Valve Experience. Made in Germany.





Contents 🖉



Quality - Made in Germany

Decades of experience and worldwide project references for the use of our check valves under the extreme operating conditions of the chemical and pharmaceutical industries, refineries and plant construction confirm our company's high performance time and time again. As a world-leading specialist in the planning, design and manufacturing of check valves, bottom valves and sampling valves, RITAG focuses its products and service on achieving maximum customer benefit.

Process reliability through first-class engineering. Flexible and fast in realizing your specifications and requirements. And last but not least: Maximum availability of your plant and systems by means of a global network of service partners. RITAG standard check valves and special designs are available in all nominal dimensions, pressure ratings and materials required for specific processes. Our engineers ensure that RITAG products operate in accordance with all international standards and regulations.

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Remark

All prices are gross prices in € without V.A.T., ex works, excluding packing, excluding freight insurance. Rates for works-certificates as well as third party inspections on request. **This price list is valid from April 1, 2024 to March 31, 2025.** All previous price lists are invalid. Technical modifications reserved.

Wafer Type Dual Plate Check Valves Type ZRD/API Nominal diameters 2" – 60"

Type Retainerles	s design	ZRD DCI	ZRD CS	ZRD LTCS	ZRD SS	ZRD DSS	ZRD SDSS	ZRD AB	ZRD TI	ZRD HA	
Material gr	oup										
Material		Ductile cast iron	Carbon steel	Low temperature carbon steel	Stainless steel	Duplex stainless steel	Super duplex stainless steel	Aluminium bronze	Titanium	Special materials (High alloy)	
Nominal dia	ameter										
		2" - 24"	2" - 60"	2" - 60"	2" - 60"	2" - 60"	2" - 60"	2" - 60"	2" - 24"	2" - 24"	
Pressure ra	iting			'		·		·			
Class	Minimum	150	150	150	150	150	150	150	150	150	
Class	Maximum	250	2500	2500	2500	2500	2500	300	300	2500	
Materials			·	·	·	·	·	· · · · · · · · · · · · · · · · · · ·			
Body	Bar	-	A105	A350 LF2	A182 F316L	A182 F51	A182 F53	-	B348 Gr. 2	According to	
	Casting	A536 Gr. 60-40-18	A216 Gr. WCB	A352 Gr. LCB	A351 Gr. CF8M	A995 Gr. 4A	A995 Gr. 6A	B148 C95800	B 367 Gr. 2	customer demand	
Plate	Bar	-	A182 Gr. F6	A182 F316L	A182 F316L	A182 F51	A182 F53	-	B348 Gr. 2	According to	
	Casting	A217 CA15	A217 CA15	A351 Gr. CF8M	A351 Gr. CF8M	A995 Gr. 4A	A995 Gr. 6A	B148 C95800	-	customer demand	
Spring		SS	Inconel X750	Inconel X750	Inconel X750	Inconel X750	Inconel X750	Inconel X750	Titanium Gr. 5	According to customer demand	
Internals		SS 316 Ti	SS 316 Ti	SS 316 Ti	SS 316 Ti	A182 F51	A182 F53	B148 C95800	B348 Gr. 2	According to customer demand	

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.









Wafer Type Dual Plate Check Valves Type ZRD/DIN Nominal diameters DN 50 - 300

Additional charges in	€	
r O-Rings *)	for Springs *)	

Inconel X750

154.00

169.00

176.00

197.00

234,00

244.00

285.00

342,00

347.00











Type Retainerles	s design	ZRD 1	ZRD 2	ZRD 3	ZRD 4	ZRD G	ZRD G-4	ZRD G-4-g
Materials								
Body	Bar	1.0460	1.4301	1.4404				
	Casting	1.0619	1.4308	1.4408	CC480K	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-15 Rubber lined
Plate	Bar	1.4006	1.4301	1.4404				
	Casting	1.4011	1.4308	1.4408	CC480K	1.4011	CC480K	CC480K
Spring		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571
Internals		1.4571	1.4301	1.4571	1.4571	1.4571	1.4571	1.4571
diameter DN	rating PN				metal/metal seat			
50	10/16	728,00	897,00	962,00	825,00	374,00	595,00	971,00
	25/40	728,00	897,00	962,00	-	-	-	-
65	10/16	804,00	1.061,00	1.153,00	1.046,00	443,00	712,00	1.098,00
	25/40	804,00	1.061,00	1.153,00	-	-	-	-
80	10/16	899,00	1.216,00	1.519,00	1.131,00	553,00	894,00	1.294,00
	25/40	899,00	1.216,00	1.519,00	-	-	-	-
100	10/16	1.004,00	1.583,00	1.951,00	1.467,00	614,00	994,00	1.423,00
	25	1.004,00	1.699,00	2.079,00	-	-	-	-
	40	1.004,00	1.699,00	2.079,00	-	-	-	-
125	10/16	1.391,00	2.349,00	2.622,00	1.855,00	730,00	1.224,00	1.672,00
	25/40	1.415,00	2.531,00	2.799,00	-	-	-	-
150	10/16	1.449,00	2.860,00	3.237,00	2.440,00	862,00	1.416,00	1.888,00
	25/40	1.531,00	3.112,00	3.403,00	-	-	-	-

4.971.00 5.338.00 2.051.00 3.930.00 1.168.00 2.011.00 2.501.00 2.230,00 5.354.00 5.749.00 ---2.379.00 5.419.00 6.157.00 ----2.799,00 6.933,00 7.656,00 5.572,00 1.634,00 2.692,00 3.254,00 3.033,00 7.492,00 8.225,00 ----7.755.00 8.659.00 3.254.00 ----4.019.00 9.619.00 10.480.00 7.454,00

7.643,00

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2.328.00 3.657.00 4.402.00 2.391,00 3.709,00 4.452,00 _ _ _

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Prices for nominal diameters DN 350 - 1400 can be found on the next page.

_

10/16

25

40

25

40

6

10/16

25

40

4.019,00

4.215,00

4.404.00

9.619,00

10.082,00

10.520.00

10.480,00

11.146,00

11.580.00

10/16

200

250

300

*) Prices are for one set (= 2 pieces)

NBR/EPDM

50.00

53.00

54.00

66.00

132,00

166.00

238.00

309.00

420.00

Nominal

diameter DN 50

65

80

100

125

150

200

250

300

Additional charges in €

for O-Rings *)

FKM

60.00

62.00

64.00

83.00

160,00

209.00

291.00

348,00

478.00

PTFE

78.00

116.00

150.00

186.00

359,00

475.00

666.00

783,00

873,00

Nominal diameter DN	for Overlays Body seat 1.4370
50	48,00
65	53,00
80	58,00
100	68,00
125	86,00
150	92,00
200	113,00
250	141,00
300	167,00

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Furthermore on request:

- Larger sizes/nominal diameters (see also next page)
- Higher pressure ratings PN 63/100/160
- Other designs such as flanged, lug-type or with hub-ends

Wafer Type Dual Plate Check Valves Type ZRD/DIN Nominal diameters DN 350 – 1400

Type Retainerles	s design	ZRD 1	ZRD 2	ZRD 3	ZRD 4	ZRD G	ZRD G-4	ZRD G-4-g			
Materials											
Body	Bar	1.0460	1.4301	1.4404							
	Casting	1.0619	1.4308	1.4408	CC480K	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-15 Rubber lined			
Plate	Bar	1.4006	1.4301	1.4404							
	Casting	1.4011	1.4308	1.4408	CC480K	1.4011	CC480K	CC480K			
Spring		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571			
Internals		1.4571	1.4301	1.4571	1.4571	1.4571	1.4571	1.4571			
Nominal diameter DN	Pressure rating PN		Prices in € (metal/metal seated)								
350	6	5.699,00	11.947,00	13.014,00	9.032,00	3.337,00	4.724,00	5.650,00			
	10/16	5.699,00	11.947,00	13.014,00	10.028,00	3.669,00	5.058,00	5.979,00			
	25	5.977,00	12.537,00	13.796,00	-	-	-	-			

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11.217,00

12.459,00

13.296,00

14.763,00

18.880,00

20.978.00

Prices on request

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-

-

-

-

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4.244,00

4.668,00

5.721,00

6.272.00

7.915,00

9.097.00

14.304,00

17.574,00

17.574,00

18,990.00

19.937,00

24.566,00

24.566.00

26.835.00

27.825,00

35.088,00

35.088.00

37.144.00

43.818.00

Additional charges in €

Nominal diameter DN	NBR/EPDM	for O-Rings *) FKM	PTFE	for Springs *) Inconel X750
350	481,00	574,00	950,00	407,00
400	554,00	664,00	1.196,00	441,00
450	750,00	899,00	1.619,00	571,00
500	897,00	1.076,00	1.938,00	890,00
*) Prices are for o	one set (= 2 piece	s)		

Additional charges in €

Nominal diameter DN	for Overlays Body seat 1.4370
350	258,00
400	359,00
450	429,00
500	507,00

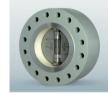
In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Furthermore on request:

- Larger sizes/nominal diameters
- Higher pressure ratings PN 63/100/160
- Other designs such as flanged, lug-type or with hub-ends

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Prices for nominal diameters DN 50 - 300 can be found on the previous page.

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7.373,00

7.778,00

9.492,00

9.792,00

13.201,00

13.957.00

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-

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-

5.970,00

6.376,00

7.891,00

8.184.00

11.318,00

11.603.00

40

6

25

40

6

25

40

6

25

40

10/16

10/16

10/16

400

450

500

600 - 1400

6.185,00

7.811,00

7.811,00

8.196,00

8.624,00

10.337,00

10.337,00

12.013.00

12.329,00

13.568,00

13.568.00

14.474.00

15.227.00

12.947,00

16.372,00

16.372,00

17.060,00

18.132,00

22.110,00

22.110.00

24.163.00

26.589,00

31.105,00

31.105.00

32.829.00

35.476.00

Wafer Type Lift Check Valves Type SR/DIN Nominal diameters DN 15 – 200



Туре	SR 12.16	SR 20.40-St.	SR 20.40	SR 22.40	DIN PN SR 30.40	l 6 - 40 SR 34.40	SR 35.40	SR 40.40	SR 50.40	SR 55.40
	C	0	0	0	0	0				
Pressure rating PN		·							, 	
PN	6 - 16	6 - 40	6 - 40	6 - 40	6 - 40	6 - 40	6 - 40	6 - 40	6 - 40	6 - 40
F/F Dimension										
EN	EN 558	EN 558	EN 558	EN 558	EN 558	EN 558	EN 558	EN 558	EN 558	EN 558
Line	Line 49	Line 49	Line 49	Line 49	Line 49	Line 49	Line 52	Line 49	Line 49	Line 52
Materials										
Body	CC483K	1.0460/1.0421	1.4006	1.0460	1.4404	1.4301	1.0460	1.0460	1.4404	1.4404
Seat overlay	-	-	-	1.4370	-	-	1.4370	1.4370	-	-
Disc (Plate, Cone)	1.4404	1.4301/1.4006	1.4404/1.4006	1.4404/1.4006	1.4404	1.4301	1.4404	1.4404	1.4404	1.4404
Spring	1.4571	1.4571	1.4571	1.4571	1.4571	1.4310	1.4571	1.4571	1.4571	1.4571

Nomina DN	l diameter	Prices in € (metal/metal seated)									
15	(1/2")	47,00	40,00	75,00	66,00	102,00	100,00	124,00	91,00	113,00	155,00
20	(34")	49,00	49,00	85,00	77,00	125,00	124,00	150,00	112,00	141,00	195,00
25	(1")	54,00	60,00	104,00	83,00	141,00	140,00	158,00	119,00	154,00	200,00
32	(1¼")	79,00	75,00	132,00	114,00	171,00	168,00	191,00	142,00	194,00	256,00
40	(1½")	86,00	82,00	154,00	128,00	203,00	200,00	228,00	168,00	223,00	300,00
50	(2")	102,00	104,00	191,00	165,00	228,00	223,00	264,00	198,00	248,00	347,00
65	(2½")	147,00	124,00	293,00	235,00	364,00	359,00	389,00	295,00	405,00	463,00
80	(3")	204,00	146,00	417,00	270,00	429,00	424,00	540,00	407,00	479,00	597,00
100	(4")	265,00	172,00	543,00	362,00	555,00	549,00	658,00	496,00	613,00	800,00
125	(5")	1.650,00	378,00	1.166,00	784,00	1.486,00	1.449,00	1.398,00	784,00	1.589,00	1.750,00
150	(6")	1.932,00	488,00	1.476,00	989,00	1.671,00	1.631,00	1.484,00	989,00	1.914,00	2.428,00
200	(8")	2.899,00	633,00	2.543,00	1.347,00	2.684,00	2.622,00	2.197,00	1.347,00	3.054,00	3.269,00

Additional charges in €

Nomi diame DN		NBR/EPDM	for O-Rings FKM	PTFE
15	(1/2")	26,00	30,00	35,00
20	(¾")	26,00	30,00	37,00
25	(1")	28,00	32,00	37,00
32	(1¼")	30,00	35,00	39,00
40	(1½")	30,00	36,00	40,00
50	(2")	30,00	37,00	48,00
65	(2½")	32,00	39,00	67,00
80	(3")	35,00	40,00	87,00
100	(4")	41,00	50,00	109,00
125	(5")	78,00	93,00	212,00
150	(6")	100,00	124,00	281,00
200	(8")	141,00	171,00	393,00

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Furthermore on request:

Special material and/or design in accordance to your specific parameters

Wafer Type Lift Check Valves Type SR/DIN Nominal diameters DN 15 – 200

Туре	DIN PN (HSR 20.160-St.	53 - 160 HSR 30.160	SR 70.06-K	SR 70.16	Building services SR 10.16	SR 10.16 S	TCR
						74/A-	
Pressure rating PN						~	
PN	63 - 160	63 - 160	6	6 - 16	6 - 1	16	6 - 10
F/F Dimension							
EN	EN 558	EN 558	EN	558	EN 5	58	-
Line	Line 52	Line 52	Lin	e 49	Line	49	-
Materials							
Body	1.0460	1.4404	2.0	402	EN-GJL	-250	2.0402
Seat overlay	1.4370	-		-	-		-
Disc (Plate, Cone)	1.4301	1.4404	PPO-GFK	1.4301	EN-GJL-250	1.4462	1.4404
Spring	2.4632	2.4632	1.4	571	1.45	71	1.4301
Nominal diameter DN			Prices in (metal/metal				
15 (½")	336,00	355,00	35,00	32,00	-	-	-
20 (¾")	417,00	441,00	35,00	32,00	-	-	-
25 (1")	458,00	508,00	39,00	35,00	-	-	39,00 *)
32 (1¼")	507,00	575,00	53,00	48,00	-	-	56,00*)
40 (1½")	540,00	631,00	60,00	53,00	-	-	-
50 (2")	609,00	743,00	72,00	68,00	-	-	-

100,00

156,00

203,00

-

-

-

91,00

144,00

185,00

-

-

-

-

-

-

437,00

527,00

768,00

Additional charges in €

Nominal diameter DN		NBR/EPDM	for O-Rings FKM	PTFE
15	(½")	26,00	30,00	35,00
20	(¾")	26,00	30,00	37,00
25	(1")	28,00	32,00	37,00
32	(1¼")	30,00	35,00	39,00
40	(1½")	30,00	36,00	40,00
50	(2")	30,00	37,00	48,00
65	(2½")	32,00	39,00	67,00
80	(3")	35,00	40,00	87,00
100	(4")	41,00	50,00	109,00
125	(5")	78,00	93,00	212,00
150	(6")	100,00	124,00	281,00
200	(8")	141,00	171,00	393,00

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Furthermore on request:

Special material and/or design in accordance to your specific parameters

(2½")

(3")

(4")

(5")

(6")

(8")

739,00

849,00

1.054,00

1.838,00

2.322,00

3.348,00

897,00

1.002,00

1.315,00

2.121,00

2.571,00

3.725,00

65

80

100

125

150

200

*) Minimum purchase: 50 pieces

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-

-

-

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740,00

966,00

1.323,00

Wafer Type Lift Check Valves Type SR/ANSI Nominal diameters ½" – 8"



Turne	SR 35.40	ANSI Class SR 40.40		SR 55.40	ANSI Class HSR 20.160-St.	
Туре	SK 33.40	5K 40.40	SR 50.40	5K 33.40	H3K 20.100-31.	HSR 30.160
		(SZ)				
Pressure rating		1			1	
Class	150 + 300	150 + 300 *)	150 + 300 *)	150 + 300	600 - 1500 **)	600 - 1500 **)
F/F Dimension						
EN	EN 558	EN 558	EN 558	EN 558	EN 558	EN 558
Line	Line 52	Line 49	Line 49	Line 52	Line 52	Line 52
Materials						
Body	A105	A105	A182 F316L	A182 F316L	A105	A182 F316L
Seat overlay	1.4370	1.4370	-	-	1.4370	-
Disc (Plate, Cone)	A182 F316L	A182 F316L	A182 F316L	A182 F316L	A182 F304	A182 F316L
Spring	1.4571	1.4571	1.4571	1.4571	2.4632	2.4632

Nomina	al diameter DN	Prices in € (metal/metal seated)							
1⁄2"	(15)	124,00	91,00	113,00	155,00	336,00	355,00		
3⁄4"	(20)	150,00	112,00	141,00	195,00	417,00	441,00		
1"	(25)	158,00	119,00	154,00	200,00	458,00	508,00		
1¼"	(32)	191,00	142,00	194,00	256,00	507,00	575,00		
1½"	(40)	228,00	168,00	223,00	300,00	540,00	631,00		
2"	(50)	264,00	198,00	248,00	347,00	609,00	743,00		
2½"	(65)	389,00	295,00	405,00	463,00	739,00	897,00		
3"	(80)	540,00	407,00	479,00	597,00	849,00	1.002,00		
4"	(100)	658,00	496,00	613,00	800,00	1.054,00	1.315,00		
5"	(125)	1.398,00	784,00	1.589,00	1.750,00	1.838,00	2.121,00		
6"	(150)	1.484,00	989,00	1.914,00	2.428,00	2.322,00	2.571,00		
8"	(200)	2.197,00	1.347,00	3.054,00	3.269,00	3.348,00	3.725,00		

Nomi	inal	for O-Rings						
diam	eter DN	NBR/EPDM	FKM	PTFE				
1⁄2"	(15)	26,00	30,00	35,00				
3⁄4"	(20)	26,00	30,00	37,00				
1"	(25)	28,00	32,00	37,00				
1⁄4"	(32)	30,00	35,00	39,00				
1½"	(40)	30,00	36,00	40,00				
2"	(50)	30,00	37,00	48,00				
2½"	(65)	32,00	39,00	67,00				
3"	(80)	35,00	40,00	87,00				
4"	(100)	41,00	50,00	109,00				
5"	(125)	78,00	93,00	212,00				
6"	(150)	100,00	124,00	281,00				
8"	(200)	141,00	171,00	393,00				

Additional charges in €

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Furthermore on request:

Special material and/or design in accordance to your specific parameters

Wafer Type Lift Check Valves Type SR/DIN + SR/ANSI Nominal diameters DN 15 – 100 / $\frac{1}{2}$ – 4"



Туре	SR 60.06	SR 60.10	SR 61.06	Special I SR 61.10	materials SR 31.40	SR 33.40	SR 99	Clean SR 93.16	Service HYPOS 100
Pressure rating			,						
PN	6	10	6	10	6 - 40	6 - 40	6 - 160	16	16
Class	150	150	150	150	150 + 300	150 + 300	150 - 2500	150	150
F/F Dimension									
EN	EN	558	EN	558	EN 558	EN 558	EN 558		
Line	Lin	ie 52	Lin	e 52	Line 52	Line 52	Line 52	See data sheet	See data sheet
Materials									
Body	P	TFE	Conduc	tive PTFE	3.7035	2.4610	Customer specification	1.4435 BN2	1.4435 BN2
Seat overlay		-		-	-	-	-	-	-
Disc (Plate, Cone)	P	TFE	Conduc	tive PTFE	3.7035	2.4610	Customer specification	1.4435 BN2	1.4435 BN2
Spring	2.4	4610	2.4	1610	3.7165	2.4610	Customer specification	1.4401	1.4401
Nominal diameter DN		Price	es in €						
15 ½"	385,00	431,00	424,00	474,00					
20 ¾"	452,00	505,00	497,00	555,00					
25 1"	504,00	564,00	554,00	621,00]				
32 1¼"	642,00	717,00	706,00	789,00]				
40 1½"	784,00	879,00	863,00	967,00		Prices on request		Prices o	n request
50 2"	1.046,00	1.171,00	1.151,00	1.288,00					

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Furthermore on request:

Special material and/or design in accordance to your specific parameters

2½"

3"

4"

1.400,00

2.012,00

2.816.00

1.572,00

2.253,00

3.153.00

1.539,00

2.213,00

3.098,00

1.729,00

2.479,00

3.468,00

65

80

100

Wafer Type Swing Check Valves Type ZRK/DIN + ZRK/ANSI Nominal diameters DN 50 - 1200 / 2" - 48"



Туре	ZRK 1		ZRK	ZRK 1 – S		ZRK 2		K 3	ZRK 4	
Pressure rating										
PN	PN 6 - 40	DN 50 - 300	PN 6 - 40	DN 50 - 300	PN 6 - 40	DN 50 - 300	PN 6 - 40	DN 50 - 300	PN 6 - 16	
	PN 6 - 25	DN 350 - 500	PN 6 - 25	DN 350 - 500	PN 6 - 25	DN 350 - 500	PN 6 - 25	DN 350 - 500		
	PN 6 - 16	> DN 500	PN 6 - 16	> DN 500	PN 6 - 16	> DN 500	PN 6 - 16	> DN 500		

Materials									
Class	1	50	15	50	15	50	1	50	-
	PN 6 - 16	> DN 500	PN 6 - 16	> DN 500	PN 6 - 16	> DN 500	PN 6 - 16	> DN 500	
	1110 20	211000 000	1110 20	211 000 000	1110 20	DI1000 000	1110 20	211000 000	

		1.4301	1.4404	CC480K
Disc (Plate) 1.4308/1.0425	1.4301	1.4308/1.4301	1.4408/1.4404	1.4408/1.4404

For f	langes acc.	. to
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| DIN | EN 1092-1 Form B1 |
|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| ANSI | ANSI B16.5 RF |

Additionals

Galvanizing/Zink Coating, Spring, Overlay/Hard facing	Galvanizing/Zink Coating, Spring, Overlay/Hard facing	Spring	Spring	Spring
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Nominal di DN	ameter			Prices in € (metal/metal seated)					
50	2"	177,00	-	319,00	481,00	298,00			
65	21⁄2"	193,00	-	364,00	528,00	321,00			
80	3"	213,00	-	405,00	576,00	362,00			
100	4"	249,00	-	499,00	666,00	488,00			
125	5"	307,00	-	595,00	733,00	562,00			
150	6"	349,00	-	711,00	946,00	731,00			
200	8"	450,00	726,00	1.078,00	1.339,00	1.223,00			
250	10"	721,00	1.179,00	1.815,00	2.243,00	1.799,00			
300	12"	1.098,00	1.784,00	2.834,00	3.904,00	2.902,00			
350	14"	1.490,00	2.281,00	4.367,00	4.760,00	4.263,00			
400	16"	1.946,00	3.222,00	6.115,00	6.734,00	6.130,00			
450	18"	2.814,00	4.594,00	7.571,00	8.346,00	7.586,00			
500	20"	3.480,00	5.669,00	10.124,00	11.143,00	10.129,00			
600 - 1200	24" - 48"	Prices on request							

		Additional charges in €						
Nominal diameter DN		NBR/EPDM	for O-Rings FKM	PTFE	for Springs 1.4310			
50	2"	30,00	37,00	48,00	35,00			
65	2½"	32,00	39,00	67,00	37,00			
80	3"	35,00	40,00	87,00	37,00			
100	4"	41,00	50,00	109,00	39,00			
125	5"	78,00	93,00	212,00	40,00			
150	6"	100,00	124,00	281,00	43,00			
200	8"	141,00	171,00	393,00	47,00			
250	10"	182,00	203,00	462,00	184,00			
300	12"	247,00	282,00	513,00	194,00			
350	14"	285,00	339,00	558,00	204,00			
400	16"	324,00	391,00	705,00	270,00			
450	18"	441,00	528,00	952,00	289,00			
500	20"	527,00	633,00	1.138,00	340,00			

Additional charges in €

Nominal diameter DN		for Galv Body	vanizing Plate	for Overlays Body seat Plate seat 1.4370 1.4370		
50	2"	16,00	-	34,00	-	
65	2½"	17,00	-	35,00	-	
80	3"	18,00	-	35,00	-	
100	4"	19,00	-	40,00	-	
125	5"	26,00	-	41,00	-	
150	6"	35,00	-	50,00	-	
200	8"	56,00	32,00	66,00	66,00	
250	10"	93,00	41,00	85,00	85,00	
300	12"	128,00	54,00	114,00	114,00	
350	14"	223,00	83,00	191,00	191,00	
400	16"	310,00	131,00	263,00	263,00	
450	18"	447,00	187,00	339,00	339,00	
500	20"	544,00	228,00	414,00	414,00	

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Wafer Type Swing Check Valves Type ZRL/DIN + ZRL/ANSI Nominal diameters DN 50 – 1200 / 2" – 48"



Туре	ZRL		ZRL HG		ZRLI		
							Space for your note
Pressure rating							
PN	PN 6 - 40	DN 50 - 300	PN 6 - 40	DN 50 - 300	PN 6 - 40	DN 50 - 300	
	PN 6 - 25	DN 350 - 500	PN 6 - 25	DN 350 - 500	PN 6 - 25	DN 350 - 500	
	PN 6 - 16	DN > 500	PN 6 - 16	DN > 500	PN 6 - 16	DN > 500	
Class	1:	50	150		150		
Materials							
Body	All ma	aterials	All m	aterials	All materials		
Disc (Plate)	All ma	iterials	All materials		All materials		
For flanges acc. to							
DIN	EN 1092-	1 Form B1	EN 1092	-1 Form B1	EN 1092-1 Form B1		
ANSI	ANSI B	ANSI B16.5 RF ANSI B16.5 RF		B16.5 RF	ANSI B16.5 RF		
Additionals							
	Galvanizing/ Spring, Overla	Zink Coating, ay/Hard facing	Galvanizing with lever	J/Zink Coating r and weight	with lever, weig	Zink Coating ht and damping es only)	
Prices for all nominal dia	ameters on request						

In case of order RITAG reserve the right to install parts of more high-graded materials at no cost impact.

Inspection charges for standard valves



Any charges for inspections as well as for documentation to be compiled are indicated below. All inspections are carried out in accordance to the minimum scope of testing that is required by the standard applicable for the relevant material. Requirements beyond this scope: additional charges on request. All testing requirements need to be stated in the purchase order by the customer. After delivery has been effected it is only possible within the framework of the QM-system to issue a certification in acc. to EN10204/2.2 for inspection only (i.e. excluding material testing).

Standard scope of testing

Material testing

These testings are carried out in accordance to the minimum scope of testing that is required by the standard applicable for the relevant material. It applys for all valves with certifications acc. EN 10204 / 2.2 respectively 3.1.

- Analysis
- Heat treatment
- Tensile test
- Impact test
- Corrosion test (for stainless steel)

Content of certificates in accordance to EN 10204

Certification acc. 2.2¹⁾

This certification is issued on the basis of non-specific testing, i. e. the tested products must not originate from the lot.

Certification acc. 3.1 ¹⁾

This certification is issued on the basis of those testings which are required in the purchase order and/or which are carried out in accordance to any legal regulations incl. the applicable technical rules. These testings have to be carried out on the valve itself or on valves of the probe unit of which the delivery is a part of. In addition it is proved by an independent manufacturer's inspector. The inspection mentioned in paragraph 1 is indicated in the standardized certification incl. a listing of material certificates applicable for the valve bodies.

Certification acc. 3.2¹⁾

This certification is issued on the basis of the legal regulations as well as the technical rules required in the purchase order by an official inspector mentioned in these regulations. The inspections are executed on the valves supplied. Confirmation of inspections by independent manufacturer's inspector as well as the inspector determined by the customer.

¹⁾ Description acc. to EN 10204, current edition

Checking of purchase order details

acc. EN 10204/2.2 resp. 3.1.

Inspections

Checking of marking
 Visual inspection, dimensional check
 Shell test
 Leakage test (cast bodies)
 Seat leakage test
 Priore EN 12266 – P10
 Seat leakage test
 Performance test
 EN 12266 – P12

On standard valves inspections in acc. to EN 12266 or rather

API 598 are carried out which are documented in a certification

Charges

€ 22.00 each quotation or purchase order item

€ 56.00 each quotation or purchase order item, plus testing/inspection charges for each valve (see table beside); € 308.00 for valves from bronze (e.g. ZRD 4, SR 12.16, ZRK 4)

Charges in acc. to expenses/ invoice of third party

Testing charges (net each valve)

Type of valve	DN	PN Class	EN 10204/3.1 1)	DIN 3230 Teil 5 2)	DIN 3230 Teil 6 3)	TRD 110 4)	API 598 5)	
Lift Check Valves Prices in €								
SR	15 - 200 ½" - 8"	6 - 40 150 - 300	11,00	21,00	21,00	21,00	11,00	
HSR	15 - 200 ½" - 8"	63 - 160 600 - 1500	11,00	21,00	21,00	21,00	11,00	
Swing Check Val	ves		Prices in €					
ZRK ZRL ZRL HG	50 - 500 2" - 20"	6 - 40 150 - 300	11,00	-	-	-	11,00	
Dual Plate Check	Valves		Prices in €					
ZRD	50 - 100 2" - 4"	6 - 40 150 - 300	11,00	21,00	21,00	21,00	11,00	
ZRD	125 - 500 5" - 20"	6 - 40 150 - 300	41,00	82,00	82,00	82,00	41,00	
ZRD	600 - 1800 24" - 72"	63 - 160 600 - 2500	Prices on request					

¹⁾ Testing on the valves of the actual shipment carried out by an independent internal surveyor

2) Testing on the valves for gas pipe lines and gas plants (TRGL) except the testing BV and BW for PG3

³⁾ Testing on the valves for flammable fluids (TRbF)

⁴⁾ Testing on the valves for steam boiler

⁵⁾ Testing on the valves in acc. to API rules

⁶⁾ ≥ DN 250: third-party-inspection by external official surveyor

Additional certifications and testings

Prices on request:

- Liquid penetrant test
- Magnetic particle inspection
- Ultrasonic examination
- X-Ray
- Positive material identification (PMI)
 - High pressure pneumatic shell test (API 598)

Photo / video documentation

Testing of surface hardness

Additional impact test

Upload of documents to customer portals

Ferrite content determination of stainless steels

Fire-Safe Test acc. API 6 FD
Proof of surface cleanliness

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All prices mentioned on this page are for metal/metal seated.

Materials



Material No.	Material Name	DIN EN Standard	ASTM Material	UNS No.	Trade Name	Material No.	Material Name	DIN EN Standard	ASTM Material	UNS No.	Trade Name
Cast iron						Austenitic stai	inless steel				
EN - JL 1040	EN – GJL – 250	1561	A 126 Grade B		Grey cast iron	1.4301	X5CrNi18 - 10	10272	A 182 F304	S30400	
EN - JS 1030	EN – GJS – 400 – 15	1563	A 536 Grade 60 - 40 - 18		Ductile cast iron	1.4305	X8CrNiS18 - 9	10272	AISI 303		
Ferritic steel ca	eting					1.4307	X2CrNi18 - 9	10272	A 182 F304L	S30403	
1.0619	GP240 GH	10213 - 2	A 216 WCB	J03002		1.4401	X5CrNiMo17 - 12 - 2	10272	A 182 F316	S31600	
1.5419	G20Mo5	10213 - 2	A 217 WC1	J12524		1.4404	X2CrNiMo17 - 12 - 2	10272	A 182 F316 L	S31603	
1.7357	G17CrMo5 - 5	10213 - 2	A 217 WC6	J12072		1.4429	X2CrNiMoN17 - 13 - 3	10272			
1.7365	GX15CrMo5	10213 - 2	A 217 C5	J42045		1.4435	X2CrNiMo18 - 14 - 3	10272	A 182 F316 L	S31603	Basler Standard
1.7379	G17CrMo9 - 10	10213 - 2	A 217 WC9	J21890		1.4439	X2CrNiMoN17 - 13 - 5	10272	A 182 F317LN	S31703	
			A 352 LCB	J03003		1.4529	X1CrNiMoCuN25 - 20 - 7	10272		N08926	254SM0
1.6220 + OT	G20Mn5+0T	10213 - 3	A 352 LCC	J02505		1.4539	X1NiCrMoCu25 - 20 - 5	10272	A 182 F904L	N08904	Uranus B6
		10210 0	1002 200	002000		1.4541	X6CrNiTi18 - 10	10272	A 182 F321	\$32100	oranas bo
Austenitic steel	5	0010 1		00(00		1.4550	X6CrNiNb18 - 10	10272	A 182 F347	\$34700	
1.4308	GX5CrNi19 - 10	0213 - 4	A 351 CF8	92600		1.4571	X6CrNiMoTi17 - 12 - 2	10272	711021047	004700	
1.4408	GX5CrNiMo19 - 11 - 2	0213 - 4	A 351 CF8M	J92900				10272			
1.4552	GX5CrNiNb19 – 11	0213 - 4	A 351 CF8C	J92710			n resistant alloys				
1.4581	GX5CrNiMoNb19 - 11 - 2	0213 - 4				2.0872	CuNi 10 Fe			C70600	Cunifer 10
Ferritic steel						2.0882	CuNi 30 Fe			C71500	Cunifer 30
1.0425	P265GH	10273	A 515 Grade 60			2.4066	Ni 99,2	DIN 17751		N02200	Nickel 200
1.0460	P250GH	10273	A 105			2.4068	LCNi 99	VDTÜV 345		N02201	Nickel 201
1.0577	\$355J2+N	10025				2.4360	NiCu 30Fe	VDTÜV 263	B 127 N04400	N04400	Monel 400
1.5415	16Mo3	10273	A 182 F1	K12822		2.4602	NiCr 21 Mo 14 W	VDTÜV 479	B 575 N06022	N06022	Hastelloy C22
1.7335	13CrMo4 - 5	10273	A 182 F12 Class 1	K11562		2.4605	NiCr 23 Mo 16 Al	VDTÜV 505	B 575 N06059	N06059	Alloy 59
1.7362	X12CrMo5	10273	A 182 F5	K41545		2.4610	NiMo 16 Cr 16 TI	VDTÜV 424	B 622 N06455	N06455	Hastelloy C4
1.7380	10CrMo9 - 10	10273	A 182 F22	K21590		2.4617	NiMo 28	VDTÜV 436	B 622 N10665	N10665	Hastelloy B2
			A350 LF2			2.4819	NiMo 16Cr 13 W	VDTÜV 400	B 462 N10276	N10276	Hastelloy 276
	interested.					2.4856	NiCr 22 Mo 9 Nb	DIN 17751	B 564 N06625	N06625	Inconel 625
Martensitic stai	X12Cr13	10272	AISI 410	S41000		2.4858	NiCr 21 Mo	VDTÜV 432	B 564 N08825	N08825	Incoloy 825
1.4000	X12CrNi16 - 2	10272	AISI 410	S41000 S43100		Titanium					
1.4037	X14CrMoS17	10272	AISI 431	S43020		3.7035		VdTÜV WB230/3	B348 Gr.2	R50400	
1.4104	X39CrMo17 - 1	10088 - 3	A131 430	343020		3.7165	Ti 6AI – 4V	VdTÜV WB230/3	B348 Gr.5	R56400	
1.4122	X39CrNiMo13 - 4	10088 - 3									
1.4313	X3CINIM013 - 4	10272				Bronze alloys 2.1050	CuSn10/CC480K	1982	D E0E 000700	C90700	
	itic stainless steel (Duplex, Supe					2.1050	CuSn12/CC480K	1982	B 505 C90700 B 427 C90800	C90700	
1.4462	X2CrNiMoN22 - 5 - 3	10272	A 182 F51	S31803	SAF2205						Aluminium ha
1.4410	X2CrNiMoN25 - 7 - 4	10272	A 182 F53	S32750	Super Duplex	2.0975	CuAl10Fe5Ni5 - C	1982	B 148 C95800	C95800	Aluminium bronze
1.4501	X2CrNiMoCuWN25 – 7 – 4	10272	A 182 F55	S32760	Super Duplex	2.0402	CuZn39Pb2/CW617N	1982	B 445 C38000	C38000	
1.4470	GX2CrNiMoN22 - 5 - 3	10213 - 4	A 995 Gr. 4 A	J92205	Duplex Casting						
1.4417	GX2CrNiMoN25 - 7 - 3	10213 - 4	A 995 Gr. 6 A	J93380	Super Duplex Casting						

Seat rings and certificates



Elastomer

Abbreviation	Chemical Name	Trade Name	Temperature	Resistant to
EPDM	Ethylene propylene diene rubber	Vistalon® / Buna®	-45 °C to 130 °C	Hot water, air, steam, diluted acids, very good resistance to ozone
NBR	Nitrile butadiene rubber	Perbunan®	-25 °C to 90 °C	Butane, propane, methane, ethane, emulsions, petrol, heating oil, mineral oils, mineral oil products, hydraulic fluids
FPM FKM	Fluorocarbon rubber	Viton®	-15 °C to 200 °C	Ozone, oxygen, natural gas, fuels, mineral oils, hydraulic oil, organic solvents
FFPM	Perfluor rubber	Perlast®	-8 °C to 315 °C	Acids, alkaline solutions, hydrocarbons, fuels and lubricants, kerosene, hydraulic fluids

Fluoric plastics

Abbreviation	Chemical Name	Trade Name	Temperature	Resistant to
PTFE	Polytetrafluorethylene	Teflon® / Hostflon®	-200 °C to 250 °C	almost all organic and inorganic chemicals
FEP	Fluorinated ethylene propylene	Teflon® Neoflon®	-200 °C to 200 °C	similar PTFE
PFA	Perfluoralkoxy	Teflon® Neoflon®	-200 °C to 260 °C	similar PTFE
PVDF	Polyvinylidene fluoride	SOLEF® Hylar®	-60 °C to 150 °C	good chemical resistance

The "resistant to" information as well as the temperatures are guide values that do not release the customer from the obligation to ensure the suitability and proper use by own examinations.

It has to be taken into consideration that elastomers have a limited life, e.g. due to ageing and the influence of temperatures. If necessary, inspections have to be carried out and replacement intervals prescribed.

Selected certificates



Rue

Ras

Zertifikat

& Co. Arms

Zertifikat

RITAG Ritterhuder Armati

ISO 9001:2015 Certifies the quality management system according to DIN EN ISO 9001 for the development, construction, production and testing of check valves.

ISO 14001:2015

ISO 45001:2018

standards.

PED 2014/68/EU

Modules A2 + H

Certifies that the RITAG

management system has

had its focus on and has

met the labour protection

Confirms that the quality

with the Modules A2

Directive 2014/68/EU.

WALKER ----- assurance system complies

and H of Pressure Equipment

This certificate underlines

the strong commitment of

RITAG for compliance with

environmental standards.



AD 2000-HP0 Certifies that RITAG has been

tested and acknowledged as a manufacturer according to AD 2000-HPO.



DIN EN ISO 3834-2 Certifies that RITAG has been tested and acknowledged as a welding company according to DIN EN ISO 3834-2.



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DNV-GL Certificate

Confirms the suitability of Wafer Type Check Valves from RITAG for LNG ships according to the DNV-GL requirements.



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General terms and conditions of sale and delivery



1. General

- 1.1 Our terms and conditions of sale and delivery apply exclusively; we do not accept any terms and conditions of the purchaser which conflict with or deviate from our terms and conditions of sale and delivery unless we have expressly agreed to their applicability in writing. Our terms and conditions of sale and delivery also apply if we make delivery to the purchaser without reservation although being aware of terms and conditions of sale and delivery.
- 1.2 Our terms and conditions of sale and delivery shall only apply to entrepreneurs within the meaning of sec. 310 para. 1 German Civil Code (BGB).

2. Offers

- 2.1 Our offers are without engagement, subject to confirmation and non-binding. The contract is not concluded until the acceptance of the order has been confirmed by us in writing, in electronic form or in text form. The same applies to supplements, amendments or subsidiary agreements.
- 2.2 The prices listed in price lists are subject to change at any time without prior notice if economic changes so require. Subject to paragraph 3 below, the prices stated in our order confirmation in addition to the respective statutory value added tax are decisive. Additional deliveries and services are invoiced separately. Unless otherwise agreed, prices are ex warehouse Osterholz-Scharmbeck excluding packaging.
- 2.3 If there are more than 4 months between the time of the conclusion of the contract and the delivery date, we are entitled to change the agreed price in the same proportion as the actual production or procurement price increased compared to the price we would have had to pay at the time of the conclusion of the contract due to changes in the production or procurement costs which occurred after the conclusion of the contract and which were not yet known to us at the time of the change or if we are in default of performance. The purchaser has the right to withdraw from the contract if the price increase leads to an increase of more than 5 percent of the originally agreed contract price.

3. Terms of Payment

- 3.1 Unless otherwise agreed, payment must be made to our payment office free of charge within 30 days of the invoice date in cash without any deduction. If payment is made within 10 days of the invoice date, we grant a discount of 2%.
- 3.2 A payment shall only be deemed to have been made when we can dispose of the amount. In the case of cheques, payment shall not be deemed to have been made until the cheque has been encashed.
- 3.3 The purchaser shall only have the right to withhold payments or offset them against counterclaims to the extent that his counterclaims are undisputed or have become legally enforceable or arise from the same order under which the relevant delivery was made.

4. Time of Delivery

- 4.1 Periods and dates for deliveries and services announced by us are always only approximate, unless a fixed period or date has been expressly approved or agreed. If shipment has been agreed, delivery periods and delivery dates refer to the time of handover to the forwarding agent, carrier or other third party commissioned with the transport.
- 4.2 We are not liable for the impossibility of delivery or for delays in delivery, if these are caused by force maieure or other events not foreseeable at the time of conclusion of the contract (e.g. operational disruptions of any kind, difficulties in procuring materials or energy, transport delays. strikes, lawful lockouts, shortages of labour, energy or raw materials. difficulties in procuring necessary official permits, official measures or the failure to deliver, incorrectly delivering or not delivering on time by suppliers) for which we are not responsible. Insofar as such events substantially impede or make impossible our delivery or performance and the impediment is not only of a temporary nature, we are entitled to withdraw from the contract. In the event of impediments of a temporary nature, the delivery or performance periods shall be extended or the delivery or performance dates shall be postponed by the period of the impediment plus a reasonable start-up period. Insofar as the purchaser cannot reasonably be expected to accept the delivery or service as a result of the delay, he may withdraw from the contract by immediate written declaration to us.

- 4.3 We shall only be entitled to make partial deliveries if
 - (a) the partial delivery can be used by the purchaser within the scope of the contractual purpose,
 - (b) the delivery of the remaining ordered goods is ensured; and
 - (c) the purchaser does not incur any significant additional expense or costs (unless purchaser agrees to pay such costs).
- 4.4 If we are in default with a delivery or service or if a delivery or service becomes impossible for us for whatever reason, our liability is limited to damages in accordance with Section 7 of these terms and conditions of sale and delivery.
- 4.5 If dispatch or acceptance of the delivery item is delayed for reasons for which the purchaser is responsible, the costs incurred as a result of the delay shall be charged to the purchaser, commencing one month after notification of readiness for dispatch or acceptance. Notwithstanding our rights arising from the purchaser's default, we may demand from the purchaser an extension of delivery and performance periods or a postponement of delivery and performance dates by the period in which the purchaser fails to meet his contractual obligations towards us.

5. Transfer of Risk

- 5.1 The risk passes to the purchaser as soon as the delivery item has been handed over to the person carrying out the transport or has left our warehouse for the purpose of shipment. If dispatch or delivery is delayed due to circumstances for which the purchaser is responsible, the risk shall pass to the purchaser from the day on which the delivery item is ready for dispatch and we have notified the purchaser accordingly.
- 5.2 Unless expressly agreed otherwise in writing, we are entitled, but not obliged, to insure the shipments to the extent customary in the trade and to charge the purchaser with the costs incurred thereby.



6. Warranty, Material Defects

- 6.1 The warranty period is one year from delivery or, if acceptance is required, from acceptance. This period does not apply to claims for damages by the purchaser arising from injury to life, body or health or from intentional breaches of duty or from gross negligence committed by us or our vicarious agents. These claims become time-barred in accordance with the statutory provisions.
- 6.2 The delivery item must be diligently inspected immediately after delivery to the purchaser or to the third party designated by the purchaser. With regard to obvious defects or other defects which would have been recognizable in an immediate, careful inspection, it shall be deemed to have been approved by the purchaser if we do not receive a written notice of defect within 7 (seven) working days from delivery. With respect to other defects, the delivery item shall be deemed to have been approved by the purchaser if we do not receive the notice of defect within 7 (seven) working days after the time at which the defect became apparent; if the defect would have been recognizable at an earlier point in time under normal use, this earlier point in time shall, however, be decisive for the commencement of the notice period. At our request, a rejected delivery item shall be returned to us carriage paid. In the event of a justified defect-related complaint, we reimburse the costs of the most inexpensive shipping route from the agreed place of delivery.
- 6.3 In the event of material defects of the delivered goods, we are entitled and obliged, at our option within a reasonable period of time, to rectify the defect or deliver a replacement. In the event of failure, i.e. impossibility, unreasonability, refusal or unreasonable delay of the rectification or replacement delivery, the purchaser may withdraw from the contract or reduce the purchase price accordingly.
- 6.4 If a defect is based on our culpable fault, the purchaser may claim damages under the conditions specified in Section 7.
- 6.5 In the event of defects in components of other manufacturers which we cannot remedy for licensing or actual reasons, we shall, at our discretion, assert our warranty claims against the manufacturers and suppliers for the account of the purchaser or assign them to the purchaser. Warranty claims against us for such defects attributable to manufactures and/or suppliers only exist under the further prerequisites of and in accordance

with these general terms and conditions of sale and delivery and on condition that the judicial enforcement of the aforementioned claims against the manufacturer or supplier was unsuccessful or is futile, e.g. due to insolvency. For the duration of a legal dispute, the statute of limitations of the relevant warranty claims of the purchaser against us is suspended.

6.6 The warranty does not apply if the purchaser changes, modifies or alters the delivery item or has it changed, modified or altered by third parties without our consent and the rectification of the defect is thereby made impossible or unreasonably difficult. In any case, the purchaser bears the additional costs of remedying the defect incurred as a result of the change, modification or alteration. If our operating or maintenance instructions are not followed, parts are replaced or expendable materials are used which do not correspond to the original specifications, no warranty or liability is accepted. Any warranty or liability for normal wear and tear shall be excluded.

7. Liability for Damages due to Fault

- 7.1 Our liability for damages, for whatever legal reason or nature, in particular impossibility of performance, delay, defective or incorrect delivery, breach of contract, breach of duties in contract negotiations and tort, is limited in accordance with the provisions of this Section 7.
- 7.2 We are not liable in the event of slight negligence on the part of our executive bodies, legal representatives, employees or other vicarious agents, insofar as this is not a breach of essential contractual obligations. Essential contractual obligations are the obligation to deliver and install the delivery item on time, its freedom from defects of title and material defects which more than insignificantly impair its functionality or usability, as well as obligations to provide advice, protection and care (insofar as the purchaser is threatened with considerable damage, against which the purchaser cannot protect himself with reasonable care, and therefore could rely on the care of the seller), which are intended to protect the life or body of the purchaser's personnel or to protect the purchaser's property from considerable damage.
- 7.3 Insofar as we are liable for damages in accordance with Section 7.2

above, this liability is limited to damages which we foresaw at the time of conclusion of the contract as a possible consequence of a breach of contract or which we should have foreseen if we had exercised due care. Indirect damages and consequential damages resulting from defects of the delivery item are also only subject to compensation if such damages are typically to be expected when the delivery item is used as intended.

- 7.4 Insofar as the purchaser directly resells the delivery items or integrates them into his products and then delivers them to third parties, any damage caused by delay which may result from agreements between the purchaser and the third parties ("third party agreements") with regard to deliveries to such third parties (e.g. the agreement of contractual penalties or lump-sum compensation/liquidated damages for delay) shall be unforeseeable damage for us, unless we have expressly agreed to assume liability with knowledge of such third party agreements.
- 7.5 The above exclusions and limitations of liability apply to the same extent in favour of our executive bodies, legal representatives, employees and other vicarious agents.
- 7.6 Insofar as we provide technical information or act in an advisory capacity and this information or advice is not part of the contractually agreed scope of services owed by us and the provision of information or advice does not constitute an essential contractual obligation within the meaning of Section 7.2 above, this is done free of charge and excluding any liability.
- 7.7 The limitations of this section 7 do not apply to our liability for willful misconduct, for guaranteed specifications, for injury to life, body or health or liability under the Product Liability Act.



8. Specifications

- 8.1 It is the purchaser's responsibility to ascertain the suitability of the delivery item for the intended use. We shall only be bound by declarations concerning the scope of delivery, performance or quality of the delivery item if these have been expressly included in the contract or the offer, whereby, however, no provision of these terms and conditions of sale and delivery may be interpreted as an attempt to limit the liability of the parties for fraud or fraudulent misrepresentation.
- 8.2 All specifications, drawings, dimensions and weights as well as other information about the delivery item provided by us in our offer are only approximate values. The descriptions and illustrations contained in our catalogues, price lists and other advertising materials are only intended as a general description of the goods described therein and are not part of the contract.
- 8.3 Drawings and documents attached to the offer are for the personal use of the recipient only and may not be reproduced or made accessible to third parties without our express permission.
- 8.4 We reserve the right to make changes to the specifications of the delivery item if
 - (i) this is necessary and reasonable in order to comply with the relevant legal provisions, or
 - we replace materials or components by at least equivalent or higher-quality materials or components on the basis of availability or production requirements, and in both cases, in particular, the quality of the delivery item is not significantly impaired thereby.

9. **Retention of Title**

- 9.1 The delivery item remains our property until full payment has been made.
- 9.2 The purchaser is obliged to treat the delivery item with care, in particular he is obliged to sufficiently insure it at his own expense at replacement value against fire, water and theft damage. Insofar as maintenance and inspection work becomes necessary, the purchaser must carry it out at his own expense and in a timely manner.

- 9.3 The purchaser is entitled to resell the delivery item in the ordinary course of business as long as he is not in default of payment. However, he may not pledge the delivery item or assign it by way of security. The purchaser's claims for payment against its customers arising from the resale of the delivery item as well as the purchaser's claims with regard to the delivery item arising from any other legal grounds against its customers or third parties (in particular claims arising from unlawful acts and claims for insurance benefits), including all balance claims from current accounts, are hereby assigned to us in full by way of security, irrespective of whether the delivery item has been resold without or after processing. We accept this assignment.
- 9.4 The purchaser may assert the claims assigned to us on his own account in his own name for us as long as we do not revoke this authorization. Our right to assert these claims ourselves shall not be affected thereby; however, we shall not assert the claims ourselves and shall not revoke the authorization as long as the purchaser duly meets his payment obligations. If, however, the purchaser is in breach of contract – in particular if he is in default of payment – we can demand that the purchaser informs

us of the assigned claims and the respective debtors, notifies the respective debtors of the assignment and hands over all documents to us as well as provides all information which we require to assert the claims.

- 9.5 The processing or modification of the delivery item by the purchaser is at all times carried out on our behalf. If the delivery item is processed with other items not belonging to us, we acquire joint ownership and property of the new item in the ratio of the value of the delivery item (final invoice amount, including VAT) to the other processed items at the time of processing. The same principle as to the delivery item delivered subject to reservation of title shall apply to any item created by processing.
- 9.6 In the event of pledging of the delivery item by third parties or other interventions by third parties, the purchaser must point out our title and must inform us immediately in writing so that we can enforce our title rights. If the third party is unable to reimburse the court or out-of-court costs incurred by us in this context, the purchaser is liable for these costs.
- 9.7 We undertake to release the securities to which we are entitled at the purchaser's request to the extent that the realizable value of our securities exceeds the claims to be secured by more than 10 %; the choice of the securities to be released is incumbent on us.

10. Miscellaneous

- 10.1 Delivery claims against us may not be assigned in whole or in part without our written consent.
- 10.2 Our terms and conditions of sale and delivery and all business relations between us and the purchaser are governed by the laws of the Federal Republic of Germany to the exclusion of the UN Convention on Contracts for the International Sale of Goods.
- 10.3 If the purchaser is a registered trader within the meaning of the German Commercial Code, a legal entity under public law or a special fund under public law, or if he does not have a general place of jurisdiction in the Federal Republic of Germany, Osterholz-Scharmbeck is an additional place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship, which is exclusive for actions against us. Deviating mandatory legal provisions on exclusive places of jurisdiction remain unaffected by this provision.
- 10.4 Should any provision of these terms and conditions of sale and delivery or any provision within the scope of other agreements be or become invalid, this does not affect the validity of all other provisions or agreements. Instead of the invalid provision, a provision shall be deemed agreed which comes as close as possible to the meaning and economic significance of the invalid provision.

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