

Diaphragm Valve

SISTO-16RGA

PN16
DN 15-80 / Rp 1/2"-3"
Maintenance-free
Threaded Ends
Gunmetal

Type Series Booklet



SISTO

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Type Series Booklet SISTO-16RGA

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Diaphragm Valves

Soft-seated Glandless Diaphragm Valves

SISTO-16RGA



Main applications

- Pressure boosting
- Fire-fighting systems
- Domestic water supply
- Air-conditioning systems
- Cooling circuits
- Rainwater harvesting

Fluids handled

- Service water
- River, lake and groundwater
- Drinking water, particularly drinking water installations to DIN 1988

Operating data

Operating properties

Characteristic	Value
Nominal pressure	PN 16
Nominal size	DN 15-80 Rp 1/2" - 3"

Characteristic	Value
Max. permissible pressure	16 bar
Permissible temperature	-10 °C to +90 °C ¹⁾

Body materials

Overview of available materials

Material	Material number	Temperature limit
CuSn5Zn5Pb2-C	CC499K-GS	Up to 90 °C

Design details

Design

- Soft-seated shut-off valve in straight-way pattern
- Rising handwheel
- Shut-off and sealing to atmosphere by completely enclosed diaphragm
- Position indicator with integrated stem protection
- Manufactured and tested to EN 13397
- Marked in accordance with DIN EN 19 (ISO 5209)
- DVGW-approved for water
- SVGW-SSIGE-approved for water
- Belgaqua-approved for water

Product benefits

- Reliable sealing ensured by one single sealing element – the diaphragm – which provides hermetic sealing to atmosphere and absolutely tight shut-off. The specially enclosed diaphragm ensures long service life and high operating reliability.
- Maintenance-free as all moving parts are separated from the fluid by the diaphragm.
- High level of reliability as the thrust bearing minimises the closing torques required.
- Optimised long-term operation as the position indicator with integrated stem protection prevents the ingress of contaminants.
- High level of reliability as the valve hydraulics without dead volume ensure optimum conditions for high-purity fluids.
- Long service life as the diaphragm support increases valve life and extends the pressure limit of the diaphragm.

¹⁾ Temperatures of +90 °C for periods of up to one hour resulting from one-off incorrect system operation will not impair the valve's functioning.

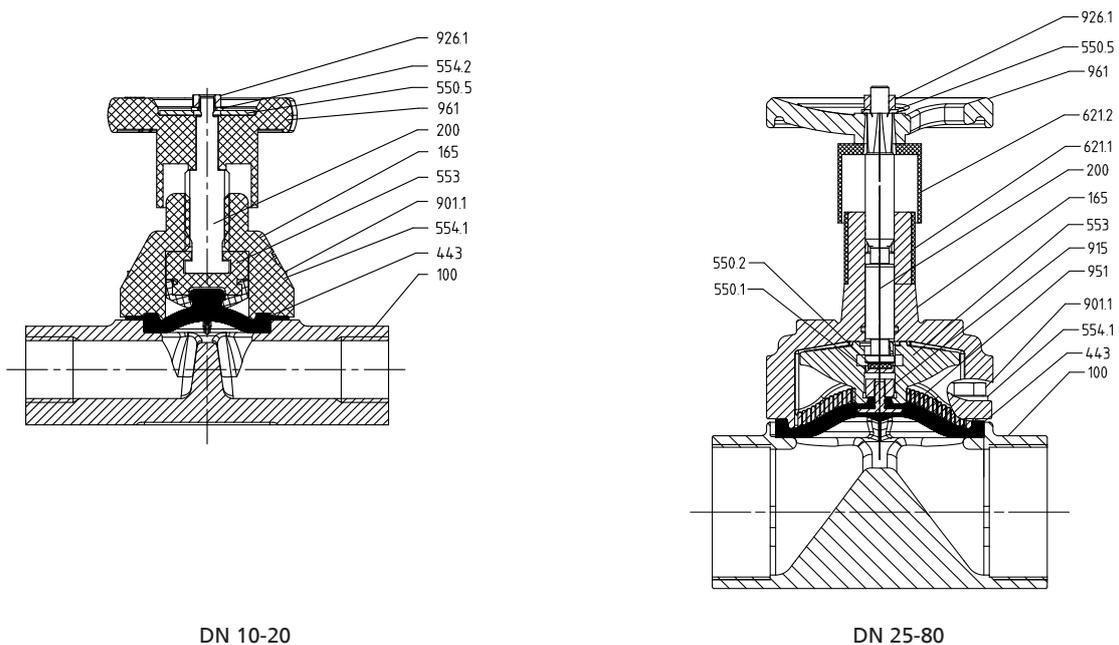
Related documents

- Operating manual 0570.821
- Engineering information 8638.030

On all enquiries/orders please specify

1. Type
2. Nominal pressure
3. Nominal size
4. Operating pressure
5. Differential pressure
6. Operating temperature
7. Fluid handled
8. Pipe connection
9. Variants
10. Number of type series booklet

Materials



DN 10-20

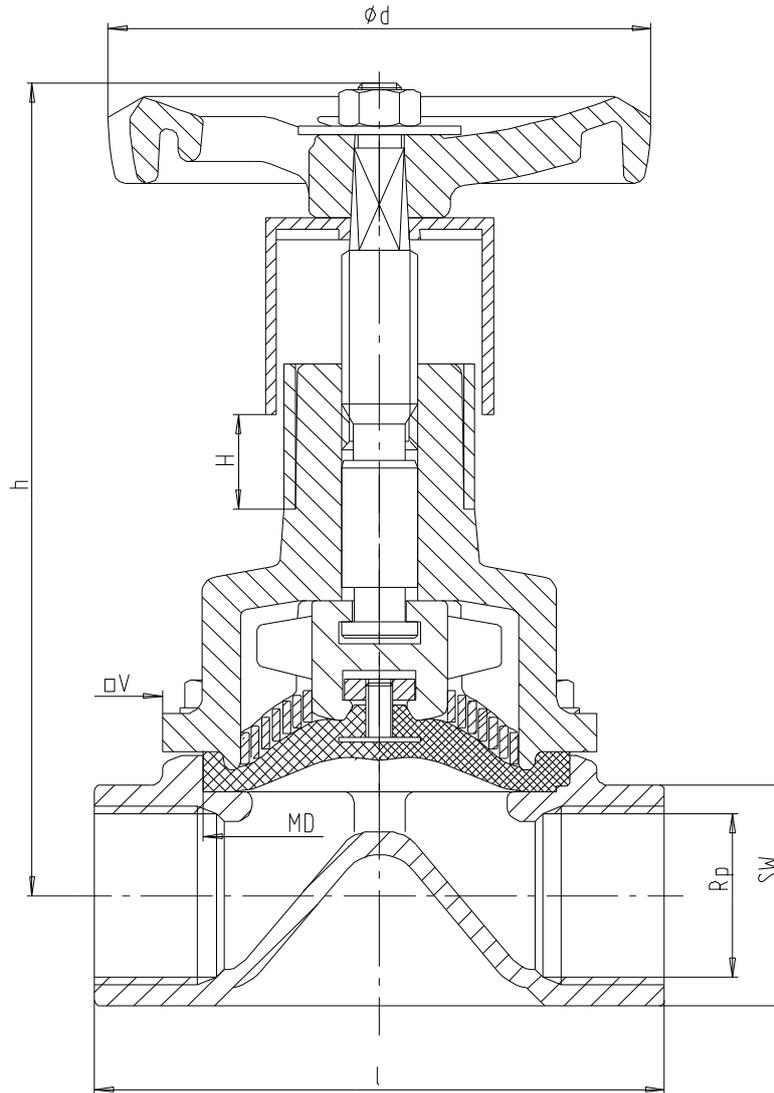
DN 25-80

Parts list

Part No.	Description	Diaphragm diameter MD40 DN 10-20		Diaphragm diameter MD65 DN 25-40		Diaphragm diameter MD92-168 DN 50-80	
		Material	Material number	Material	Material number	Material	Material number
100	Body	CC499K-GS		CC499K-GS		CC499K-GS	
165	Bonnet	POM		EN-GJL-250 Rilsan (white)	5.1301	EN-GJL-250 Rilsan (white)	5.1301
200	Stem	X14CrMoS17	1.4104	X14CrMoS17	1.4104	X14CrMoS17	1.4104
443 ²⁾	Diaphragm	EPDM/W270		EPDM/W270		EPDM/W270	
550.1	Bearing disc	---		---		11SMnPb30	1.0718
550.2	PTFE disc	---		---		PTFE/graphite	
550.5	Identification disc	Aluminium red/green		Aluminium red/green		Aluminium red/green	
553	Compressor	Ultramid		GD-ZnAl4Cu1		EN-GJS-400-15	5.3106
554.1	Washer	A2-70		A2-70		A2-70	
554.2	Washer	A2-70		A2-70		A2-70	
621.1	Position indicator, lower part	---		ASA Luran		ASA Luran	
621.2	Position indicator, upper part	---		ASA Luran		ASA Luran	
901.1	Hexagon head bolt	A2-70		A2-70		A2-70	
915	Floating nut	---		---		11SMnPb30	1.0718
926.1	Prevailing torque nut	A2-70		A2-70		A2-70	
951	Support spiral	---		St 2K BK		St 2K BK	
961	Handwheel	Polycarbonate		EN-GJL-200/Rilsan (white)	5.1300	EN-GJL-200/Rilsan (white)	5.1300

²⁾ Recommended spare parts

Dimensions



Dimensions in mm

DN	Rp	MD	l	h	Ø d	□V	SW	H	[kg]
15	1/2"	40	85	87	100	55	28	7	0,5
20	3/4"	40	95	90	100	55	34	7	0,6
25	1"	65	105	151	100	80	41	13	2,5
32	1 1/4"	65	120	154	100	80	50	13	2,5
40	1 1/2"	65	130	157	100	80	58	13	3,0
50	2"	92	150	201	125	105	70	22	5,0
65	2 1/2"	115	185	248	125	125	85	30	8,0
80	3"	168	220	329	200	Ø 190	100	45	16,5

Mating dimensions – Standards

Pipe threads: DIN EN 10226-1 (ISO 7/1)
Face-to-face length: pr EN 16722 : 2014

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