



ARI Control valve two way Type 2831 series 12.448 cast iron electric flange

Characteristics

Series: 12.448
Type: 2831
Housing material: Cast iron
Material quality: EN-JL1040
Connection: Flange
Standard connection: EN 1092-1/02
Ground characteristic: Equal percentage
Plug: Parabolic cone
Control range: 50:1
Leakage class: IV EN60534-4
Stem seal type: Roof cuffs
Material bonnet: 1.0619+N
Material cone: 1.4021
Seat material: 1.4021
Spindle material: 1.4021
Secondary spindle seal material: PTFE
Bonnet gasket material: Graphite
Surface protection: Paint min. 30 µm
Type of actuator: Electrical
Supply voltage: 100 -240V AC
Zero-pressure return flow: None
Control signal: Three-point / 0 - 10 V / 4-20 mA
With feedback signal: No
Level of protection (IP value): IP65
With end contacts: No
Position indicator: Yes
Manual operation: Yes
Medium temperature: -10 / 220 °C
Ambient temperature: -20 / 70 °C

Application

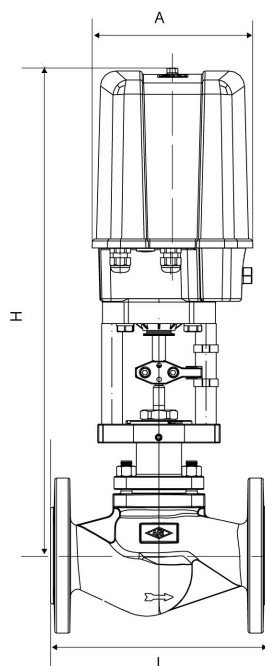
- Water.
- Steam.
- Coolant.
- Thermic oils.
- Neutral liquids and gasses.

Technical Information

- Compact and variable design.
 - Robust cone guiding.
 - 360° Rotatable actuator.
 - Quick coupling between valve and actuator.
 - Large and accurate control range due to control ration of 50:1.
 - Various Kvs-values.
 - Low leakage rate due to conical valve seal.
 - Equal percentage control characteristic.
 - Electrical Premio-Plus® actuator.
 - Integrated digital valve positioner.
 - Equipped with emergency manual operation.
- Maximum electrical power input:**
- 21 VA - Premio-plus 2,2.
 - 65 VA - Premio-plus 5, Premio-plus 12, Premio-plus 15.

Options

- Various sealing variants.



Size table:

DN	Actuator	A mm	H mm	L mm	Weight kg
DN15	Premio-pl 2,2	171	496	130	10
DN20	Premio-pl 2,2	171	496	150	11
DN25	Premio-pl 2,2	171	511	160	12
DN32	Premio-pl 2,2	171	511	180	14
DN40	Premio-pl 2,2	171	526	200	16
DN50	Premio-pl 2,2	171	533	230	19
DN50	Premio-pl 5	171	533	230	19
DN65	Premio-pl 5	171	550	290	25
DN80	Premio-pl 5	171	572	310	32
DN80	Premio-pl 15	210	689	350	36
DN100	Premio-pl 5	171	588	350	44
DN100	Premio-pl 15	210	705	350	48

Nominal inner diameter	Connection size	Pressure rating flange	Kvs value	Stroke mm	Type coding actuator	Adjusting force kN	Operating time s	Max. pressure difference in opened position bar	Closing pressure bar	Article
DN15	DN15	PN16	0.1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425606
DN15	DN15	PN16	0.16	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425607
DN15	DN15	PN16	0.25	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425608
DN15	DN15	PN16	0.4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425609
DN15	DN15	PN16	0.63	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425610
DN15	DN15	PN16	1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425611
DN15	DN15	PN16	1.6	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425612
DN15	DN15	PN16	2.5	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425613
DN15	DN15	PN16	4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425614
DN20	DN20	PN16	0.1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425615
DN20	DN20	PN16	0.16	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425616
DN20	DN20	PN16	0.25	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425617
DN20	DN20	PN16	0.4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425618
DN20	DN20	PN16	0.63	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425619
DN20	DN20	PN16	1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425620
DN20	DN20	PN16	1.6	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425621
DN20	DN20	PN16	2.5	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425622
DN20	DN20	PN16	4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425623

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Nominal inner diameter	Connection size	Pressure rating flange	Kvs value	Stroke	Type coding actuator	Adjusting force	Operating time	Max. pressure difference in opened position	Closing pressure	Article
				mm		kN	s	bar	bar	
DN20	DN20	PN16	6.3	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425624
DN25	DN25	PN16	0.1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425625
DN25	DN25	PN16	0.16	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425626
DN25	DN25	PN16	0.25	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425627
DN25	DN25	PN16	0.4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425628
DN25	DN25	PN16	0.63	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425629
DN25	DN25	PN16	1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425630
DN25	DN25	PN16	1.6	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425631
DN25	DN25	PN16	2.5	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425632
DN25	DN25	PN16	4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425633
DN25	DN25	PN16	6.3	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425634
DN25	DN25	PN16	10	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425635
DN32	DN32	PN16	1	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425636
DN32	DN32	PN16	1.6	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425637
DN32	DN32	PN16	2.5	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425638
DN32	DN32	PN16	4	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425639
DN32	DN32	PN16	6.3	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425640
DN32	DN32	PN16	10	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425641
DN32	DN32	PN16	16	15	Premio-pl 2,2	2.2	15s / 32s / 39s / 60s	16	16	13425642
DN40	DN40	PN16	6.3	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425643
DN40	DN40	PN16	10	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425644
DN40	DN40	PN16	16	15	Premio-pl 2,2	2.2	15s / 32s / 39s / 60s	16	16	13425645
DN40	DN40	PN16	25	15	Premio-pl 2,2	2.2	15s / 32s / 39s / 60s	16	16	13425646
DN50	DN50	PN16	10	10	Premio-pl 2,2	2.2	10s / 21s / 26s / 40s	16	16	13425647
DN50	DN50	PN16	16	15	Premio-pl 2,2	2.2	15s / 32s / 39s / 60s	16	16	13425648
DN50	DN50	PN16	25	15	Premio-pl 2,2	2.2	15s / 32s / 39s / 60s	16	16	13425649
DN50	DN50	PN16	40	15	Premio-pl 2,2	2.2	15s / 32s / 39s / 60s	11	11	13425650
DN50	DN50	PN16	40	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425651
DN65	DN65	PN16	16	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425652
DN65	DN65	PN16	25	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425653
DN65	DN65	PN16	40	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425654
DN65	DN65	PN16	63	20	Premio-pl 5	5	20s / 43s / 53s / 80s	10	10	13425655
DN80	DN80	PN16	25	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425656

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				mm		kN	s	bar	bar	
DN80	DN80	PN16	40	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425657
DN80	DN80	PN16	63	20	Premio-pl 5	5	20s / 43s / 53s / 80s	10	16	13425658
DN80	DN80	PN16	100	25	Premio-pl 5	5	25s / 53s / 66s / 100s	8	10	13425659
DN80	DN80	PN16	100	25	Premio-pl 15	15	32s / 66s / 81s / 125s	8	16	13425660
DN100	DN100	PN16	40	15	Premio-pl 5	5	15s / 32s / 39s / 60s	16	16	13425661
DN100	DN100	PN16	63	20	Premio-pl 5	5	20s / 43s / 53s / 80s	10	16	13425662
DN100	DN100	PN16	100	25	Premio-pl 5	5	25s / 53s / 66s / 100s	8	10	13425663
DN100	DN100	PN16	100	25	Premio-pl 15	15	32s / 66s / 81s / 125s	8	16	13425664
DN100	DN100	PN16	160	30	Premio-pl 15	15	38s / 79s / 97s / 150s	3	16	13425665

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