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# FILTER TECHNOLOGY

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FILTER ACCESSORIES

# EBRO BUTTERFLY VALVES



## PRODUCT INFORMATION

Butterfly valves for front control units as manual, electric or pneumatic version, model Z011-AS (Z011-A, from DN 350) for chlorinated pool water. In aluminium with blue lacquering, with seat in Hypalon, differential pressure 3 bar, control pressure 6 bar for flanges to DIN EN 1092 PN 10, without connecting flanges and screwing material.

ADDITIONAL COSTS FOR VERSIONS RESISTANT TO SEAWATER AND OZONE WATER ON REQUEST.



### BUTTERFLY VALVE, MANUAL OPERATION

DESCRIPTION	Size (DN)	ART. NO.	
Manual, with hand lever	50	1971-100-00	B
Manual, with hand lever	65	1971-101-00	B
Manual, with hand lever	80	1971-102-00	B
Manual, with hand lever	100	1971-103-00	B
Manual, with hand lever	125	1971-104-00	B
Manual, with hand lever	150	1971-105-00	B
Manual, with hand lever	200	1971-106-00	B
Manual, with infinitely variable fine adjustment	250	1971-107-00	B
Manual, with infinitely variable fine adjustment	300	1971-108-00	B
Manual, with infinitely variable fine adjustment	350	1971-109-00	B











### BUTTERFLY VALVE WITH ELECTRIC ACTUATOR

DESCRIPTION	Size (DN)	ART. NO.	
230 V/50 Hz, model E 65	50	1971-110-00	B
230 V/50 Hz, model E 65	65	1971-111-00	B
230 V/50 Hz, model E 65	80	1971-112-00	B
230 V/50 Hz, model E 65	100	1971-113-00	B
230 V/50 Hz, model E 65	125	1971-114-00	B
230 V/50 Hz, model E 65	150	1971-115-00	B
230 V/50 Hz, model E 110	200	1971-116-00	B
230 V/50 Hz, model E 110	250	1971-117-00	B
230 V/50 Hz, model E 110	300	1971-118-00	B


















### BUTTERFLY VALVE WITH PNEUMATIC ACTUATOR

DESCRIPTION	Size (DN)	ART. NO.	
Double acting EB 4	50	1971-120-00	B
Double acting EB 4	65	1971-121-00	B
Double acting EB 5	80	1971-122-00	B
Double acting EB 5	100	1971-123-00	B
Double acting EB 5	125	1971-124-00	B
Double acting EB 6	150	1971-125-00	B
Double acting EB 6	200	1971-126-00	B
Double acting EB 8	250	1971-127-00	B
Double acting EB 8	300	1971-128-00	B
Double acting EB 10	350	1971-129-00	B

## BUTTERFLY VALVE WITH PNEUMATIC ACTUATOR

DESCRIPTION	Size (DN)	ART. NO.	
Spring closing EB 5 / FS	50	 1971-130-00	B
Spring closing EB 5 / FS	65	 1971-131-00	B
Spring closing EB 5 / FS	80	 1971-132-00	B
Spring closing EB 6 / FS	100	 1971-133-00	B
Spring closing EB 6 / FS	125	 1971-134-00	B
Spring closing EB 6 / FS	150	 1971-135-00	B
Spring closing EB 10 / FS	200	 1971-136-00	B
Spring closing EB 10 / FS	250	 1971-137-00	B
Spring closing EB 10 / FS	300	 1971-138-00	B
Spring closing EB 12 / FS	350	 1971-139-00	B

## ACCESSORIES

DESCRIPTION	ART. NO.		
<b>ELECTRIC ROTARY ACTUATOR TYPE ESA FOR EBRO BUTTERFLY VALVES</b>			
	<ul style="list-style-type: none"><li>Type ESA.TCR for EBRO butterfly valves</li><li>AC/DC-95-265V</li><li>Position feedback on/off</li><li>Including 5 m cable with 7-pole connector</li><li>Delay angle: 90°</li><li>Actuating time ~10 seconds</li><li>Casing: ABS</li><li>Protection class IP 67</li><li>Connection materials</li></ul>		
DN 20 bis DN 100 / 20Nm		1971-310-00	B
DN 125		1971-311-00	B
DN 150 bis DN 200 / 80Nm		1971-312-00	B
<b>LONGER CONNECTION CABLE FOR ELECTRIC ACTUATORS ESA-TCR</b>			
<ul style="list-style-type: none"><li>Connector 7-pole with 15m cable</li><li>ESA.SP13-15M-7PIN</li><li>Suitable for ESA.TCx-5,01,02</li></ul>		1971-313-00	B
<b>ELECTRIC ROTARY ACTUATOR TYPE ESA FOR EBRO BUTTERFLY VALVES</b> <b>Version fail-safe with super capacitor</b>			
<ul style="list-style-type: none"><li>Type ESA.TCR for EBRO butterfly valves</li><li>AC/DC-95-265V</li><li>Position feedback on/off</li><li>incl. 5 m cable with connector 7-pole</li><li>Delay angle: 90°</li><li>Actuating time ~10 seconds</li><li>Casing: ABS</li><li>Protection class IP 67</li><li>Connection materials</li></ul>			
DN 20 to DN 65 / 20 NM		1971-320-00	B
DN 80 to DN 125 / 50 NM		1971-321-00	B
DN 150 to DN 200 / 80 NM		1971-322-00	B
<b>ACCESSORIES FOR PNEUMATIC ACTUATORS SINGLE ACTING AND DUAL ACTING</b>			
			
2-way solenoid valve for a pneumatic control of actuators		2590-001-00	B
Dust cover G ¼" male thread for solenoid valve		2580-018-00	B
Connection cable with safety connector 24 V for solenoid valve		2590-010-00	B
Switch box for automatic actuator, IP 65 with 2 micro-switches and terminal block. Not required in case of drive via dinotecNET+		1971-055-00	Z
<b>COMPRESSOR SYSTEM FOR A PNEUMATIC VALVE CONTROL, WITH COMPRESSED AIR RESERVOIR</b>			
			
Piston compressor system P 1 LR <ul style="list-style-type: none"><li>Complete with steam trap and elastic mounting, including high-pressure hose</li><li>Maximum pressure 10 bar volume flow (suction capacity 130 l/min)</li><li>Compressed air tank 18l</li><li>Nominal capacity: 0.65 kW</li></ul>		1971-189-00	Z
Sound-proof hood for piston compressor L 1 PR		1971-193-00	Z
<b>ACCESSORIES FOR COMPRESSOR SBDL 125 WITH COMPRESSED AIR TANK 90</b>			
	2580-101-91	B	
For use with EBRO pneumatic valves			
Consisting of			
<ul style="list-style-type: none"><li>Pneumatic hose PE 8/6 mm blue</li><li>T-piece</li><li>Pneumatics connector with O-ring</li><li>Compressed air filter regulator 1/4"</li></ul>			

## INFORMATION

### PRODUCT

Additional costs for versions resistant to seawater and ozone water on request.

# FILTER ACCESSORIES

# AUTOMATIC BACKWASH VALVES - 5-WAY VALVES



## PRODUCT INFORMATION

Besgo automatic backwash valves made of PVC-U with hydraulic drive system, can be operated with water or air.

These automatic backwash valves are characterised by a high operational safety, they switch over without switching off. Adjustable fittings allow an adaptation to any filter, with minor pressure losses only.

The inner parts of the automatic backwash valves are made of stainless steel (V4A), gaskets are ozone resistant (Viton/PTFE). Further equipment includes a solenoid valve with emergency manual override as well as cemented nozzles, sizes DN 40 to DN 125., that can be attached from outside.



Model	Center line tank connection (mm)	ProFil S, VITALIA/CF Comfort	Senator S	Comfort XL	de Luxe	Public	ART. NO.	
DN 40/d 50 mm	125	500, 610 VITALIA/CF 500S VITALIA/CF 650S	610 (until Q2/ 2019) 510				0960-165-00	D
DN 40/d 50 mm	130						0960-165-01	D
DN 40/d 50 mm	140						0960-165-02	D
DN 40/d 50 mm	145						0960-165-03	D
DN 40/d 50 mm	152						0960-165-04	D
DN 40/d 50 mm	190						0960-165-05	D
DN 40/d 50 mm	230						0960-165-06	D
DN 50/d 63 mm	190	765, 910	610 (from Q2/ 2019) 765, 910	765, 910	610, 765, 910		0960-166-00	D
DN 50/d 63 mm	140						0960-166-01	D
DN 50/d 63 mm	152						0960-166-02	D
DN 50/d 63 mm	170						0960-166-03	D
DN 50/d 63 mm	220	VITALIA/CF 652S, 750S, 900S					0960-166-05	D
DN 50/d 63 mm	230						0960-166-04	D
DN 65/d 75 mm	250*						0960-167-00	D
DN 80/d 90 mm	300*			1080, 1250	1080	610, 765	0960-163-00	D
DN 100/d 110 mm	360*			1400	1400	910	0960-162-00	D
DN 125/d 140 mm	450*			1600		1080, 1250	0960-164-00	D
DN 125/d 140 mm	450*			1600		1080, 1250	0960-164-01	D

## INFORMATION

### PRODUCT

In case of filter tank Comfort XL with nozzle plate, the tank connections must be adapted to the Besgo valve.

All Besgo valves can optionally be operated with water or air pressure. A distinction in this respect is only made for DN 125.

\* Wall mounting

WP = Water pressure

AP = Air pressure

## INFORMATION

### TECHNOLOGY

Operate the Besgo valves with compressed air generated by a whisper compressor.

In this way you are independent of the system pressure in the drinking water pipe and you avoid standing water in the drinking water system.

## FILTER ACCESSORIES

## AUTOMATIC MULTIPORT VALVES

Automatic multiport valves for alternative applications



Model	Number of ways		Application areas	ART. NO.	
DN 40/d 50 mm		4	3-way valve, amongst others for rinsing, as well as gutter shutoff	0960-168-00	D
DN 40/d 50 mm		3		0960-169-00	D
DN 50/d 63 mm		3		0960-170-00	D
DN 65/d 75 mm		3		0960-171-00	D
DN 80/d 90 mm		3		0960-172-00	D
DN 100/d 110 mm		3		0960-173-00	D
DN 125/d 140 mm	WP	3		0960-174-00	D
DN 125/d 140 mm	AP	3	2-way valve, e.g. for gutter shutoff	0960-174-01	D
DN 40/d 50 mm		2		0960-175-00	D
DN 50/d 63 mm		2		0960-176-00	D
DN 65/d 75 mm		2		0960-183-00	D

DESCRIPTION		ART. NO.	
	<b>INSTALLATION KIT FOR CONTROL OF WATER PRESSURE</b>	0960-178-00	D
	Installation kit 3/8" for control of the water pressure, consisting of a pressure gauge 0-10 bar, non-return valve, fine filter and a shut-off valve		
	<b>COMPRESSOR SIL-AIR 30D</b>	1971-171-00	D
	<b>Silent compressor for operation of Besgo valves</b> This compressor requires a supply voltage of 230V. It works with a maximum permissible operating pressure of 8 bar, and has a tank capacity of 4l. Low-noise operation at 40 dB. For use in all systems.		
	<b>COMPRESSOR</b>	1971-232-00	D
	<b>For operation of Besgo valves</b> <ul style="list-style-type: none"> <li>Capacity: 0.5 kW</li> <li>Voltage: 230 V</li> <li>Tank capacity: 6</li> <li>Pressure: 8 bar</li> <li>Oil-free</li> <li>For low-noise operation 57dbA</li> </ul>		
	<b>AUTOMATIC CONDENSATE TRAP WITH PRE-FILTER 1/2"</b>	0960-205-00	B
	<b>Mandatory when operating the Createx compressor.</b> The outlet is used to separate condensate from the air system of your compressor. The outlet is activated by an internal magnetic wheel which periodically opens the relief valve. These intervals can be set via a button on the timer panel. Outlet with test button for testing the set function. <ul style="list-style-type: none"> <li>Voltage supply 230 V</li> <li>Power 0.6 W</li> </ul>		
	<b>ACCESSORIES FOR COMPRESSOR</b>		
	Air connection kit for compressor, consisting of ball valve, connection fitting, distribution and 10 m PE pressure hose		
	Connection kit 1 for 1 Besgo valve	0960-189-00	D
	Connection kit 2 for 2 Besgo valves	0960-190-00	D
	Connection kit 3 for 3 Besgo valves	0960-191-00	D

FILTER ACCESSORIES

STARWAY

MOTORIZED BACKWASH VALVES



PRODUCT INFORMATION

Automatic backwash valves (motorized 5-way valves) 24V.

The Starway backwash valves feature a motor drive with 24V DC. They do not require a compressor or water connection to operate the valve.

A capacitor stores enough energy to close the valve in the event of a power failure.

The 24V DC motor connects directly to the dinoTouch+ or dinotecNET+ ready system, eliminating the need for an additional power supply.



5-WAY BACKWASH VALVE

Model	Center line tank connection (mm)	ProFil S, VITALIA/CF Comfort	Senator S	Comfort XL	de Luxe	Public	ART. NO.	
DN 40/d 50 mm	125	500, 610 VITALIA/CF 500S VITALIA/CF 650S	610 (until Q2/ 2019) 510				0960-130-00	D
DN 50/d 63 mm	190		610 (until Q2/ 2019) 765, 910	765, 910	610, 765, 910		0960-131-00	D

3-WAY VALVE FOR CLEAR RINSE, FINAL RINSE AND GUTTER SHUT-OFF

Type	ART. NO.	
DN 50/d 63 mm	0960-132-00	D

FILTER ACCESSORIES

FILTER BOXES

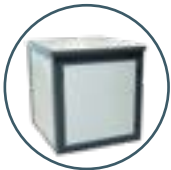
The plant room alternative



PRODUCT INFORMATION

The filter box guarantees convenient handling and easy access to your pool technology, which is protected by a robust construction of sandwich panels - made in Austria.

Filter box S is ideal for smaller pools, while the L and the XL models also offer space for a comprehensive range of accessories.



Filter box S



Filter box open

Type	Dimensions (L x W x H) in m	Weight including pallet (kg)	ART. NO.	
Filter box S	0.99 x 1.00 x 1.03	67	Z00487	D
Filter box L	1.82 x 1.00 x 1.03	111	Z00480	B
Filter box XL	2.12 x 1.00 x 1.16	125	Z00479	B

## FILTER ACCESSORIES

## BALANCE AND SURGE TANK



## PRODUCT INFORMATION

Balance and surge tank for a level control in swimming pools with overflow gutter. Tank in polyethylene (colour: natural) with maintenance port and steel bands for stabilization. Individual flange connections on tank according to your specifications. In case of several tanks, one tank is used as control tank and the others are used as additional tank for splash water.

### Equipment:

Inlet:	DN 125
Safety overflow:	DN 125
Suction line:	DN 80
Tank emptying:	DN 50



Tank nominal volume (t)	Length (mm)	Width (mm)	Height (mm)	Empty weight approx. (kg)	Manhole	ART. NO.	
1500	2000	730	1380	100	Including: ✓	1971-200-10	D
2000	2000	730	1660	125	Including: ✓	1971-201-10	D
2500	2140	870	1660	150	Including: ✓	1971-202-10	D
3000	2390	850	1980	175	Including: ✓	1971-203-10	D
5000	2390	1350	1980	255	Including: ✓	1971-204-10	D

## FILTER ACCESSORIES

## ADDITIONAL TANKS



## PRODUCT INFORMATION

### Equipment:

Tank connection:	DN 125
Tank emptying:	DN 50



Tank nominal volume (t)	Length (mm)	Width (mm)	Height (mm)	Empty weight approx. (kg)	Manhole	ART. NO.	
1500	2000	730	1380	100	Including: ✓	1971-200-20	D
2000	2000	730	1660	125	Including: ✓	1971-201-20	D
2500	2140	870	1660	150	Including: ✓	1971-202-20	D
3000	2390	850	1980	175	Including: ✓	1971-203-20	D
5000	2390	1350	1980	255	Including: ✓	1971-204-20	D

