

HERZ Isolating Butterfly Valves

Wafer and lug types, with or without gearbox

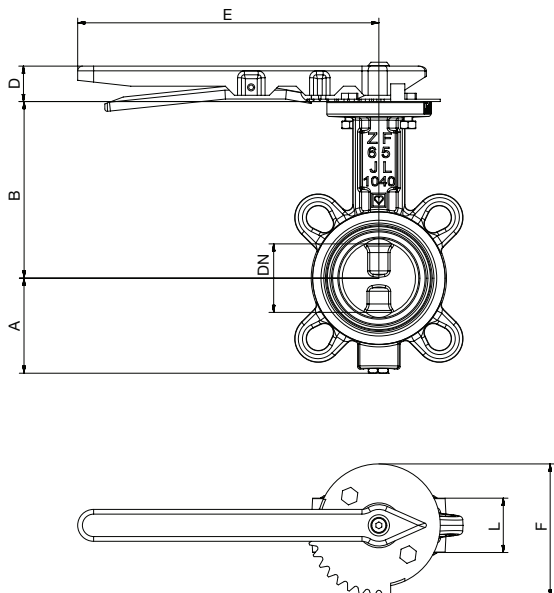


Datasheet for 4219, Issue 0717

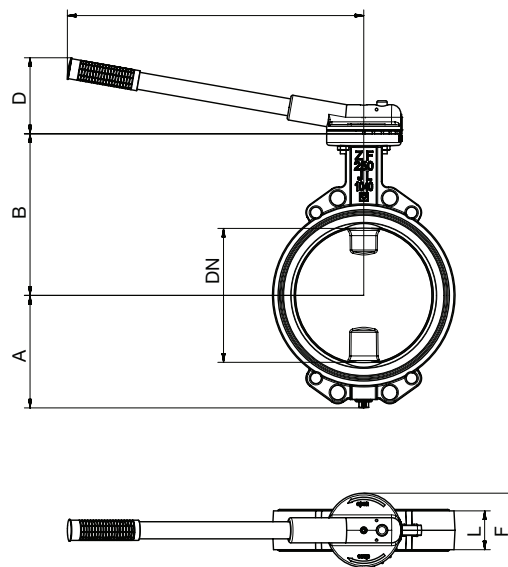
☑ Wafer type ZF

Dimensions in mm

Handle for DN50-DN150



Handle for DN200-DN300



Article number	DN	PN10	PN16	A	B	L	D	E	F	Weight (kg)	Torque (Nm)
1 4219 01	50	+	+	68	125	43	30	255	112	3.8	20
1 4219 02	65	+	+	80	150	46	30	255	112	4	20
1 4219 03	80	+	+	87	157	46	30	255	112	4.7	25
1 4219 04	100	+	+	102	182	52	30	255	112	6.3	50
1 4219 05	125	+	+	120	201	56	30	255	112	8.3	50
1 4219 06	150	+	+	132	214	56	30	255	112	10.1	90
1 4219 07	200	-	+	167	245	60	95	365	88	16.6	150
1 4219 08	250	-	+	197	283	68	133	519	130	24.5	250
1 4219 09	300	-	+	222	308	78	133	519	130	37.6	350

☑ Materials

Housing	GG, GJL-250/JL1040, according to EN1561
Disc	stainless steel 1.4408
Spindle	stainless steel ASTM-A276 / Type 316
Lever DN50-150	steel, ST14.03
Lever DN200-300	steel, S235 DIN2458/1626
Housing sealing	EPDM according to ISO 1691
O-Ring	EPDM according to ISO 1691
Flange	according to EN1092-2
The housing is painted blue (RAL 5000).	

☑ Application field

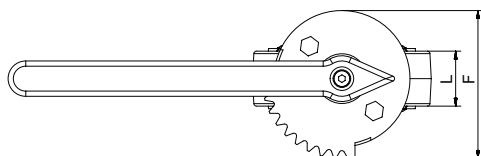
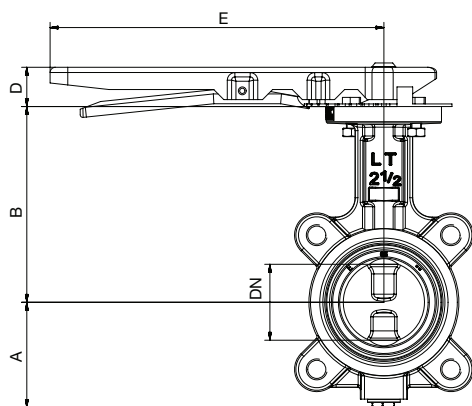
Suitable for fluids in building services, cold water systems, hot water systems, etc. Ethylene and propylene glycol, in a mixing ratio of 25 - 50 % with water is permitted for usage

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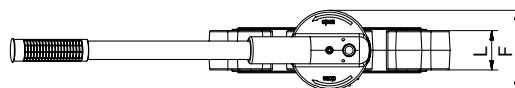
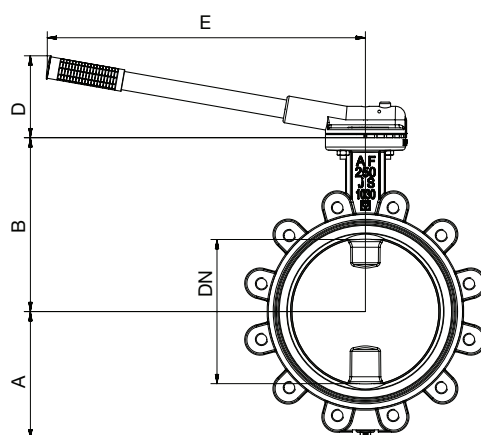
Lug type AF

Dimensions in mm

Handle for DN50-DN150



Handle for DN200-DN300



Article number	DN	PN10	PN16	A	B	L	D	E	F	Weight (kg)	Torque (Nm)
1 4219 11	50	+	+	68	125	43	30	255	112	3.8	20
1 4219 12	65	+	+	80	150	46	30	255	112	4.9	20
1 4219 13	80	+	+	87	157	50	30	255	112	6.3	25
1 4219 14	100	+	+	102	182	52	30	255	112	8	50
1 4219 15	125	+	+	120	201	61	30	255	112	10.2	50
1 4219 16	150	+	+	132	214	61	30	255	112	13	90
1 4219 17	200	-	+	167	245	65	95	365	88	16.6	150
1 4219 18	250	-	+	207	283	68	133	519	130	24.5	250
1 4219 19	300	-	+	222	308	78	133	519	130	37.6	350

Materials

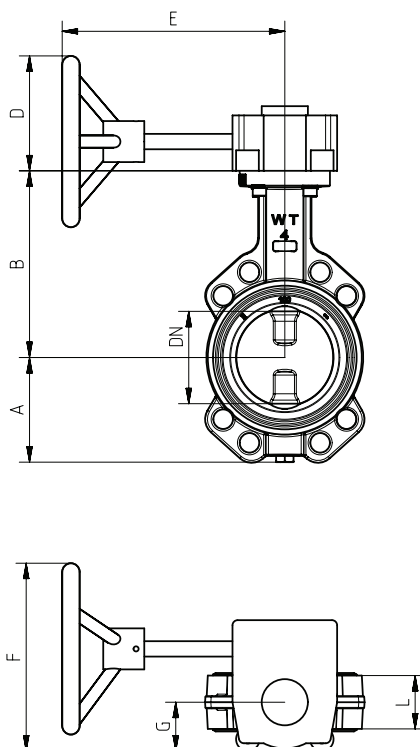
Housing	GGG, GJS-400-15/JS1030, according to EN1563
Disc	stainless steel 1.4408
Spindle	stainless steel ASTM-A276 / Type 316
Lever	DN50-150 steel, ST14.03
Lever	DN200-300 steel, S235 DIN2458/1626
Housing sealing	EPDM according to ISO 1691
O-Ring	EPDM according to ISO 1691
Flange	according to EN1092-2
The housing is painted blue (RAL 5000).	

Application field

Suitable for fluids in building services, cold water systems, hot water systems, etc. Ethylene and propylene glycol, in a mixing ratio of 25 - 50 % with water is permitted for usage

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 Wafer type ZF with gearbox
Dimensions in mm



Article number	DN	PN10	PN16	A	B	L	D	E	F	G	Weight (kg)	Torque (Nm)
1 4219 61	50	+	+	68	125	43	63	217	183	47.5	8.3	20
1 4219 62	65	+	+	80	150	46	63	217	183	47.5	8.5	20
1 4219 63	80	+	+	87	157	46	63	217	183	47.5	9.2	25
1 4219 64	100	+	+	102	182	52	63	217	183	47.5	10.8	50
1 4219 65	125	+	+	120	201	56	63	217	183	47.5	12.8	50
1 4219 66	150	+	+	132	214	56	63	217	183	47.5	14.6	90
1 4219 67	200	-	+	167	245	60	63	217	183	47.5	19.7	150
1 4219 68	250	-	+	197	283	68	63	217	226	65	29.1	250
1 4219 69	300	-	+	222	308	78	63	217	226	65	39.4	350

 Materials

Housing	GG, GJL-250/JL1040, according to EN1561
Disc	stainless steel 1.4408
Spindle	stainless steel ASTM-A276 / Type 316
Lever	DN50-150 steel, ST14.03
Lever	DN200-300 steel, S235 DIN2458/1626
Housing	sealing EPDM according to ISO 1691
O-Ring	EPDM according to ISO 1691
Flange	according to EN1092-2

The housing is painted blue (RAL 5000).

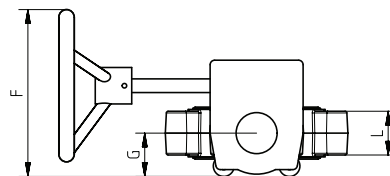
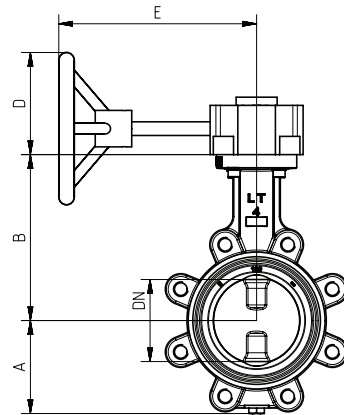
The handwheel is supplied in the delivery and must be fixed by means of a packed bolts.

 Application field

Suitable for fluids in building services, cold water systems, hot water saystems, etc. Ethylene and propylene glycol, in a mixing ratio of 25 - 50 % with water is permitted for usage.

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☑ **Lug type AF with gearbox**
Dimensions in mm



Article number	DN	PN10	PN16	A	B	L	D	E	F	G	Weight (kg)	Torque (Nm)
1 4219 71	50	+	+	68	125	43	63	217	183	47.5	8.3	20
1 4219 72	65	+	+	80	150	46	63	217	183	47.5	9.4	20
1 4219 73	80	+	+	87	157	46	63	217	183	47.5	10.8	25
1 4219 74	100	+	+	102	182	52	63	217	183	47.5	12.4	50
1 4219 75	125	+	+	120	201	56	63	217	183	47.5	14.6	50
1 4219 76	150	+	+	132	214	56	63	217	183	47.5	17.1	90
1 4219 77	200	-	+	167	245	60	63	217	183	47.5	19.7	150
1 4219 78	250	-	+	207	283	68	63	217	226	65	29.1	250
1 4219 79	300	-	+	222	308	78	63	217	226	65	39.4	350

☑ **Materials**

Housing	GGG, GJS-400-15/JS1030, according to EN1563
Disc	stainless steel 1.4408
Spindle	stainless steel ASTM-A276 / Type 316
Lever	DN50-150 steel, ST14.03
Lever	DN200-300 steel, S235 DIN2458/1626
Housing sealing	EPDM according to ISO 1691
O-Ring	EPDM according to ISO 1691
Flange	according to EN1092-2
The housing is painted blue (RAL 5000).	
The hand wheel is supplied in the delivery and must be fixed by means of a packed bolt.	

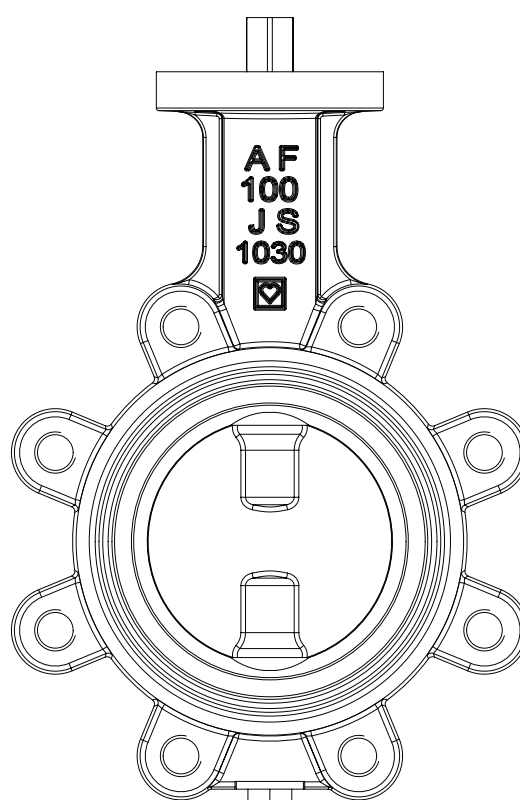
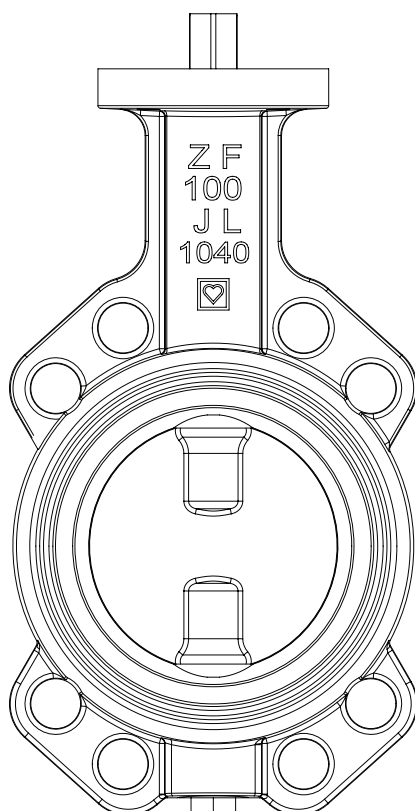
☑ **Application field**

Suitable for fluids in building services, cold water systems, hot water systems, etc. Ethylene and propylene glycol, in a mixing ratio of 25 - 50 % with water is permitted for usage.

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 Valves without handle

Article Nr. : wafer type ZF	Article Nr. : lug type AF	DN
1 4219 21	1 4219 31	50
1 4219 22	1 4219 32	65
1 4219 23	1 4219 33	80
1 4219 24	1 4219 34	100
1 4219 25	1 4219 35	125
1 4219 26	1 4219 36	150
1 4219 27	1 4219 37	200
1 4219 28	1 4219 38	250
1 4219 29	1 4219 39	300



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 Technical specifications

Maximum operating temperature

110°C

Minimal operating temperature

-20°C with appropriate water-glycol mixture.

Article Nr. : wafer type ZF	Article Nr. : lug type AF	DN	Dim.	kv[m ³ /h]	Zeta
1 4219 01/21/61	1 4219 11/31/71	50	2"	91	1.18
1 4219 02/22/62	1 4219 12/32/72	65	2 1/2"	206	0.66
1 4219 03/23/63	1 4219 13/33/73	80	3"	436	0.34
1 4219 04/24/64	1 4219 14/34/74	100	4"	660	0.36
1 4219 05/25/65	1 4219 15/35/75	125	5"	1300	0.22
1 4219 06/26/66	1 4219 16/36/76	150	6"	2100	0.18
1 4219 07/27/67	1 4219 17/37/77	200	8"	4100	0.15
1 4219 08/28/68	1 4219 18/38/78	250	10"	6090	0.17
1 4219 09/29/69	1 4219 19/39/79	300	12"	9570	0.14

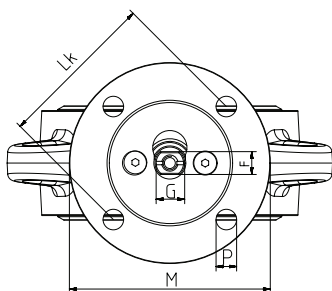
All specifications and information within this document are reflecting the information available at the time of going to print and meant for informational purpose only. Herz Armaturen reserves the right to modify and change products as well as its technical specifications and/or its function according to technological progress and requirements. All diagrams are indicative in nature and do not to be complete. It is understood that all images of Herz products are symbolic representations and therefore may visually differ from the actual product. Colours may differ due to printing technology used. In case of any further questions don't hesitate to contact your closest HERZ Branch-Office.

☑ Special design features

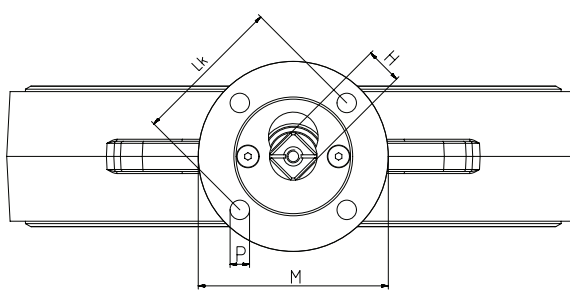
The valves are used as shut-off or control fitting. The mounting flange is according to ISO 5211, where transmission or electric drives can be mounted. The rubber sleeve protects the valve against internal corrosion. Additional seals are not needed. All valves are factory checked by pressure and function testing according to ISO 5208.

The valves can also be supplied with gearboxes or electric actuators. The recommended actuators and dimensions of the flange connecting are described below.

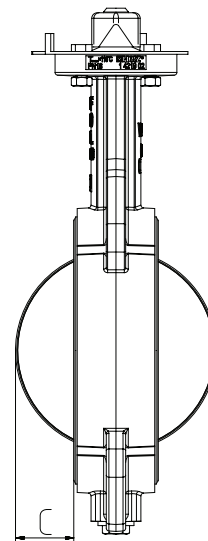
Top view DN50 – DN80



Top view DN100 – DN300



Side view



Article Number wafer type ZF	Article Number lug type AF	DN	Flansch	Lk	M	P	G	F	H	C	Bore quantity
1 4219 01/21/61	1 4219 11/31/71	50	F07	70	88	9	12	9	9	3.7	4
1 4219 02/22/62	1 4219 12/32/72	65	F07	70	88	9	12	9	9	11.3	4
1 4219 03/23/63	1 4219 13/33/73	80	F07	70	88	9	12	9	9	16.3	4
1 4219 04/24/64	1 4219 14/34/74	100	F07	70	88	9	-	-	14	22.6	4
1 4219 05/25/65	1 4219 15/35/75	125	F07	70	88	9	-	-	14	32.5	4
1 4219 06/26/66	1 4219 16/36/76	150	F07	70	88	9	-	-	14	44.6	4
1 4219 07/27/67	1 4219 17/37/77	200	F07	70	88	9	-	-	17	65.8	4
1 4219 08/28/68	1 4219 18/38/78	250	F10	102	130	11	-	-	22	89	4
1 4219 09/29/69	1 4219 19/39/79	300	F10	102	130	11	-	-	22	107.5	4

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☑ Installation

The butterfly valves wafer type is installed between flanges. The flange connection is done with SKT screws or bolts without using seals.

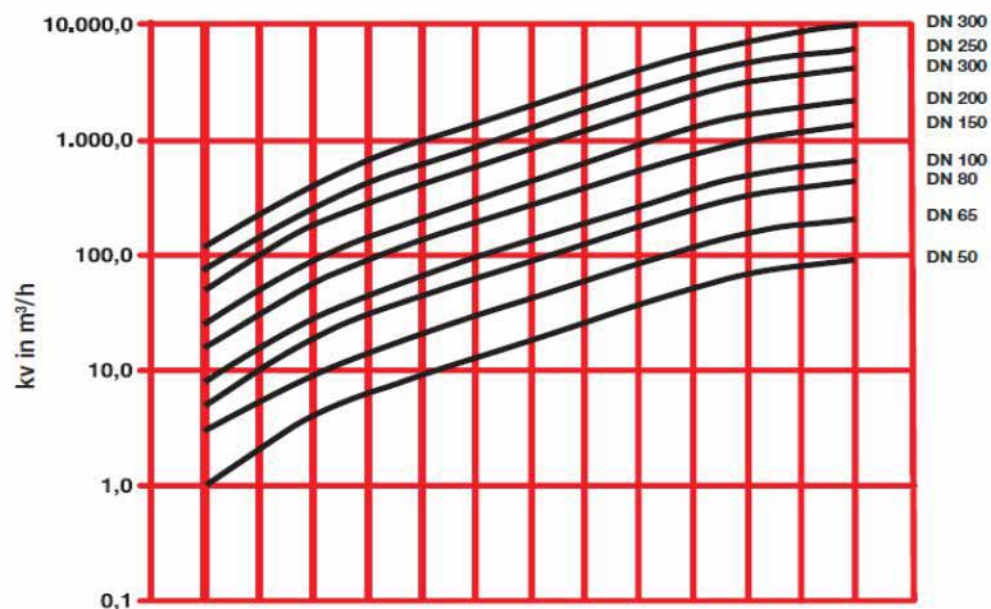
The butterfly valves lug type has threaded lugs on both sides. The flange connection is to be done with SKT screws on both sides. The valve can be used for dead-end installations and be attached only on one side

DN	Type wafer type ZF		Type lug type AF	
	PN 10	PN16	PN 10	PN16
50	4x M16x100	4x M16x100	4x M16x35	4x M16x100
65	4x M16x100	4x M16x100	4x M16x35	4x M16x100
80	8x M16x100	8x M16x100	8x M16x35	8x M16x100
100	8x M16x110	8x M16x110	8x M16x40	8x M16x110
125	8x M16x120	8x M16x120	8x M16x40	8x M16x120
150	8x M20x120	8x M20x120	8x M20x40	8x M20x120
200	-	12x M20x130	-	12x M20x130
250	-	12x M24x130	-	12x M24x130
300	-	12x M24x150	-	12x M24x150

☑ Pre-setting

If the butterfly valve is used as a throttling valve, it can be adjusted with the stopper lever at desired position.

kv value depending on the hand lever position



Hand lever position DN200 – 300

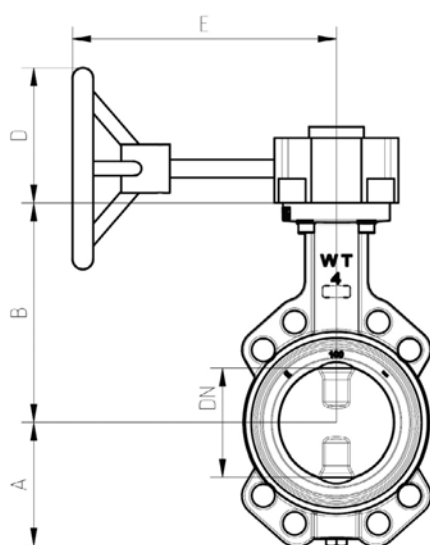
1 2 3 4 5 6 7

Hand lever position DN50 – 150

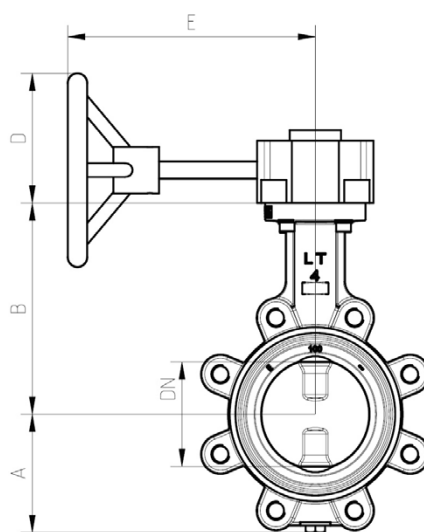
1 2 3 4 5 6 7 8 9

☑ Other models

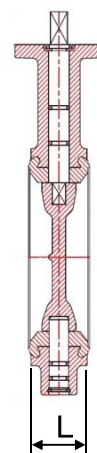
Models in larger sizes are available outside Europe. If needed, please contact your nearest HERZ office



Type ZF



Type AF



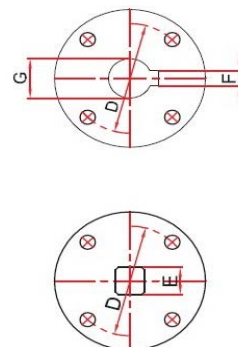
Order # Type ZF	Order # Type AF	DN mm	A	B	L	E	Weight Type ZF[kg]	Weight Type AF[kg]	Torque [Nm]	Kv [m³/h]
4 4219 10	4 4219 30	350	282	370	78	217	59,2	80	510	10421
4 4219 11	4 4219 31	400	310	400	102	217	84,9	120	630	12146
4 4219 12	4 4219 32	450	329	420	114	217	103,6	-	690	16863
4 4219 13	4 4219 33	500	390	480	127	217	150	-	860	22795
4 4219 14	4 4219 34	600	455	565	154	217	193	-	1035	27502

Technical Data

max. pressure (DN350 - DN600)	16 bar (for water)
max. temperature	110°C
min. temperature	- 20°C with water- glycol mixture up to 50%
Body	Cast iron EN-GJL-250 (GG25) / GGG, GJS-400-15/JS1030
Disc	1.4301, AISI 304, stainless steel
Stem	1.4021, AISI 420, stainless steel
Sealing	EPDM
Coating	Electro-static powder epoxy

Constructional characteristics

Order # Type ZF	Order # Type AF	DN mm	D	E	F	G
4 4219 10	4 4219 30	350	125	22	-	-
4 4219 11	4 4219 31	400	140	27	-	-
4 4219 12	4 4219 32	450	140	27	-	-
4 4219 13	4 4219 33	500	165	-	14	48
4 4219 14	4 4219 34	600	165	-	14	48



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