

1150-1183 BUTTERFLY VALVES WITH ACTREG PNEUMATIC ACTUATOR

FEATURES

The 1150-1183 butterfly valves are designed for the automatic opening/closing of a wide variety of very diverse fluid pipes. The valve body is made of GS cast iron. Different configurations of butterfly and sleeve materials allow it to be used in many applications. Wafer type with centering lugs, mounting is done between PN10/16 and ANSI 150 flanges. The ISO 5211 plate allows direct mounting of the actuator. The ACTREG pneumatic actuator, featuring adjustable stops, is available in double-acting and spring-return configurations, with numerous options.



1158/1141 GAZ

LIMITS OF USE

Fluid pressure: PS	16 bar up to DN 300 10 bar up to DN 400
Fluid temperature: TS	See table below
Room temperature	-15°C / +100°C
Compressed air engine	mini 6 bar/maxi 10 bar



AVAILABLE MODELS

DN 32-40 to DN 400.

Connections between PN10/16 and ANSI 150 RF flanges.

Double-acting actuator (ADA) and spring-return actuator (ASR).

Ref.	Disc	Liner	Example of applications	TS min	TS max
1141	GS font	NBR	Natural gas – NF-ROB GAS 5 bar approval	-10°C	+60°C
1147	316 st. steel / GS cast iron	NBR carboxyl	Powdery – abrasives	-10°C	+90°C
1149	316 stainless steel	EPDM heat	Hot water	-10°C	+130°C
1150	GS font	EPDM	Cold water – hot water (110°C peak) - ACS	-10°C	+90°C
1151	316 stainless steel	NBR	Hydrocarbon, natural gas, compressed air	-10°C	+90°C
1152	GS font	NBR	Hydrocarbon, natural gas, compressed air	-10°C	+90°C
1153	316 stainless steel	EPDM	Demineralized water – Alkaline (110°C peak) - ACS	-10°C	+90°C
1154	316 stainless steel	FPM	Compatible aggressive fluids, gasoline	-5°C	+150°C
1156	316 stainless steel	White NBR	Compatible food fluids	-10°C	+80°C
1157	316 stainless steel	SILICONE	Oils and fats	-15°C	+150°C
1158	Copper-alu	NBR	Sea water	-10°C	+80°C
1183	Polished stainless steel	Food silicone.	Food fluids (FDA certified)	-15°C	+150°C

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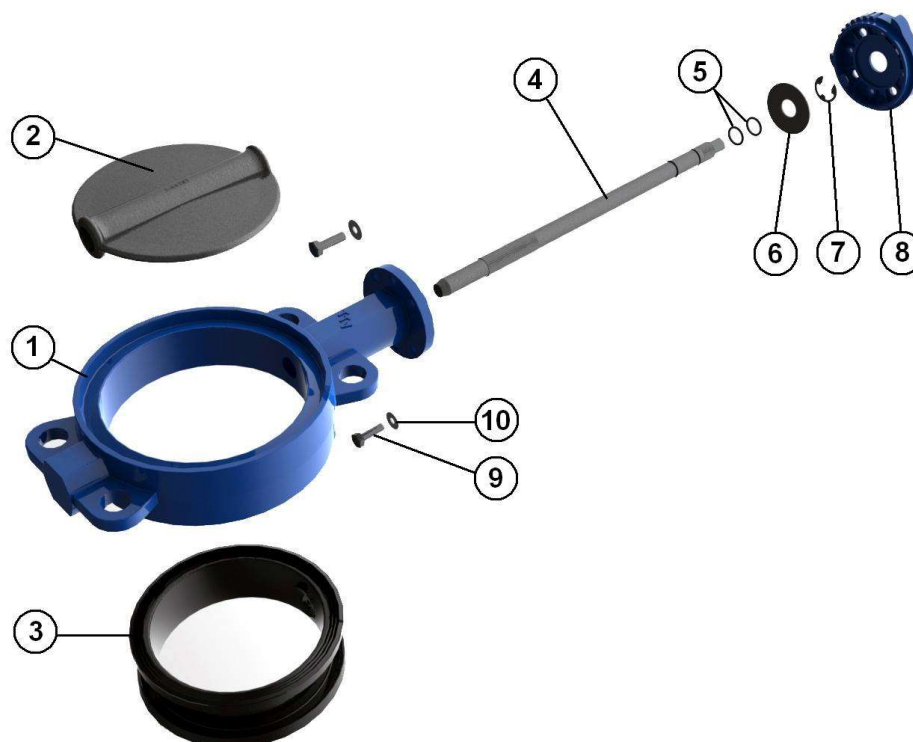
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DIRECTIVES AND MANUFACTURING STANDARDS

OBJECT	Standard	NB	OBJECT	Standard
EC Pressure Directive 2014/68	Cat. III modules B+C1	0409	Final test	ISO 5208
ATEX Directive	II 2G/D Tx zones 1, 2, 21 and 22	0038	Face to face dimension	ISO 5752 series 20
Flange dimensions	EN 1092-1		Actuator pilot connection	NAMUR
Motor connection	ISO 5211		Connection to limit switch box	VDI/VDE 3845
Sanitary conformity	ACS No. 13 ACC LY 404		Pneumatic actuator	EN 12517-3
			SIL 3 level (actuator only)	EN 61508

CONSTRUCTION



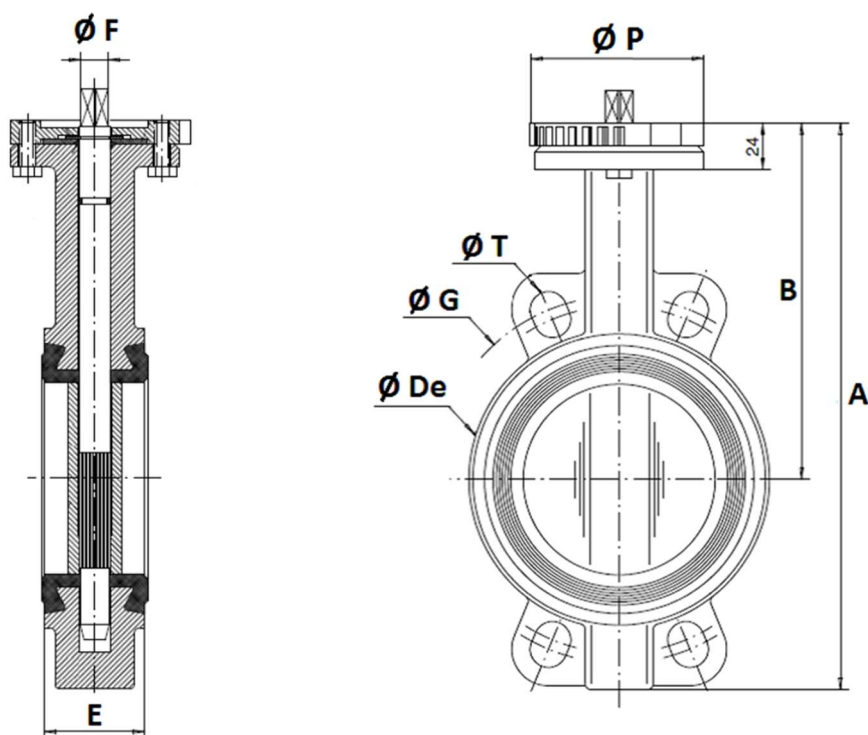
No.	Name	1147	1149	1141	1150	1152	1151	1153	1154	1156	1157	1183	1158
1	Body	GS EN GJS-500-7 cast iron											
2	Disc DN32-100	Stainless steel 1.4408										Mirror-polished st. steel	Copper -alu
3	Disc DN125-400	GS font	St. steel	GS EN GJS-500-7 cast iron			Stainless steel 1.4408					Food grade silicone	NBR
3	Liner	NBR carboxyl	EPDM heat	NBR Gas	EPDM	NBR	NBR	EPDM	FPM	White NBR	Silicone	304 st.steel	304 st.steel
4	stem	304 st.steel	304 st.steel	304 st.steel	420 St. steel	420 St. steel	304 st.steel	304 st.steel	304 st.steel	304 st.steel	304 st.steel	304 st.steel	304 st.steel
5	O-ring	NBR	NBR	NBR	EPDM	NBR	NBR	EPDM	FPM	NBR	EPDM	EPDM	NBR
6	Ring	steel											
7	Circlips	steel											
8	ISO mounting pad	aluminum											
9	Screw	steel 5.6											
10	Washer	steel											

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DIMENSIONS (mm)



DN	32-40	50	65	80	100	125	150	200	250	300	350	400
A	206	228	248	265	298	331	349	430	461	524	570	644
B	140	156	161	169	187	206	215	255	248	280	300	340
Ø De	82	102	119	135	155	185	208	270	328	381	437	486
E	33	43	46	46	52	56	56	60	68	78	78	102
Ø F	9.5	9.5	12.5	14	14	17	17	21	23	26.5	26.5	33
Ø G	110	125	145	160	180	210	240	295	350	400	460	515
Ø P	88	88	88	88	88	105	105	105	150	150	170	170
Ø T	18	18	18	18	18	18	23	23	23	23	23	17
Weight (kg)	2.46	3.66	4.40	4.60	6	7.60	9.20	14.7	24.7	33	39	52

FLOW-RATE COEFFICIENT Kv (m³/h)

DN	32-40	50	65	80	100	125	150	200	250	300	350	400
Kv	70	109	200	334	551	901	1427	2383	3825	5659	8177	10659

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	45 Ruisseau Street	Ref.	FT1150+ADA
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ACTREG PNEUMATIC MOTORIZATION

The ACTREG motorization offered as standard is comprises:

- rack and pinion actuator of anodized aluminium.
- a safety coefficient of 1.3 minimum compared to the nominal torque of the valve.
- air unlubricated dry motor, minimum 6 bar pressure.
- an upstream / downstream pressure difference P=10 bar max.

The actuator assembly is of the following types:

- direct assembly with DN 32 to DN 200 aluminium motorization mounting pad.
- yoke + stainless steel drive according to the EN 15081 standard for DN 250 to DN 400.

DN	Double-acting	V (liters)	Time (s)*	Spring-return	V (liters)	Time (s)*
32-40	ADA 20	0.13	0.1	ASR 40	0.27	0.2
50	ADA 20	0.13	0.1	ASR 40	0.27	0.2
65	ADA 40	0.27	0.1	ASR 80	0.64	0.3
80	ADA 40	0.27	0.1	ASR 80	0.64	0.3
100	ADA 80	0.64	0.3	ASR 130	0.77	0.5
125	ADA 80	0.64	0.3	ASR 200	1.20	0.6
150	ADA 130	0.77	0.5	ASR 300	1.96	0.9
200	ADA 200	1.20	0.6	ASR 500	2.95	1.1
250	ADA 300	1.96	0.9	ASR 500	2.95	1.1
300	ADA 500	2.95	1.1	ASR 850	4.70	2.6
350	ADA 850	4.70	2.6	ASR 1200	6.95	2.8
400	ADA 1750	9.80	3.2	ASR 2500	15.6	4.2

For any other conditions of service, please contact us,

*indicative time of the no-load actuator for opening or closing.

INSTALLATION IN ATEX ZONE

If the 1150+ACTREG automatic valves to be installed in ATEX 1, 2, 21 or 22 zones, this has to be specified when ordering. Our services will check of the assembly, the installation of an earthing braid, and will issue an assembly certificate. Our authorized technicians carry out these operations in the workshop. Please contact us.

The special assembly and maintenance instructions for motorized valves in the ATEX zones must be followed.

ACTUATOR OPTIONS

1	Actuators sized for compressed air pressure 3, 4 or 5 bar
2	Actuators sized for upstream/downstream pressure difference ΔP greater than 10 bar
3	Actuators with special coatings
4	Actuator for very low (-60°C) or very high (+150°C) ambient temperatures
5	Manual control by disengageable reducer
6	Compressed air filter-regulator
7	All types of pilot electro-distributors
8	All types of limit switch boxes
9	All types of positioner
10	Quick exhaust, flow restrictors – exhaust brakes
OPTIONS ON THE VALVE	
1	Body in carbon steel, 304 and 316 stainless steel, bronze and aluminum
2	Butterfly in carbon steel, 304 and 316 stainless steel, copper-alu, uranus, hastelloy
3	Hypalon Liner, silicone steam, white EPDM, natural rubber, neoprene, vulcanized
4	Stems of 420, 304, 316 SS, Hastelloy

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