



## Main Features:-

- ◆ Bi-directional centric butterfly valve
- ◆ Oval flange holes allow coupling with numerous standards
- ◆ Suitable for isolating and regulating duties
- ◆ Lever with locking device and quick release operation
- ◆ PVC-U and EPDM or FPM, for compliance with water, drinking water and other food substances regulations



## FK DN40/300 uPVC

EU MANUFACTURER:



Suitable Applications & Approvals:



The FIP FK butterfly valve is a high quality, thermoplastic valve with structural characteristics that make it ideal for industrial applications requiring high performance and long-term reliability .  
The valve can also be installed as an end of line valve, bottom discharge valve or as a tank dump valve.

## TECHNICAL SPECIFICATIONS

<b>Construction</b>	Bi-directional centric butterfly valve
<b>Size Range</b>	DN 40 ÷ 300
<b>Nominal Pressure</b>	<b>Wafer version:</b> DN 40÷50: PN 16 with water at 20 °C DN 65÷250: PN 10 with water at 20 °C DN 300: PN 8 with water at 20 °C  <b>Lug version:</b> DN 65÷200: PN 10 with water at 20 °C DN 250÷300: PN 6 with water at 20 °C
<b>Operating Temperature</b>	0 °C ÷ 60 °C
<b>Coupling Standards</b>	<b>Flanging system:</b> EN ISO 1452, EN ISO 15493, DIN 2501, ISO 7005-1, EN 1092-1, ASTM B16.5 Cl.150
<b>Reference Standards</b>	<b>Construction criteria:</b> EN ISO 16136, EN ISO 1452, EN ISO 15493  <b>Test methods and requirements:</b> ISO 9393  <b>Actuator couplings:</b> ISO 5211
<b>Valve Material</b>	<b>Body:</b> PP-GR <b>Disk:</b> PVC-U <b>Stem:</b> STAINLESS steel AISI 420. (AISI 316 on request)
<b>Seal Material</b>	<b>Liner:</b> EPDM, FPM. On request NBR
<b>Control options</b>	Hand Lever operated (DN 40÷200); Gearbox, pneumatic actuator, electric actuator

*This product is compatible for mounting with standard pneumatic or electric actuators that use standard ISO5211 profiles (F05, F07, F10), when combined with the optional actuation kit accessory. Allvalves can supply this product preassembled with a suitable actuator on request.*



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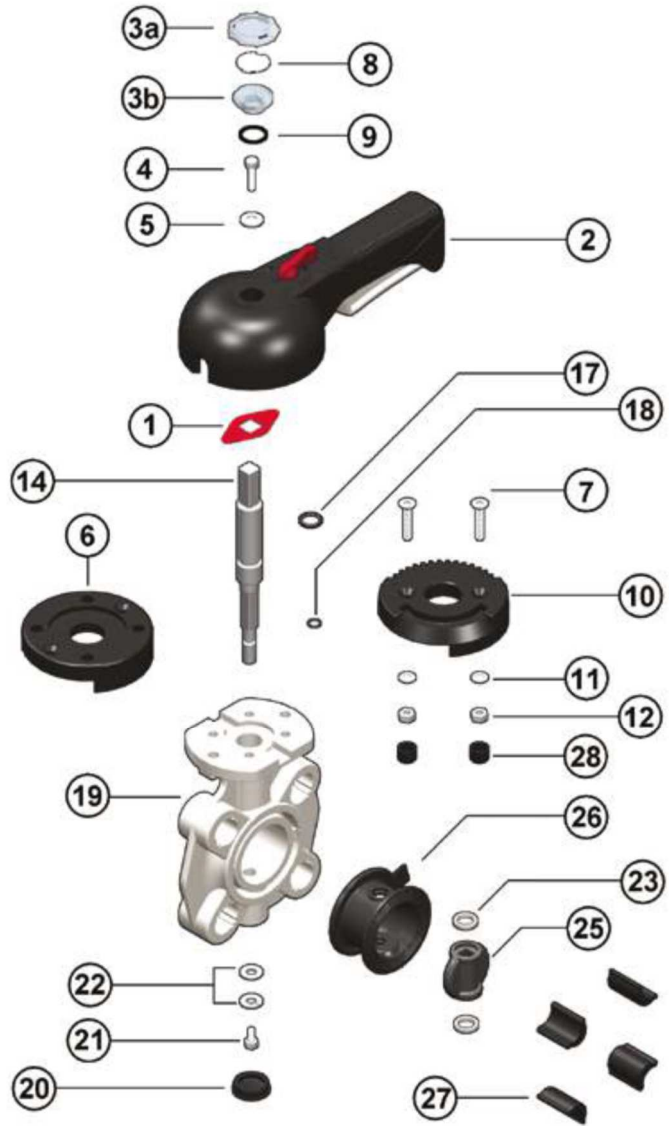
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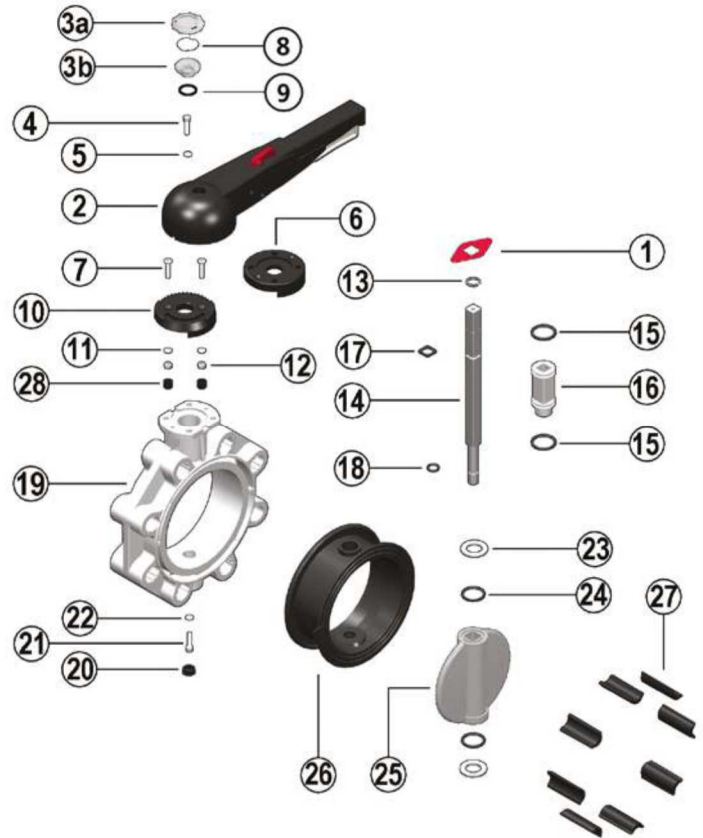


Part	Component	Material
1	Position indicator	PA
2	Handle	HIPVC
3a/b	Transparent protection plug	PVC
4	Fastening screw	Stainless steel
5	Washer	Stainless steel
6	Flange	PP-GR
7	Screw	Stainless steel
8	Tag holder	PVC-U
9	O-Ring	NBR
10	Plate	PP-GR
11	Washer	Stainless steel
12	Nut	Stainless steel
13	Seeger ring	Stainless steel
14	Stem	Steel AISI 420
15	Bush O-Ring	FPM
16	Bush	Nylon
17	Stem O-Ring	FPM
18	Stem O-Ring	FPM
19	Body	PP-GR
20	Protection plug	PE
21	Screw	Stainless steel
22	Washer	Stainless steel
23	Anti-friction ring	PTFE
24	Disk O-Ring	FPM
25	Disk	PVC-U
26	Liner	FPM
27	Inserts	ABS
28	Plug	PE





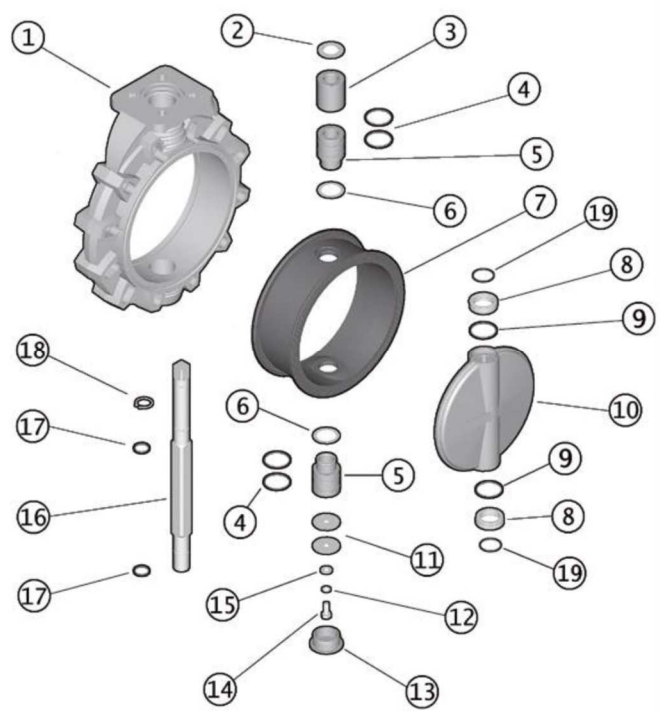
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10	Plate	PP-GR
11	Washer	Stainless steel
12	Nut	Stainless steel
13	Seeger ring	Stainless steel
14	Stem	Steel AISI 420
15	Bush O-Ring	FPM
16	Bush	Nylon
17	Stem O-Ring	FPM
18	Stem O-Ring	FPM
19	Body	PP-GR
20	Protection plug	PE
21	Screw	Stainless steel
22	Washer	Stainless steel
23	Anti-friction ring	PTFE
24	Disk O-Ring	FPM
25	Disk	PVC-U
26	Liner	FPM
27	Inserts	ABS
28	Plug	PE





PRODUCT MATERIALS - DN 250/300

Part	Component	Material
1	Body	PP-GR
2	Washer	Stainless steel
3	Bush	PP
4	Bush O-Ring	FPM
5	Bush	PP
6	Washer	PTFE
7	Liner	FPM
8	Anti-friction ring	PTFE
9	Disk O-Ring	FPM
10	Disk	PVC-U
11	Washer	Stainless steel
12	Washer	Stainless steel
13	Protection plug	PE
14	Screw	Stainless steel
15	Washer	Stainless steel
16	Stem	Steel AISI 420
17	Stem O-Ring	FPM
18	Seeger ring	Stainless steel
19	O-Ring	FPM



PRODUCT FEATURES

**Customisable Labelling System**

**Ergonomic handle in HIPVC with locking device, release, quick operation and graduated adjustment in 10 intermediate positions (DN 40÷200). The operating range, starting from the first few degrees of valve opening, also guarantees extremely low pressure drops.**

**Square section stem completely isolated from the fluid complying with standard ISO 5211**

**Body in polypropylene based compound reinforced with fibreglass (PP-GR) resistant to UV rays and characterised by high mechanical strength**

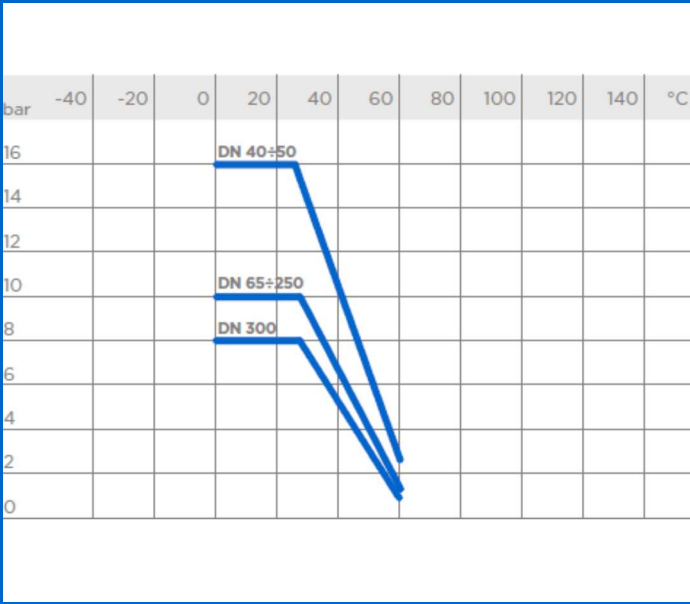
**Drilling pattern using oval slots that allow coupling to flanges according to numerous international standards.**

**Interchangeable liner with the dual function of forming a hydraulic seal and isolating the body from the fluid**

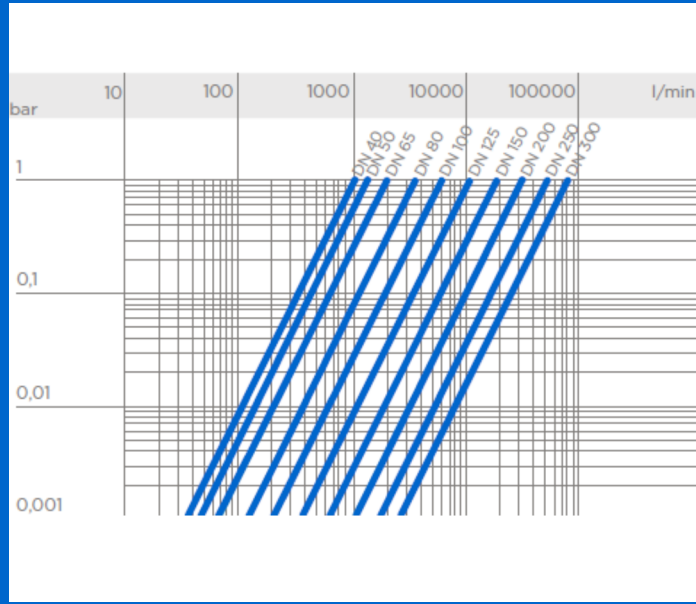




## PRESSURE VARIATION



## PRESSURE DROP

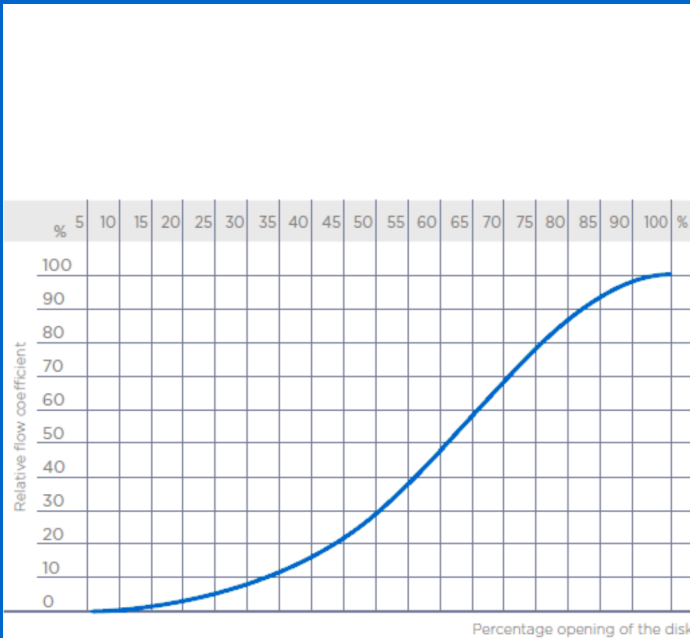


## FLOW

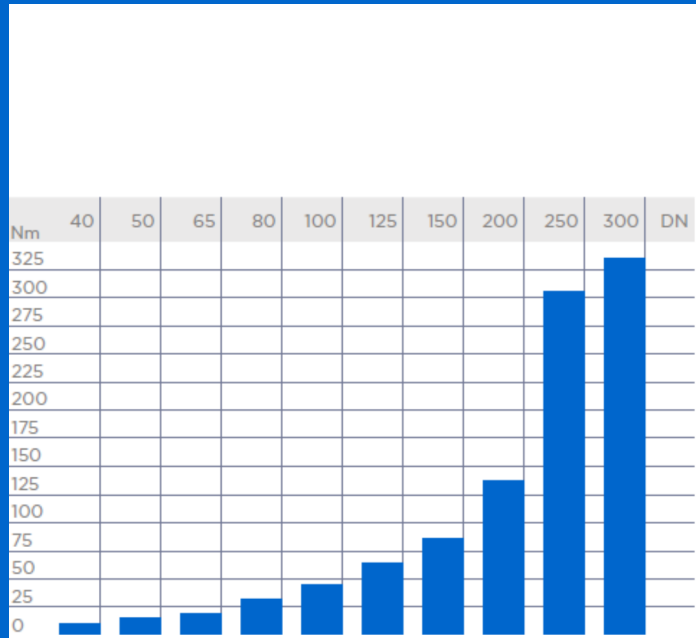
DN	40	50	65	80	100	125	150	200	250	300
Kv100 l/min	1000	1285	1700	3550	5900	9850	18700	30500	53200	81600

The Kv100 flow coefficient is the Q flow rate of litres per minute of water at a temperature of 20°C that will generate  $\Delta p = 1$  bar pressure drop at a certain valve position. \*The Kv100 values shown in the table are calculated with the valve completely open.

## RELATIVE FLOW COEFFICIENT



## OPERATING TORQUE\*



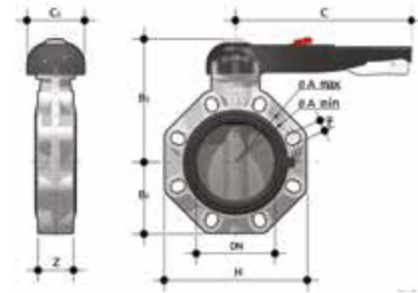
\*At maximum working pressure.





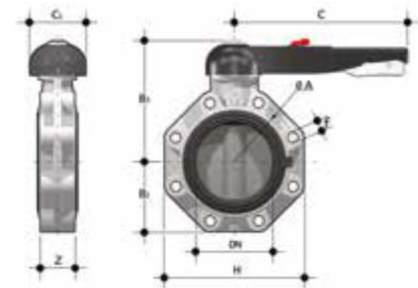
### FKOV/LM Hand operated Butterfly valve

d	DN	PN	A <sub>min</sub>	A <sub>max</sub>	B <sub>2</sub>	B <sub>3</sub>	C	G	H	U	Z	g
50	40	10	99	109	60	137	175	100	132	4	33	1000
63	50	10	115	125.5	70	143	175	100	147	4	43	1180
75	65	10	128	144	80	164	175	110	165	4	46	1570
90	80	10	145	160	93	178	175	100	185	8	49	2020
110	100	10	165	190	107	192	272	110	211	8	56	2370
140	125	10	204	215	120	212	330	110	240	8	64	3300
160	150	10	230	242	134	225	330	110	268	8	70	4100
225	200	10	280	298	161	272	420	122	323	8	71	7050



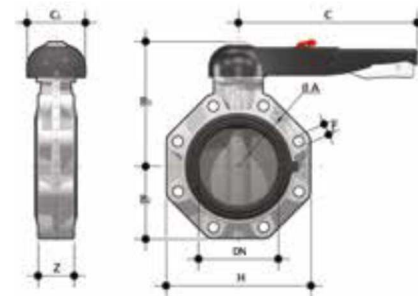
### FKOV/LM LUG ISO-DIN Hand operated Butterfly valve, version Lug ISO-DIN

d	DN	PN	ØA	B <sub>2</sub>	B <sub>3</sub>	C	G	f	H	U	Z	g
75	65	10	145	80	164	175	110	M16	165	4	46	1870
90	80	10	160	93	178	175	100	M16	185	8	49	2670
110	100	10	180	107	192	272	110	M16	211	8	56	3020
140	125	10	210	120	212	330	110	M16	240	8	64	4700
160	150	10	240	134	225	330	110	M20	268	8	70	5450
225	200	10	295	161	272	420	122	M20	323	8	71	8350



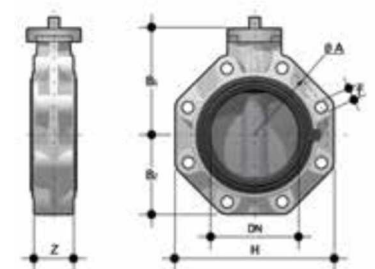
### FKOV/LM LUG ANSI Hand operated Butterfly valve, version Lug ANSI

d	DN	PN	ØA	B <sub>2</sub>	B <sub>3</sub>	C	G	f	H	U	Z	g
2½"	65	10	139.7	119	80	175	110	⅝"	165	4	46	1970
3"	80	10	152.4	133	93	175	100	⅝"	185	8	49	2820
4"	100	10	190.5	147	107	272	110	⅝"	211	8	56	3170
5"	125	10	215.9	167	120	330	110	¾"	240	8	64	4900
6"	150	10	241.3	180	134	330	110	¾"	268	8	70	5700
8"	200	10	298.4	227	161	420	122	¾"	323	8	71	8650



### FKOV/FM LUG ISO-DIN Bare shaft Butterfly valve, version Lug ISO-DIN

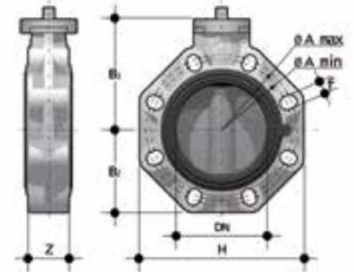
d	DN	PN	ØA	B	B <sub>2</sub>	f	H	U	Z	g
75	65	10	145	119	80	M16	165	4	46	1400
90	80	10	160	133	93	M16	185	8	49	2200
110	100	10	180	147	107	M16	211	8	56	2550
140	125	10	210	167	120	M16	240	8	64	4150
160	150	10	240	180	134	M20	268	8	70	4900
225	200	10	295	227	161	M20	323	8	71	7600





### FKOV/FM Butterfly valve with bare shaft

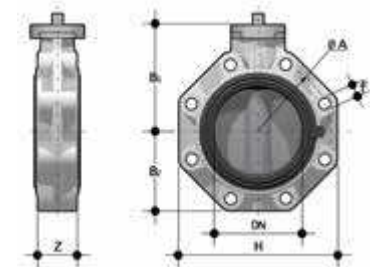
d	DN	PN	A <sub>min</sub>	A <sub>max</sub>	ØA	B	B <sub>2</sub>	f	H	U	Z	g
50	40	16	99	109	-	106	60	19	132	4	33	574
63	50	16	115	125.5	-	112	70	19	147	4	43	754
75	65	10	128	144	-	119	80	19	165	4	46	1000
90	80	10	145	160	-	133	93	19	185	8	49	1400
110	100	10	165	190	-	147	107	19	211	8	56	1750
*125	125	10	204	215	-	167	120	23	240	8	64	2550
140	125	10	204	215	-	167	120	23	240	8	64	2550
160	150	10	230	242	-	180	134	23	268	8	70	3300
**200	200	10	280	298	-	227	161	23	323	8	71	6000
255	200	10	280	298	-	227	161	23	323	8	71	6000
***250	250	10	-	-	350	248	210	22	405	12	114	12000
***280	250	10	-	-	350	248	210	22	405	12	114	12000
***315	300	8	-	-	400	305	245	22	475	12	114	19000
****10"	250	10	-	-	362	248	210	25.4	405	12	114	12000
****12"	300	8	-	-	432	305	245	25.4	475	12	114	19000



\*FKOV d140 with special adaptor stubs d125 - \*\*FKOV d225 with special adaptor stubs d200 - \*\*\*ISO-DIN - \*\*\*\*ANSI B16.5 cl. 150

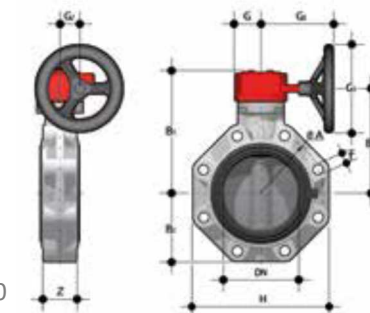
### FKOV/FM LUG ANSI Bare shaft Butterfly valve, version Lug ANSI

d	DN	PN	ØA	B	B <sub>2</sub>	f	H	U	Z	g
2½"	65	10	145	119	80	⅝"	165	4	46	1400
3"	80	10	160	133	93	⅝"	185	8	49	2200
4"	100	10	180	147	107	⅝"	211	8	56	2550
5"	125	10	210	167	120	¾"	240	8	64	4150
6"	150	10	240	180	134	¾"	268	8	70	4900
8"	200	10	295	227	161	¾"	323	8	71	7600
10"	250	6	362	248	210	⅞"	405	12	114	16800
12"	300	6	431.8	305	245	⅞"	475	12	114	23800



### FKOV/RM LUG ISO-DIN Gearbox operated Butterfly valve, version Lug ISO-DIN

d	DN	PN	ØA	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	f	G	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	H	U	Z	g
75	65	10	145	80	174	146	M16	48	135	39	125	165	4	46	2800
90	80	10	160	93	188	160	M16	48	135	39	125	185	8	49	3600
110	100	10	180	107	202	174	M16	48	135	39	125	211	8	56	3950
140	125	10	210	120	222	194	M16	48	144	39	200	240	8	64	6050
160	150	10	240	134	235	207	M20	48	144	39	200	268	8	70	6800
225	200	10	295	161	287	256	M20	65	204	60	200	323	8	71	10900



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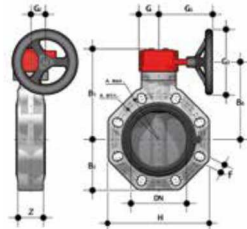
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## G3GFKOV/RM Gearbox operated Butterfly valve

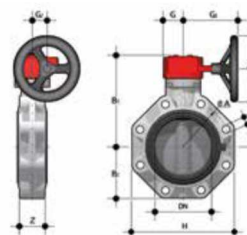
d	DN	PN	A <sub>min</sub>	A <sub>max</sub>	ØA	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	G	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	H	U	Z	g
50	40	16	99	109	-	60	161	133	48	135	39	125	132	4	33	1974
63	40	16	115	125.2	-	70	167	139	48	135	39	125	147	4	43	2154
75	65	10	128	144	-	80	174	146	48	135	39	125	165	4	46	2400
90	80	10	145	160	-	93	188	160	48	135	39	125	185	8	49	2800
110	100	10	165	190	-	107	202	174	48	135	39	125	211	8	56	3150
*125	125	10	204	215	-	120	222	194	48	144	39	200	240	8	64	4450
140	125	10	204	215	-	120	222	194	48	144	39	200	240	8	64	4450
160	150	10	230	242	-	134	235	207	48	144	39	200	268	8	70	5200
**200	200	10	280	298	-	161	287	256	65	204	60	200	323	8	71	9300
255	200	10	280	298	-	161	287	256	65	204	60	200	323	8	71	9300
***250	250	10	-	-	350	210	317	281	88	236	76	250	405	12	114	18600
***280	250	10	-	-	350	210	317	281	88	236	76	250	405	12	114	18600
***315	300	8	-	-	400	245	374	338	88	236	76	250	475	12	114	25600
****10"	250	10	-	-	362	210	317	281	88	236	76	250	405	12	114	18600
****12"	300	8	-	-	432	245	374	338	88	236	76	250	475	12	114	25600



PRODUCT DIMENSIONS

## FKOV/RM LUG ANSI Gearbox operated Butterfly valve, version Lug ANSI

d	DN	PN	ØA	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	f	G	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	H	U	Z	g
2½"	65	10	139.7	80	174	146	⅝"	48	135	39	125	165	4	46	2800
3"	80	10	152.4	93	188	160	⅝"	48	135	39	125	185	8	49	3600
4"	100	10	190.5	107	202	174	⅝"	48	135	39	125	211	8	56	3950
5"	125	10	215.9	120	222	194	¾"	48	144	39	200	240	8	64	6050
6"	150	10	241.3	134	235	207	¾"	48	144	39	200	268	8	70	6800
8"	200	10	298.4	161	287	256	¾"	65	204	60	200	323	8	71	10900
10"	250	6	362	210	317	281	⅞"	88	236	76	250	405	12	114	23400
12"	300	6	431.8	245	374	338	⅞"	88	236	76	250	475	12	114	30400



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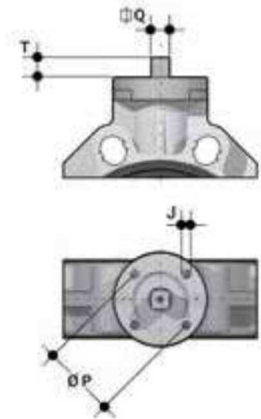




## ACTUATOR MOUNTING FLANGE

Allows the valve can be equipped with standard pneumatic or electric actuators and gearbox

DN	J	P	Ø	T	Q
40	7	50	F05	12	11
50	7	50	F05	12	11
65	7 / 9	50 / 70	F05 / F07	12	11
80	9	70	F07	16	14
100	9	70	F07	16	14
125	9	70	F07	19	17
150	9	70	F07	19	17
200	11	102	F10	24	22
250	11 / 13 / 17	102 / 125 / 140	F10 / F12 / F14	29	27
300	11 / 13 / 17	102 / 125 / 140	F10 / F12 / F14	29	27



PRODUCT ACCESSORIES

## CUSTOMISATION

The FK valve is equipped with the customisable Labelling System.

This system lets you create special labels to insert in the handle. This makes it extremely easy to apply company logos, identification serial numbers or service indications such as, for example, the valve function in the system, the transported fluid, but also specific information for customer service, such as the customer name or installation date or location on the valves.

The specific LCE module is a standard supply and is made up of a rigid transparent water-resistant PVC plug (A-C) and white tag holder (B) made of the same material, one side of which bears the FIP logo (fig. 1).

The tag holder, inserted in the plug, can be removed and, once overturned, used for customisation by applying labels printed with the software supplied with the LSE set. Proceed as follows to apply the label on the valve:

- 1) Remove the upper part of the transparent plug (A) rotating it counter-clockwise as indicated by the word "Open" on the plug and remove it.
- 2) Extract the tag holder from its housing on the lower part of the plug (C)
- 3) Apply the adhesive label on the holder (B) to align the profiles matching the tab position.
- 4) Reinsert the tag holder in its housing at the bottom of the plug
- 5) Reposition the top of the plug in the housing rotating it clockwise; this way the label is protected against the elements.

Fig. 1



Fig. 2



## LSE

Customisation and label printing set for Easyfit handle made up of precut adhesive sheets and software for guided label creation.

DN	Code
40	LSE040
50	LSE040
65	LSE040
80	LSE040
100	LSE040
125	LSE040
150	LSE040
200	LSE040

