

Swing Check Valve

COBRA-SCBS

PN 16
DN 50-300

Type Series Booklet



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Type Series Booklet COBRA-SCBS

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Swing Check Valves to DIN/EN

Swing Check Valves with Bolted Cover

COBRA-SCBS



Main applications

- General irrigation systems
- Seawater desalination/reverse osmosis
- Water treatment
- Water supply systems

Fluids handled

- Service water
- Gas
- High-temperature hot water
- Heating water
- Cooling water
- Seawater
- Oil
- Drinking water

Operating data

Operating properties

Characteristic	Value
Nominal pressure	PN 16
Nominal size	DN 50 - 300
Max. permissible pressure [bar]	16
Min. permissible temperature [°C]	-10
Max. permissible temperature [°C]	+300

Selection as per pressure/temperature ratings (⇒ Page 5)

Body materials

Overview of available materials

Material	Material number	Temperature limit
EN-GJS-500-7	5.3200	+300 °C

Design details

Design

- Design to BS 5153
- Tested to EN 1092-2
- Bolted cover
- Metal-seated
- Stainless steel/graphite gaskets

Variants

- Larger nominal sizes
- Flanges to BS 10 Table E

Product benefits

- Corrosion- and wear-resistant seat materials for reliable function and long service life
- Fully confined gasket: reliable sealing due to controlled compression
- Valve disc rotation is prevented to reduce noise and avoid premature wear; added safety
- Hexagon nut secured to guard against unintentional loosening

Related documents

Information/documents

Document	Reference number
Operating manual	V979011/1.10

Purchase order specifications

Please specify the following information in all enquiries or purchase orders:

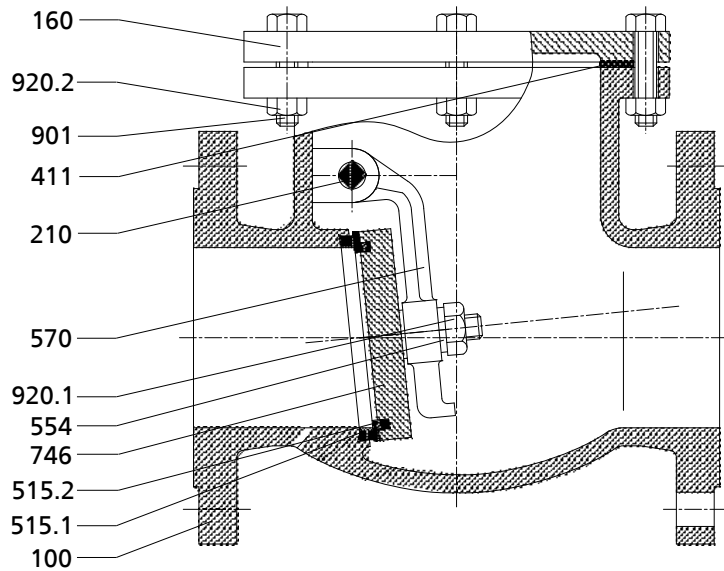
1. Type
2. Nominal pressure
3. Nominal size
4. Operating pressure
5. Operating temperature
6. Materials
7. Fluid handled
8. Pipe connection
9. Variants
10. Number of type series booklet

Pressure/temperature ratings

Permissible operating pressures [bar] (to EN 12266-1)

PN	Material	[°C]					
		-10 to 120	150	200	250	300	350
16	EN-GJS-500-7	16,0	15,2	14,4	12,8	11,2	8,8

Materials

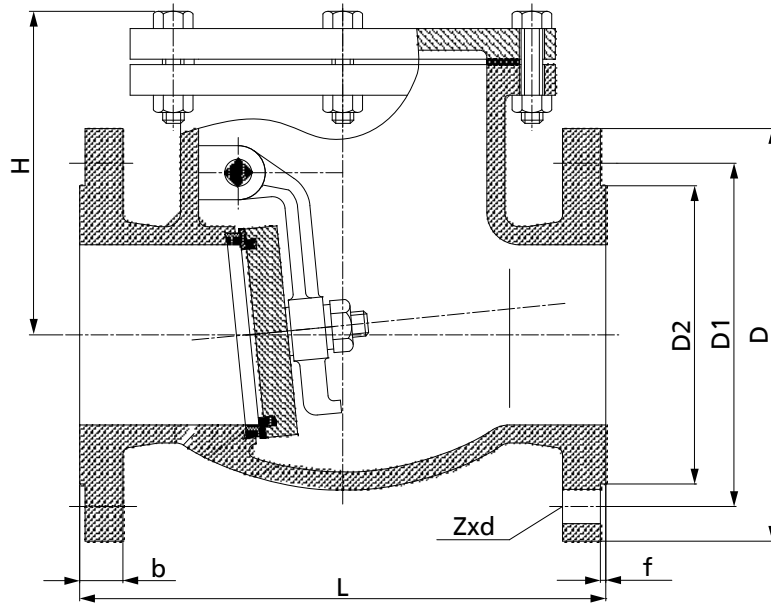


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Parts list

Part No.	Description	Material	Material number
100	Body	EN-GJS-500-7	5.3200
160	Cover	EN-GJS-500-7	5.3200
210	Hinge pin	SS 316	-
411	Joint ring	EPDM	-
515.1	Seat ring	Bronze	-
515.2	Seat ring	Bronze	-
554	Washer	SS 316	-
570	Hanger arm	EN-GJS-500-7	5.3200
746	Valve disc	EN-GJS-500-7	5.3200
901	Bolt/screw	SS 316	-
920.1	Nut	SS 316	-
920.2	Nut	SS 316	-

Dimensions and weights



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Dimensions [mm] and weights [kg]

PN	DN	L	H	D	D1	D2	d	b	f	Z	[kg]
16	50	203	136	165	125	99	18	19.0	3	4	15
	65	216	147	185	145	118	18	19.0	3	4	18
	80	241	158	200	160	132	18	19.0	3	8	21
	100	292	184	220	180	156	18	19.0	3	8	34
	125	330	212	250	210	184	18	19.0	3	8	44
	150	356	227	285	240	211	22	19.0	3	8	57
	200	495	263	340	295	266	22	20.0	3	12	108
	250	622	304	405	355	317	26	22.0	3	12	176
	300	698	335	460	410	370	26	24.5	4	12	198

Mating dimensions as per standard

Face-to-face lengths: BS 5153

Flanges: DIN EN 1092-2



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