

SERIES 932-HD





in piping systems for the transport of liquid and gaseous particularly high demands are placed on the material. They Class 150 - Class 900).

AWS disco check valves are maintenance-free.

The resulting opening force pushes the disc against a spring substances as well as in plants or environments in which and, if necessary, also the weight force of the disc (depending on the installation position), so that the medium can can be installed directly between flanges (PN 6 - PN 160 or flow. If the inlet pressure drops or if the backpressure exceeds the inlet pressure, the valve closes and seals against the medium by means of the soft seat or the metal seat.

OVERVIEW MATRIX DISCO CHECK VALVES

DESCRIPTION

BESOKII HON									
			931		932		932-HD	936	
NOMINAL SIZES		DN 15-DN 100	DN 15-DN 100	DN 125-DN 200	DN 15-DN 100	DN 125-DN 300	DN 15-DN 100	DN 15-DN 100	
FLANGE CONNECTION *1		PN 6*2/ PN 10/PN 16/ PN 25/PN 40	PN 6/PN 10/PN 16		PN 6 / PN 10 / PN 16 / PN 25 / PN 40	PN 10 / PN 16 / PN 25 / PN 40	PN 63/ PN 100 / PN 160	PN 10	
		Class 150 *2	Class 150		Class 150 / Class 150 / Class 300 Class 300 *2		Class 600/ Class 900		
PRESSURE		max. 40 bar	max. 16 bar		max. 50 bar		max. 160 bar	max. 10 bar	
TEMPERATURE RANGES		-20 °C to +300 °C	-10 °C to +200 °C	-20 °C to +300 °C	-196 °C to +400 °C*3		-200 °C to +450 °C*3	-20 °C to +120 °C	
	Stainless steel	Х	_	_	Х	Х	Х	_	
	Brass	_	х –		_	_	_	_	
	Alu bronze	_	_			_	_	_	
MATERIALS	Carbon steel	_	_	_	Х	X	_	_	
AVAILABLE*4	Superduplex	_	_	_	Х	X	X	_	
AVAILABLE	Ductile iron	_	_	Х	_	_	_	_	
	PVC	_	_	_	_	_	_	Х	
	PP	_	_	_	_	_	_	Х	
	PVDF	_	_	_	_	_	_	Х	
SEALS AVAILABLE		Metal, NBR, EPDM, FKM, PTFE	Metal, NBR, EPDM, FKM		Metal, NBR, EPDM, FKM, PTFE		Metal, NBR, EPDM, FKM, PTFE	NBR, EPDM, FKM, PTFE	
DIFFERENT OPENING PRES- SURES AS SPECIAL OPTION		-	_		х		Х	х	

^{*1} other flange connections on request *2 not for at all nominal sizes *3 higher or lower temperatures on request *4 other materials on request

WHY CHOOSE AWS DISCO CHECK VALVES?

IN BRIEF:

Many years of experience in the production of check valves

In-house assembly department with maximum flexibility and expertise

Advice and technical design via inhouse design and engineering team

High availability ensuring short delivery times of standard articles

QUALITY AND TESTING AT AWS:

Own test benches for pressure and leak tests in accordance with EN 12266-1, API 598 and other common standards

In-house spectral analyses for metallic materials

Experience and routine in the preparation of works and acceptance test certificates in accordance with DIN EN 10204 (2.2, 3.1 or 3.2 certificate)

Additional quality assurance measures (external and internal), for example corrosion testing, dye penetrant testing, X-ray testing, preparation of QCPs, etc.

Regular auditing of processes and quality mechanisms by TÜV Süd, discerning customers and other external bodies

... AND BECAUSE WE KNOW WHAT MATTERS IN YOUR INDUSTRY!









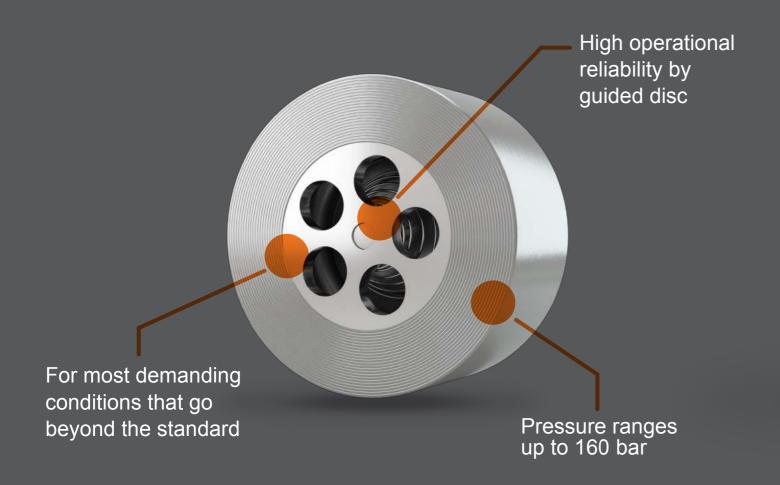






TECHNICAL DATA

DISCO CHECK VALVE | SERIES 932-HD

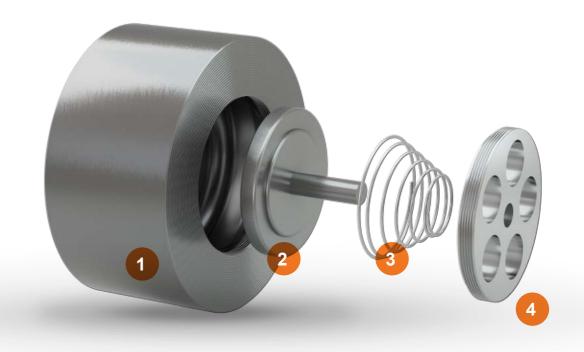




Nominal sizes DN 15 - DN 100 Flange connection PN 63 - 100 | Class 600 - 900 FTF (face-to-face) dimensions DIN EN 558, Series 52 **Temperature range** -200 °C to +450 °C

TECHNICAL DATA

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2. Disc

1. Body

3. Spring

4. Spring cross

Design	Body	Disc	Spring cross	Spring	Pressure range*1	
1	1.4404	1.4404	1.4404	1.4571	0 to max. 160 bar	
6	1.4410 (Superduplex)	1.4410 (Superduplex)		Hastelloy C4 (2.4610)	0 to max. 160 bar	

^{*1} max. allowable pressure is dependent on the temperature

Seal	Design	Temperature	Leakage rate*2	
Metal seated	1 6	-200 °C to +450 °C*3 -10 °C to +250 °C	G	
NBR*4	_	-30 °C to +100 °C	А	
EPDM*4	-	-65 °C bis +150 °C	А	
FKM*4	_	-30 °C to +230 °C	А	
PTFE*4	-	-200 °C to +250 °C	А	

^{*2} acc. to EN 12266-1

Seals comply with the following approvals / conformities:

NBR: DIN EN 549, BAM, REACH, RoHS etc.

EPDM: KTW UBA, DVGW W 270, WRAS, NSF, FDA, BfR XXI Kat. 4, ADI-free, 3A, USP CI. 6, BAM, REACH, RohS etc.

FKM: DIN EN 549, ADI-frei, REACH, RoHS etc.

PTFE: KTW UBA, DVGW W 270, WRAS, FDA, BfR, ADI-free, EU 10/2011, 3A, USP CI. 6, REACH, RoHS etc.



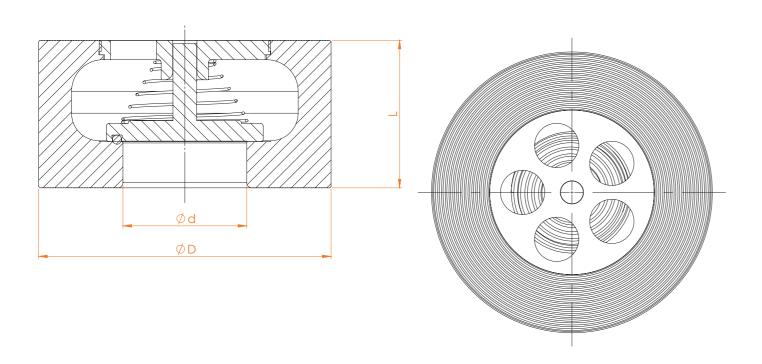
AWA AWS 04 | Disco Check Valves Disco Check Valves | 05

^{*3} temperatures above 300 °C require spring material Hastelloy C4 (low temperature limit for design 1: -100 °C)

^{*4} low temperature limit for design 6: -10 °C

TECHNICAL DATA

DISCO CHECK VALVE | SERIES 932-HD



Nominal size	Ø D	Ød	L	Kv value	Opening pressure*5 [mbar]			w/o spring	Weight*6
				[m³/h]	\leftrightarrow	^	₩	^	[kg]
DN 15	54	15	25	5	~ 16	~ 23	~ 9	~ 7	0.4
DN 20	68	19	31.5	9	~ 12	~ 19	~ 5	~ 7	0.7
DN 25	74	25	35.5	14	~ 15	~ 23	~ 7	~ 8	0.9
DN 32	83	32	40	21	~ 18	~ 27	~ 9	~ 9	1.2
DN 40	95	38	45	27	~ 16	~ 24	~ 8	~ 8	1.7
DN 50	110	47	56	37	~ 19	~ 29	~ 9	~ 10	2.8
DN 65	130	63	63	71	~ 16	~ 31	-	~ 15	3.9
DN 80	149	77	71	100	~ 16	~ 32	-	~ 16	5.6
DN 100	176	97.5	80	143	~ 17	~ 36	-	~ 18	11.6

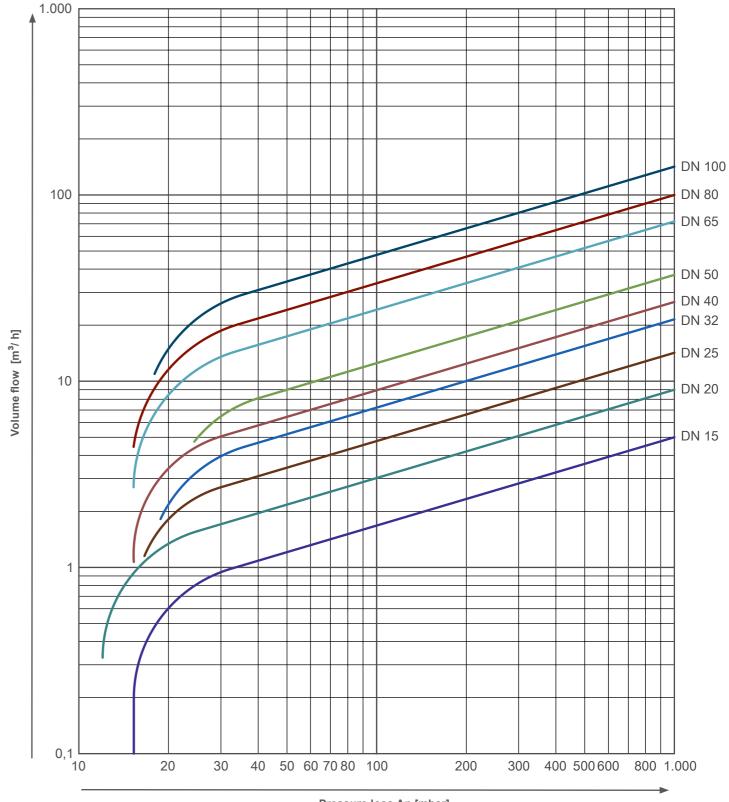
^{*5} other opening pressures on request (for high opening pressures the Kv value may be reduced if disc-springs must be used)

TECHNICAL DATA

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Pressure-Loss Diagram Type 932-HD

The diagram values are valid for water at a temperature of 20 °C and for valves with face-to-face dimensions in accordance with DIN EN 558, suitable for flanges in accordance with PN 10 - PN 40. At the opening of the valve, the curves apply to operation in horizontal pipelines. For calculations for other fluids or temperatures, please contact us.







 $^{^{\}star 6}$ weight may vary slightly, depending on the design

SPECIAL OPTIONS DISCO CHECK VALVES

With many years of experience and our understanding of the demands of the market and the constantly rising expectations of our customers, we always strive to develop and implement solutions that go well beyond the standard. Here are just a few examples of special designs that we have created either in-house, based on our standard models, or with the help of our long-standing pool of partners. Here we adhere to the criteria of technical and economic feasibility combined with a healthy dose of pragmatism.



Various special bodies



With various forms of flange sealing surfaces acc. to diverse standards



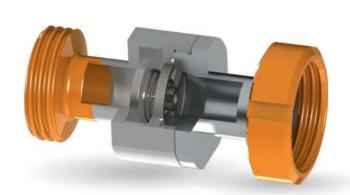
With thread holes



With lug type body

With mounted connecting pieces for thread connections





Other special options:

- Special opening pressure (type 932, 932-HD, 936)
- Cleaned free of oil and grease
- Cleaned free of silicone
- Cleaned free of PWIS

- Seals with additional approvals which go beyond the standard
- Metal seated with reduced leakage rate acc. to DIN EN 12266-1 (type 932, 932-HD)

- Seal glued in for vacuum applications
- Other materials on request
- Other flange dimensions on request
- Other special options on request









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