DN25	1.7 / 2.39	18	No	Metal	13479105
DN25	DN25	0.51 / 0.85	18	No	Metal	13479102
DN25	DN25	9.21 / 12.8	18	No	Metal	13479110
DN25	DN25	33.91 / 40	18	No	Metal	13479115
DN25	DN25	6.41 / 9.2	18	No	Metal	13479109
DN25	DN25	0.2 / 0.23	18	No	Metal	13479099
DN25	DN25	1.2 / 1.69	18	No	Metal	13479104
DN25	DN25	24.01 / 28.4	18	No	Metal	13479113
DN25	DN25	12.81 / 18.6	18	No	Metal	13479111
DN25	DN25	3.4 / 4.49	18	No	Metal	13479107
DN25	DN25	4.5 / 6.4	18	No	Metal	13479108
DN32	DN32	0.31 / 0.42	18	Closed	Metal	13478941
DN32	DN32	0.59 / 0.8	18	Closed	Metal	13478943
DN32	DN32	24.01 / 28.5	18	Closed	Metal	13478955
DN32	DN32	1.5 / 2.19	18	Closed	Metal	13478946
DN32	DN32	0.24 / 0.3	18	Closed	Metal	13478940
DN32	DN32	19.71 / 24	18	Closed	Metal	13478954
DN32	DN32	2.2 / 3.09	18	Closed	Metal	13478947
DN32	DN32	11.41 / 15.4	18	Closed	Metal	13478952
DN32	DN32	5.71 / 7.8	18	Closed	Metal	13478950
DN32	DN32	0.81 / 0.99	18	Closed	Metal	13478944
DN32	DN32	0.43 / 0.58	18	Closed	Metal	13478942
DN32	DN32	1 / 1.49	18	Closed	Metal	13478945
DN32	DN32	15.41 / 19.7	18	Closed	Metal	13478953
DN32	DN32	3.1 / 4.09	18	Closed	Metal	13478948
DN32	DN32	4.1 / 5.7	18	Closed	Metal	13478949
DN32	DN32	28.51 / 33.9	18	Closed	Metal	13478956
DN32	DN32	33.91 / 40	18	Closed	Metal	13478957
DN32	DN32	7.81 / 11.4	18	Closed	Metal	13478951
DN32	DN32	0.24 / 0.3	18	No	Metal	13479116
DN32	DN32	0.43 / 0.58	18	No	Metal	13479118
DN32	DN32	0.31 / 0.42	18	No	Metal	13479117
DN40	DN40	0.24 / 0.34	23	Closed	Metal	13478959
DN40	DN40	30.81 / 40	23	Closed	Metal	13478974
DN40	DN40	3.61 / 5.08	23	Closed	Metal	13478967
DN40	DN40	1.81 / 2.55	23	Closed	Metal	13478965
DN40	DN40	1.28 / 1.8	23	Closed	Metal	13478964
DN40	DN40	14.31 / 20.2	23	Closed	Metal	13478971
DN40	DN40	23.61 / 30.8	23	Closed	Metal	13478973
DN40	DN40	0.91 / 1.27	23	Closed	Metal	13478963
DN40	DN40	2.56 / 3.6	23	Closed	Metal	13478966
DN40	DN40	20.21 / 23.6	23	Closed	Metal	13478972
DN40	DN40	10.11 / 14.3	23	Closed	Metal	13478970
DN40	DN40	0.35 / 0.49	23	Closed	Metal	13478960
DN40	DN40	0.5 / 0.63	23	Closed	Metal	13478961
DN40	DN40	5.09 / 7.18	23	Closed	Metal	13478968
DN40	DN40	0.2 / 0.23	23	Closed	Metal	13478958

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Safety Valves | Spring loaded safety valves with flanged connection

Nominal inner diameter inlet side	Nominal inner diameter outlet side	Adjustment range	Valve bore	Valve lifter	Sealing	Article
		bar	mm			
DN40	DN40	0.64 / 0.9	23	Closed	Metal	13478962
DN40	DN40	7.19 / 10.1	23	Closed	Metal	13478969
DN50	DN50	24.61 / 28.6	29	Closed	Metal	13478991
DN50	DN50	1.25 / 1.9	29	Closed	Metal	13478981
DN50	DN50	16.41 / 20.5	29	Closed	Metal	13478989
DN50	DN50	0.2 / 0.23	29	Closed	Metal	13478975
DN50	DN50	9.31 / 12	29	Closed	Metal	13478987
DN50	DN50	4.91 / 7	29	Closed	Metal	13478985
DN50	DN50	28.61 / 30.8	29	Closed	Metal	13478992
DN50	DN50	0.64 / 0.9	29	Closed	Metal	13478979
DN50	DN50	2.61 / 3.7	29	Closed	Metal	13478983
DN50	DN50	0.35 / 0.49	29	Closed	Metal	13478977
DN50	DN50	7.01 / 9.3	29	Closed	Metal	13478986
DN50	DN50	30.81 / 40	29	Closed	Metal	13478993
DN50	DN50	12.01 / 16.4	29	Closed	Metal	13478988
DN50	DN50	0.91 / 1.24	29	Closed	Metal	13478980
DN50	DN50	20.51 / 24.6	29	Closed	Metal	13478990
DN50	DN50	0.5 / 0.63	29	Closed	Metal	13478978
DN50	DN50	0.24 / 0.34	29	Closed	Metal	13478976
DN50	DN50	1.91 / 2.6	29	Closed	Metal	13478982
DN50	DN50	3.71 / 4.9	29	Closed	Metal	13478984
DN65	DN65	31.01 / 35	37	Closed	Metal	13479011
DN65	DN65	0.5 / 0.63	37	Closed	Metal	13478997
DN65	DN65	0.24 / 0.34	37	Closed	Metal	13478995
DN65	DN65	1.81 / 2.55	37	Closed	Metal	13479001
DN65	DN65	0.64 / 0.9	37	Closed	Metal	13478998
DN65	DN65	20.21 / 24	37	Closed	Metal	13479008
DN65	DN65	24.01 / 26.7	37	Closed	Metal	13479009
DN65	DN65	0.91 / 1.27	37	Closed	Metal	13478999
DN65	DN65	14.31 / 20.2	37	Closed	Metal	13479007
DN65	DN65	26.71 / 31	37	Closed	Metal	13479010
DN65	DN65	1.28 / 1.8	37	Closed	Metal	13479000
DN65	DN65	0.2 / 0.23	37	Closed	Metal	13478994
DN65	DN65	3.61 / 5.08	37	Closed	Metal	13479003
DN65	DN65	0.35 / 0.49	37	Closed	Metal	13478996
DN65	DN65	7.19 / 10.1	37	Closed	Metal	13479005
DN65	DN65	2.56 / 3.6	37	Closed	Metal	13479002
DN65	DN65	10.11 / 14.3	37	Closed	Metal	13479006
DN65	DN65	5.09 / 7.18	37	Closed	Metal	13479004
DN80	DN80	0.5 / 0.63	46	Closed	Metal	13479015
DN80	DN80	0.35 / 0.49	46	Closed	Metal	13479014
DN80	DN80	1.28 / 1.8	46	Closed	Metal	13479018
DN80	DN80	0.91 / 1.27	46	Closed	Metal	13479017
DN80	DN80	0.2 / 0.23	46	Closed	Metal	13479012
DN80	DN80	30.1 / 35	46	Closed	Metal	13479029
DN80	DN80	2.56 / 3.6	46	Closed	Metal	13479020
DN80	DN80	24.1 / 26.7	46	Closed	Metal	13479027
DN80	DN80	10.11 / 14.3	46	Closed	Metal	13479024
DN80	DN80	0.24 / 0.34	46	Closed	Metal	13479013
DN80	DN80	1.81 / 2.55	46	Closed	Metal	13479019
DN80	DN80	3.61 / 5.08	46	Closed	Metal	13479021
DN80	DN80	20.2 / 24	46	Closed	Metal	13479026

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Safety Valves | Spring loaded safety valves with flanged connection

Nominal inner diameter inlet side	Nominal inner diameter outlet side	Adjustment range	Valve bore	Valve lifter	Sealing	Article
		bar	mm			
DN80	DN80	5.09 / 7.18	46	Closed	Metal	13479022
DN80	DN80	0.64 / 0.9	46	Closed	Metal	13479016
DN80	DN80	7.19 / 10.1	46	Closed	Metal	13479023
DN80	DN80	14.4 / 20.1	46	Closed	Metal	13479025
DN80	DN80	26.8 / 30	46	Closed	Metal	13479028
DN100	DN100	5.21 / 7.85	60	Closed	Metal	13479038
DN100	DN100	3.46 / 5.2	60	Closed	Metal	13479037
DN100	DN100	0.76 / 1.23	60	Closed	Metal	13479033
DN100	DN100	0.2 / 0.32	60	Closed	Metal	13479030
DN100	DN100	7.86 / 10	60	Closed	Metal	13479039
DN100	DN100	18.61 / 22.2	60	Closed	Metal	13479042
DN100	DN100	10.01 / 14.5	60	Closed	Metal	13479040
DN100	DN100	1.86 / 2.6	60	Closed	Metal	13479035
DN100	DN100	0.33 / 0.49	60	Closed	Metal	13479031
DN100	DN100	0.5 / 0.75	60	Closed	Metal	13479032
DN100	DN100	14.51 / 18.6	60	Closed	Metal	13479041
DN100	DN100	1.24 / 1.85	60	Closed	Metal	13479034
DN100	DN100	2.61 / 3.45	60	Closed	Metal	13479036
DN125	DN125	10.21 / 16	74	Closed	Metal	13479052
DN125	DN125	1.21 / 1.82	74	Closed	Metal	13479047
DN125	DN125	25.01 / 32	74	Closed	Metal	13479054
DN125	DN125	6.61 / 10.2	74	Closed	Metal	13479051
DN125	DN125	0.2 / 0.32	74	Closed	Metal	13479043
DN125	DN125	4.31 / 6.6	74	Closed	Metal	13479050
DN125	DN125	0.5 / 0.77	74	Closed	Metal	13479045
DN125	DN125	16.01 / 25	74	Closed	Metal	13479053
DN125	DN125	2.91 / 4.3	74	Closed	Metal	13479049
DN125	DN125	1.83 / 2.9	74	Closed	Metal	13479048
DN125	DN125	0.78 / 1.2	74	Closed	Metal	13479046
DN125	DN125	0.33 / 0.49	74	Closed	Metal	13479044
DN150	DN150	0.55 / 0.8	92	Closed	Metal	13479058
DN150	DN150	0.39 / 0.54	92	Closed	Metal	13479057
DN150	DN150	6.01 / 8.2	92	Closed	Metal	13479065
DN150	DN150	1.11 / 1.45	92	Closed	Metal	13479060
DN150	DN150	3.41 / 4.5	92	Closed	Metal	13479063
DN150	DN150	2.41 / 3.4	92	Closed	Metal	13479062
DN150	DN150	0.81 / 1.1	92	Closed	Metal	13479059
DN150	DN150	4.51 / 6	92	Closed	Metal	13479064
DN150	DN150	1.46 / 2.4	92	Closed	Metal	13479061
DN150	DN150	0.27 / 0.38	92	Closed	Metal	13479056
DN150	DN150	8.21 / 13.2	92	Closed	Metal	13479066
DN150	DN150	0.2 / 0.26	92	Closed	Metal	13479055
DN150	DN150	13.21 / 16	92	Closed	Metal	13479067

Max. 200 articles in the table

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