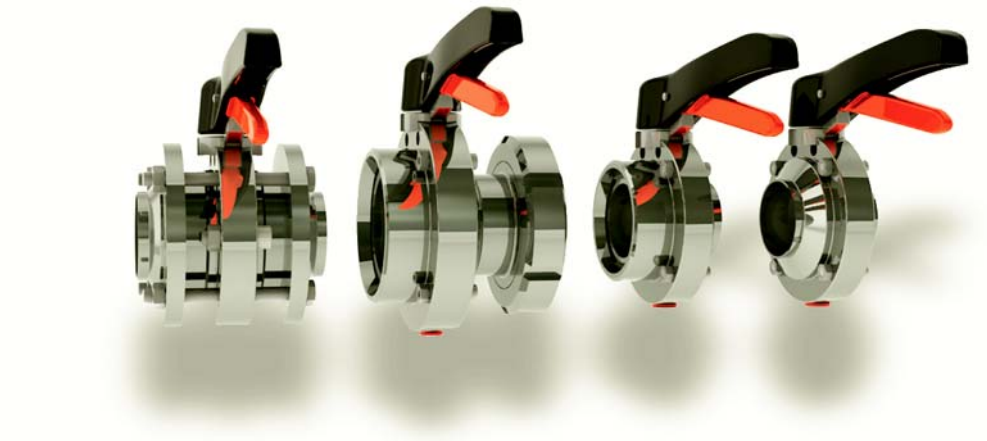
KIESELMANN
TECHNOLOGY AND KNOW-HOW IN STAINLESS STEEL

Original operating instructions:

Butterfly valves
Typ: 435x
EPDM
manual operation



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ak 4.7.08 / 17.9.10

1. List of contents

2. Information for your safety

We are pleased that you have decided for a high-class KIESELMANN product. With correct application and adequate maintenance, our products provide long time and reliable operation.

Before installation and initiation, please carefully read this instruction manual and the security advices contained in it. This guarantees reliable and safe operation of this product and your plant respectively. Please note that an incorrect application of the process components may lead to great material damages and personal injury.

In case of damages caused by non observance of this instruction manual, incorrect initiation, handling or external interference, guarantee and warranty will lapse!

Our products are produced, mounted and tested with high diligence. However, if there is still a reason for complaint, we will naturally try to give you entire satisfaction within the scope of our warranty. We will be at your disposal also after expiration of the warranty. In addition, you will also find all necessary instructions and spare part data for maintenance in this instruction manual. If you don't want to carry out the maintenance by yourself, our KIESELMANN service team will naturally be at your disposal.

3. Marking of security instructions in the operating manual

Hints are available in the chapter "safety instructions" or directly before the respective operation instruction. The hints are highlighted with a danger symbol and a signal word. Texts beside these symbols have to be read and adhered to by all means. Please continue with the text and with the handling at the valve only afterwards.

Symbol	Signal word	Meaning
	**DANGER**	Imminent danger which may cause severe personal injury or death.
	**ATTENTION**	Dangerous situation which may cause slight personal injury or material damages.
	**NOTE**	Marks application hints and other information which is particularly useful.

4. Valve types

4.1 Butterfly valve DN1 - DN4 inch

▶ **manual operation**

Typ	Seal		Connection
4351	EPDM	w/w	welding end / welding end
4352	EPDM	m/w	male / welding end
4353	EPDM	m/m	male / male
4354	EPDM	l/m	liner / male
4355	EPDM	l/w l/l	liner / welding end liner / liner
4358	EPDM	f/f	flange / flange

5. Safety instructions

5.1 Field of application

The Butterfly valve is used as a shut-off valve in the food and beverage industry, in pharmaceutical and chemical engineering, as well as in bio-engineering.

ATTENTION
- To avoid danger and damage, the fitting must be used in accordance with the safety instructions and technical data contained in the operating instructions.

5.2 General safety instructions

DANGER
- Dismantling the valve or valve assemblies from the plant can cause injuries from fluids or gases flowing out.
- Dismantle the valve or valve assembly only when the plant has been rendered pressure-less and free of liquid and gas.

5.3 General note

NOTE
- Impurities can cause damage to the seals. Clean inside areas prior to assembly.

6. Function

6.1 Functional description

The valve is opened and closed by a 90° twist of a lockable hand lever. Before actuating the valve the limit stop catch has to be unlocked by lifting the catch lever against the hand lever. When the catch lever is released in the end position it automatically snaps back into the limit stop catch by spring force. The position of the hand lever shows whether the valve is open or closed. Pointing in the direction of the pipe axis the valve is opened-pointing across the pipe axis the valve is closed.

7. Installation informations

7.1 Installations instructions

Fitting position: The installation position is without import.

7.2 Welding guidlines

Sealing elements integrated in weld components must generally be removed prior to welding. To prevent damage, welding should be undertaken by certified personnel (EN287). Use the TIG (Tungsten Inert Gas) welding process.

NOTE
- Impurities can cause damage to the seals and seals area. Clean inside areas prior to assembly.

8. Maintenance

8.1 Maintenance

The maintenance intervals depend on the operating conditions "temperature, temperature-intervals, medium, cleaning medium, pressure and opening frequency". It is recommended to change the leakage butterfly valve-seal annually. The maintenance intervals, however, depend on the condition of the seals and are to be fixed by the user.

NOTE

Seal materials		**Lubricants**
EPDM; Viton; K-Flex	→	*Klüber Paraliq GTE*
NBR; HNBR; Silikon	→	*Klüber Paraliq GB 363*
Thread	→	*Teflon grease Interflon*

8.2 Cleaning

For best cleaning results, keep the valve open during cleaning to completely rinse the gasket and the valve head.

8.3 Dry running

The butterfly valves should not be operated in dry-run mode for lengthy periods wherever this can be avoided, as this will lead to increased wear.

9. Control system - and interrogation system

9.1 Retrofitting for limit position feed-back

By replacing the hand lever (1) and the catch disc (3) the valve can be retrofitted for limit position feed-back (proximity switch).

9.2 Conversion to pneumatic actuation

By a simple retrofitting operation the valve can be converted to pneumatic actuation. The rotary actuator for this purpose is supplied complete with fitting device. The following actuators are available, depending on the desired actuating function:

DN 25-40 *DN 1 - 1½*	*DN 50* *DN 2*	*DN 65-100* *DN 2½ - 4*	*Actuator*	*Comm. Item no.*	*Function*
X	-	-	*PDA 90/75*	*4500.050.075-022*	*- opening by air- closing by spring* *- closing by air - opening by spring*
				4400.050.075-022	*- opening by air - closing by air*
X	X	-	*PDA 90/100*	*4500.050.100-022*	*- opening by air- closing by spring* *- closing by air - opening by spring*
				4400.050.100-022	*- opening by air - closing by air*
-	-	X	*PDA 90/100*	*4500.100.100-022*	*- opening by air- closing by spring* *- closing by air - opening by spring*
				4400.100.100-022	*- opening by air - closing by air*

10. Technical data

Model:	Butterfly valves manual operation
Valve size:	DN 1 inch - DN 4 inch
Connections:	Welding ends Male / welding end Male / male Liner / male Liner / welding end Flange / flange
Temperature range:	• Ambient temperature: +4° to +45°C • Product temperature: +0° to +95°C depending on the medium • Sterilization temperature: (short-time 30min) +140°C (EPDM, HNBR) +125°C (Silicone)
Operations pressures:	**Working pressure:** DN 1 inch - 2½ inch = 16 bar DN 3 inch - 4 inch = 10 bar **Cleaning pressure:** • Cleaning by pipe cleaning: - max. 3 bar

	in product contact	**not in product contact**
Material:		
Stainless steel type:	1.4404 / AISI316L	1.4301 / AISI304
Surfaces: *(varies depending on valve typ)* *a) article -code xxxx.xxx.xxx-0x1* *b) article -code xxxx.xxx.xxx-0x2*	RA 0,8µm	RA 1,5-2,5µm a) - e-polished b) - mat
Seals:	EPDM (FDA)	-

11. Disassembly and assembly

➢Lubricants
- *EPDM; Viton; K-Flex Klüber Paraliq GTE 703*
- *NBR; HNBR; Silikon Klüber Paraliq GB 363*
- *Thread Teflongrease Interflon*

11.1 Disassembly Typ: 4351, 4352, 4353, 4354, 4355

- Unscrew the screw (2) and take off the hand lever (1).
- Release the catch disc (3) from the flanges and remove it.
- Unscrew the screw joints (7)-(8) take off the flange (4).
- Remove the seal (5) and the flap (6).
- Position the flap (6) in "open" position toward the seal (5).
- Deform the seal (5) manually to oval shape toward center of the flap disc (6).
- Pull out rotary shutter at traverse borings of the seal (5), first at short, then at long shaft end.

11.2 Disassembly Typ: 4358

- Unscrew the screw joints (8)-(13) and take it off.
- Remove the cpl. butterfly valve.
- Unscrew the screw (2) and take off the hand lever (1).
- Release the catch disc (3) from the flanges and remove it.
- Unscrew the screw joints (7)-(8) take off the flange (4).
- Remove the seal (5) and the flap (6).
- Position the flap (6) in "open" position toward the seal (5).
- Deform the seal (5) manually to oval shape toward center of the flap disc (6).
- Pull out rotary shutter at traverse borings of the seal (5), first at short, then at long shaft end.
- Carry out assembly in reverse order.

11.3 Assembly

- Thouroughly clean and slightly lubricate mounting areas and running surfaces.
- Assemble in reverse order.

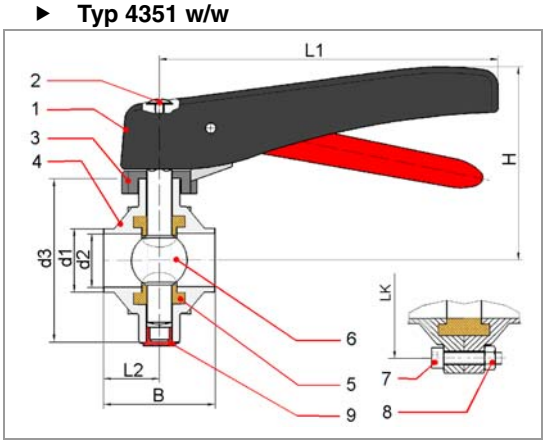
NOTE
Grease the two shafts of the flap (6) before inserting it into the seal (5) using a grease that is suitable for foods. When mounting the hand lever (1), be sure the lever orientation is matched up with the position slot at the square shaft. In this way the correct indication of the valve position by the hand lever is ensured.

12. Drawing

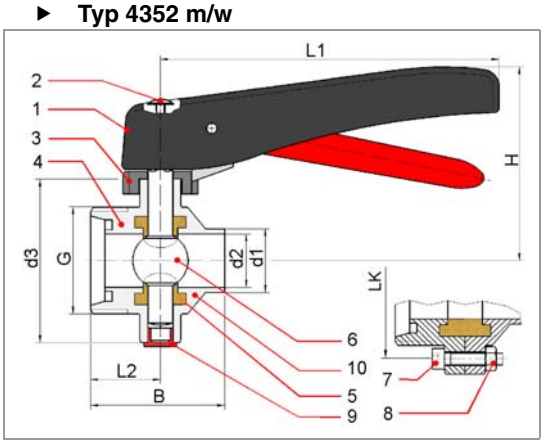
1) *Hand lever*
2) *Screw*
3) *Catch disc*
4) *Welding flange*
   Male flange
   Liner flange
   Housing flange
5) *Seal*
6) *Flap*
7) *Pan head screw*
8) *Hex. nut*
9) *Cap*
10) *Welding flange*
    Male flange
    Liner flange
11) *Disc*
12) *K-flex seal*
13) *Screw*

w = welding end
m = male
l = liner
f = flange

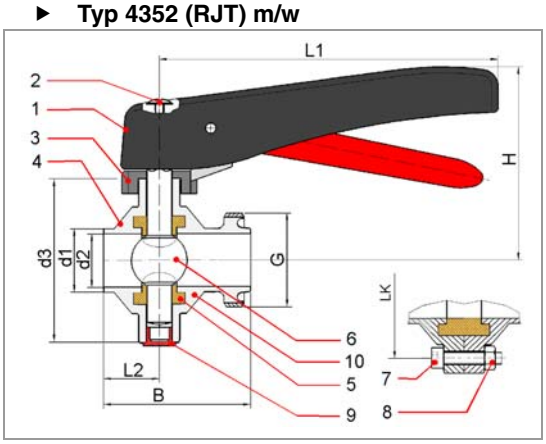
▶ **Typ 4351 w/w**



▶ **Typ 4352 m/w**



▶ **Typ 4352 (RJT) m/w**



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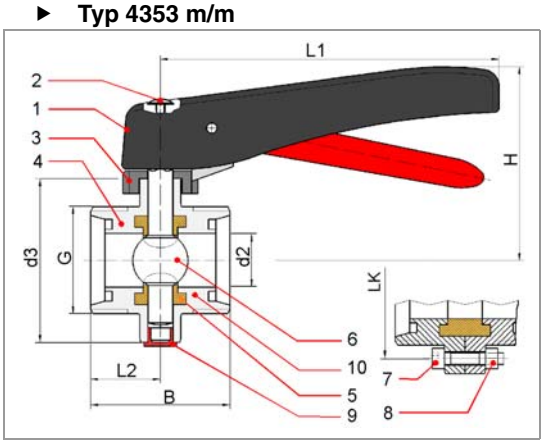

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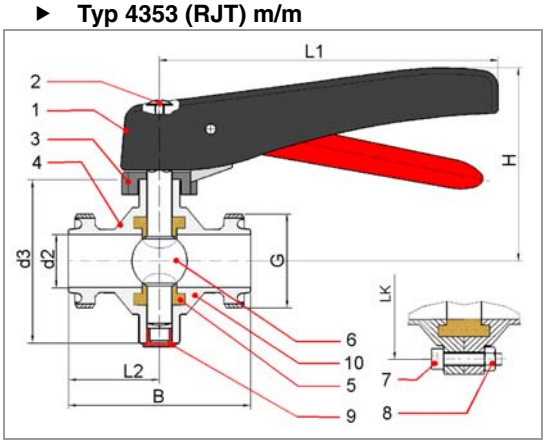

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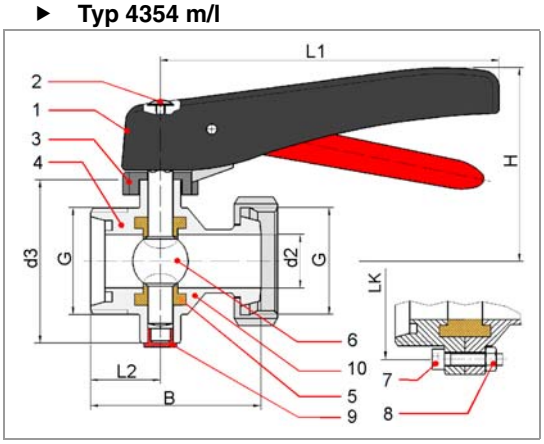

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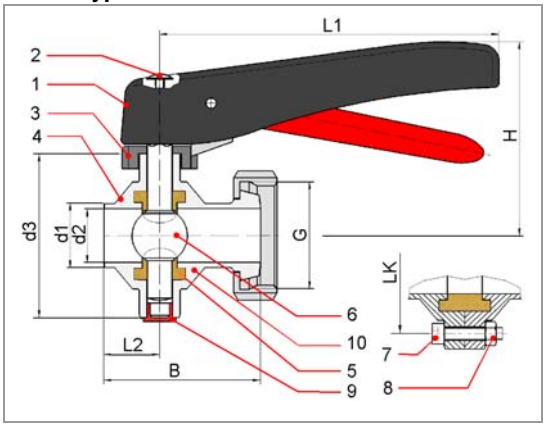
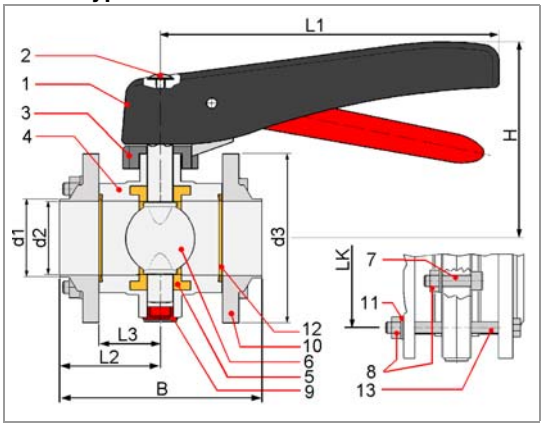


▶ **Typ 4358 f/f**



12.1 Dimensions

▶ **Typ: 4351**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	ø 25,4	ø 22,9	ø 80	165	27	54	~ 95	ø 65	-
1½ inch	ø 38,1	ø 35,1	ø 92	165	27	54	~ 101	ø 77	-
2 inch	ø 50,8	ø 47,8	ø 108	165	29	58	~ 109	ø 92	-
2½ inch	ø 63,5	ø 60,5	ø 130	165	30	60	~ 121	ø 110	-
3 inch	ø 76,1	ø 72,1	ø 146	165	36	72	~ 129	ø 126	-
4 inch	ø 101,6	ø 97,6	ø 166	165	34	68	~ 139	ø 146	-

▶ **Typ: 4352**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	ø 25,4	ø 22,9	ø 80	165	34	61	~ 95	ø 65	Rd 52x1/6
1½ inch	ø 38,1	ø 35,1	ø 92	165	34	61	~ 101	ø 77	Rd 65x1/6
2 inch	ø 50,8	ø 47,8	ø 108	165	36	65	~ 109	ø 92	Rd 78x1/6
2½ inch	ø 63,5	ø 60,5	ø 130	165	38	68	~ 121	ø 110	Rd 95x1/6
3 inch	ø 76,1	ø 72,1	ø 146	165	44	80	~ 129	ø 126	Rd 110x1/4
4 inch	ø 101,6	ø 97,6	ø 166	165	44	78	~ 139	ø 146	Rd 130x1/4

▶ **Typ: 4352 (RJT)**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	ø 25,4	ø 22,9	ø 80	165	34	80	~ 95	ø 65	Rd 45,7x1/8
1½ inch	ø 38,1	ø 35,1	ø 92	165	34	80	~ 101	ø 77	Rd 58,4x1/8
2 inch	ø 50,8	ø 47,8	ø 108	165	36	84	~ 109	ø 92	Rd 72,7x1/6
2½ inch	ø 63,5	ø 60,5	ø 130	165	38	86	~ 121	ø 110	Rd 85,4x1/6
3 inch	ø 76,1	ø 72,1	ø 146	165	44	98	~ 129	ø 126	Rd 98,1x1/6
4 inch	ø 101,6	ø 97,6	ø 166	165	44	92	~ 139	ø 146	Rd 123,8x1/6

▶ **Typ: 4353**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	-	ø 22,9	ø 80	165	34	68	~ 95	ø 65	Rd 52x1/6
1½ inch	-	ø 35,1	ø 92	165	34	68	~ 101	ø 77	Rd 65x1/6
2 inch	-	ø 47,8	ø 108	165	36	72	~ 109	ø 92	Rd 78x1/6
2½ inch	-	ø 60,5	ø 130	165	38	76	~ 121	ø 110	Rd 95x1/6
3 inch	-	ø 72,1	ø 146	165	44	88	~ 129	ø 126	Rd 110x1/4
4 inch	-	ø 97,6	ø 166	165	44	88	~ 139	ø 146	Rd 130x1/4

▶ **Typ: 4353 (RJT)**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	-	ø 22,9	ø 80	165	53	106	~ 95	ø 65	Rd 45,7x1/8
1½ inch	-	ø 35,1	ø 92	165	53	106	~ 101	ø 77	Rd 58,4x1/8
2 inch	-	ø 47,8	ø 108	165	55	110	~ 109	ø 92	Rd 72,7x1/6
2½ inch	-	ø 60,5	ø 130	165	56	112	~ 121	ø 110	Rd 85,4x1/6
3 inch	-	ø 72,1	ø 146	165	62	124	~ 129	ø 126	Rd 98,1x1/6
4 inch	-	ø 97,6	ø 166	165	60	120	~ 139	ø 146	Rd 123,8x1/6

▶ **Typ: 4354**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	-	ø 22,9	ø 80	165	34	83	~ 95	ø 65	Rd 52x1/6
1½ inch	-	ø 35,1	ø 92	165	34	87	~ 101	ø 77	Rd 65x1/6
2 inch	-	ø 47,8	ø 108	165	36	93	~ 109	ø 92	Rd 78x1/6
2½ inch	-	ø 60,5	ø 130	165	38	100	~ 121	ø 110	Rd 95x1/6
3 inch	-	ø 72,1	ø 146	165	44	117	~ 129	ø 126	Rd 110x1/4
4 inch	-	ø 97,6	ø 166	165	44	122	~ 139	ø 146	Rd 130x1/4

▶ **Typ: 4355**

DN	d1	d2	d3	L1	L2	B	H	LK	G
1 inch	ø 25,4	ø 22,9	ø 80	165	27	76	~ 95	ø 65	Rd 52x1/6
1½ inch	ø 38,1	ø 35,1	ø 92	165	27	80	~ 101	ø 77	Rd 65x1/6
2 inch	ø 50,8	ø 47,8	ø 108	165	29	86	~ 109	ø 92	Rd 78x1/6
2½ inch	ø 63,5	ø 60,5	ø 130	165	30	92	~ 121	ø 110	Rd 95x1/6
3 inch	ø 76,1	ø 72,1	ø 146	165	36	109	~ 129	ø 126	Rd 110x1/4
4 inch	ø 101,6	ø 97,6	ø 166	165	34	112	~ 139	ø 146	Rd 130x1/4

▶ **Typ: 4358**

DN	d1	d2	d3	L1	L2	L3	B	H	LK
1 inch	ø 25,4	ø 22,9	ø 80	165	51	27	102	~ 95	ø 65
1½ inch	ø 38,1	ø 35,1	ø 92	165	51	27	102	~ 101	ø 77
2 inch	ø 50,8	ø 47,8	ø 108	165	53	29	106	~ 109	ø 92
2½ inch	ø 63,5	ø 60,5	ø 130	165	54	30	108	~ 121	ø 110
3 inch	ø 76,1	ø 72,1	ø 146	165	60	36	120	~ 129	ø 126
4 inch	ø 101,6	ø 97,6	ø 166	165	58	34	116	~ 139	ø 146

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13. Spare parts list

13.1 Butterfly valve Typ: 4351 w/w

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	-
			GFK	AISI304	AISI CF-8	(2x)	EPDM		AISI304	AISI304	PE	
1	4351 026 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	-
	4351 026 130-022	AISI304 mat				4351 026 001-022						-
	4351 026 130-041	AISI316L E-pol.				4351 026 001-040		4351 026 002-041				-
	4351 026 130-042	AISI316L mat				4351 026 001-042						-
1½	4351 038 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	-
	4351 038 130-022	AISI304 mat				4351 038 001-022						-
	4351 038 130-041	AISI316L E-pol.				4351 038 001-040		4351 038 002-041				-
	4351 038 130-042	AISI316L mat				4351 038 001-042						-
2	4351 051 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	-
	4351 051 130-022	AISI304 mat				4351 051 001-022						-
	4351 051 130-041	AISI316L E-pol.				4351 051 001-040		4351 051 002-041				-
	4351 051 130-042	AISI316L mat				4351 051 001-042						-
2½	4351 064 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4351 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	-
	4351 064 130-022	AISI304 mat				4351 064 001-022						-
	4351 064 130-041	AISI316L E-pol.				4351 064 001-040		4351 064 002-041				-
	4351 064 130-042	AISI316L mat				4351 064 001-042						-
3	4351 076 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	-
	4351 076 130-022	AISI304 mat				4351 076 001-022						-
	4351 076 130-041	AISI316L E-pol.				4351 076 001-040		4351 076 002-041				-
	4351 076 130-042	AISI316L mat				4351 076 001-042						-
4	4351 101 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 101 001-020	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	-
	4351 101 130-022	AISI304 mat				4351 101 001-022						-
	4351 101 130-041	AISI316L E-pol.				4351 101 001-040		4351 101 002-041				-
	4351 101 130-042	AISI316L mat				4351 101 001-042						-

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13.2 Butterfly valve Typ: 4352 m/w

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI CF-8		EPDM		AISI304	AISI304	PE	
1	4352 026 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4351 026 001-020
	4352 026 130-022	AISI304 mat				4353 026 001-022						4351 026 001-022
	4352 026 130-041	AISI316L E-pol.				4353 026 001-040		4351 026 002-041				4351 026 001-040
	4352 026 130-042	AISI316L mat				4353 026 001-042						4351 026 001-042
1½	4352 038 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4351 038 001-020
	4352 038 130-022	AISI304 mat				4353 038 001-022						4351 038 001-022
	4352 038 130-041	AISI316L E-pol.				4353 038 001-040		4351 038 002-041				4351 038 001-040
	4352 038 130-042	AISI316L mat				4353 038 001-042						4351 038 001-042
2	4352 051 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4351 051 001-020
	4352 051 130-022	AISI304 mat				4353 051 001-022						4351 051 001-022
	4352 051 130-041	AISI316L E-pol.				4353 051 001-040		4351 051 002-041				4351 051 001-040
	4352 051 130-042	AISI316L mat				4353 051 001-042						4351 051 001-042
2½	4352 064 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4353 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4351 064 001-020
	4352 064 130-022	AISI304 mat				4353 064 001-022						4351 064 001-022
	4352 064 130-041	AISI316L E-pol.				4353 064 001-040		4351 064 002-041				4351 064 001-040
	4352 064 130-042	AISI316L mat				4353 064 001-042						4351 064 001-042
3	4352 076 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4353 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4351 076 001-020
	4352 076 130-022	AISI304 mat				4353 076 001-022						4351 076 001-022
	4352 076 130-041	AISI316L E-pol.				4353 076 001-040		4351 076 002-041				4351 076 001-040
	4352 076 130-042	AISI316L mat				4353 076 001-042						4351 076 001-042
4	4352 101 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4353 101 001-021	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4351 101 001-020
	4352 101 130-022	AISI304 mat				4353 101 001-022						4351 101 001-022
	4352 101 130-041	AISI316L E-pol.				4353 101 001-040		4351 101 002-041				4351 101 001-040
	4352 101 130-042	AISI316L mat				4353 101 001-042						4351 101 001-042

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13.3 Butterfly valve Typ: 4352 m/w (RJT)

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI CF-8		EPDM		AISI304	AISI304	PE	
1	4352 026 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 026 966-020
	4352 026 963-022	AISI304 mat				4351 026 001-022						4352 026 966-022
	4352 026 963-041	AISI316L E-pol.				4351 026 001-040		4351 026 002-041				4352 026 966-040
	4352 026 963-042	AISI316L mat				4351 026 001-042						4352 026 966-042
1½	4352 038 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 038 966-020
	4352 038 963-022	AISI304 mat				4351 038 001-022						4352 038 966-022
	4352 038 963-041	AISI316L E-pol.				4351 038 001-040		4351 038 002-041				4352 038 966-040
	4352 038 963-042	AISI316L mat				4351 038 001-042						4352 038 966-042
2	4352 051 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 051 966-020
	4352 051 963-022	AISI304 mat				4351 051 001-022						4352 051 966-022
	4352 051 963-041	AISI316L E-pol.				4351 051 001-040		4351 051 002-041				4352 051 966-040
	4352 051 963-042	AISI316L mat				4351 051 001-042						4352 051 966-042
2½	4352 064 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4351 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4352 064 966-020
	4352 064 963-022	AISI304 mat				4351 064 001-022						4352 064 966-022
	4352 064 963-041	AISI316L E-pol.				4351 064 001-040		4351 064 002-041				4352 064 966-040
	4352 064 963-042	AISI316L mat				4351 064 001-042						4352 064 966-042
3	4352 076 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4352 076 966-020
	4352 076 963-022	AISI304 mat				4351 076 001-022						4352 076 966-022
	4352 076 963-041	AISI316L E-pol.				4351 076 001-040		4351 076 002-041				4352 076 966-040
	4352 076 963-042	AISI316L mat				4351 076 001-042						4352 076 966-042
4	4352 101 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 101 001-020	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4352 101 966-021
	4352 101 963-022	AISI304 mat				4351 101 001-022						4352 101 966-022
	4352 101 963-041	AISI316L E-pol.				4351 101 001-040		4351 101 002-041				4352 101 966-040
	4352 101 963-042	AISI316L mat				4351 101 001-042						4352 101 966-042

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13.4 Butterfly valve Typ: 4352 m/w (RJT) with proximity switch mount.

DN inch	Valve	Material	1 Hand lever	2 Screw	3 Catch disc	4 Flange	5 Seal	6 Flap	7 Pan head screw	8 Hex. nut	9 Cap	10 Flange
			GFK	AISI304	AISI304		EPDM		AISI304	AISI304	PE	
1	4352 026 967-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 050 001-021	4351 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 026 966-020
	4352 026 967-022	AISI304 mat				4351 026 001-022						4352 026 966-022
	4352 026 967-041	AISI316L E-pol.				4351 026 001-040		4351 026 002-041				4352 026 966-040
	4352 026 967-042	AISI316L mat				4351 026 001-042						4352 026 966-042
1½	4352 038 967-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 050 001-021	4351 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 038 966-020
	4352 038 967-022	AISI304 mat				4351 038 001-022						4352 038 966-022
	4352 038 967-041	AISI316L E-pol.				4351 038 001-040		4351 038 002-041				4352 038 966-040
	4352 038 967-042	AISI316L mat				4351 038 001-042						4352 038 966-042
2	4352 051 967-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 050 001-021	4351 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 051 966-020
	4352 051 967-022	AISI304 mat				4351 051 001-022						4352 051 966-022
	4352 051 967-041	AISI316L E-pol.				4351 051 001-040		4351 051 002-041				4352 051 966-040
	4352 051 967-042	AISI316L mat				4351 051 001-042						4352 051 966-042
2½	4352 064 967-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 065 001-021	4351 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4352 064 966-020
	4352 064 967-022	AISI304 mat				4351 064 001-022						4352 064 966-022
	4352 064 967-041	AISI316L E-pol.				4351 064 001-040		4351 064 002-041				4352 064 966-040
	4352 064 967-042	AISI316L mat				4351 064 001-042						4352 064 966-042
3	4352 076 967-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 100 001-021	4351 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4352 076 966-020
	4352 076 967-022	AISI304 mat				4351 076 001-022						4352 076 966-022
	4352 076 967-041	AISI316L E-pol.				4351 076 001-040		4351 076 002-041				4352 076 966-040
	4352 076 967-042	AISI316L mat				4351 076 001-042						4352 076 966-042
4	4352 101 967-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 100 001-021	4351 101 001-020	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4352 101 966-021
	4352 101 967-022	AISI304 mat				4351 101 001-022						4352 101 966-022
	4352 101 967-041	AISI316L E-pol.				4351 101 001-040		4351 101 002-041				4352 101 966-040
	4352 101 967-042	AISI316L mat				4351 101 001-042						4352 101 966-042

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13.5 Butterfly valve Typ: 4353 m/m

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI CF-8		EPDM		AISI304	AISI304	PE	
1	4353 026 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4353 026 001-020
	4353 026 130-022	AISI304 mat				4353 026 001-022						4353 026 001-022
	4353 026 130-041	AISI316L E-pol.				4353 026 001-040		4351 026 002-041				4353 026 001-040
	4353 026 130-042	AISI316L mat				4353 026 001-042						4353 026 001-042
1½	4353 038 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4353 038 001-020
	4353 038 130-022	AISI304 mat				4353 038 001-022						4353 038 001-022
	4353 038 130-041	AISI316L E-pol.				4353 038 001-040		4351 038 002-041				4353 038 001-040
	4353 038 130-042	AISI316L mat				4353 038 001-042						4353 038 001-042
2	4353 051 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4353 051 001-020
	4353 051 130-022	AISI304 mat				4353 051 001-022						4353 051 001-022
	4353 051 130-041	AISI316L E-pol.				4353 051 001-040		4351 051 002-041				4353 051 001-040
	4353 051 130-042	AISI316L mat				4353 051 001-042						4353 051 001-042
2½	4353 064 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4353 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4353 064 001-020
	4353 064 130-022	AISI304 mat				4353 064 001-022						4353 064 001-022
	4353 064 130-041	AISI316L E-pol.				4353 064 001-040		4351 064 002-041				4353 064 001-040
	4353 064 130-042	AISI316L mat				4353 064 001-042						4353 064 001-042
3	4353 076 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4353 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4353 076 001-020
	4353 076 130-022	AISI304 mat				4353 076 001-022						4353 076 001-022
	4353 076 130-041	AISI316L E-pol.				4353 076 001-040		4351 076 002-041				4353 076 001-040
	4353 076 130-042	AISI316L mat				4353 076 001-042						4353 076 001-042
4	4353 101 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4353 101 001-021	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4353 101 001-021
	4353 101 130-022	AISI304 mat				4353 101 001-022						4353 101 001-022
	4353 101 130-041	AISI316L E-pol.				4353 101 001-040		4351 101 002-041				4353 101 001-040
	4353 101 130-042	AISI316L mat				4353 101 001-042						4353 101 001-042

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13.6 Butterfly valve Typ: 4353 m/m (RJT)

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI CF-8		EPDM		AISI304	AISI304	PE	
1	4353 026 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4352 026 966-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 026 966-020
	4353 026 963-022	AISI304 mat				4352 026 966-022						4352 026 966-022
	4353 026 963-041	AISI316L E-pol.				4352 026 966-040		4351 026 002-041				4352 026 966-040
	4353 026 963-042	AISI316L mat				4352 026 966-042						4352 026 966-042
1½	4353 038 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4352 038 966-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 038 966-020
	4353 038 963-022	AISI304 mat				4352 038 966-022						4352 038 966-022
	4353 038 963-041	AISI316L E-pol.				4352 038 966-040		4351 038 002-041				4352 038 966-040
	4353 038 963-042	AISI316L mat				4352 038 966-042						4352 038 966-042
2	4353 051 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4352 051 966-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 051 966-020
	4353 051 963-022	AISI304 mat				4352 051 966-022						4352 051 966-022
	4353 051 963-041	AISI316L E-pol.				4352 051 966-040		4351 051 002-041				4352 051 966-040
	4353 051 963-042	AISI316L mat				4352 051 966-042						4352 051 966-042
2½	4353 064 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4352 064 966-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4352 064 966-020
	4353 064 963-022	AISI304 mat				4352 064 966-022						4352 064 966-022
	4353 064 963-041	AISI316L E-pol.				4352 064 966-040		4351 064 002-041				4352 064 966-040
	4353 064 963-042	AISI316L mat				4352 064 966-042						4352 064 966-042
3	4353 076 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4352 076 966-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4352 076 966-020
	4353 076 963-022	AISI304 mat				4352 076 966-022						4352 076 966-022
	4353 076 963-041	AISI316L E-pol.				4352 076 966-040		4351 076 002-041				4352 076 966-040
	4353 076 963-042	AISI316L mat				4352 076 966-042						4352 076 966-042
4	4353 101 963-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4352 101 966-021	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4352 101 966-021
	4353 101 963-022	AISI304 mat				4352 101 966-022						4352 101 966-022
	4353 101 963-041	AISI316L E-pol.				4352 101 966-040		4351 101 002-041				4352 101 966-040
	4353 101 963-042	AISI316L mat				4352 101 966-042						4352 101 966-042

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13.7 Butterfly valve Typ: 4353 m/m (RJT) with proximity switch mount.

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI304		EPDM		AISI304	AISI304	PE	
1	4353 026 963-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 050 001-021	4352 026 966-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 026 966-020
	4353 026 963-022	AISI304 mat				4352 026 966-022						4352 026 966-022
	4353 026 963-041	AISI316L E-pol.				4352 026 966-040		4351 026 002-041				4352 026 966-040
	4353 026 963-042	AISI316L mat				4352 026 966-042						4352 026 966-042
1½	4353 038 963-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 050 001-021	4352 038 966-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 038 966-020
	4353 038 963-022	AISI304 mat				4352 038 966-022						4352 038 966-022
	4353 038 963-041	AISI316L E-pol.				4352 038 966-040		4351 038 002-041				4352 038 966-040
	4353 038 963-042	AISI316L mat				4352 038 966-042						4352 038 966-042
2	4353 051 963-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 050 001-021	4352 051 966-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4352 051 966-020
	4353 051 963-022	AISI304 mat				4352 051 966-022						4352 051 966-022
	4353 051 963-041	AISI316L E-pol.				4352 051 966-040		4351 051 002-041				4352 051 966-040
	4353 051 963-042	AISI316L mat				4352 051 966-042						4352 051 966-042
2½	4353 064 963-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 065 001-021	4352 064 966-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4352 064 966-020
	4353 064 963-022	AISI304 mat				4352 064 966-022						4352 064 966-022
	4353 064 963-041	AISI316L E-pol.				4352 064 966-040		4351 064 002-041				4352 064 966-040
	4353 064 963-042	AISI316L mat				4352 064 966-042						4352 064 966-042
3	4353 076 963-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 100 001-021	4352 076 966-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4352 076 966-020
	4353 076 963-022	AISI304 mat				4352 076 966-022						4352 076 966-022
	4353 076 963-041	AISI316L E-pol.				4352 076 966-040		4351 076 002-041				4352 076 966-040
	4353 076 963-042	AISI316L mat				4352 076 966-042						4352 076 966-042
4	4353 101 963-021	AISI304 E-pol.	4335 100 100-089	4301 100 005-020	4321 100 001-021	4352 101 966-021	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4352 101 966-021
	4353 101 963-022	AISI304 mat				4352 101 966-022						4352 101 966-022
	4353 101 963-041	AISI316L E-pol.				4352 101 966-040		4351 101 002-041				4352 101 966-040
	4353 101 963-042	AISI316L mat				4352 101 966-042						4352 101 966-042

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13.8 Butterfly valve Typ: 4354 m/l

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI CF-8		EPDM		AISI304	AISI304	PE	
1	4354 026 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4354 026 001-020
	4354 026 130-022	AISI304 mat				4353 026 001-022						4354 026 001-022
	4354 026 130-041	AISI316L E-pol.				4353 026 001-040		4351 026 002-041				4354 026 001-040
	4354 026 130-042	AISI316L mat				4353 026 001-042						4354 026 001-042
1½	4354 038 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4354 038 001-020
	4354 038 130-022	AISI304 mat				4353 038 001-022						4354 038 001-022
	4354 038 130-041	AISI316L E-pol.				4353 038 001-040		4351 038 002-041				4354 038 001-040
	4354 038 130-042	AISI316L mat				4353 038 001-042						4354 038 001-042
2	4354 051 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4353 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4354 051 001-020
	4354 051 130-022	AISI304 mat				4353 051 001-022						4354 051 001-022
	4354 051 130-041	AISI316L E-pol.				4353 051 001-040		4351 051 002-041				4354 051 001-040
	4354 051 130-042	AISI316L mat				4353 051 001-042						4354 051 001-042
2½	4354 064 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4353 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4354 064 001-020
	4354 064 130-022	AISI304 mat				4353 064 001-022						4354 064 001-022
	4354 064 130-041	AISI316L E-pol.				4353 064 001-040		4351 064 002-041				4354 064 001-040
	4354 064 130-042	AISI316L mat				4353 064 001-042						4354 064 001-042
3	4354 076 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4353 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4354 076 001-020
	4354 076 130-022	AISI304 mat				4353 076 001-022						4354 076 001-022
	4354 076 130-041	AISI316L E-pol.				4353 076 001-040		4351 076 002-041				4354 076 001-040
	4354 076 130-042	AISI316L mat				4353 076 001-042						4354 076 001-042
4	4354 101 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4353 101 001-021	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4354 101 001-021
	4354 101 130-022	AISI304 mat				4353 101 001-022						4354 101 001-022
	4354 101 130-041	AISI316L E-pol.				4353 101 001-040		4351 101 002-041				4354 101 001-040
	4354 101 130-042	AISI316L mat				4353 101 001-042						4354 101 001-042

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13.9 Butterfly valve Typ: 4355 w/l

DN inch	Valve	Material	1	2	3	4	5	6	7	8	9	10
			Hand lever	Screw	Catch disc	Flange	Seal	Flap	Pan head screw	Hex. nut	Cap	Flange
			GFK	AISI304	AISI CF-8		EPDM		AISI304	AISI304	PE	
1	4354 026 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 026 001-020	4328 026 000-054	4351 026 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4354 026 001-020
	4354 026 130-022	AISI304 mat				4351 026 001-022						4354 026 001-022
	4354 026 130-041	AISI316L E-pol.				4351 026 001-040		4351 026 002-041				4354 026 001-040
	4354 026 130-042	AISI316L mat				4351 026 001-042						4354 026 001-042
1½	4354 038 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 038 001-020	4328 038 000-054	4351 038 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4354 038 001-020
	4354 038 130-022	AISI304 mat				4351 038 001-022						4354 038 001-022
	4354 038 130-041	AISI316L E-pol.				4351 038 001-040		4351 038 002-041				4354 038 001-040
	4354 038 130-042	AISI316L mat				4351 038 001-042						4354 038 001-042
2	4354 051 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4351 051 001-020	4328 051 000-054	4351 051 002-021	8095 006 025-020 (4x)	8107 006 000-020 (4x)	4301 080 020-095	4354 051 001-020
	4354 051 130-022	AISI304 mat				4351 051 001-022						4354 051 001-022
	4354 051 130-041	AISI316L E-pol.				4351 051 001-040		4351 051 002-041				4354 051 001-040
	4354 051 130-042	AISI316L mat				4351 051 001-042						4354 051 001-042
2½	4354 064 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4351 064 001-020	4328 064 000-054	4351 064 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 020-095	4354 064 001-020
	4354 064 130-022	AISI304 mat				4351 064 001-022						4354 064 001-022
	4354 064 130-041	AISI316L E-pol.				4351 064 001-040		4351 064 002-041				4354 064 001-040
	4354 064 130-042	AISI316L mat				4351 064 001-042						4354 064 001-042
3	4354 076 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 076 001-020	4328 076 000-054	4351 076 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	4301 080 022-095	4354 076 001-020
	4354 076 130-022	AISI304 mat				4351 076 001-022						4354 076 001-022
	4354 076 130-041	AISI316L E-pol.				4351 076 001-040		4351 076 002-041				4354 076 001-040
	4354 076 130-042	AISI316L mat				4351 076 001-042						4354 076 001-042
4	4354 101 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 101 001-020	4328 101 000-054	4351 101 002-021	8095 008 030-020 (4x)	8107 008 000-020 (4x)	-	4354 101 001-021
	4354 101 130-022	AISI304 mat				4351 101 001-022						4354 101 001-022
	4354 101 130-041	AISI316L E-pol.				4351 101 001-040		4351 101 002-041				4354 101 001-040
	4354 101 130-042	AISI316L mat				4351 101 001-042						4354 101 001-042

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13.10Butterfly valve Typ: 4358 f/f

DN inch	Valve	Material	1 Hand lever	2 Screw	3 Catch disc	4 Flange	5 Seal	6 Flap	7 Pan head screw	8 Hex. nut	9 Cap	10 Flange	11 Disc DIN125	12 Seal	13 Screw
			GFK	AISI304	AISI CF-8	(2x)	EPDM		AISI304	AISI304	PE	(2x)	AISI304	K-flex(2x)	AISI304
1	4354 026 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4358 026 001-020	4328 026 000-054	4351 026 002-021	8095 008 030-020 (2x)	8107 008 000-020 (6x)	4301 080 020-095	2041 026 001-020	8071 084 001-020 (4x)	2353 032 024-114	8105 008 090-020 (4x)
	4354 026 130-022	AISI304 mat				4358 026 001-022						2041 026 001-022			
	4354 026 130-041	AISI316L E-pol.				4358 026 001-040		4351 026 002-041				2041 026 001-040			
	4354 026 130-042	AISI316L mat				4358 026 001-042						2041 026 001-042			
1½	4354 038 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4358 038 001-020	4328 038 000-054	4351 038 002-021	8095 008 030-020 (2x)	8107 008 000-020 (6x)	4301 080 020-095	2041 038 001-020	8071 084 001-020 (4x)	2353 044 036-114	8105 008 090-020 (4x)
	4354 038 130-022	AISI304 mat				4358 038 001-022						2041 038 001-022			
	4354 038 130-041	AISI316L E-pol.				4358 038 001-040		4351 038 002-041				2041 038 001-040			
	4354 038 130-042	AISI316L mat				4358 038 001-042						2041 038 001-042			
2	4354 051 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 050 104-027	4358 051 001-020	4328 051 000-054	4351 051 002-021	8095 008 030-020 (2x)	8107 008 000-020 (6x)	4301 080 020-095	2041 051 001-020	8071 084 001-020 (4x)	2353 057 049-114	8105 008 090-020 (4x)
	4354 051 130-022	AISI304 mat				4358 051 001-022						2041 051 001-022			
	4354 051 130-041	AISI316L E-pol.				4358 051 001-040		4351 051 002-041				2041 051 001-040			
	4354 051 130-042	AISI316L mat				4358 051 001-042						2041 051 001-042			
2½	4354 064 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 065 104-027	4358 064 001-020	4328 064 000-054	4351 064 002-021	8095 010 035-020 (2x)	8107 010 000-020 (6x)	4301 080 020-095	2041 064 001-020	8071 105 001-020 (4x)	2353 071 061-114	8105 010 100-020 (4x)
	4354 064 130-022	AISI304 mat				4358 064 001-022						2041 064 001-022			
	4354 064 130-041	AISI316L E-pol.				4358 064 001-040		4351 064 002-041				2041 064 001-040			
	4354 064 130-042	AISI316L mat				4358 064 001-042						2041 064 001-042			
3	4354 076 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 076 001-020	4328 076 000-054	4351 076 002-021	8095 010 035-020 (2x)	8107 010 000-020 (6x)	4301 080 020-095	2041 076 001-020	8071 105 001-020 (4x)	2353 083 073-114	8105 010 110-020 (4x)
	4354 076 130-022	AISI304 mat				4351 076 001-022						2041 076 001-022			
	4354 076 130-041	AISI316L E-pol.				4351 076 001-040		4351 076 002-041				2041 076 001-040			
	4354 076 130-042	AISI316L mat				4351 076 001-042						2041 076 001-042			
4	4354 101 130-021	AISI304 E-pol.	4335 100 000-089	4301 100 005-020	4301 100 104-027	4351 101 001-020	4328 101 000-054	4351 101 002-021	8095 010 035-020 (2x)	8107 010 000-020 (10x)	-	2041 101 001-020	8071 105 001-020 (8x)	2353 107 099-114	8105 010 100-020 (8x)
	4354 101 130-022	AISI304 mat				4351 101 001-022						2041 101 001-022			
	4354 101 130-041	AISI316L E-pol.				4351 101 001-040		4351 101 002-041				2041 101 001-040			
	4354 101 130-042	AISI316L mat				4351 101 001-042						2041 101 001-042			