



ARI Spring-loaded safety valve Type 599B series 12.921 cast iron low-lifting flange

The set pressure must be specified when ordering.

Characteristics

Series: 12.921

Type: 599B

Norm: ISO 4126-1

Model: Spring-loaded safety valve

Construction type: Angle Pattern

Housing material inlet side: Cast iron

Material quality inlet side: EN-JL1040

Housing material outlet side: Cast iron

Material quality outlet side: EN-JL1040

Connection inlet side: Flange

Pressure rating inlet side: PN16

Connection outlet side: Flange

Pressure rating outlet side: PN16

Flange finish: Raised face

Blow-off characteristic: Low-lifting

Gastight valve: Yes

Spring cap, closed: Yes

Material spring bonnet: Cast iron

Material disc: 1.4122

Seat material: 1.4571

Spring material: Spring steel (1.8159)

Spindle material: 1.4021+QT

Medium temperature: -10 / 300 °C

Application

- Vapours
- Steam
- Gasses.
- Liquids (for large quantities).

Technical Information

- Ideal for medium-sized capacities.
- The proportional range ensures quiet operation, especially for liquids.
- Suitable for thermal expansion and overflow applications
- With valve lifter.
- Flange in accordance with EN1092-2, raised area.

Approval

- Available with Lloyds adjustment certificate.
- TÜV.
- PED.
- DNV.

Options

- Stainless steel bellows.
- O-ring in valve: EPDM, neoprene [CR] or FPM [FKM].
- O-ring seal on valve: EPDM, neoprene [CR] or FPM [FKM].

Inlet DN [mm]	Inlet PN	Outlet DN [mm]	Outlet PN	d0 [mm]	A0 [mm ²]	Max. set press. [bar]	a mm	b mm	H mm	Weight [kg]
20	16	20	16	12	113	16	95	95	260	6
25	16	25	16	15	177	16	100	100	270	6
32	16	32	16	18	254	16	105	105	285	8
40	16	40	16	20	314	16	115	115	290	9
50	16	50	16	29	661	16	125	125	290	12
65	16	65	16	36	1018	16	145	145	340	15
80	16	80	16	44	1520	16	155	155	400	20
100	16	100	16	55	2376	16	175	175	450	33

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Safety Valves | Spring loaded safety valves with flanged connection

Press. range		Temperature range					
0,1 to 16 barg		-10 °C/ +300° C					
Nominal inner diameter inlet side	Nominal inner diameter outlet side	Adjustment range bar	Valve bore mm	Valve lifter	Sealing	Article	
DN20	DN20	0.52 / 1	12	Closed	Metal	13477836	
DN20	DN20	1.95 / 2.5	12	Closed	Metal	13477839	
DN20	DN20	2.55 / 3.5	12	Closed	Metal	13477840	
DN20	DN20	5.6 / 7	12	Closed	Metal	13477843	
DN20	DN20	3.55 / 4	12	Closed	Metal	13477841	
DN20	DN20	4.1 / 5.5	12	Closed	Metal	13477842	
DN20	DN20	7.1 / 10.5	12	Closed	Metal	13477844	
DN20	DN20	1.45 / 1.9	12	Closed	Metal	13477838	
DN20	DN20	10.6 / 16	12	Closed	Metal	13477845	
DN20	DN20	0.3 / 0.5	12	Closed	Metal	13477835	
DN20	DN20	1.05 / 1.4	12	Closed	Metal	13477837	
DN25	DN25	2.05 / 2.7	15	Closed	Metal	13477849	
DN25	DN25	1.15 / 2	15	Closed	Metal	13477848	
DN25	DN25	10.6 / 15	15	Closed	Metal	13477854	
DN25	DN25	15.1 / 16	15	Closed	Metal	13477855	
DN25	DN25	8.1 / 10.5	15	Closed	Metal	13477853	
DN25	DN25	5.1 / 8	15	Closed	Metal	13477852	
DN25	DN25	2.75 / 3.7	15	Closed	Metal	13477850	
DN25	DN25	3.8 / 5	15	Closed	Metal	13477851	
DN25	DN25	0.2 / 0.6	15	Closed	Metal	13477846	
DN25	DN25	0.62 / 1.1	15	Closed	Metal	13477847	
DN32	DN32	0.82 / 1.2	18	Closed	Metal	13477858	
DN32	DN32	2.05 / 3.3	18	Closed	Metal	13477860	
DN32	DN32	1.25 / 2	18	Closed	Metal	13477859	
DN32	DN32	8.1 / 11.5	18	Closed	Metal	13477863	
DN32	DN32	3.35 / 5.2	18	Closed	Metal	13477861	
DN32	DN32	0.2 / 0.55	18	Closed	Metal	13477856	
DN32	DN32	5.3 / 8	18	Closed	Metal	13477862	
DN32	DN32	11.6 / 16	18	Closed	Metal	13477864	
DN32	DN32	0.57 / 0.8	18	Closed	Metal	13477857	
DN40	DN40	0.2 / 0.4	20	Closed	Metal	13477865	
DN40	DN40	12.1 / 16	20	Closed	Metal	13477874	
DN40	DN40	1.15 / 1.8	20	Closed	Metal	13477868	
DN40	DN40	0.42 / 0.6	20	Closed	Metal	13477866	
DN40	DN40	2.75 / 4.3	20	Closed	Metal	13477870	
DN40	DN40	4.4 / 6	20	Closed	Metal	13477871	
DN40	DN40	1.85 / 2.7	20	Closed	Metal	13477869	
DN40	DN40	6.1 / 9	20	Closed	Metal	13477872	
DN40	DN40	0.62 / 1.1	20	Closed	Metal	13477867	
DN40	DN40	9.1 / 12	20	Closed	Metal	13477873	
DN50	DN50	8.6 / 13	29	Closed	Metal	13477883	
DN50	DN50	0.42 / 0.6	29	Closed	Metal	13477876	
DN50	DN50	1.85 / 2.5	29	Closed	Metal	13477879	
DN50	DN50	4.6 / 8.5	29	Closed	Metal	13477882	
DN50	DN50	2.55 / 3.2	29	Closed	Metal	13477880	
DN50	DN50	0.62 / 1.2	29	Closed	Metal	13477877	
DN50	DN50	0.2 / 0.4	29	Closed	Metal	13477875	
DN50	DN50	3.25 / 4.5	29	Closed	Metal	13477881	
DN50	DN50	1.25 / 1.8	29	Closed	Metal	13477878	

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Nominal inner diameter inlet side	Nominal inner diameter outlet side	Adjustment range bar	Valve bore mm	Valve lifter	Sealing	Article
DN50	DN50	13.1 / 16	29	Closed	Metal	13477884
DN65	DN65	5.6 / 6.8	36	Closed	Metal	13477892
DN65	DN65	4.6 / 5.5	36	Closed	Metal	13477891
DN65	DN65	3.45 / 4.5	36	Closed	Metal	13477890
DN65	DN65	0.2 / 0.5	36	Closed	Metal	13477885
DN65	DN65	6.9 / 8.5	36	Closed	Metal	13477893
DN65	DN65	8.6 / 14	36	Closed	Metal	13477894
DN65	DN65	14.1 / 16	36	Closed	Metal	13477895
DN65	DN65	0.52 / 1.2	36	Closed	Metal	13477886
DN65	DN65	2.75 / 3.4	36	Closed	Metal	13477889
DN65	DN65	1.25 / 2	36	Closed	Metal	13477887
DN65	DN65	2.05 / 2.7	36	Closed	Metal	13477888
DN80	DN80	4.3 / 5.5	44	Closed	Metal	13477902
DN80	DN80	12.1 / 16	44	Closed	Metal	13477906
DN80	DN80	5.6 / 6.5	44	Closed	Metal	13477903
DN80	DN80	1.25 / 2.1	44	Closed	Metal	13477898
DN80	DN80	2.65 / 3.2	44	Closed	Metal	13477900
DN80	DN80	3.25 / 4.2	44	Closed	Metal	13477901
DN80	DN80	0.2 / 0.6	44	Closed	Metal	13477896
DN80	DN80	0.62 / 1.2	44	Closed	Metal	13477897
DN80	DN80	2.15 / 2.6	44	Closed	Metal	13477899
DN80	DN80	9.1 / 12	44	Closed	Metal	13477905
DN80	DN80	6.6 / 9	44	Closed	Metal	13477904
DN100	DN100	1.75 / 2.4	55	Closed	Metal	13477910
DN100	DN100	0.52 / 1.1	55	Closed	Metal	13477908
DN100	DN100	5.1 / 8	55	Closed	Metal	13477914
DN100	DN100	0.2 / 0.5	55	Closed	Metal	13477907
DN100	DN100	8.1 / 11	55	Closed	Metal	13477915
DN100	DN100	3.15 / 4	55	Closed	Metal	13477912
DN100	DN100	2.45 / 3.1	55	Closed	Metal	13477911
DN100	DN100	4.1 / 5	55	Closed	Metal	13477913
DN100	DN100	11.1 / 16	55	Closed	Metal	13477916
DN100	DN100	1.15 / 1.7	55	Closed	Metal	13477909

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