Technical sheet Series FL(w)

Technical characteristics

Body type	WAFER / Replaceable seat rubber
Characteristics	Concentric and bidirectional
Production range	DN 25-1200
Design standard	EN 593
Face to Face	EN 558-1 Series 20 ISO 5752 Series 20 DIN 3202 T3 K1 API 609 Category A BS 5155 series 4-5 except DN350
Top flange	ISO 5211
Assembly flanges	PN 10/PN 16/ANSI class 150
Marking	EN 19
Maximum working pressure	16 bar DN 025-150 10 bar DN 200-1200 (16 bar optionally) 25 bar DN 025-0300 special series
Temperature range	-40ºC a 210ºC depends of material
Hydraulic tests	EN 12266 / ISO 5208 Rate A
Remarks	Pressure equipment directive
Options	ATEX (II 2GD) 2014/34/EU Vulcanized seat

General description

FL(w) butterfly valve is the answer to the market request, in accordance with ISO PN 10/16 standard. Supported by modern technology and design facilities, we offer a high quality valve at a very competitive price level. The FL(w) type butterfly valve is specially designed for fire-safe services, shipbuilding industry, water supplies, water treatment, general services, etc. The body is clearly different due to its extended neck that allow pipe isolation and free access to the actuator.

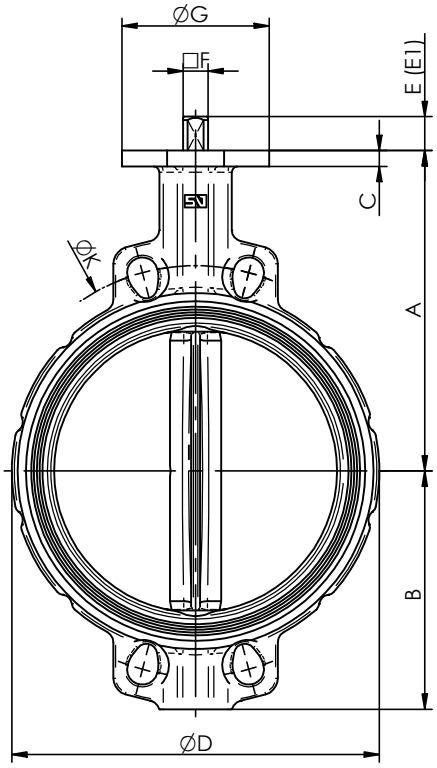
Applications

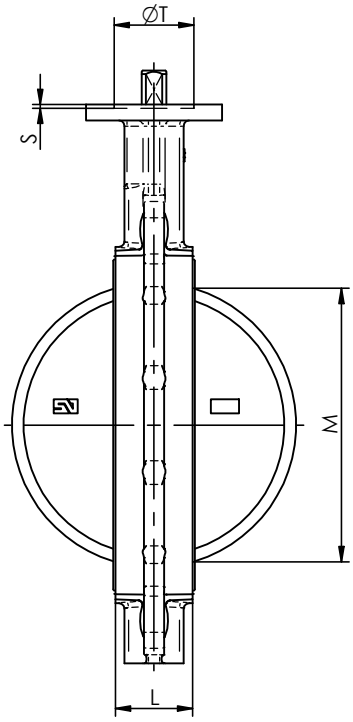
- Water treatment and distribution
- HVAC systems.
- Fire fighting systems.
- General services.
- Irrigation.
- Naval industry.
- Powdery products

Technical sheets and dimensional drawings

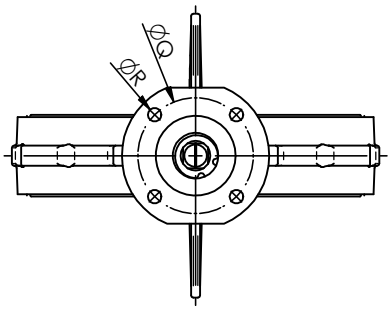
FL(w)-001-DT	General dimensions
FL(w)-002-DT	Dimensions manual actuator
FL(w)-003-DT	Dimensions pneumatic actuator
FL(w)-004-DT	Dimensions electrical actuator Bernard
FL(w)-005-DT	Dimensions electrical actuator AUMA
FL(w)-006-DT	Assembling flanges
FL(w)-007-DT	Assembling screws
FL(w)-0010-DT	Materials detail DN 025-200
FL(w)-0011-DT	Materials detail DN 250-500
FL(w)-0012-DT	Materials detail DN 600-1100
FL(w)-0013-DT	Materials detail DN 1200

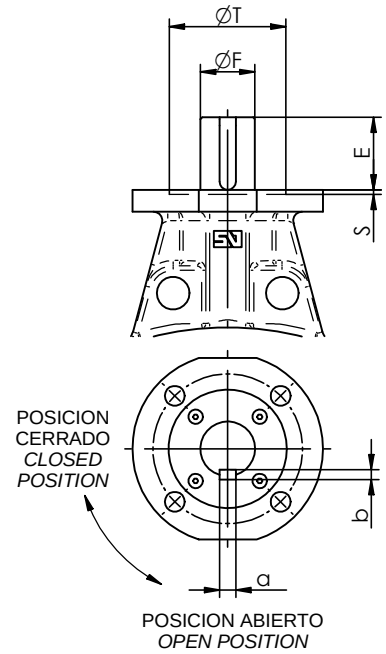
BUTTERFLY VALVE "FL(W)"
GENERAL DIMENSIONS





DN 25/500





DN 600/1200

E1 - EJE CORTO OPCIONAL BAJO PEDIDO
E1 - SHORT SHAFT ON REQUEST

DIMENSIONES GENERALES / *GENERAL DIMENSIONS*																**BRIDA** / *TOP FLANGE*					
DN		**A**	**B**	**C**	**D**	**E**	**E1**	**F**	**G**	**K**			**L**	**M**	**Kg**	**ISO**	**Q**	**R**	**S**	**T**	**a x b**
										PN10	**PN16**	**Cl.150**									
25	**1”**	103	60	8	68	30	16	11	90	85	85	79.4	33	14	1.5	F-07	70	4x9			
32	**1¼”**	103	60	8	68	30	16	11	90	100	100	88.9	33	14	1.5	F-07	70	4x9			
40	**1½”**	110	56	10	76	30	16	11	90	110	110	98.4	33	26	1.6	F-07	70	4x9			
50	**2”**	120	61	10	100	30	16	11	90	125	125	120.6	43	29	2.4	F-07	70	4x9			
65	**2½”**	135	69	10	108	30	16	11	90	145	145	139.7	46	46	2.7	F-07	70	4x9			
80	**3”**	141	94	10	124	30	16	11	90	160	160	152.4	46	65	3.2	F-07	70	4x9			
100	**4”**	165	106	10	147	30	16	11	90	180	180	190.5	52	90	4.0	F-07	70	4x9			
125	**5”**	180	126	12	180	33	18	14	90	210	210	215.9	56	112	6.2	F-07	70	4x9			
150	**6”**	193	133	12	206	33	18	14	90	240	240	241.3	56	139	7.3	F-07	70	4x9			
200	**8”**	225	170	12	257	33	18	17	90	295	295	298.5	60	191	11	F-07	70	4x9			
250	**10”**	283	210	14	324	30	23	22	130	350	355	361.9	68	241	20	F-10	102	4x12	3	70	
300	**12”**	308	240	14	376	30	23	22	130	400	410	431.8	78	290	30	F-10	102	4x12	3	70	
350	**14”**	339	263	16	422	31		22	160	460	470	476.2	78	338	35	F-10	102	4x12	3	70	
400	**16”**	380	308	18	480	31		27	160	515	525	539.7	102	387	56	F-12	125	4x14	4	85	
450	**18”**	381	340	20	536	38		36	190	565	585	577.8	114	434	80	F-14	140	4x18	4	100	
500	**20”**	433	380	20	593	38		36	210	620	650	635.0	127	478	114	F-14	140	4x18	4	100	
600	**24”**	494	440	24	690	80		60	210	725	770	749.3	154	570	171	F-16	165	4x22	5	130	18x11
700	**28”**	560	485	25	780	106		65	300	840	840	863.5	165	660	228	F-25	254	8x18	5	200	18x11
750	**30”**	590	530	25	836	106		80	300	900	900	914.4	190	705	295	F-25	254	8x18	5	200	22x14
800	**32”**	630	565	27	902	106		80	300	950	950	978	190	763	347	F-25	254	8x18	5	200	22x14
900	**36”**	695	610	32	1010	110		80	350	1050	1050	1086	203	866	459	F-25	254	8x18	5	200	22x14
1000	**40”**	770	675	32	1116	110		80	350	1160	1170	1200	216	966	581	F-25	254	8x18	5	200	22x14
1050	**42”**	770	675	32	1148	110		80	350			1257.3	216	1010	658	F-25	254	8x18	5	200	22x14
1100	**44”**	815	733	32	1215	110		80	350	1270	1270	1314.5	216	1054	716	F-25	254	8x18	5	200	22x14
1200	**48”**	875	818	40	1334	110		100	350	1380	1390	1422	254	1153	963	F-30	298	8x23	5	230	28x16

Technical sheet Series LUG(w)

Technical characteristics

Body type	LUG / Replaceable seat rubber
Characteristics	Concentric and bidirectional
Production range	DN 25-1000
Design standard	EN 593
Face to Face	EN 558-1 Series 20 ISO 5752 Series 20 DIN 3202 T3 K1 API 609 Category A BS 5155 series 4-5 except DN350
Top flange	ISO 5211
Assembly flanges	PN 10/PN 16/ANSI class 150
Marking	EN 19
Maximum working pressure	16 bar DN 025-150 10 bar DN 200-1000 (16 bar optionally) 25 bar DN 025-0300 special series
Temperature range	-40ºC a 210ºC depends of material
Hydraulic tests	EN 12266 / ISO 5208 Rate A
Remarks	Pressure equipment directive
Options	ATEX (II 2GD) 2014/34/EU Vulcanized seat

General description

The LUG(w) type valve, is designed for industrial applications, and replaces double flanged valves, especially in small diameters. It offers considerable advantages where dead-end services are needed, such as pump outlets, tanks and ship sides among many. It gives an effective solution to several needs in shipbuilding, water treatment plants, heating, cooling, vacuum systems, gas and many others.

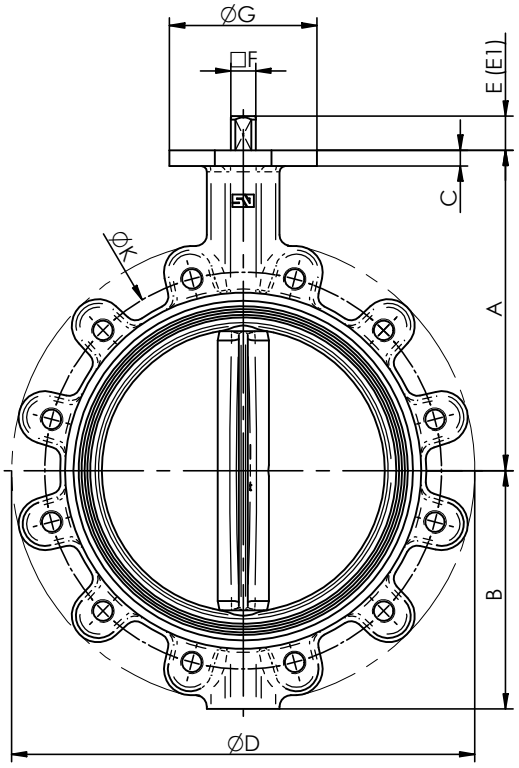
Applications

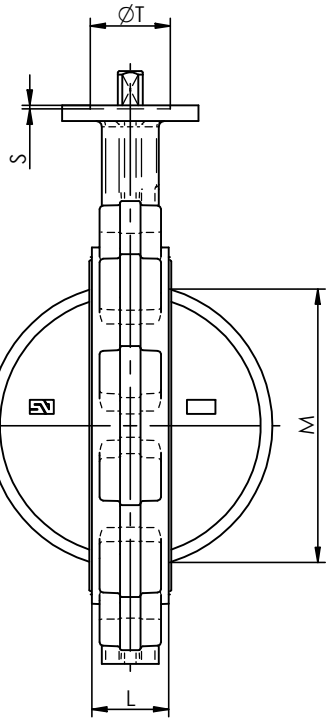
- Water treatment and distribution
- Cooling systems
- Fire fighting systems.
- Heating
- Naval industry.
- Gas distribution.

Technical sheets and dimensional drawings

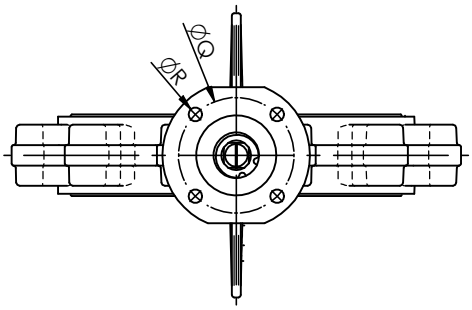
LUG(w)-001-DT	General dimensions
LUG(w)-002-DT	Dimensions manual actuator
LUG(w)-003-DT	Dimensions pneumatic actuator
LUG(w)-004-DT	Dimensions electrical actuator Bernard
LUG(w)-005-DT	Dimensions electrical actuator AUMA
LUG(w)-006-DT	Assembling flanges
LUG(w)-007-DT	Assembling screws
LUG(w)-0010-DT	Materials detail DN 025-200
LUG(w)-0011-DT	Materials detail DN 250-500
LUG(w)-0012-DT	Materials detail DN 600-1000

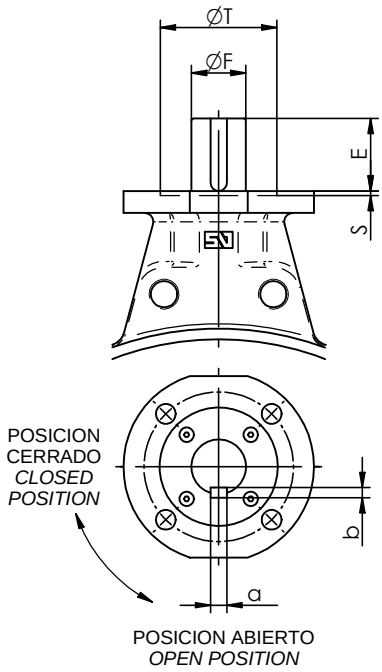
BUTTERFLY VALVE "LUG(W)"
GENERAL DIMENSIONS





DN 25/500





DN 600/1000

E1 - EJE CORTO OPCIONAL BAJO PEDIDO
E1 - SHORT SHAFT ON REQUEST

DIMENSIONES GENERALES / *GENERAL DIMENSIONS*																**BRIDA** / *TOP FLANGE*					
DN		**A**	**B**	**C**	**D**	**E**	**E1**	**F**	**G**	**K**			**L**	**M**	**Kg**	**ISO**	**Q**	**R**	**S**	**T**	**a x b**
										PN10	**PN16**	**Cl.150**									
25	**1”**	103	50	8	130	30	16	11	90	85	85	79.4	33	14	1.9	F-07	70	4x9			
32	**1¼”**	103	50	8	130	30	16	11	90	100	100	88.9	33	14	1.9	F-07	70	4x9			
40	**1½”**	110	54	10	140	30	16	11	90	110	110	98.4	33	26	2.0	F-07	70	4x9			
50	**2”**	120	59	10	156	30	16	11	90	125	125	120.6	43	29	2.9	F-07	70	4x9			
65	**2½”**	135	66	10	175	30	16	11	90	145	145	139.7	46	46	3.3	F-07	70	4x9			
80	**3”**	141	91	10	194	30	16	11	90	160	160		46	65	4.8	F-07	70	4x9			
					185							152.4			3.5						
100	**4”**	165	105	10	224	30	16	11	90	180	180	190.5	52	90	6.3	F-07	70	4x9			
125	**5”**	180	125	12	267	33	18	14	90	210	210	215.9	56	112	9.8	F-07	70	4x9			
150	**6”**	193	136	12	292	33	18	14	90	240	240	241.3	56	139	10.6	F-07	70	4x9			
200	**8”**	225	156	12	334	33	18	17	90	295		298.5	60	191	13.4	F-07	70	4x9			
			171		352						295				17.5						
250	**10”**	283	210	14	409	30	23	22	130	350	355	361.9	68	241	26.4	F-10	102	4x12	3	70	
300	**12”**	308	240	14	480	30	23	22	130	400	410	431.8	78	290	39.6	F-10	102	4x12	3	70	
350	**14”**	339	263	18	522	31		22	160	460	470		78	338	56.1	F-10	102	4x12	3	70	
					522							476.2			56.0						
400	**16”**	380	308	18	595	31		27	160	515	525	539.7	102	387	74.9	F-12	125	4x14	4	85	
450	**18”**	381	340	20	633	38		36	190	565	585		114	434	103	F-14	140	4x18	4	100	
					638							577.8			94.6						
500	**20”**	433	380	20	717	38		36	210	620	650	635.0	127	478	158	F-14	140	4x18	4	100	
600	**24”**	494	440	24	833	80		60	210	725	770	749.3	154	570	220	F-16	165	4x22	5	130	18x11
700	**28”**	560	485	25	904	106		65	300	840	840		165	660	293	F-25	254	8x18	5	200	18x11
					924							863.5			312						
750	**30”**	590	530	25	964	106		80	300	900	900		190	705	373	F-25	254	8x18	5	200	22x14
					979							914.4			392						
800	**32”**	630	565	27	1020	106		80	300	950	950		190	763	432	F-25	254	8x18	5	200	22x14
900	**36”**	695	610	32	1120	110		80	350	1050	1050		203	866	539	F-25	254	8x18	5	200	22x14
1000	**40”**	770	675	32	1246	110		80	350	1160	1170		216	966	690	F-25	254	8x18	5	200	22x14

Technical sheet Series FG(w)

Technical characteristics

Body type	U-FLANGED / Replaceable seat rubber
Characteristics	Concentric and bidirectional
Production range	DN 80-1600
Design standard	EN 593
Face to Face	EN 558-1 Series 20 ISO 5752 Series 20 DIN 3202 T3 K1 API 609 Category A BS 5155 series 4-5 except DN350
Top flange	ISO 5211
Assembly flanges	PN 10/PN 16/ANSI class 150
Marking	EN 19
Maximum working pressure	16 bar DN 080-150 10 bar DN 200-1600 (16 bar optionally) 25 bar DN 080-0300 special series
Temperature range	-40ºC a 210ºC depends of material
Hydraulic tests	EN 12266 / ISO 5208 Rate A
Remarks	Pressure equipment directive
Options	ATEX (II 2GD) 2014/34/EU Vulcanized seat

General description

The FG(w) double flanged type valve is a one-piece body design with flanges to suit all standards (DIN,ANSI, BS, etc.). It also provides dead-end services with downstream piping removed. Its robust design makes it suitable for many applications. It is used in water treatment plants, pump stations, filtration systems, shipbuilding industry and more.

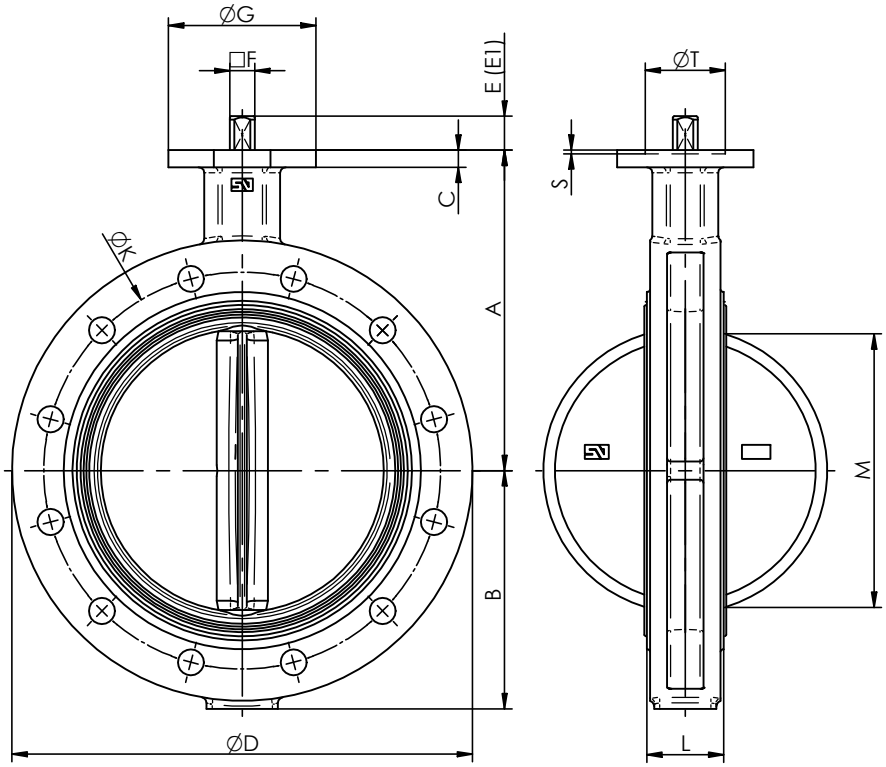
Applications

- Filtration systems
- Water treatment
- Pipelines water distribution
- Cooling systems
- Naval industry

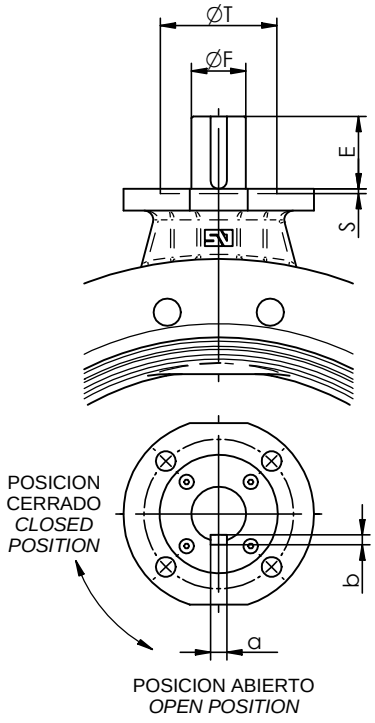
Technical sheets and dimensional drawings

FG(w)-001-DT	General dimensions
FG(w)-002-DT	Dimensions manual actuator
FG(w)-003-DT	Dimensions pneumatic actuator
FG(w)-004-DT	Dimensions electrical actuator Bernard
FG(w)-005-DT	Dimensions electrical actuator AUMA
FG(w)-006-DT	Assembling flanges
FG(w)-007-DT	Assembling screws
FG(w)-0010-DT	Materials detail DN 080-200
FG(w)-0011-DT	Materials detail DN 250-500
FG(w)-0012-DT	Materials detail DN 600-1100
FG(w)-0013-DT	Materials detail DN 1200-1600

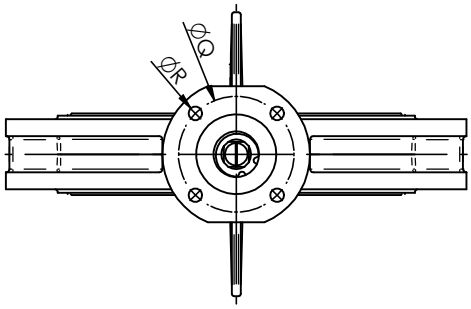
BUTTERFLY VALVE "FG(W)"
GENERAL DIMENSIONS



DN 80/500



DN 600/1600



E1 - EJE CORTO OPCIONAL BAJO PEDIDO
E1 - SHORT SHAFT ON REQUEST

DIMENSIONES GENERALES / *GENERAL DIMENSIONS*																**BRIDA** / *TOP FLANGE*					
DN		**A**	**B**	**C**	**D**	**E**	**E1**	**F**	**G**	**K**			**L**	**M**	**Kg**	**ISO**	**Q**	**R**	**S**	**T**	**a x b**
										PN10	**PN16**	**Cl.150**									
80	**3”**	141	110	10	200	30	16	11	90	160	160	152.4	46	65	5.3	F-07	70	4x9			
100	**4”**	165	115	10	230	30	16	11	90	180	180	190.5	52	90	7.0	F-07	70	4x9			
125	**5”**	180	127	12	255	33	18	14	90	210	210	215.9	56	112	9.5	F-07	70	4x9			
150	**6”**	193	143	12	285	33	18	14	90	240	240	241.3	56	139	11.0	F-07	70	4x9			
200	**8”**	225	173	12	345	33	18	17	90	295	295	298.5	60	191	18.4	F-07	70	4x9			
250	**10”**	283	210	14	406	30	23	22	130	350	355	361.9	68	241	30.8	F-10	102	4x12	3	70	
300	**12”**	308	240	14	480	30	23	22	130	400	410	431.8	78	290	45.3	F-10	102	4x12	3	70	
350	**14”**	339	271	14	535	31		22	160	460	470	476.2	78	338	55.0	F-10	102	4x12	3	70	
400	**16”**	380	308	18	597	31		27	160	515	525	539.7	102	387	80.0	F-12	125	4x14	4	85	
450	**18”**	381	340	20	640	38		36	190	565	585	577.8	114	434	99.9	F-14	140	4x18	4	100	
500	**20”**	433	380	22	700	38		36	210	620	650	635.0	127	478	137	F-14	140	4x18	4	100	
600	**24”**	494	440	24	834	80		60	210	725	770	749.3	154	570	220	F-16	165	4x22	5	130	18x11
700	**28”**	560	485	25	927	106		65	300	840	840	863.5	165	660	282	F-25	254	8x18	5	200	18x11
750	**30”**	590	530	25	995	106		80	300	900	900	914.4	190	705	350	F-25	254	8x18	5	200	22x14
800	**32”**	630	565	29	1060	106		80	300	950	950	978	190	763	398	F-25	254	8x18	5	200	22x14
900	**36”**	695	610	32	1170	110		80	350	1050	1050	1086	203	866	511	F-25	254	8x18	5	200	22x14
1000	**40”**	770	675	32	1290	110		80	350	1160	1170	1200	216	966	686	F-25	254	8x18	5	200	22x14
1050	**42”**	770	675	32	1346	110		80	350			1257.3	216	1010	776	F-25	254	8x18	5	200	22x14
1100	**44”**	815	733	32	1405	110		80	350	1270	1270	1314.5	216	1054	865	F-25	254	8x18	5	200	22x14
1200	**48”**	875	818	40	1485	110		100	350	1380	1390	1422	254	1153	1072	F-30	298	8x23	5	230	28x16
1400	**56”**	1000	969	35	1735	120		120	415	1590	1590	1651	280	1342	1584	F-30	298	8x23	5	230	28x16
1500	**60”**	1075	1050	40	1855	160		130	475	1700	1710	1759	318	1447	2110	F-40	406	8x39	8	300	32x18
1600	**64”**	1115	1090	40	1930	160		130	475	1820	1820		318	1533	2153	F-40	406	8x39	8	300	32x18

Technical sheet Series BBNV(w)

Technical characteristics

Body type	DOUBLE FLANGE / Vulcanized seat
Characteristics	Concentric and bidirectional
Production range	DN 40-1200
Design standard	EN 593
Face to Face	EN 558-1 Series 13 ISO 5752 Series 13 BS 5155 series 2 Short type
Top flange	ISO 5211
Assembly flanges	PN 10/PN 16/ANSI class 150
Marking	EN 19
Maximum working pressure	16 bar DN 040-150 10 bar DN 200-1200 (16 bar optionally)
Temperature range	-40ºC a 210ºC depends of material
Hydraulic tests	EN 12266 / ISO 5208 Rate A
Remarks	Pressure equipment directive
Options	ATEX (II 2GD) 2014/34/EU

General description

The BBNV(w) butterfly valve with the vulcanized seat is used when a flanged valve is required for mounting with bolts on each side of the valve. It is very used for buried services, since it does not require almost maintenance by the type of vulcanized ring to the body. Its design allows to be mounted at the end of the line.

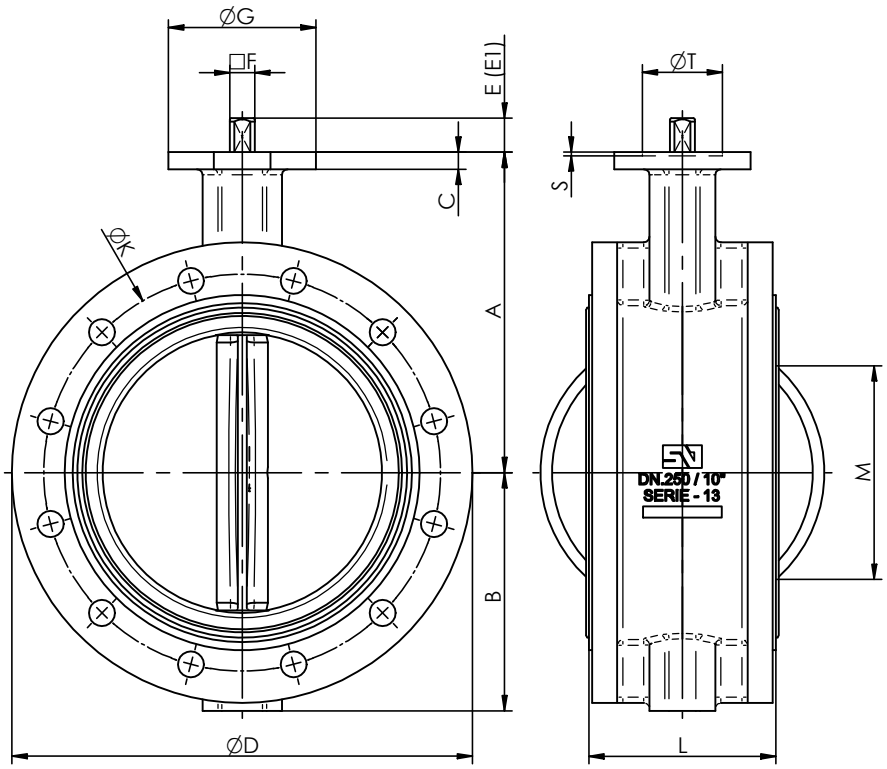
Applications

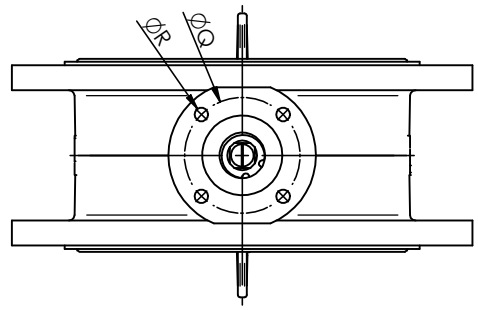
- Naval industry
- Water treatment plants
- Buried valves
- Pipelines water distribution
- Cooling systems

Technical sheets and dimensional drawings

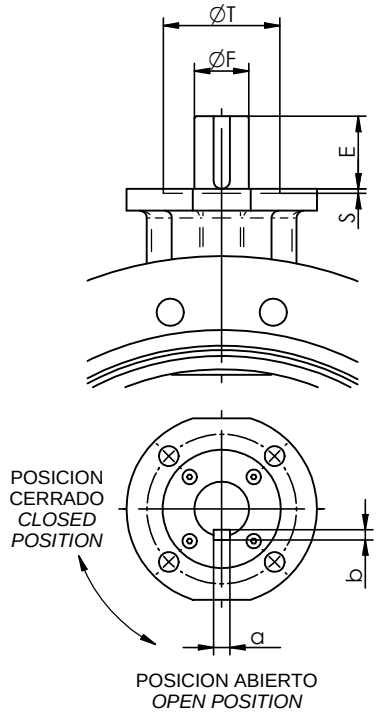
BBNV(w)-001-DT	General dimensions
BBNV(w)-002-DT	Dimensions manual actuator
BBNV(w)-003-DT	Dimensions pneumatic actuator
BBNV(w)-004-DT	Dimensions electrical actuator Bernard
BBNV(w)-005-DT	Dimensions electrical actuator AUMA
BBNV(w)-006-DT	Assembling flanges
BBNV(w)-007-DT	Assembling screws
BBNV(w)-0010-DT	Materials detail DN 040-200
BBNV(w)-0011-DT	Materials detail DN 250-500
BBNV(w)-0012-DT	Materials detail DN 600-1100
BBNV(w)-0013-DT	Materials detail DN 1200

BUTTERFLY VALVE "BBNV(W)"
GENERAL DIMENSIONS





DN 40/500



DN 600/1400

E1 - EJE CORTO OPCIONAL BAJO PEDIDO
E1 - SHORT SHAFT ON REQUEST

DIMENSIONES GENERALES / *GENERAL DIMENSIONS*																**BRIDA** / *TOP FLANGE*					
DN		**A**	**B**	**C**	**D**	**E**	**E1**	**F**	**G**	**K**			**L**	**M**	**Kg**	**ISO**	**Q**	**R**	**S**	**T**	**a x b**
										PN10	**PN16**	**Cl.150**									
40	**1½”**	110	75	10	150	30	16	11	90	110	110	98.5	106	-	5.5	F-07	70	4x9			
50	**2”**	120	82	10	165	30	16	11	90	125	125	120.6	108	-	6.5	F-07	70	4x9			
65	**2½”**	135	92	10	185	30	16	11	90	145	145	139.7	112	-	8.2	F-07	70	4x9			
80	**3”**	141	100	10	200	30	16	11	90	160	160	152.4	114	-	9.5	F-07	70	4x9			
100	**4”**	165	115	10	230	30	16	11	90	180	180	190.5	127	-	12.4	F-07	70	4x9			
125	**5”**	180	127	12	255	33	18	14	90	210	210	215.9	140	-	16.3	F-07	70	4x9			
150	**6”**	193	143	12	285	33	18	14	90	240	240	241.3	140	53	19.9	F-07	70	4x9			
200	**8”**	225	172	12	343	33	18	17	90	295	295	298.5	152	130	29.9	F-07	70	4x9			
250	**10”**	283	210	15	406	30	23	22	130	350	355	361.9	165	188	45.1	F-10	102	4x12	3	70	
300	**12”**	308	240	15	480	30	23	22	130	400	410	431.8	178	241	70.2	F-10	102	4x12	3	70	
350	**14”**	339	271	16	535	31		22	160	460	470	476.2	190	288	85.7	F-10	102	4x12	3	70	
400	**16”**	380	308	18	597	31		27	160	515	525	539.7	216	337	112	F-12	125	4x14	4	85	
450	**18”**	381	340	20	640	38		36	190	565	585	577.8	222	390	143	F-14	140	4x18	4	100	
500	**20”**	433	380	22	715	38		36	210	620	650	635.0	229	438	187	F-14	140	4x18	4	100	
600	**24”**	494	440	24	840	80		60	210	725	770	749.3	267	526	295	F-16	165	4x22	5	130	18x11
700	**28”**	560	485	25	927	106		65	300	840	840	863.5	292	614	384	F-25	254	8x18	5	200	18x11
750	**30”**	590	530	25	995	106		80	300	900	900	914.4	318	657	463	F-25	254	8x18	5	200	22x14
800	**32”**	630	565	29	1060	106		80	300	950	950	978	318	719	523	F-25	254	8x18	5	200	22x14
900	**36”**	695	610	32	1170	110		80	350	1050	1050	1086	330	827	679	F-25	254	8x18	5	200	22x14
1000	**40”**	770	675	32	1290	110		80	350	1160	1170	1200	410	901	905	F-25	254	8x18	5	200	22x14
1100	**44”**	815	733	32	1405	110		80	350	1270	1270	1314.5	410	995	1162	F-25	254	8x18	5	200	22x14
1200	**48”**	875	818	40	1510	110		100	350	1380	1390	1422	470	1083	1479	F-30	298	8x23	5	230	28x16

Technical sheet Series FFNV(w)

Technical characteristics

Body type	DOUBLE FLANGE / Vulcanized seat
Characteristics	Concentric and bidirectional
Production range	DN 400-1000
Design standard	EN 593
Face to Face	EN 558-1 Series 14 ISO 5752 Series 14 BS 5155 series 3 Long type
Top flange	ISO 5211
Assembly flanges	PN 10/PN 16/ANSI class 150
Marking	EN 19
Maximum working pressure	16 bar DN 040-150 10 bar DN 200-1000 (16 bar optionally)
Temperature range	-40ºC a 210ºC depends of material
Hydraulic tests	EN 12266 / ISO 5208 Rate A
Remarks	Pressure equipment directive
Options	ATEX (II 2GD) 2014/34/EU

General description

The FFNV(w) butterfly valve with the vulcanized seat is used when a flanged valve is required for mounting with bolts on each side of the valve. It is very used for buried services, since it does not require almost maintenance by the type of vulcanized ring to the body. Its design allows to be mounted at the end of the line.

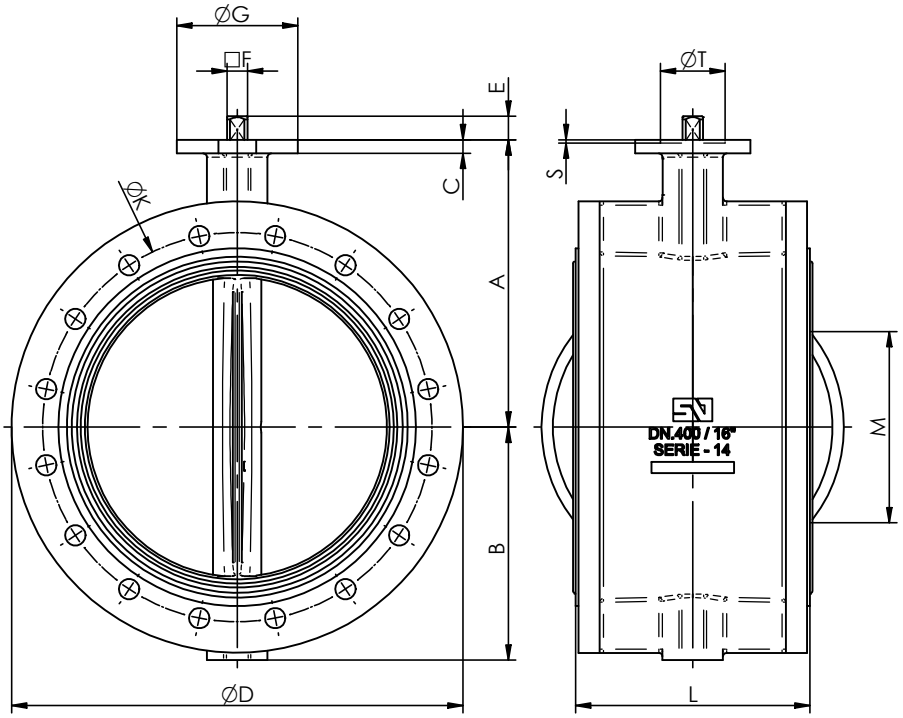
Applications

- Naval industry
- Water treatment plants
- Buried valves
- Pipelines water distribution
- Cooling systems

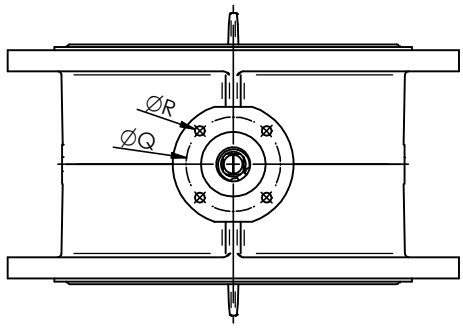
Technical sheets and dimensional drawings

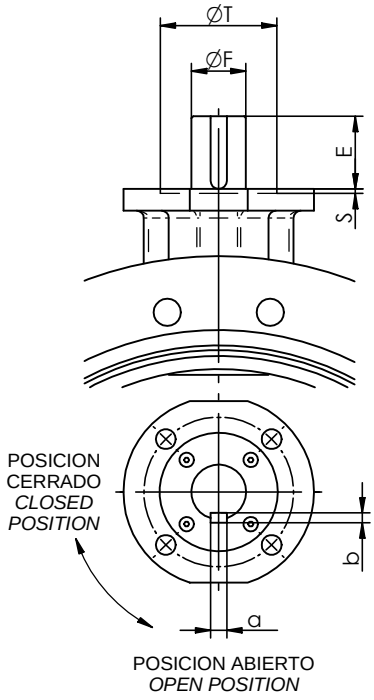
FFNV(w)-001-DT	General dimensions
FFNV(w)-002-DT	Dimensions manual actuator
FFNV(w)-003-DT	Dimensions pneumatic actuator
FFNV(w)-004-DT	Dimensions electrical actuator Bernard
FFNV(w)-005-DT	Dimensions electrical actuator AUMA
FFNV(w)-006-DT	Assembling flanges
FFNV(w)-007-DT	Assembling screws
FFNV(w)-0011-DT	Materials detail DN 400-500
FFNV(w)-0012-DT	Materials detail DN 600-1000

BUTTERFLY VALVE "FFNV(W)"
GENERAL DIMENSIONS



DN 400/500





DN 600/1000

DIMENSIONES GENERALES / *GENERAL DIMENSIONS*															**BRIDA** / *TOP FLANGE*					
DN		**A**	**B**	**C**	**D**	**E**	**F**	**G**	**K**			**L**	**M**	**Kg**	**ISO**	**Q**	**R**	**S**	**T**	**a x b**
									PN10	**PN16**	**Cl.150**									
400	**16”**	380	308	18	597	31	27	160	515	525	539.7	310	253	132	F-12	125	4x14	4	85	
450	**18”**	381	340	20	640	38	36	190	565	585	577.8	330	304	171	F-14	140	4x18	4	100	
500	**20”**	433	380	22	715	38	36	210	620	650	635.0	350	349	225	F-14	140	4x18	4	100	
600	**24”**	494	440	24	840	80	60	210	725	770	749.3	390	443	346	F-16	165	4x22	5	130	18x11
700	**28”**	560	485	25	927	106	65	300	840	840	863.5	430	527	453	F-25	254	8x18	5	200	18x11
750	**30”**	590	530	25	995	106	80	300	900	900	914.4	470	559	545	F-25	254	8x18	5	200	22x14
800	**32”**	630	565	29	1060	106	80	300	950	950	978	470	630	613	F-25	254	8x18	5	200	22x14
900	**36”**	695	610	32	1170	110	80	350	1050	1050	1086	510	729	808	F-25	254	8x18	5	200	22x14
1000	**40”**	770	675	32	1290	110	80	350	1160	1170	1200	550	823	1007	F-25	254	8x18	5	200	22x14

Technical sheet Series KL(w)

Technical characteristics

Body type	WAFER / Replaceable seat rubber / Aluminium body materila
Characteristics	Concentric and bidirectional
Production range	DN 50-600
Design standard	EN 593
Face to Face	EN 558-1 Series 20 ISO 5752 Series 20 DIN 3202 T3 K1 API 609 Category A BS 5155 series 4-5 except DN350
Top flange	ISO 5211
Assembly flanges	PN 6/PN 10/PN 16/ANSI class 150
Marking	EN 19
Maximum working pressure	10 bar DN 050-100 6 bar DN 125-200 3 bar DN 250-600
Temperature range	-40ºC a 210ºC depends of material
Hydraulic tests	EN 12266 / ISO 5208 Rate A
Remarks	Pressure equipment directive
Options	ATEX (II 2GD) 2014/34/EU

General description

The KL type butterfly valve covers all the HVAC field: cold and hot water, air conditioning and more. The valve offers reduced weight and is suitable for the most common drilling norms in the market. This valve has been designed mainly for heating, venti-lation and air conditioning but it is suitable when a light and economically valve is necessary: installations of air and non-corrosive gases, agricultural irrigation, agriculture-food industry and more.

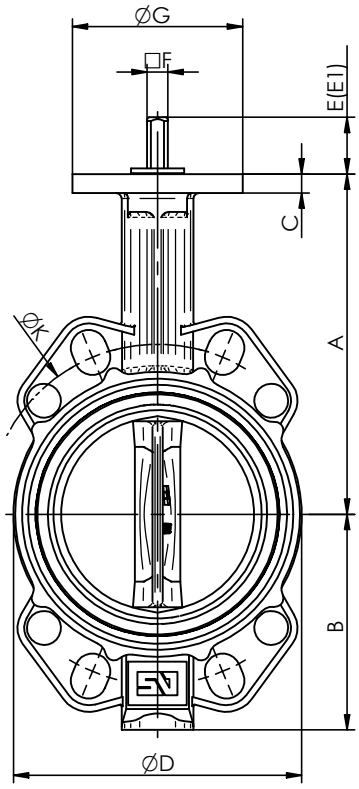
Applications

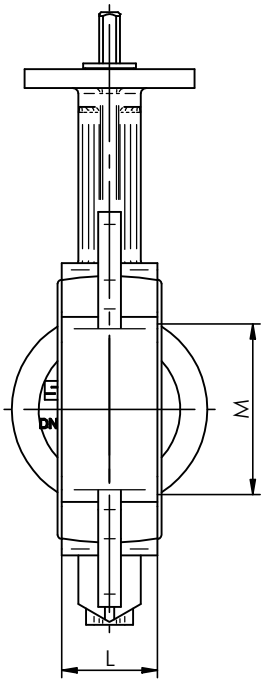
- HVAC systems
- Air and gas installations
- Irrigation
- Food industry
- Pharma industry

Technical sheets and dimensional drawings

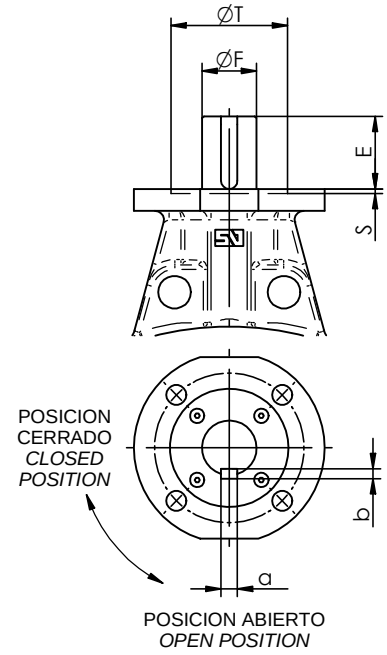
KL-001-DT	General dimensions
KL-002-DT	Dimensions manual actuator
KL-003-DT	Dimensions pneumatic actuator
KL-004-DT	Dimensions electrical actuator Bernard
KL-005-DT	Dimensions electrical actuator AUMA
KL-006-DT	Assembling flanges
KL-007-DT	Assembling screws
KL-0010-DT	Materials detail DN 050-200
KL-0011-DT	Materials detail DN 250-500
KL-0012-DT	Materials detail DN 600

BUTTERFLY VALVE "KL"
GENERAL DIMENSIONS

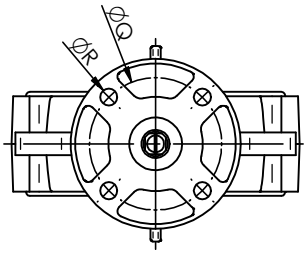




DN 50/500



DN 600



E1 - EJE CORTO OPCIONAL BAJO PEDIDO
E1 - SHORT SHAFT ON REQUEST

DIMENSIONES GENERALES / *GENERAL DIMENSIONS*																**BRIDA** / *TOP FLANGE*					
DN		**A**	**B**	**C**	**D**	**E**	**E1**	**F**	**G**	**K**			**L**	**M**	**Kg**	**ISO**	**Q**	**R**	**S**	**T**	**a x b**
										PN10	**PN16**	**Cl.150**									
50	**2”**	140	80	10	97	30	16	11	90	125	125	120.6	43	29	1.2	F-07	70	4x9			
65	**2½”**	154	91	10	113	30	16	11	90	145	145	139.7	46	46	1.6	F-07	70	4x9			
80	**3”**	160	100	10	128	30	16	11	90	160	160	152.4	46	65	1.9	F-07	70	4x9			
100	**4”**	180	114	10	153	30	16	11	90	180	180	190.5	52	90	2.3	F-07	70	4x9			
125	**5”**	197	130	10	182	33	18	14	90	210	210	215.9	56	112	3.4	F-07	70	4x9			
150	**6”**	211	145	10	207	33	18	14	90	240	240	241.3	56	139	4.2	F-07	70	4x9			
200	**8”**	240	175	10	262	33	18	17	90	295	295	298.5	60	191	7.3	F-07	70	4x9			
250	**10”**	283	210	14	324	30	23	22	130	350	355	361.9	68	241	12.1	F-10	102	4x12	3	70	
300	**12”**	308	240	14	376	30	23	22	130	400	410	431.8	78	290	18.1	F-10	102	4x12	3	70	
350	**14”**	339	263	16	422	31		22	160	460	470	476.2	78	338	23.0	F-10	102	4x12	3	70	
400	**16”**	380	308	18	480	31		27	160	515	525	539.7	102	387	36.1	F-12	125	4x14	4	85	
450	**18”**	381	340	20	536	38		36	190	565	585	577.8	114	434	54.6	F-14	140	4x18	4	100	
500	**20”**	433	380	20	593	38		36	210	620	650	635.0	127	478	72.9	F-14	140	4x18	4	100	
600	**24”**	494	440	24	690	80		60	210	725	770	749.3	154	570	114	F-16	165	4x22	5	130	18x11

KLINGER Portugal

Klinger Portugal, Lda.
Via José Régio, 36
Centro Empresarial Vilar do Pinheiro
4485-860 Vila do Conde
T: +351 22 947 0910
E-mail: geral@klinger.pt

Delegação Lisboa
Rua de Cabo Verde, 8
Prior Velho 2685-316
T: +351 21 940 6620
E-mail: lisboa@klinger.pt