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www.baldr.com.cn

INTRODUCTION

Founded in October 2012, Baldr specializes in the R&D, design, manufacturing and global sales of irrigation water treatment products and irrigation smart control products.

With a powerful R&D team composed of more than 40 superior engineers, serving for different parts including the software, electronic hardware, mechanical structure and industrial appearance design etc. Baldr focuses on the research of disc water filtration technology, valve control technology, environmental monitoring technology and auto control technology, then applies all to agricultural irrigation, municipal & landscape irrigation and garden irrigation products.

Over the years, Baldr has continued to invest in the research of cloud platform Internet of Things, which represents the future technology and applies it to irrigation products.

Until now, we have obtained hundreds of patents like industrial design, utility model, technology invention and software copyright.

THREE MAIN SERIES OF PRODUCTS:

- 1. Agricultural irrigation filters, auto backflushing filtration systems, pipe control valves and other products;
- 2. Home& Garden timers, pump timers, monitoring sensors, drip irrigation kits and other products;
- 3. Landscape control valves, smart control systems and other series products; Every product has the safety certificates for European and American countries such as CE, GS, R&TTE, FCC, ROHS, REACH, UL and ETL.







In accordance with the high standards of production and manufacturing requirements, Baldr had built a 24,000m² production and manufacturing base, which consists of mold & injection department, stamping and sheet metal department, SMT Patch binding department, silk screen printing workshop and finished products assembly workshop. It has the capacity of 600,000 annual output of different filters, auto back-flush filtration systems, control valves and smart controllers. And we have obtained ISO 9001:2000 quality management system & BSCI certification.

At Baldr, we devote ourselves to the development and manufacture of environmental water-saving smart control products with the strength of technological innovation, so that people can be more harmonious with the environment, and people can enjoy a better, more convenient and smarter life. This is also our mission that Baldr has always adhered to it since its establishment.

Baldr will adhere to the business philosophy of "INNOVATION AND DEVELORMENT, CUSTOMER ORIENTATION, SPEED AND PASSION, CREDIBILITY AND INTEGRITY", with "technological innovation" as its core competitiveness. We aim to build Baldr into a leading international enterprise focusing on water-saving and environmental protection smart control products.

AGRICULTURE IRRIGATION

Provide innovative filtration solutions to solve the water challenges posed across numerous applications for irrigation needs.

LANDSCAPE IRRIGATION

Provide water recycling for urban public parks, residential garden with cost efficient & energy saving solutions.

GOLF COURSE IRRIGATION

Provide clean water service and protection for the irrigation equipment(sprayers, drip irrigation pipes and mist sprayers etc).

WATER FILTRATION FOR INDUSTRY

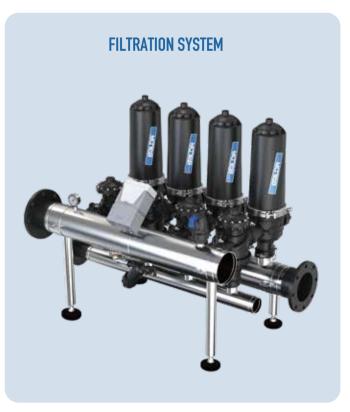
Meet various requirements for lower energy consumption and saving water in industrial demands.

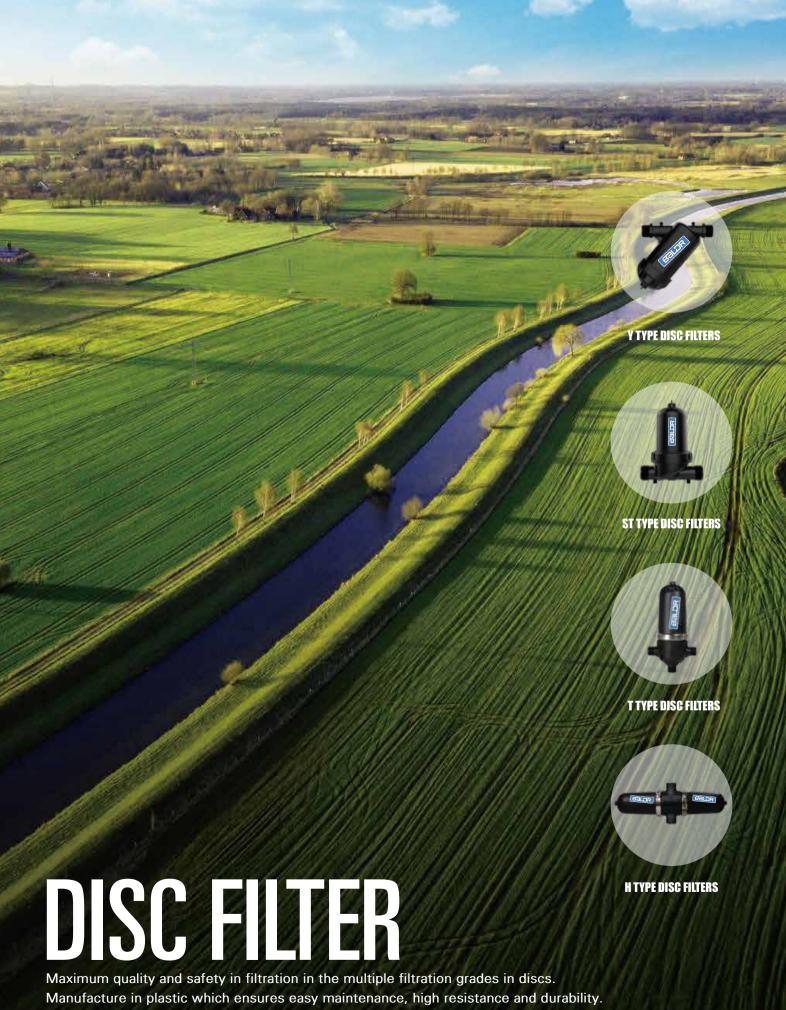
THE PRODUCT RANGE FOR WATER FILTRATION ARE AS BELOW

Baldr provides unique and comprehensive water filtration solutions to any agricultural and industrial application. There are a wide range of filters coming out of different filtering elements and materials. Furthermore, Baldr's water filters are in accuracy levels and different flow rates. Meanwhile, automatic backwash filtration technology achieves simultaneous and continuous filtered water supply while discharging.









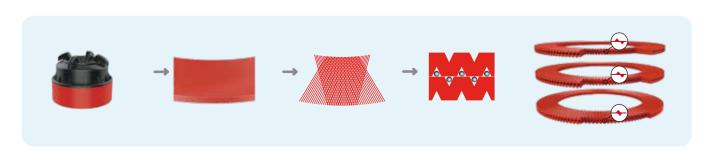
Interchangeable filter elements for a wide range of flow rates.

With excellent technology, BALDR's disc filters focus on multiple filtration grades, high efficiency and large volume filtration advantage. Additionally, we provide various filters with different pipe sizes and flow rates & grades (20~400 micron) to satisfy different application needs. They are simple cleaning with the well-designed structure. Nowadays, BALDR disc filters are widely used in agrilculture irrigation, landscape irrigation and industrial applications etc.



THE UNIQUE DISC TECHNOLOGY

BALDR chooses colorful & thin polypropylene discs with multiple filtration grades. The discs are diagonally grooved on both sides in opposite directions. A series of discs are stacked and compressed, locking on a specially designed filter spine. The opposite directed grooves between any adjacent discs will be pressed together, and create many crossing small spaces, formed as a series of unique filtration pass to contain impurities. In the filtration process, the force of the spring along with the differential pressure firmly compresses these discs together and through multiple crossing spaces, it can provide distinctive in-depth filtration.



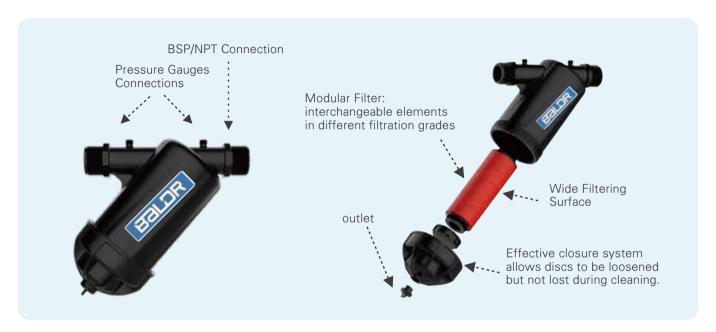
Y TYPE DISC FILTERS

With excellent technology, BALDR's disc filters focus on multiple filtration grades, high efficiency and water saving advantage. They are simple cleaning with the well-designed structure.



TYPICAL APPLICATION

Y type disc filters are applicable to low flow rate water filtering for agriculture irrigation and landscape irrigation. With built-in pressure pipeline, Y type disc filter can efficiently filter out particles.

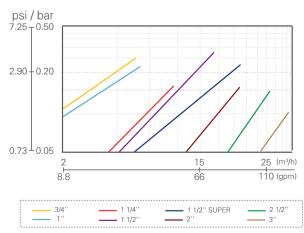


FEATURE & ADVANTAGE

- Sompact structure available in narrow space;
- Gasket set in the lid;
- Innovative grooved discs design retains large amounts of solids;
- Threaded closure system, easy and safe; Low pressure loss;
- Resistant to chemical products;
- Easy installation, easy maintenance;
- Equipped with auxiliary connections;
- Preset 2 ports for connecting pressure gauge.

HEAD LOSS

Y TYPE FILTER HEAD LOSS(130 micron/ 120 mesh)



Note: The flow rate will fluctuate with different water quality.

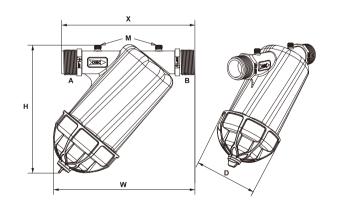
MODEL & SPECIFICATION



MODEL	CONNECTIONS BSP/NPT	FILTRATION GRADES (mesh)	MAX (m³/h)	FLOW (gpm)	FILTERING (cm²)	SURFACE (in²)	WEIGHTS (kg)
BDF020Y	DN20 3/4"	120	5	22	195	30	0.39
BDF025Y	DN25 1"	120	6	26	195	30	0.39
BDF032Y	DN32 1-1/4"	40/75/120/150	10	44	300	47	0.96
BDF040Y	DN40 1-1/2"	40/75/120/150	14	62	300	47	0.96
BDF040YS	DN40 1-1/2"	40/75/120/150	20	88	525	82	0.99
BDF050Y	DN50 2"	40/75/120/150	25	110	525	82	1.36
BDF065Y	DN65 2-1/2"	75/120	30	132	600	93	2.60
BDF080Y	DN80 3"	75/120	35	154	600	93	2.70

DIMENSION

MODEL	H (mm) (in)	W (mm) (in)	D (mm) (in)
BDF020Y	173 6.8	186 7.3	83 3.3
BDF025Y	173 6.8	186 7.3	83 3.3
BDF032Y	230 9.0	250 9.8	120 4.7
BDF040Y	230 9.0	250 9.8	120 4.7
BDF040YS	260 10.2	290 11.4	140 5.5
BDF050Y	260 10.2	290 11.4	140 5.5
BDF065Y	330 13.0	360 14.1	168 6.6
BDF080Y	330 13.0	360 14.1	168 6.6



MATERIAL

HOUSING	FILTERING ELEMENTS
Reinforced Polypropylene	PP Grooved Discs

Maximum Pressure 8 Bar / 116 Psi Maximum Temperature 60 $^{\circ}$ C / 140 $^{\circ}$ F

Available In BSP & NPT Connection



ST TYPE DISC FILTERS

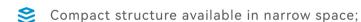
With excellent technology, BALDR's ST type disc filters focus on multiple filtration grades, high efficiency and water saving advantage. They are simple cleaning with the well-designed structure, which offers a good quality filter for low flow filtration.



TYPICAL APPLICATION

ST type disc filters are applicable to low flow rate water filtering for agriculture irrigation and landscape irrigation. With built-in pressure pipeline, ST type disc filter can efficiently filter out particles.

FEATURE & ADVANTAGE









- Innovative grooved discs design retains large amounts of solids;
- Equipped with auxiliary connections;
- Threaded closure system, easy and safe; Low pressure loss;
- Preset 2 ports for connecting pressure gauge.



MODEL & SPECIFICATION







BDF032ST

BDF040ST

BDF050ST

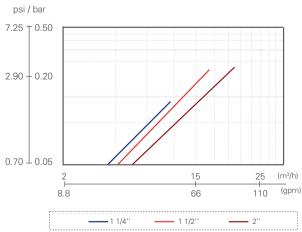
MODEL	CONNECTIONS BSP/NPT	FILTRATION (mesh)	MAX F (m³/h)	LOW (gpm)	FILTERING (cm²)	SURFACE (in²)	WEIGHTS (kg)
BDF032ST	DN32 1-1/4"	40/75/120/150	10	44	300	47	1.01
BDF040ST	DN40 1-1/2"	40/75/120/150	14	62	300	47	1.01
BDF050ST	DN50 2"	40/75/120/150	20	88	300	47	1.03

DIMENSION

MODEL	H (mm) (in)	X (mm) (in)	D (mm) (in)
BDF032ST	280 11	205 8.1	139 5.5
BDF040ST	280 11	205 8.1	139 5.5
BDF050ST	280 11	205 8.1	139 5.5

HEAD LOSS

ST TYPE FILTER HEAD LOSS(130 micron/ 120mesh)



Note: The flow rate will fluctuate with different water quality.

MATERIAL

HOUSING	FILTERING ELEMENTS
Reinforced Polypropylene	PP Grooved Disce

Maximum Pressure 8 Bar / 116 Psi Maximum Temperature 60 °C / 140 °F

Available In BSP & NPT Connection

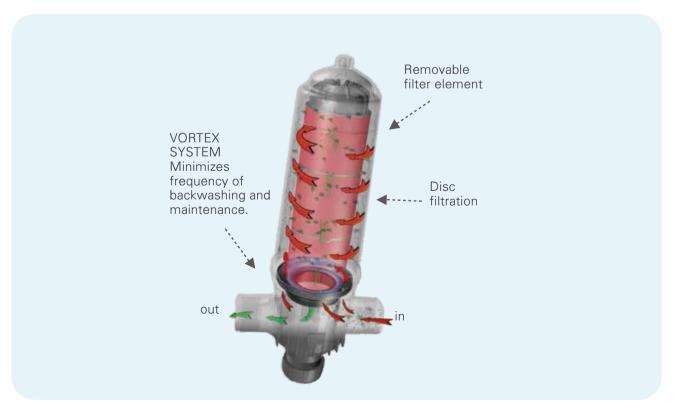
T TYPE DISC FILTERS

With excellent technology, BALDR's T type disc filters focus on multiple filtration grades, high efficiency and water saving advantage. They are simple cleaning with the well-designed structure, which offers a quality filter for medium flow filtration. The T type design especially suit for the medium flow filtration.



TYPICAL APPLICATION

T type disc filters are applicable to medium flow rate water filtering for agriculture irrigation and landscape irrigation. With built-in pressure pipeline, T type disc filter can efficiently filter out particles.



FEATURE & ADVANTAGE

- Tullfilment of any filtration needs;
- Maximum quality and safety in filtration;
- Resistant to chemical products and durable;
- Multiple filtration grades;
- Easy installation, handling and maintenance;
- ✓ Water and energy saving;
- 3 mouth housing with different connection possibilities;
- (7) BSP, NPT or grooved connection. The filter can be installed in any position.

SPECIFICATION & MODEL

MODEL	CONNECTIONS BSP/NPT/GRV	MAX FLOW (m³/h) (gpm)	FILTERING SURFACE (cm²) (in²)	WEIGHTS (kg)
BDF050TB	DN50 2"	30 132	1200 187	6.29
BDF050TSB	DN50 2"	30 132	1700 266	7.79
BDF080TCB	DN80 3"	50 220	1200 187	6.90
BDF080TB	DN80 3"	50 220	1700 266	8.54







BDF050TSB



BDF080TB

STANDARD FILTRATION GRADES

400 micron (40 mesh)

200 micron (75 mesh)

130 micron (120 mesh)

micron (150 mesh)

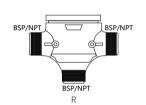
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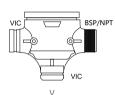
micron (300 mesh) 20 micron (750 mesh)

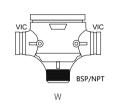
DIMENSION

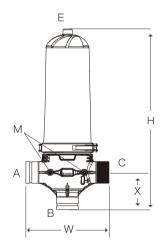
MODEL	H (mm) (in)	W (mm) (in)	X (mm) (in)	D (mm) (in)
BDF050TB	620 24.4	320 12.6	140 5.5	220 8.7
BDF050TSB	740 29.1	320 12.6	140 5.5	220 8.7
BDF080TCB	630 24.8	340 13.4	153 6.0	220 8.7
BDF080TB	740 29.1	340 13.4	153 6.0	220 8.7

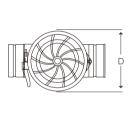
CONNECTIONS











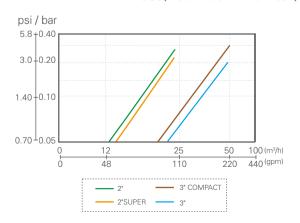
MATERIAL

HOUSING	Reinforced Polypropylene
FILTERING ELEMENTS	PP Grooved Discs
CLAMP	Stainless Steel
SEALING ELEMENT	NBR

Maximum Pressure 10 Bar / 145 Psi Maximum Temperature 60 °C / 140 °F

HEAD LOSS

T TYPE FILTER HEAD LOSS(130 micron / 120 mesh)



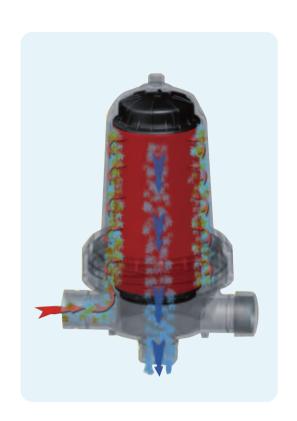
Note: The flow rate will fluctuate with different water quality.

PT FILTER

PT Filter is the range of manual filters manufactured in technical plastic. It is resistant to most of the products normally used in agriculture. The hydraulic design of the filter minimizes the head loss, saving energy and optimizing its performance.

TECHNOLOGY

During the filtration process, the water flows inside the filtration discs where the particles are retained. Thanks to its simple and safe structure, the maintenance labours are dramatically reduced. It is unnecessary to use tools for the maintenance of the filter. The optimized lock system of the thread makes the filter very resistant to the sharp changes of pressure and temperature, avoiding deformations in the set housing-thread.



MODEL & SPECIFICATION







BDF050PTS





micron (40 mesh)



micron (120 mesh)

micron (150 mesh)

micron (300 mesh)

micron (750 mesh)

BDF080PT

BDF080PTS

MODEL	CONNECTIONS BSP	MAX FLOW (m³/h) (gpm)	FILTERING SURFACE (cm²) (in²)	WEIGHTS (kg)
BDF050PT	DN50 2"	30 132	1050 163	4.20
BDF050PTS	DN50 2"	30 132	1660 259	5.40
BDF080PT	DN80 3"	50 220	1050 163	4.60
BDF080PTS	DN80 3"	50 220	1660 259	5.90



FEATURES & ADVANTAGES

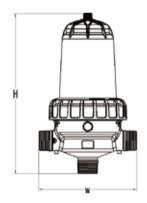
- Maximum quality and safety in filtration.
- Easy installation, handling and maintenance.
- Resistant to chemical products and durable;
- Water and energy saving.

3 mouth housing with different connection
possibilities.

- BSP connection; the filter can be installed in any position.
- Threaded tightening nut.

DIMENSION

MODEL	H (mm) (in)	W (mm) (in)	D (mm) (in)
BDF050PT	480 18.9	292 11.5	233 9.2
BDF050PTS	630 24.8	292 11.5	233 9.2
BDF080PT	528 20.8	355 14	233 9.2
BDF080PTS	678 26.7	355 14	233 9.2



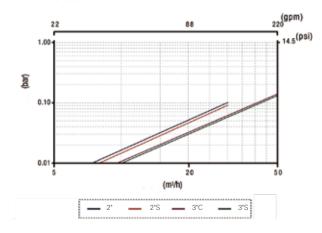


MATERIAL

HOUSING	Reinforced Polypropylene				
FILTERING ELEMENTS	PP Grooved Discs				
CLAMP	Plastic				
SEALING ELEMENT	NBR				

Maximum Pressure 10 Bar / 145 Psi Maximum Temperature 60 °C / 140 °F

HEAD LOSS



Note: The flow rate will fluctuate with different water quality.

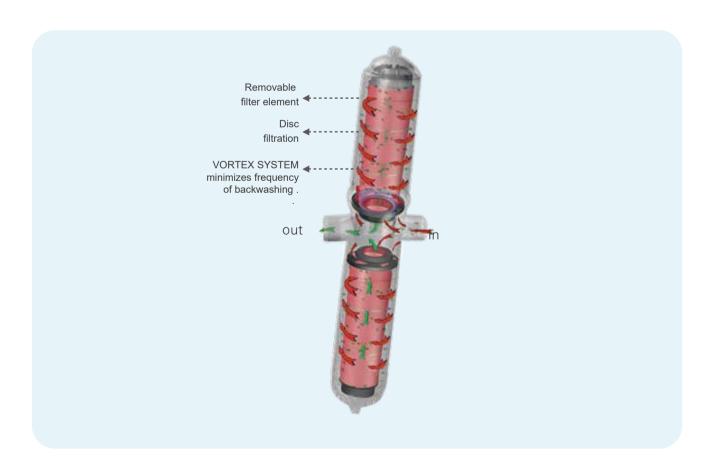
H TYPE DISC FILTERS

With excellent technology, BALDR's H type disc filters focus on multiple filtration grades, high efficiency and large volume filtration advantage. They are simple cleaning with the well-designed structure. The filter design of double-bucket H type is especially fit for the high flow filtration.



TYPICAL APPLICATION

H type disc filters are applicable to large flow rate water filtering for agriculture irrigation and landscape irrigation. With built-in pressure pipeline, H type disc filter can efficiently filter out particles.



FEATURE & ADVANTAGE

- Tullfilment of any filtration needs;
- Maximum quality and safety in filtration;
- Resistant to chemical products and durable;
- Multiple filtration grades;
- 🕹 Easy installation, handling and maintenance.
- Water and energy saving.
- Modularity: possible of changing the filtering element model at any moment.

SPECIFICATION & MODEL

MODEL	CONNECTIONS BSP/GRV	MAX F (m³/h)	FLOW (gpm)	FILTERING (cm²)	SURFACE (in²)	WEIGHTS (kg)
BDF080HB	DN80 3"	60	264	2400	373	10.95
BDF080HSB	DN80 3"	60	264	3400	527	11.50
BDF100HB	DN100 4"	70	308	2400	373	11.19
BDF100HSB	DN100 4"	100	440	3400	527	12.24



STANDARD FILTRATION GRADES

400 micron (40 mesh)

200 micron (75 mesh)

130 micron (120 mesh)

micron (150 mesh)

<u>50</u>

micron (300 mesh)

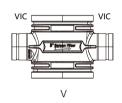
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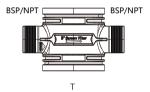
micron (750 mesh)

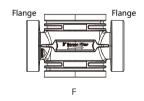
DIMENSION

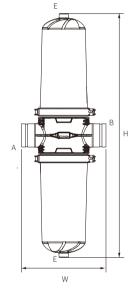
MODEL	H (mm) (in)	W (mm) (in)	D (mm) (in)
BDF080HB	940 37	340 13	220 8.7
BDF080HSB	1220 48	340 13	220 8.7
BDF100HB	960 38	340 13	220 8.7
BDF100HSB	1220 48	340 13	220 8.7

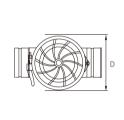
CONNECTIONS





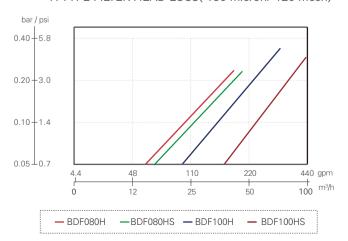






HEAD LOSS

H TYPE FILTER HEAD LOSS(130 micron/ 120 mesh)



Note: The flow rate will fluctuate with different water quality.

MATERIAL

HOUSING	Reinforced Polypropylene
FILTERING ELEMENTS	PP Grooved Discs
CLAMP	Stainless Steel
SEALING ELEMENT	NBR

Maximum Pressure 10 Bar / 145 Psi Maximum Temperature 60 °C / 140 °F

AUTO DISC FILTERS

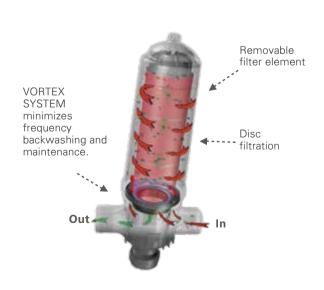
Baldr automatic disc filter is adapted to lowpressure working conditions, reducing the pressure and water consumed in backwashing. It well meets various market demands of different flow volume by providing T-type or H-type models. Going with 2", 3" or 4" hydraulic backwash valve as well as built-in computer chip for automatic scheduling work, it works as an automatic unattended water filtration system, which ensures continuous water supply while discharging the sewage.

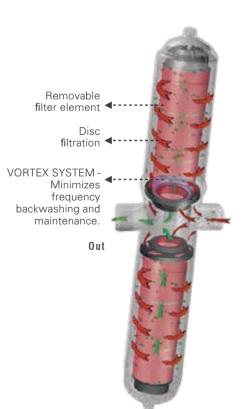


FEATURE & ADVANTAGE

- 🐰 Manufactured in Polyamide, resistance to chemical products, wear-resistant;
- Maximum reliability and efficiency in filtration;
- ✓ Easy operation and low maintenance costs;
- Compatible with different control units;
- Efficient water saving in auto backwashing with minimum pressure 1.5 bar and flow rate 2.5 L/s minimum.

VORTEX DISC FILTRATION TECHNOLOGY





With the unique disc and vortex structure design, the filter will generate centrifuge spiral flow of water, which moves away the solid particles in the water. The solid particles will be collected to the top of disc element with rotational flow. The vortex disc filter system ensure high efficient filtering and water-saving for the low frequency of backwashing.

SPECIFICATION & MODEL

MODEL	CONNECTIONS BSP/NPT/GRV	MAX FLOW (m³/h) (gpm)	BACKWASH PRESSURE (bar)	FILTERING SURFACE (cm²) (in²)	WEIGHTS (kg)
BAF050TB	DN50 2"	25 110	1.5	1020 158	7.6
BAF050TSB	DN50 2"	30 132	1.5	1492 231	9.4
BAF080TB	DN80 3"	32 148	1.5	1492 231	9.6
BAF080HB	DN80 3"	50 220	1.5	2040 316	12.5
BAF100HB	DN100 4"	55 242	1.5	2040 316	12.9
BAF100HSB	DN100 4"	64 297	1.5	2984 462	16.1



BAF050TB



BAF080HB/BAF100HB/BAF100HSB



BAF050TSB/BAF080TB







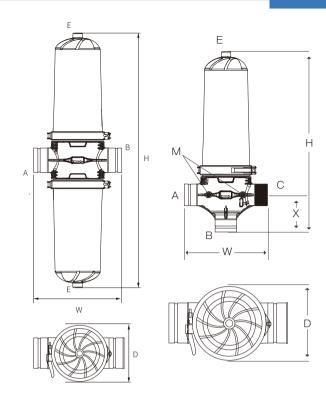


micron (300 mesh)

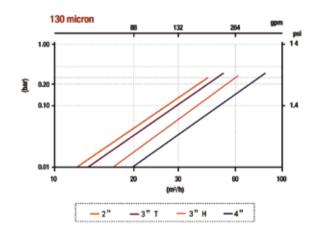
20 micron (750 mesh)

DIMENSION

MODEL	H (mm) (in)		(mm)	W (mm) (in)		(in)
BAF050TB	620	24.4	320	12.6	220	8.7
BAF050TSB	740	29.1	320	12.6	220	8.7
BAF080TB	750	29.5	340	13.4	220	8.7
BAF080HB	975	38.4	340	13.4	220	8.7
BAF100HB	975	38.4	340	13.4	220	8.7
BAF100HSB	1220	48	340	13.4	220	8.7



HEAD LOSS



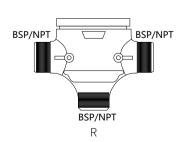
MATERIAL

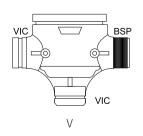
HOUSING	Reinforced Polyamide
FILTERING ELEMENTS	PP Grooved Discs
CLAMP	Stainless Steel
SEALING ELEMENT	NBR

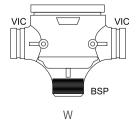
Maximum Pressure 10 Bar / 145 Psi Maximum Temperature 60 °C / 140 °F

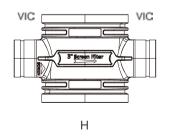
Note: The flow rate will fluctuate with different water quality

CONNECTIONS





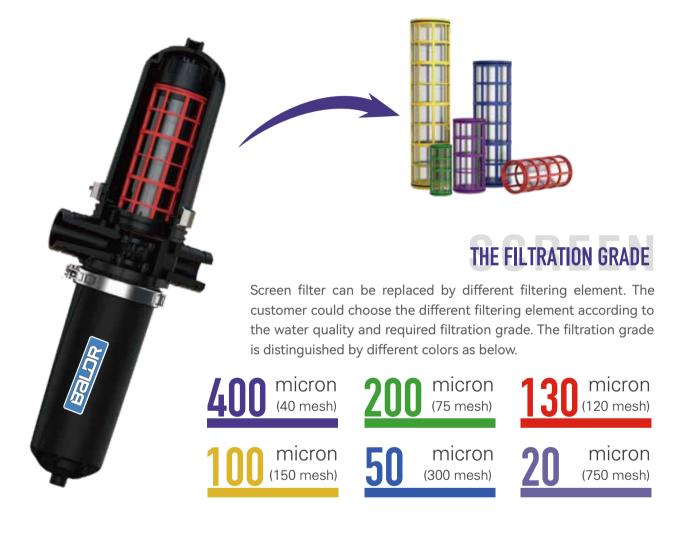






Norkshop

With the application of delicate weaving craftsmanship of stainless steel screen, Baldr's screen filter adopt micron-grade filter screen which enjoying highly flexible, corrosion, acid and alkaline resistant features. We provide various screen filters with different connection sizes, flow rates & filtration grades. The helical locking design is easy to disassemble and clean.



VARIOUS FILTER SIZES

BALDR designs different types and different sizes of filters for multiple applications, we provide Y type, ST type, T type and H type screen filter with different connection outlets sizes.



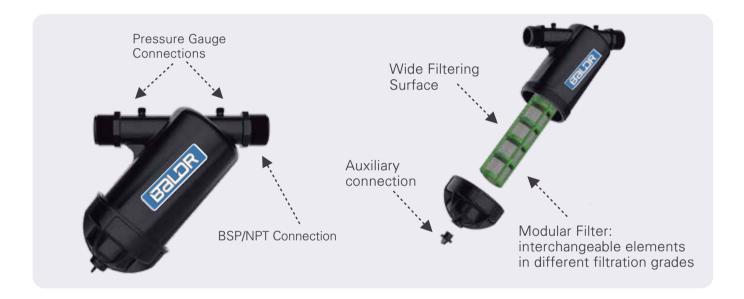
Y TYPE SCREEN FILTERS

With the application of delicate weaving craftsmanship of stainless steel screen, BALDR Y series screen filter is weaved into micron-grade filter screen with high strength, corrosion, acid and alkaline resistant features. The screw locking design is easy to disassemble and clean. Y type screen filter has the advantage of easy installation especially in the narrow space application.



TYPICAL APPLICATION

Y type screen filters are applicable to small-scale and low flow water filtering for agriculture irrigation and landscape irrigation. Built-in pressured pipeline, Y type screen filter will effectively filter out particles.

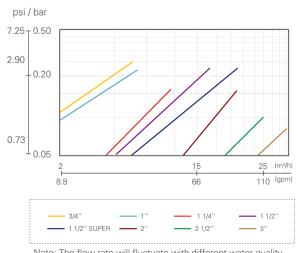


FEATURE & ADVANTAGE

- Compact structure available in narrow space;
- Durable & stainless steel filter screen with corrosion, acid and alkaline resistant features;
- Threaded closure system, easy and safe;
- Easy installation, easy maintenance;
- Low cost with excellent performance;
- Equipped with auxiliary connections;
- Preset 2 ports for connecting pressure gauge.

HEAD LOSS

Y TYPE FILTER HEAD LOSS(130 Micron/ 120 Mesh)



Note: The flow rate will fluctuate with different water quality.



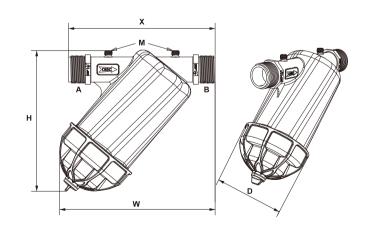
MODEL & SPECIFICATION



MODEL	CONNECTIONS BSP/NPT	FILTRATION GRADES (mesh)	MAX (m³/h)	FLOW (gpm)	FILTERING (cm²)	SURFACE (in²)	WEIGHTS (kg)
BSF020Y	DN20 3/4"	120	5	22	190	30	0.30
BSF025Y	DN25 1"	120	6	26	190	30	0.30
BSF032Y	DN32 1-1/4"	120	10	44	265	41	0.71
BSF040Y	DN40 1-1/2"	120	14	62	265	41	0.71
BSF040YS	DN40 1-1/2"	75/120	20	88	485	75	0.72
BSF050Y	DN50 2"	75/120	25	110	485	75	0.99
BSF065Y	DN65 2-1/2"	120	30	132	565	88	2.05
BSF080Y	DN80 3"	120	35	154	565	88	2.10

DIMENSION

MODEL	H (mm) (in)	W (mm) (in)	D (mm) (in)
BSF020Y	173 6.8	186 7.3	83 3.3
BSF025Y	173 6.8	186 7.3	83 3.3
BSF032Y	230 9.0	250 9.8	120 4.7
BSF040Y	230 9.0	250 9.8	120 4.7
BSF040YS	260 10.2	290 11.4	140 5.5
BSF050Y	260 10.2	290 11.4	140 5.5
BSF065Y	330 13.0	360 14.1	168 6.6
BSF080Y	330 13.0	360 14.1	168 6.6



MATERIAL

HOUSING	Filtering Elements
Reinforced Polypropylene	304 Stainless Steel

Maximum Pressure 8 Bar / 116 Psi Maximum Temperature 60 °C / 140 °F

Available In BSP & NPT Connection

ST TYPE SCREEN FILTERS

With the application of delicate weaving craftsmanship of stainless steel screen, Baldr ST type screen filter is weaved into micron-grade filter screen with high strength, corrosion, acid and alkaline resistant features. The screw locking design is easy to disassemble and clean. ST type screen filter has the advantage of easy installation especially in the narrow space application and it suits for low flow filtration.



TYPICAL APPLICATION

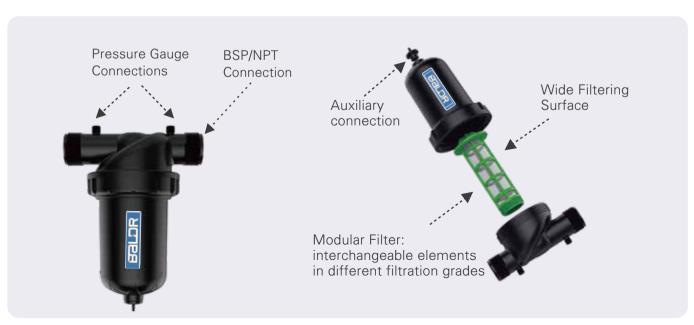
ST type screen filters are applied for small and low flow reqirement such as agriculture irrigation and land-scape irrigation. Built-in pressured pipeline, ST type screen filter will effectively filter out particles.

FEATURE & ADVANTAGE

- Compact structure available in narrow space;
- Durable & stainless steel filter screen with corrosion, acid and alkali resistant features;
- Threaded closure system, easy and safe;
- Easy installation, easy maintenance;

- Low cost with excellent performance;
- Equipped with auxiliary connections;
- Preset 2 ports for connecting pressure gauge.

TECHNOLOGY



MODEL & SPECIFICATION







BSF040ST

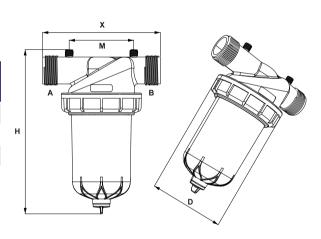


BSF050ST

MODEL	CONNECTIONS BSP/NPT	FILTRATION GRADES (mesh)	MAX F (m³/h)	FLOW (gpm)	FILTERING (cm²)	SURFACE (in²)	WEIGHTS (kg)
BSF032ST	DN32 1-1/4"	75/120	10	44	265	41	0.75
BSF040ST	DN40 1-1/2"	120	14	62	265	41	0.75
BSF050ST	DN50 2"	120	20	88	265	41	0.75

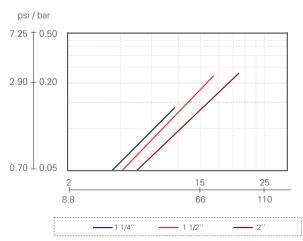
DIMENSION

MODEL	H (mm) (in)	X (mm) (in)	D (mm) (in)	
BSF032ST	280 11	205 8.1	139 5.5	
BSF040ST	280 11	205 8.1	139 5.5	
BSF050ST	280 11	205 8.1	139 5.5	



HEAD LOSS

ST TYPE FILTER HEAD LOSS(130 Micron/ 120 Mesh)



Note: The flow rate will fluctuate with different water quality.

MATERIAL

HOUSING	Filtering Elements
Reinforced Polypropylene	304 Stainless Steel

Maximum Pressure 8 Bar / 116 Psi Maximum Temperature 60 °C / 140 °F

Available In BSP & NPT Connection

T TYPE SCREEN FILTERS

With the application of delicate weaving craftsmanship of stainless steel screen, BALDR T type screen filter is weaved into micron-grade filter screen with high strength, corrosion, acid and alkaline resistant features. The well-designed structure make it easy to clean. And the T type especially suits the medium flow filtration.

TYPICAL APPLICATION

T type screen filters are applicable to mediumscale and medium flow water filtering for agriculture irrigation and landscape irrigation.

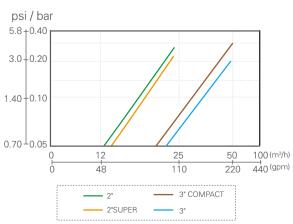


FEATURE & ADVANTAGE

- Tulfillment of any filtration needs;
- Maximum quality and safety in filtration;
- Durable & stainless steel filter screen with corrosion, acid and alkali resistant features;
- Stainless steel clamp for easy installation, handling and maintenance;
- Water and energy saving;
- 3 mouth housing with different connection possibilities.

HEAD LOSS

T TYPE FILTER HEAD LOSS(130 Micron/ 120 Mesh)



Note: The flow rate will fluctuate with different water quality.

TECHNOLOGY





MODEL & SPECIFICATION







BSF050TSB

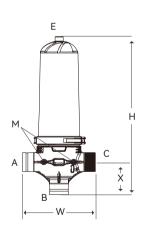


BSF080TB

MODEL	CONNECTIONS BSP/NPT/GRV	FILTRATION GRADES (mesh)	MAX FLOW (m³/h) (gpn		IG SURFACE (in²)	WEIGHTS (kg)
BSF050TB	DN50 2"	40/75/120/150	30 132	815	126.3	6.21
BSF050TSB	DN50 2"	40/75/120/150	30 132	1087	168.5	7.71
BSF080TCB	DN80 3"	40/75/120/150	50 220	815	126.3	6.41
BSF080TB	DN80 3"	40/75/120/150	50 220	1087	168.5	8.46

DIMENSION

MODEL	l (mm)	l (in)	(mm)	W (in)	(mm)	((in)	[mm)) (in)
BSF050TB	620	24.4	320	12.6	140	5.5	220	8.7
BSF050TSB	740	29.1	320	12.6	140	5.5	220	8.7
BSF080TCB	630	24.8	340	13.4	153	6.0	220	8.7
BSF080TB	740	29.1	340	13.4	153	6.0	220	8.7

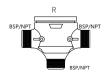


MATERIAL

HOUSING	Reinforced Polypropylene
Filtering Elements	304 Stainless Steel Screen
Clamp	Stainless Steel
Sealing element	NBR

Maximum Pressure 10 Bar / 145 Psi; Maximum Temperature 60 $^{\circ}\text{C}$ / 140 $^{\circ}\text{F}$

CONNECTIONS







Available In Grooved & BSP & NPT

H TYPE SCREEN FILTERS

With the application of delicate weaving craftsmanship of stainless steel screen, BALDR H series screen filter is weaved into micron-grade filter screen with high strength, corrosion, acid and alkaline resistant features. And the double-bucket H type especially suits the high flow filtration.



TYPICAL APPLICATION

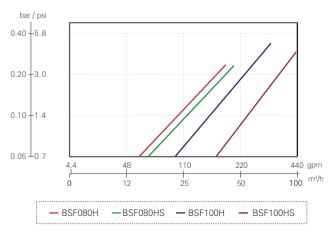
H type screen filters are applicable to large-scale and high flow water filtering for agriculture irrigation and landscape irrigation.

FEATURE & ADVANTAGE

- Tulfillment of any filtration needs;
- Maximum quality and safety in filtration;
- Durable & stainless steel filter screen with corrosion, acid and alkali resistant features;
- Stainless steel clamp for easy installation, handling and maintenance;
- Water and energy saving;
- BSP, NPT or grooved connection, The filter can be installed in any position.

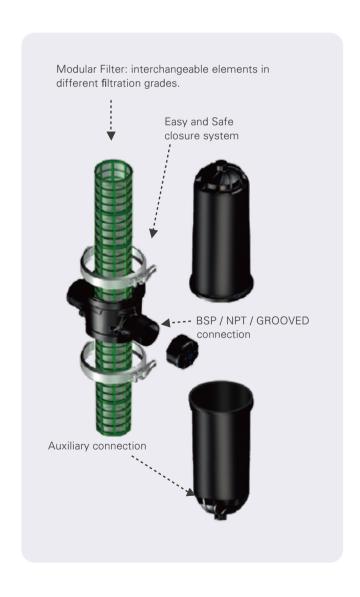
HEAD LOSS

H TYPE FILTER HEAD LOSS(130 Micron/120 Mesh)



Note: The flow rate will fluctuate with different water quality.

TECHNOLOGY



Balor

MODEL & SPECIFICATION



BSF080HB/BSF100HB



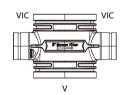
BSF080HSB/BSF100HSB

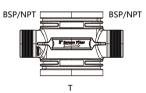
MODEL	CONNECTIONS BSP/NPT	FILTRATION GRADES (mesh)	MAX FLOW (m³/h) (gpm)	FILTERING SURFACE (cm²) (in²)	WEIGHTS (kg)
BSF080HB	DN80 3"	40/75/120	50 220	1630 253	8.13
BSF080HSB	DN80 3"	40/75/120	60 264	2174 337	8.19
BSF100HB	DN100 4"	40/75/120	70 308	1630 253	8.20
BSF100HSB	DN100 4"	40/75/120	100 440	2174 337	8.26

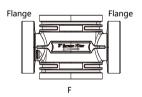
DIMENSION

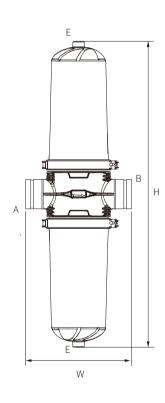
MODEL	H (mm) (in)	W (mm) (in)	D (mm) (in)
BSF080HB	940 37	340 13	220 8.7
BSF080HSB	1220 48	340 13	220 8.7
BSF100HB	960 38	340 13	220 8.7
BSF100HSB	1220 48	340 13	220 8.7

CONNECTIONS







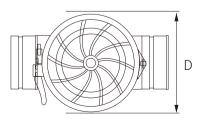


MATERIAL

HOUSING	Reinforced Polypropylene
Filtering Elements	304 Stainless Steel Screen
Clamp	Stainless Steel
Sealing element	NBR

Maximum Pressure 10 Bar / 145 Psi; Maximum Temperature 60 $^{\circ}\text{C}$ / 140 $^{\circ}\text{F}$





SEMI-AUTOMATIC SCREEN FILTERS

Baldr semi-automatic screen filter is based on low maintenance and on its wide filtering surface. Its special design allows an easy and quick cleaning, without disassembling the filter or stopping the installation.

TECHNOLOGY

Baldr Spiral clean fillter has a wide surface screen filtering element, and nozzies specially designed to remove the particles retained during the filtration process.

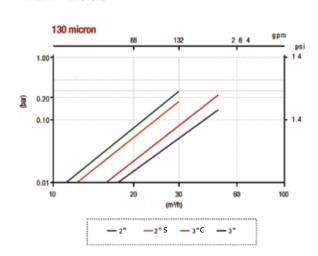
The rotatory movement of the handle allows the nozzles, with a spiral movement, scan the 100% screen, sucking the particles and expelling it through the drainage, with little water consumption.



FEATURE & ADVANTAGE

- Maximum filtering surface;
- ← High effective and easy cleaning;
- The filter is cleaned without disassembling it;
- Non-stop working. It is not necessary to stop the supply of water;
- $\stackrel{\nabla}{(\Xi)}$ Low maintenance, without tooling;
- 🔘 Water and energy saving.

HEAD LOSS





Balor

MODEL & SPECIFICATION









BSF050AS

BSF080AC

BSF080A

MODEL	CONNECTIONS BSP/NPT/GRV	FILTRATION GRADES (mesh)	MAX (m³/h)	FLOW (gpm)	FILTERING (cm²)	S SURFACE (in²)	WEIGHTS (kg)
BSF050A	DN50 2"	120	30	132	890	138	8.30
BSF050AS	DN50 2"	120	30	132	1190	184	10.10
BSF080AC	DN80 3"	120	50	220	890	138	8.50
BSF080A	DN80 3"	120	50	220	1190	184	10.50

CONNECTIONS

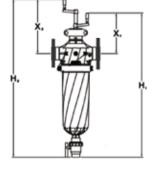






MATERIAL

HOUSING	Reinforced Polyamide
Filtering Elements	304 Stainless Steel Screen
Clamp	Stainless Steel
Sealing element	NBR



Maximum Pressure 10 Bar / 145 Psi Maximum Temperature 60 °C / 140 °F

DIMENSION

MODEL	H1 (mm) (in)	H2 (mm) (in)	W (mm) (in)	X1 (mm) (in)	X2 (mm) (in)	D (mm) (in)
BSF050A	960 38	905 36	345 14	335 13	280 11	220 9
BSF050AS	1085 43	1030 41	345 14	355 14	300 12	220 9
BSF080AC	975 38	920 36	360 14	335 13	280 11	220 9
BSF080A	1100 43	1045 41	360 14	355 14	300 12	220 9

CENTRIFUGAL SEPARATOR

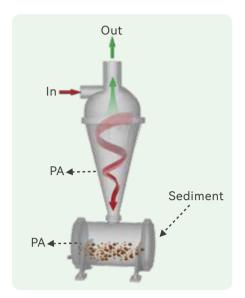
BALDR centrifugal separator separates particles of different densities by gravity & centrifugal force principles. The filter has outstanding performance for large particles filtration. It is disassembled easily and convenient for maintenance and cleaning.



CENTRIFUGAL SEPARATOR

BALDR centrifugal separator separates particles of different densities by gravity & centrifugal force principles. The filter has outstanding performance for large particles filtration. It's made of PA material to resistant corrosion, acid, rust and alkaline, which greatly extends its lifetime. It is disassembled easily and convenient for maintenance and cleaning.

As a filter for large particles, it can achieve excellent filtering performance working with disc filter or screen filter. The centrifugal filter is applied in agricultural irrigation, municipal garden irrigation and industrial water recycled filtration.



TYPICAL APPLICATION

Well Water Filtration: The filter can quickly filter the sand and gravels when the water is drawn from deep well by the pump at the beginning.



Industrial filtration: For the recycled water, the centrifugal filter operates as primary filtration, it can works with disc filter or screen filter for more exquisite filtration.



Irrigation System: If water source comes from rivers and lakes, it is necessary to firstly use centrifugal filter to shake out the sand and gravels as a first-stage filtration process.



HOW IT WORKS

With unique flow structure design, it creates centrifugal force which will sink the sand or sewage into the bottom collector. The clean water will flow out from outlet. The sand and gravel collector can be cleaned and maintained if necessary.

FEATURE & ADVANTAGE



Durable PA material against chemical products and sand impact;

Disassembling easily and convenient for maintenance and cleaning;

3 connection sizes for various requirements;

Low cost & good performance.

MODEL & SPECIFICATION



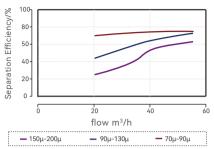




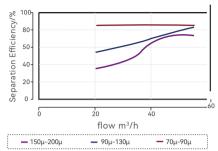
MODEL	CONNECTIONS BSP/Grooved/Flange	MAX FLOW (m³/h) (gpm)	TANK CAPACITY (L)	WEIGHT (kg)
BCF050	DN50 2"	30 132	16	13.5
BCF080	DN80 3"	50 220	16	17.5
BCF100	DN100 4"	100 440	27	28.0



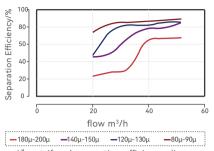
FILTERING CHART







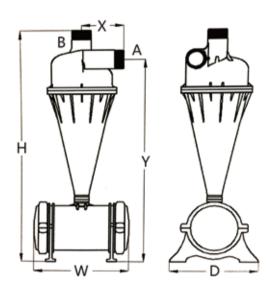
3"centrifugal separation efficiency diagram



4"centrifugal separation efficiency diagram

DIMENSION

MODEL	Н	W	D	Х	Υ
MODEL	(mm) (in)				
BCF050	1100 43	490 19	430 17	180 7	963 38
BCF080	1220 48	490 19	430 17	205 8	1070 42
BCF100	1440 57	520 20	524 21	250 10	1260 50



MATERIAL

Separator Body	Reinforced Polyamide
Sediment Tank	Reinforced Polyamide

Maximum Pressure 8 Bar / 116 Psi Maximum Temperature 60 $^{\circ}$ C / 140 $^{\circ}$ F

Available In BSP / Grooved / Flange Connection

HYDRAULIC CONTROL VALVES

BIV series hydraulic control valve is hydraulically operated, diaphragm-actuated control valve with movement smooth, pressure adjustment accuracy and sensitive reaction, and it can protect filtration system and irrigation system. The control valve is designed with Y structure, through hydraulic pressure, switch and pilot valve different connection ways, it can be divided into pressure reducing valve, pressure sustaining valve, pressure relief valve, electric switch valve. The unique shape chambered design ensures it flow through super large flow.



BIV SERIES SWITCH VALVES WITH SOLENOID CONTROL

This type electric switch valve is hydraulically operated, diaphragm-actuated control valve, which opens in response to a remote pressure rise command and shuts in the absence of that command.



TYPICAL APPLICATIONS

Computerized Irrigation Systems; Remote Elevated Systems; Turf Irrigation or Buried Pipeline Irrigation; Greenhouse Irrigation; Low Supplied Pressure Irrigation Systems; Energy Saving Irrigation Systems;



FEATURES



Hydraulically Controlled, Normally Closed Valve

- Line pressure driven
- Closes upon control failure
- Amplifies and relays weak remote command



Engineered Plastic Valve with Industrial Garde Design

- Highly durable, chemical and cavitation resistant
- No internal bolts and nuts



Simple In-Line Inspection and Service



Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug

- Smooth closing
- Requires low opening and actuation pressure
- Prevents diaphragm erosion and distortion



High Flow "Y" Valve Body with "Look Through"

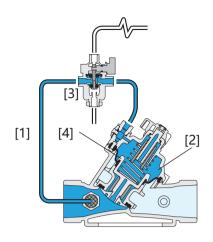
• Ultra-high flow capacity, Low pressure loss

MATERIALS

BODY,COVER AND PLUG	Glass-Filled Nylon
DIAPHRAGM	NR
SEALS	NR
SPRING	Stainless Steel

COVER BOLTS	Stainless Steel
CONTROL ACCESSORIES	Nylon
TUBING AND FITTINGS	PE
MAX WORKING TEMPERATURE	60°C,140°F

Line pressure [1] is applied to the Control Chamber [2] through the held open, 3-Way Hydraulic Relay Valve (3W-HRV). This creates superior closing force that moves the Diaphragm Assembly [4] to a closed position. Upon pressure rise command, the 3W-HRV switches, releasing pressure from the control chamber and thereby opening the Main Valve. The 3W-HRV also features local manual opening and closing.



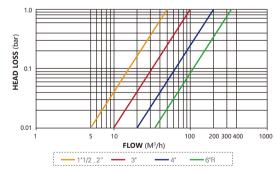
TECHNICAL DATA

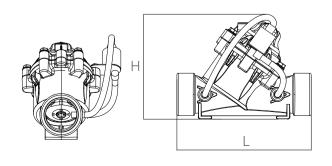
MODEL	CONNECTION SIZES	CONNECTIONS	VOLTAGE (V)	FLOW RATES (m³/h)	WORKIN PRESSURE (bar)	WEIGHTS (kg)
BIV040SC	1.5"×1.5"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	1.30
BIV050SC	2"×2"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	1.70
BIV080SC	3"×3"	BSP/NPT/ Flanges	AC24V/DC24V/DC12V(Latch)	100	0.35 ~ 10	1.78 (Flanges:3.16)
BIV100SC	4"×4"	Flanges	AC24V/DC24V/DC12V(Latch)	200	0.35 ~ 10	5.74
BIV150SC	6"×6"	Flanges	AC24V/DC24V/DC12V(Latch)	340	0.35 ~ 10	11.74

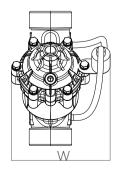
DIMENSION

MODEL	L (mm)	W (mm)	H (mm)
BIV040SC	226	120	150
BIV050SC	230	150	200
BIV080SC	320	160	250
BIV100SC	350	170	300
BIV150SC	436	240	430

FLOW CHART







BIV SERIES MANUAL PRESSURE REDUCING VALVES

This type Pressure Reducing Valve is hydraulically operated, diaphragm actuated control valve that reduces higher upstream pressure to lower constant downstream pressure and opens fully upon line pressure drop.

FEATURES



Line Pressure Driven, Hydraulically Controlled

- Protects downstream systems
- Opens fully upon line pressure drop



Engineered Plastic Valve with Industrial Garde Design

- Highly durable, chemical and cavitation resistant
- No internal bolts and nuts



High Flow "Y" Valve Body with "Look Through" Design

• Ultra-high flow capacity, Low pressure loss



Unitized Flexible Super Travel(FST) Diaphragm and Guided Plug

- Accurate and stable regulation with smooth closing
- Requires low opening and actuation pressure
- Preventsdiaphragmerosionand distortion



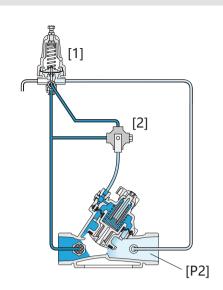


TYPICAL APPLICATIONS

Pressure Reducing Stations; Systems Subject to Varying Supply Pressure;



The Pressure Reducing Pilot [1] commands the Valve to throttle closed should Downstream Pressure [P2] rise above setting and modulate to open when it drops below setting. The downstream Cock Valve [2] enables manual closing.



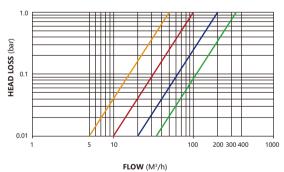
TECHNICAL DATA

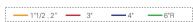
MODEL	CONNECTION SIZES	CONNECTIONS	KV FLOW RATES (m³/h)	WORKIN PRESSURE (bar)	WEIGHTS (kg)
BIV040PR	1.5"×1.5"	BSP/NPT	50	0.35 ~ 10	1.56
BIV050PR	2"×2"	BSP/NPT	50	0.35 ~ 10	1.96
BIV080PR	3"×3"	BSP/NPT/ Flanges	100	0.35 ~ 10	2.04 (Flanges:3.42)
BIV100PR	4"×4"	Flanges	200	0.35 ~ 10	6
BIV150PR	6"×6"	Flanges	340	0.35 ~ 10	12

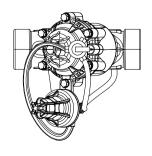
DIMENSION

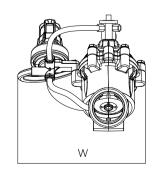
MODEL	L (mm)	W (mm)	H (mm)
BIV040PR	226	120	192
BIV050PR	230	150	230
BIV080PR	320	160	280
BIV100PR	350	170	330
BIV150PR	436	240	430

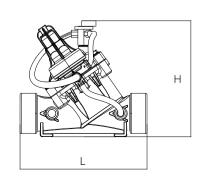
FLOW CHART











BIV SERIES PRESSURE REDUCING VALVES WITH SOLENOID CONTROL

This type pressure reducing valve with solenoid control is a hydraulically operated, diaphragm-actuated control valve that reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand, and opens fully upon line pressure drop. This model valve either opens or shuts in response to an electric signal.

FEATURES

- Hydraulic Pressure Control with Solenoid Control Line pressure driven
 - Protects downstream systems
 - Opens fully upon line pressure drop
 - Electrically controlled On/Off



- Engineered Plastic Valve with Industrial Garde Design
 - Highly durable, chemical and cavitation resistant
 - No internal bolts and nuts



- Unitized Flexible Super Travel(FST) Diaphragm and Guided Plug
 - Accurate and stable regulation with smooth closing
 - Requires low opening and actuation pressure
 - Prevents diaphragm erosion and distortion



- High Flow "Y" Valve Body with "Look Through" Design
 - Ultra-high flow capacity, Low pressure loss



Simple In-Line Inspection and Service

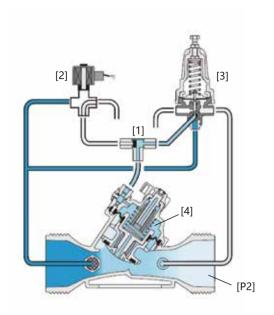


TYPICAL APPLICATIONS

Computerized Irrigation Systems; Pressure Reducing Stations; System Subject to Varying Supply Pressure; Distribution Centers; Energy Saving Irrigation Systems; Remote and/or Elevated Plots;



The Shuttle Valve [1] connects the Solenoid Valve [2] or the Pressure Reducing Pilot [3] to the Control Chamber [4]. When the Solenoid Valve is closed, the Pressure Reducing Pilot commands the Valve to throttle closed should Downstream Pressure [P2] rise above setting and modulate to open when it drops below setting. The solenoid valve is switched by electric signal control, the pipe pressure is guided into the control chamber through the shuttle valve, and the pressure in the control chamber increases, prompting the valve to close. The Solenoid Valve enables manual closing.



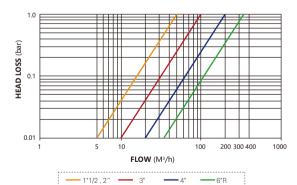
TECHNICAL DATA

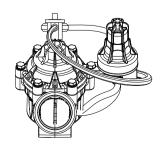
MODEL	CONNECTION SIZES	CONNECTIONS	VOLTAGE (V)	FLOW RATES (m³/h)	WORKIN PRESSURE (bar)	WEIGHTS (kg)
BIV040EPR	1.5"×1.5"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	1.90
BIV050EPR	2"×2"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	2.2
BIV080EPR	3"×3"	BSP/NPT/ Flanges	AC24V/DC24V/DC12V(Latch)	100	0.35 ~ 10	2.04 (Flanges:3.42)
BIV100EPR	4"×4"	Flanges	AC24V/DC24V/DC12V(Latch)	200	0.35 ~ 10	6
BIV150EPR	6"×6"	Flanges	AC24V/DC24V/DC12V(Latch)	340	0.35 ~ 10	12

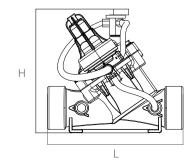
DIMENSION

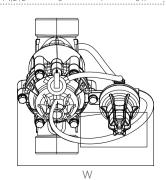
MODEL	L (mm)	W (mm)	H (mm)
BIV040EPR	226	120	192
BIV050EPR	230	150	230
BIV080EPR	320	160	280
BIV100EPR	350	170	330
BIV150EPR	436	240	430

FLOW CHART









BALDR

BIV SERIES MANUAL PRESSURE SUSTAINING VALVES

This type sustaining valve is hydraulically operated, diaphragm-actuated control valve that sustains minimum preset upstream (back) pressure and opens fully when line pressure is in excess of setting.

FEATURES

- Line Pressure Driven, Hydrauliclly Controlled
 - Prioritizes pressure zones
 - Controls system fill-up
 - Opens fully upon line pressure rise
- Engineered Plastic Valve with Industrial Garde Design
 - Highly durable, chemical and cavitation resistant
 - No internal bolts and nuts
- High Flow "Y" Valve Body with "Look Through" Design
 - Ultra-high flow capacity, Low pressure loss
- Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug
 - Accurate and stable regulation with smooth closing
 - Requires low opening and actuation pressure
 - Prevents diaphragm erosion and distortion
- Simple In-Line Inspection and Service

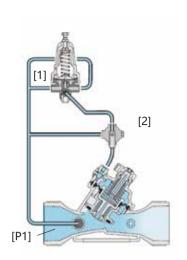


TYPICAL APPLICATIONS

Line Fill-Up Control Solutions; Line Emptying Prevention; Systems Subject to Varying Supply Pressure; Infield Filters Backwash Pressure Sustaining; Energy Saving Irrigation Systems;



The pressure sustaining pilot valve [1] causes the main valve to be slowly closed when the upstream pressure [P1] is lower than the minimum preset pressure, and fully opens when [P1] is in excess of setting. Local manual shut-off of the valve can be performed with the manual selection device [2].



TECHNICAL DATA

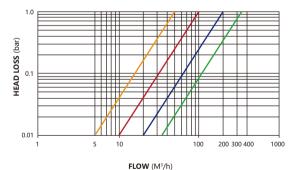
MODEL	CONNECTION Sizes	CONNECTIONS	KV FLOW RATES (m³/h)	WORKIN Pressure (bar)	WEIGHTS (kg)
BIV040PS	1.5"×1.5"	BSP/NPT	50	0.35 ~ 10	1.56
BIV050PS	2"×2"	BSP/NPT	50	0.35 ~ 10	1.96
BIV080PS	3"×3"	BSP/NPT/ Flanges	100	0.35 ~ 10	2.04 (Flanges:3.42)
BIV100PS	4"×4"	Flanges	200	0.35 ~ 10	6
BIV150PS	6"×6"	Flanges	340	0.35 ~ 10	12

DIMENSION

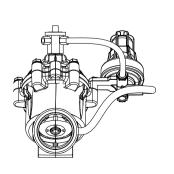
MODEL	L (mm)	W (mm)	H (mm)
BIV040PS	226	120	192
BIV050PS	230	150	230
BIV080PS	320	160	280
BIV100PS	350	170	330
BIV150PS	436	240	430

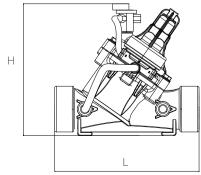
FLOW CHART

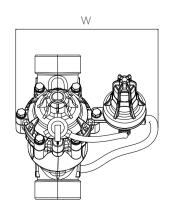
Relationship Between Flow Rate and Head Loss(Flow Rate < 2m/s)



— 1"1/2 , 2" — 3" — 4" — 6"R







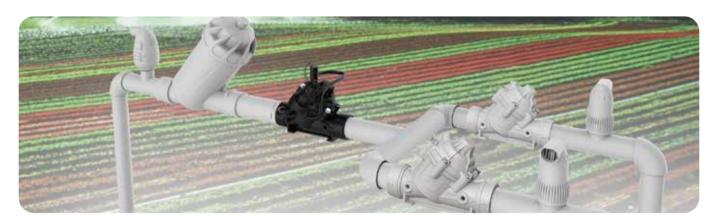
BIV SERIES PRESSURE SUSTAINING VALVES WITH SOLENOID CONTROL

This valve is a hydraulically operated, diaphragm-actuated control valve that sustains minimum preset upstream (back) pressure and opens fully when line pressure is in excess of setting. It either opens or shuts in response to an electric signal.



TYPICAL APPLICATIONS

Computerize Irrigation System; Line Fill-up Control Solution; Line Emptying Prevention; Remote And Elevated Plots; Infield Filters Backwash Pressure Sustaining; Energy Saving Irrigation Systems;



FEATURES

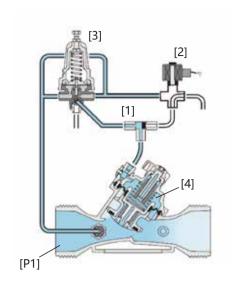
- Line Pressure Driven, Electrically Controlled On/Off
 - Prioritizes pressure zones & controls system
 - Sustains upstream line pressure
 - Opens fully upon line pressure rise
- Engineered Plastic Valve with Industrial Grade Design
- Highly durable, chemical and cavitation resistant
- No internal bolts and nuts



- 'Y' shape Valve Body with "Look Through" Design
 - Ultra-high flow capacity Low pressure loss

- Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug
- Accurate and stable regulation with smooth closing
- Requires low actuation pressure
- · Prevents diaphragm erosion and distortion
- Simple In-Line Inspection and Service

The shuttle valve [1] connects the solenoid valve [2] or the pressure sustaining pilot valve [3] to the valve control chamber [4]. When the solenoid valve is closed, the pressure sustaining pilot valve causes the valve to be slowly closed when the upstream pressure [P1] is lower than the setting, and fully opens when [P1] rises above the setting. The solenoid valve is switched under the control of the electric signal, and the pipeline pressure is guided into the control chamber through the shuttle valve, and the pressure in the control chamber is increased to cause the valve to close. The solenoid valve also enables local manual shut-off of the valve.



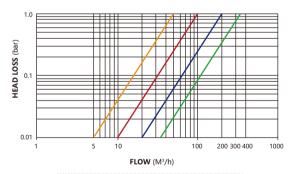
TECHNICAL DATA

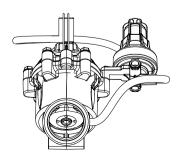
MODEL	CONNECTION SIZES	CONNECTIONS	VOLTAGE (V)	KV FLOW RATES (m³/h)	WORKIN PRESSURE (bar)	WEIGHTS (kg)
BIV040EPS	1.5"×1.5"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	1.9
BIV050EPS	2"×2"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	2.2
BIV080EPS	3"×3"	BSP/NPT /Flanges	AC24V/DC24V/DC12V(Latch)	100	0.35 ~ 10	2.04 (Flanges:3.42)
BIV100EPS	4"×4"	Flanges	AC24V/DC24V/DC12V(Latch)	200	0.35 ~ 10	6
BIV150EPS	6"×6"	Flanges	AC24V/DC24V/DC12V(Latch)	340	0.35 ~ 10	12

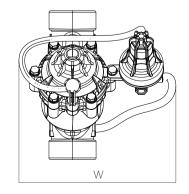
DIMENSION

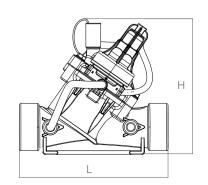
MODEL	L (mm)	W (mm)	H (mm)
BIV040EPS	226	195	192
BIV050EPS	230	220	230
BIV080EPS	300	220	240
BIV100EPS	320	280	320
BIV150EPS	436	360	430

FLOW CHART









BIV SERIES PRESSURE REDUCING AND SUSTAINING VALVES

The valve is a hydraulically operated, diaphragm- actuated control valve that sustains minimum preset upstream (back) pressure and reduces downstream pressure to a constant preset maximum.



TYPICAL APPLICATIONS

Line Fill-Up Control Solutions; Line Emptying Prevention; Pressure Reducing Systems; Infield Filter Backwash Pressure Sustaining; Energy Saving Irrigation Systems;



FEATURES



Line Pressure Driven, Hydraulically Controlled

- Protects downstream system
- Prioritizes pressure zones
- Controls system fill-up



Engineered Plastic Valve with Industrial Grade Design

- Highly durable, chemical and cavitation resistant
- No internal bolts and nuts



(Y' shape Valve Body with "Look Through" Design

• Ultra-high flow capacity - Low pressure loss



Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug

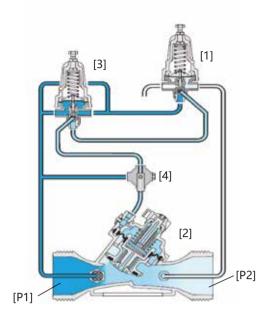
- Accurate and stable regulation with smooth closing
- Requires low opening and actuation pressure
- · Prevents diaphragm erosion and distortion



User-Friendly Design

- Easy pressure setting
- Simple in-line inspection and service

The pressure reducing pilot valve [1] is connected to the valve control chamber [2] via the pressure sustaining pilot valve [3]. The pressure sustaining valve closes the valve when the upstream pressure [P1] is lower than the setting. When the upstream pressure [P1] rises above the setting, the pressure sustaining pilot valve is switched to allow the pressure reducing pilot valve to control the valve to reduce the downstream pressure [P2]. Local manual shut-off of the valve can be achieved by the manual selection device [4].



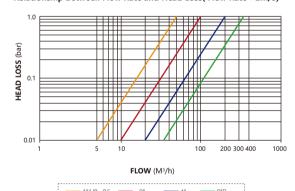
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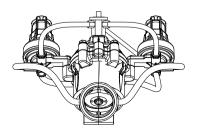
MODEL	CONNECTION SIZES	CONNECTIONS	KV FLOW RATES (m³/h)	WORKIN Pressure (bar)	WEIGHTS (kg)
BIV040RS	1.5"×1.5"	BSP/NPT	50	0.35 ~ 10	1.82
BIV50RS	2"×2"	BSP/NPT	50	0.35 ~ 10	2.22
BIV80RS	3"×3"	BSP/NPT/ Flanges	100	0.35 ~ 10	2.30 (Flanges:3.68)
BIV100RS	4"×4"	Flanges	200	0.35 ~ 10	6.26
BIV150RS	6"×6"	Flanges	340	0.35 ~ 10	12.26

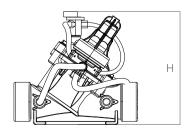
DIMENSION

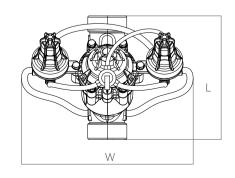
MODEL	L (mm)	VV (mm)	H (mm)
BIV040RS	226	310	192
BIV50RS	230	320	230
BIV80RS	300	320	240
BIV80SRS	320	340	320
BIV100RS	320	340	320
BIV150RS	436	380	430

FLOW CHART









BIV SERIES PRESSURE REDUCING AND SUSTAINING **VALVES WITH SOLENOID CONTROL**

The valve is a hydraulically operated, diaphragm actuated control valve that sustains minimum preset upstream (back) pressure and reduces downstream pressure to a constant preset maximum. It either opens or shuts in response to an electric signal.



TYPICAL APPLICATIONS

Computerized Irrigation Systems; Line Fill-Up Control Solutions; Pressure Reducing Systems; Remote and/or Elevated Plots; Infield Filter Backwash Pressure Sustaining; Energy Saving Irrigation Systems



FEATURES



Line Pressure Driven, Electrically Controlled On/Off

- Protects downstream system
- Prioritizes pressure zones
- Controls system fill-up
- Sustains upstream line pressure



Engineered Plastic Valve with Industrial Grade Design

- Highly durable, chemical and cavitation resistant
- No internal bolts and nuts



'Y' shape Valve Body with "Look Through" Design

• Ultra-high flow capacity - Low pressure loss



Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug

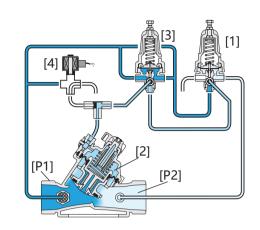
- Accurate and stable regulation with smooth closing
- Requires low opening and actuation pressure
- Prevents diaphragm erosion and distortion



User-Friendly Design

- · Easy pressure setting
- Simple in-line inspection and service

The pressure reducing pilot valve [1] is connected to the valve control chamber [2] via the pressure sustaining pilot valve [3] and the shuttle valve. The pressure sustaining pilot valve closes the valve when the upstream pressure [P1] is lower than the set value. When the upstream pressure [P1] rises above the setting, the pressure sustaining pilot valve is switched to make the pressure reducing pilot valve control the valve to reduce the downstream pressure [P2]. The solenoid valve [4] is switched by electrical signal, the pressure is guided into the shuttle valve. The shuttle valve blocks each pilot valves, the line pressure is transferred the control chamber, and the valve closes.



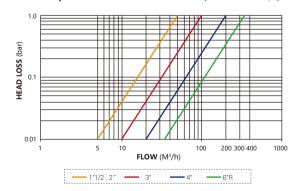
TECHNICAL DATA

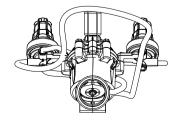
MODEL	CONNECTION SIZES	CONNECTIONS	VOLTAGE (V)	KV FLOW RATES (m³/h)	WORKIN PRESSURE (bar)	WEIGHTS (kg)
BIV040ERS	1.5"×1.5"	BSP/NPT	AC24V/DC24V/DC12V(Latch)	50	0.35 ~ 10	1.9
BIV050ERS	2"×2"	BSP/NPT	AC24V/DC24V/DC12V((Latch)	50	0.35 ~ 10	2.2
BIV080ERS	3"×3"	BSP/NPT/ Flanges	AC24V/DC24V/DC12V((Latch)	100	0.35 ~ 10	2.30 (Flanges:3.68)
BIV100ERS	4"×4"	Flanges	AC24V/DC24V/DC12V((Latch)	200	0.35 ~ 10	6.26
BIV150ERS	6"×6"	Flanges	AC24V/DC24V/DC12V((Latch)	340	0.35 ~ 10	12.26

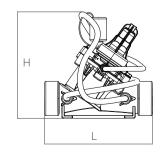
DIMENSION

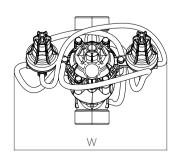
MODEL	L (mm)	W (mm)	H (mm)
BIV040ERS	226	310	192
BIV050ERS	230	320	230
BIV080ERS	300	320	240
BIV100ERS	320	340	320
BIV150ERS	436	380	430

FLOW CHART









BIV SERIES QUICK PRESSURE RELIEF VALVES

The guick pressure relief valve is a hydraulically operated, diaphragm-actuated control valve that relieves excessive line pressure when it rises above the preset maximum. It responds to rises in system pressure immediately, accurately and with high repeatability, by opening fully. It provides smooth drip tight closing.



TYPICAL APPLICATIONS

System Burst Protection; Momentary Pressure Peak Elimination; System Failure Visual Indication; Filter Burst Protection.



FEATURES



Hydraulic Pressure Control

- Line pressure driven
- · Long term drip tight sealing
- · Long term setting stability
- Wide setting range
- Tight setting window with minimal hysteresis



🗸 Engineered Plastic Valve with Industrial Grade Design

- Adaptable on-site to a wide range of end connection sizes and types
- Articulated flange connections eliminate mechanical and hydraulic stresses
- Highly durable, chemical and cavitation resistant



- 🅜 'Y' shape Valve Body with "Look Through" Design
 - Ultra-high flow capacity Low pressure



Unitized Flexible Super Travel (FST) Diaphragm and a Guided Plug

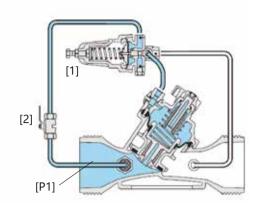
- Accurate and stable regulation with smooth closing
- · Requires low opening and actuation pressure
- Prevents diaphragm erosion and distortion User-Friendly Design



Easy pressure setting

Simple in-line inspection and service

The pressure relief pilot valve [1] causes the valve to open immediately when the upstream pressure [P1] suddenly rises above the setting of pilot valve, and close slowly when the upstream pressure reduces below the setting of pilot valve. The operation test can be performed manually with the exhaust ball valve [2].



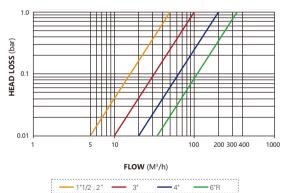
TECHNICAL DATA

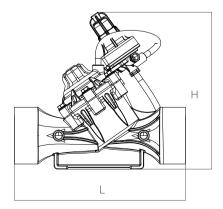
MODEL	CONNECTION SIZES	CONNECTIONS	KV FLOW RATES (m³/h)	WORKIN PRESSURE (bar)	WEIGHTS (kg)
BIV040QR	1.5"×1.5"	BSP/NPT	50	0.35 ~ 10	1.56
BIV050QR	2"×2"	BSP/NPT	50	0.35 ~ 10	1.96
BIV080QR	3"×3"	BSP/NPT / Flanges	100	0.35 ~ 10	2.04 (Flanges:3.42)
BIV100QR	4"×4"	Flanges	200	0.35 ~ 10	6
BIV150QR	6"×6"	Flanges	340	0.35 ~ 10	12

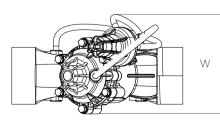
DIMENSION

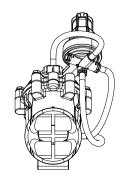
MODEL	L (mm)	VV (mm)	H (mm)
BIV040QR	226	205	192
BIV050QR	230	210	230
BIV080QR	230	210	240
BIV100QR	320	240	320
BIV150QR	436	280	430

FLOW CHART









Control Valves



BDV SERIES BACKFLUSHING CONTROL VALVES

BDV series backflushing control valve are 3-way 2-chamble hydraulic drive diaphragm control valves with low-pressure seal and smooth flow change, it can be connected with sand media filter or disc filter into an automatic backwash filtration system, and it can also change the direction of flow in the water supply.

The control valves have two control chambers, which can achieve the transformation of two directions between angle flow and straight flow by changing the assembly direction of spring, and the unique shape chambered design ensures it flow through super large flow.



TYPICAL APPLICATIONS

Auto backflushing filtration system:

Assembled into a backflushing filtration system with sand media filter or disc filter.

Water supply system:

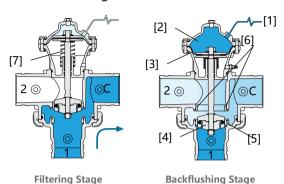
Being used in the water supply pipelines to reroute the water flow into angle or straight flow direction.



FEATURES

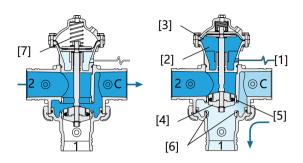
- Ā
- Hydraulic drive diaphragm control valve;
- Unique plastic spool assembly design with excellent tight sealing and strong corrosion resistance; Short valve travel, smooth changes of flow direction, eliminating mixing of water supply and wastewater;
- PA material's valve body, corrosion, acid and alkali resistance, longer service life;
- The drive device can be detachable independently, convenient for on line inspection and maintenance;
- Oouble chambered design with low-pressure actuation to effectively protect the diaphragm;

Angle Flow Valve



A Hydraulic Command [1], which pressurizes the Lower Control Chamber [2], forces the Diaphragm [3] actuated Plug Assembly [4] to move towards the Supply Port Seat [5], eventually sealing it drip tight. This allows flow from the filter through the Drain Port Seat [6]. Venting the upper control chamber causes the line pressure, together with the Spring [7] force, to move the Valve back to filtration mode.

Straight Flow Valve



Filtering Stage

Backflushing Stage

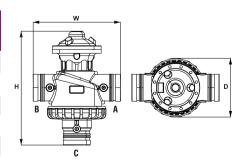
A Hydraulic Command [1], which pressurizes the Lower Control Chamber [2], forces the Diaphragm [3] actuated Plug Assembly [4] to move towards the Supply Port Seat [5], eventually sealing it drip tight. This allows flow from the filter through the Drain Port Seat [6]. Venting the upper control chamber causes the line pressure, together with the Spring [7] force, to move the Valve back to filtration mode.

TECHNICAL DATA

MODEL	FLOW Direction	CONNECTION SIZES	CONNECTIONS	VOLUME IN Chamber (L)	WORKING Pressure (Bar)	WEIGHTS (kg)
BDV050SB	Straight	2"×2"×2"	Grooved	0.13	0.7-10	2.8
BDV050AB	Angle	2"×2"×2"	Grooved	0.13	0.7-10	2.8
BDV080SB	Straight	3"×3"×3"	Grooved	0.34	0.7-10	5.5
BDV080AB	Angle	3"×3"×3"	Grooved	0.34	0.7-10	5.5
BDV100SB	Straight	4"×4"×4"(3")	Grooved	0.55	0.7-10	9.9
BDV100AB	Angle	4"×4"×4"(3")	Grooved	0.55	0.7-10	9.9

DIMENSION

MODE	H (mm)	W (mm)	D (mm)	NOTE
BDV050SB	258	180	160	Grooved, BSP/NPT, convertible
BDV050AB	258	180	160	Grooved, BSP/NPT, convertible
BDV080SB	378	287	192	Drain: BSP/NPT, 2" Grooved convertible
BDV080AB	378	287	192	Drain: BSP/NPT, 2" Grooved convertible
BDV100SB	464	318	260	Drain: BSP/NPT, 3" Grooved convertible
BDV100AB	464	318	260	Drain: BSP/NPT, 3" Grooved convertible





BSV SERIES BACKFLUSHING CONTROL VALVES

BSV series backflushing control valve are 3-way single-chamber hydraulic drive diaphragm control valves with low-pressure seal and smooth flow change, it can be connected with sand media filter or disc filter into an automatic backwash filtration system, and it can also change the direction of flow in the water supply.





TYPICAL APPLICATIONS

Auto backflushing filtration system:

Assembled into a backflushing filtration system with sand media filter or disc filter.

Water supply system:

Being used in the water supply pipelines to reroute the water flow into angle or direct flow direction.

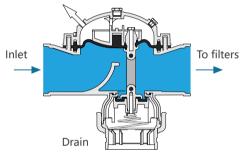


FEATURES

- Unique plastic spool assembly design with excellent tight sealing and strong corrosion resistance;
- Short valve travel, smooth changes of flow direction, eliminating mixing of water supply and waste water;
- PA material's valve body, corrosion, acid and alkali resistance, longer service life;
- The drive device can be detachable independently, convenient for on-line inspection and maintenance;
- Single chambered design with low pressure actuation to effectively protect the diaphragm;

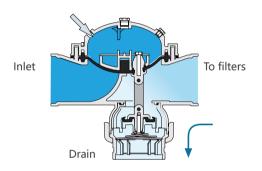
HOW IT WORKS

Ventilation control chamber



Filtering Model

Pressurized control chamber

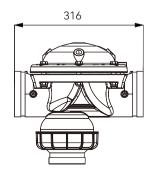


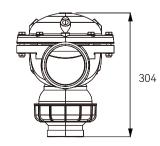
Backflushing Model

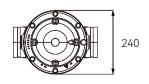
TECHNICAL DATA

MODEL	FLOW DIRECTION	CONNECTION SIZES	CONNECTIONS	VOLUME IN Chamber (L)	WORKING Pressure (Bar)	SIZES (mm)	WEIGHTS (kg)
BSV100S4	Straight	4"×4"×4"	Grooved	1.5	0.7-10	316*304*240	5.5
BSV100S3	Straight	4"×4"×3"	Grooved	1.5	0.7-10	316*304*240	5.5

DIMENSION







ACTUATOR VALVE (SOLENOID)

APPLICATIONS

• Agriculture: for all applications • Landscape: for all applications • Industry: water supply system

FEATURES AND BENEFITS

- 1. Actuator valve designed for reliable operation for all irrigation control systems.
- 2. The built-in actuator makes it easy to convert the electrical signal into water flow control is essential forthe hydraulic control valve.
- 3. Two versions: AC/DC Version and Latch version.
- 4. Water isolated actuator with waterproof design achieves longer service life.
- 5. Large water flow design (2.5mm command orifice) makes control valves respond quickly and are anti-blocking solid.
- 6. Manual override CLOSE-AUTO-OPEN.
- 7. The 3-way base designed for operating with a two-position three-way controlvalve.
- 8. Low energy consumption for maximal wire distance control.



AC/DC Version -BSV010A24-

SPECIFICATION

1. AC/DC version:

Working voltage: AC 24V or DC 24V

Inrush current: 70mA Holding current: 10mA

Latch version:

Working voltage: DC 12V Pulse width: 260ms Min. capacitor: 4700uF"

2. Working pressure: 0-10bar

3. Environment/Fluid temp. max: 60°C (140°F)

4. Filtration: 80mesh min

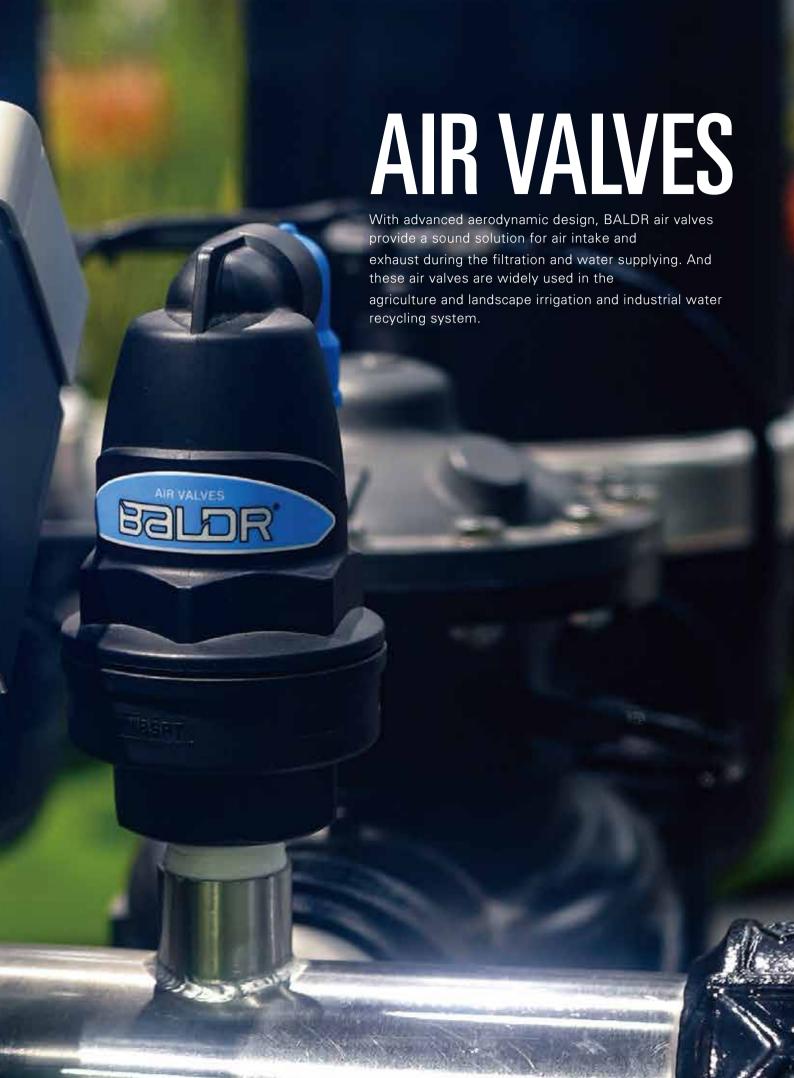
5. Hydraulic outlet: 1/8" female thread

6. Leads: 2x 1.5m

7. Red wire is positive and black wire is negative.



Latch Version -BSV010D12-



Balor

Control Valves

AIR VALVES

With advanced aerodynamic design, BALDR air valves provide a sound solution for air intake and exhaust during the filtration and water supplying. The air valves balance the air intake and exhaust to ensure that the pipes are sealed closely in low pressure. BALDR air valves are widely used in the agriculture and landscape irrigation and industrial water recycling system.



3 types of air valves are available

TECHNICAL SPECIFICATIONS

- Operating pressure: 0.2 to 10 bar / 2.9 to 145 psi
 0.2 to 16 bar / 2.9 to 230 psi
- Maximal operating temperature: 60°C / 140°F

V TYPE VACUUM VALVES

V-type vacuum valve can open the inlet valve quickly when a negative vacuum pressure is generated inside the system or pipeline, and a large amount of inlet air destroys the negative vacuum pressure formed inside the system or pipeline, the inlet valve is sealed under water pressure.

TYPICAL APPLICATION

The air valves break the vacuum formation and enhance the efficiency of draining of the filtration system.

FEATURE & ADVANTAGE

- Big size air inlet allowing large flow;
- PA and PP material with corrosion, acid and alkaline resistant features;
- Compact structure & simple design & durability;
- Easy installation.



When filtration system is under pressure:

When the filtration system works under pressure, air will be gathered at the bottom of chamber, then the float will move up to seal the inlet.

When filtration system is in empty status:

When the system or pipe is drained empty, negative pressure will be formed in the air valve. Meanwhile the float moves down to take in air against vacuum formation.

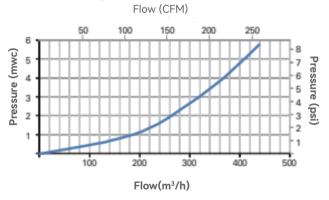


SPECIFICATION

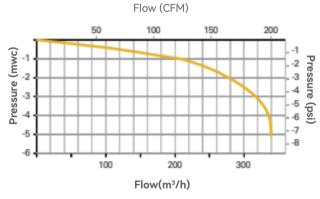
MODEL	CONNECTION SIZES	NOZZLE AREA	OPERATING PRESSURE	DIMENSIONS	WEIGHT
	(BSP/NPT)	(mm²)	(bar)	(mm)	(g)
BAV130V50	DN50 2"	804	0.2-10	131*72*80	185

PERFORMANCE

Discharge date - free air flow - 2"



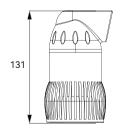
Inflow deta - free air flow -2"

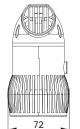


MATERIAL LIST

No	Description	Material
1	Body	PP
2	Float	PP

DIMENSION







K TYPE KINETIC VALVES

K-type kinetic valves are applicable to all kinds of irrigation systems. It evacuates air quickly during pipeline filling and takes in large volume air while draining. Adopted its advanced aerodynamic design and kinetic orifice, this valve provides excellent protection against vacuum formation and large volume air existing, with improved sealing under low pressure conditions.

TYPICAL APPLICATION

K type kinetic valves can prevent the air from accumulating or eliminate negative pressure applying in filtration pipelines, water supply system, nearby water meter & control valve and pipelines for residential area and industrial field.



FEATURE & ADVANTAGE

- Advanced aerodynamic design;
- Big inlet size allowing large flow;
- One-piece floating ball design ensures on time shutting of outlet while the high speed airflow occurs;
- Quality sealing prevents leakage under low pressure conditions (0.2 bar/2.9 psi);
- BA and PP material with corrosion, acid and alkaline resistant features and durable;
- Multi-installation sizes for various market demands.

HOW IT WORKS

When filtration system is filling:

During filling water into the pipeline, massive air will be evacuated from kinetic air intake & exhaust hole. The floating ball moves upwards to close the orifice after water flows into the chamber. With aerodynamic design and the anti-blow design, the floating ball ensures shutting of outlet on the right time while the high speed airflow occurs.

When filtration system is under pressure:

The kinetic valve keeps closing.

When the system or pipe is drained empty:

When negative pressure difference is formed, the air pushes the float downward. The kinetic valve opens and let air enter the air valve to avoid the formation of negative vacuum pressure inside the system.



MATERIAL LIST

BAV 100				
No	Material			
1	Body	PP		
2	Float	Foamed PP		

BAV 110, BAV120				
No	No Description			
1	Body	PA		
2	Float	Foamed PP		

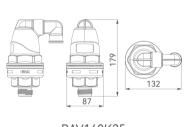
BAV 140, BAV160				
No	Description	Material		
1	Head (Blue)	PP		
2	Body	PA		
3	Float	Foamed PP		

SPECIFICATION

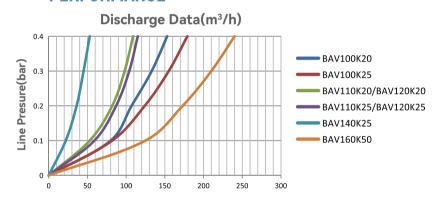
MODEL	CONNECTIONS BSP/NPT	ORIFICE SIZE (mm²)	WORKING PRESSURE (Bar)	DIMENSIONS (mm)	WEIGHT (g)
BAV100K20	DN20 3/4"	288	0.2-10	122*58*58	95
BAV100K25	DN25 1"	288	0.2-10	122*58*58	95
BAV110K20	DN20 3/4"	288	0.2-10	108*66*63	185
BAV110K25	DN25 1"	288	0.2-10	108*66*63	185
BAV120K20	DN20 3/4"	288	0.2-10	110*80*66	205
BAV120K25	DN25 1"	288	0.2-10	110*80*66	205
BAV140K25	DN25 1"	314	0.2-16	183*134*86	470
BAV160K50	DN50 2"	908	0.2-16	249*187*110	1052

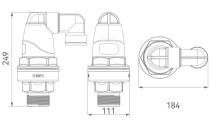
DIMENSION

PERFORMANCE



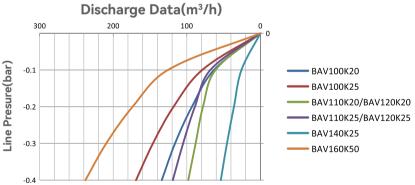
BAV140K25

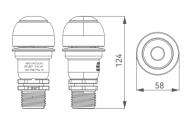




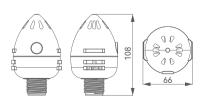
BAV160K50



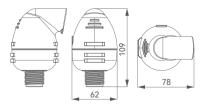




BAV100K20, BAV100K25



BAV110K20, BAV110K25



BAV120K20, BAV120K25

C-TYPE COMBINED VALVES

C-type combined valves are of high quality for various irrigation systems and operating conditions. When the system is filled with water, the air valve discharges a large amount of air from the pipe; When the system is under pressure, the air valve effectively discharges a small amount of air from the pipe; When the system is emptied, the air valve draws in a large amount of air. Adopted advanced aerodynamic design, the valve provides excellent protection against air accumulation and vacuum formation, with improved sealing in low pressure conditions.

TYPICAL APPLICATION

C type kinetic valves can prevent the air from accumulating or eliminate negative pressure apply in filtration pipelines, water supply system, nearby water meter & control valve and pipelines for residential area and industrial field.

FEATURES & ADVANTAGE

- Advanced aerodynamic design; Prevents premature closing, without disturbing air intake or discharge;
- One-piece floating ball design ensures ontime shutting of outlet while the high speed airflow occurs;
- Dynamic sealing prevents leakage under low pressure conditions (0.2 bar/2.9 psi);
- PA and PP material with corrosion, acid and alkaline resistant; lower maintenance and increased life span;
- Multi-installation sizes for various market demands.







When system is filling with water:

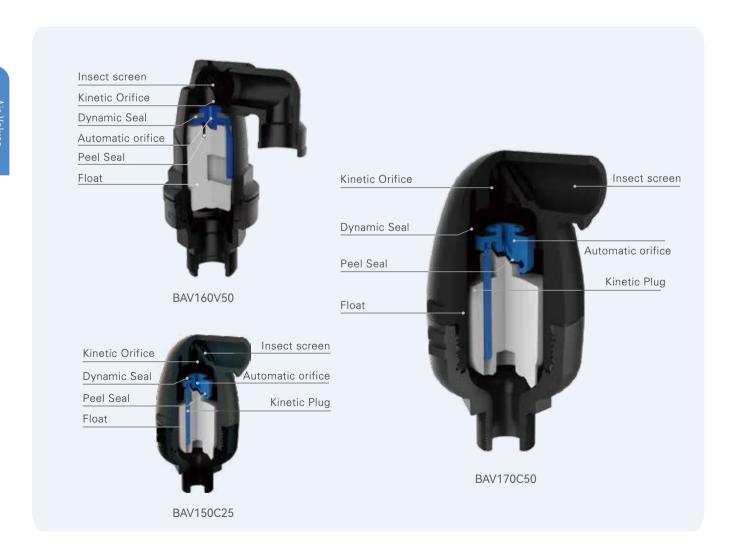
A large amount of air is discharged from the kinetic inlet and exhaust port. After the water entered the chamber, the float rises and closes the inlet and exhaust port. With aerodynamic design and the anti-blow design, the floating ball ensures shutting of outlet on the right time while the high speed airflow occurs.

Under Pressure:

When the system is under pressure, air accumulates above the valve cavity. When the amount of air increases, the level inside the valve drops and the float drops as well. At this time, the automatic micro-exhaust port opens to discharge the accumulated air. The level rises, the float rises, and then the automatic micro-exhaust port closes.

System draining:

When the system is emptied, a negative pressure difference is formed and the air pushes the float downward. With the kinetic inlet and exhaust port open, the air goes into the air valve to avoid the formation of a negative vacuum pressure in the system.

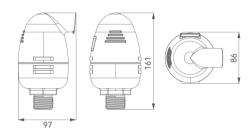


r Valves

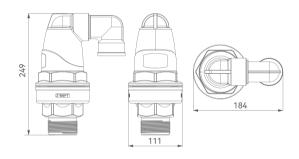
SPECIFICATION

MODEL	CONNECTIONS BSP/NPT	ORIFICE SIZE (mm²)	WORKING PRESSURE (Bar)	DIMENSIONS (mm)	WEIGHT (g)
BAV150C25	DN25 1"	454	0.2-10	162*97*86	488
BAV160C50	DN50 2"	908	0.2-16	249*187*110	1020
BAV170C50	DN50 2"	1200	0.2-10	255*130*120	1100

DIMENSION



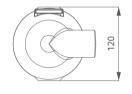
BAV150C25

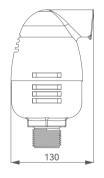


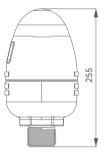
BAV160C50

MATERIAL LIST

No	Description	Material
1	Body	PP
2	Float	PP



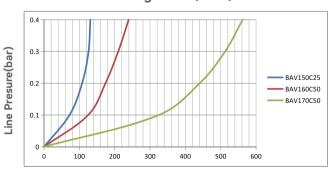




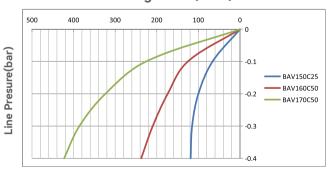
BAV170C50

PERFORMANCE

Discharge Data(m³/h)



Discharge Data(m³/h)





BAC601 SERIES AUTOMATIC BACKFLUSHING CONTROLLER

BALDR series automatic backflushing controller is equipped with built-in computer microchip. Automatic backflushing control system is made up of the solenoid valve, three-way backflushing valve, filter units, hydraulic sensor, alarm, pressure sustaining valve, water pump and so on, which are linked by the programming software through input and output signals of controller. It can automatically take turns to clean each filter. Meanwhile, it can uninterruptedly provide filtration water. So it achieves the purpose of unmanned automatic control. The controller is equipped with LCD which can show real-time operation status of equipment.



TYPICAL APPLICATION

It is suitable for auto backflushing sand media filter system and auto backflushing disc filter system.



THE MAIN FUNCTION

Modes of operation:

- Flushing triggered by pressure differential only
- Flushing triggered by time only
- * Manual flushing

User selectable parameters:

- Flushing time per station
- Differential pressure set point
- Flushing interval
- Dwell delay

66

- DP response time
- Main valve yes/no
- Looping limit-maximun backflushing cycles by DP

Logging:

• Number of cycles triggered manually

Alarms: (Only shown on the LCD screen)

- Endless looping of consecutive backflushing cycles
- Low Pressure indication
- Low battery power alert

Real time displayed information:

- Actual pressure differential value
- During the backflushing process showing the backflushing time and backflushing running station number
- Between the backflushing cycles showing the left time until next cycle

DP Sensor Calibration:

• Calibrate the DP sensor as zero with disconnecting port of inlet and outlet

FEATURES

- Integrated structure design, IPX4 waterproof
- Powered by DC 1.5V*4 AA batteries
- Output DC12V to control DC12V latch solenoids
- 6 stations can be available for flushing 1 to 6 filter units
- Battery life 6 months
- Built-in DP sensor

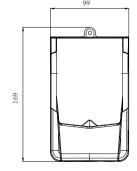
TECHNICAL DATA

MODEL	CONTROL	SUPPLY	STATION	SCREEN	WORKING
	ROUTE	Voltage	Output	DISPLAY	TEMPERATURE
BAC601D06	6	DC 1.5V x 4	DC12V (Latch)	LCD feild screen	0°C ~ 60°C

DIMENSION

Unit: mm







BAC901 SERIES AUTOMATIC BACKFLUSHING CONTROLLERS

BAC901 series automatic backflushing controller is equipped with built-in computer microchip. Automatic backflushing control system is made up of the solenoid valve, three-way backflushing valve, filter units, hydraulic sensor, alarm, pressure sustaining valve, water pump and so on, which are linked by the programming software through input and output signals of controller. It can automatically take turns to clean each filter online. Meanwhile, it can uninterruptedly provide filtration water. So it achieves the purpose of unmanned automatic control. The controller is equipped with LCD which can show real-time operation status of equipment.



TYPICAL APPLICATION

It is suitable for auto backflushing sand media filter system and auto backflushing disc filter system.

THE MAIN FUNCTION

Modes of operation:

- · Flushing triggered by pressure differential only
- · Flushing triggered by time only
- Manual flushing

User selectable parameters:

- Flushing time per station
- Differential pressure set point
- Flushing interval
- Dwell delay

Logging:

Number of cycles triggered manually

Alarms:

- Endless looping of consecutive backflushing cycles with Buzzer alarm
- Low Pressure indication
- Low battery power alert only for DC model

Real time displayed information:

- Actual pressure differential value
- During the backflushing process showing the backflushing time and backflushing running station number
- · Between the backflushing cycles showing the left time until next cycle

DP Sensor Calibration:

Calibrate the DP sensor as zero with disconnecting port of inlet and outlet

Extension:

Connecting external digital low pressure sensor & external alarm



- Main valve yes/no
- · Looping limit-maximun backflushing cycles by DP
- Pressure units BAR or PSI



FEATURES

- Modular structure design, IPX4 waterproof
- AC and DC version available
- DC version powered by DC 1.5V*4 AA batteries to control DC12V latch solenoids
- AC version powered by AC110V/220V to control AC 24V solenoids
- Modular structure design can be suitable for flushing 1-10 filter units
- Modular's quantity can be added or reduced flexibly by user according to the number of filter stations
- Built-in DP sensor

TECHNICAL DATA

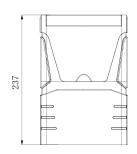
MODEL	CONTROL ROUTE	SUPPLY Voltage	STATION OUTPUT	SCREEN Display	WORKING Temperature
BAC901A02	2	AC 110V/220V	AC24V	LCD feild screen	0°C ~ 60°C
BAC901A04	4	AC 110V/220V	AC24V	LCD feild screen	0°C ~ 60°C
BAC901A06	6	AC 110V/220V	AC24V	LCD feild screen	0°C ~ 60°C
BAC901A08	8	AC 110V/220V	AC24V	LCD feild screen	0°C ~ 60°C
BAC901A10	10	AC 110V/220V	AC24V	LCD feild screen	0°C ~ 60°C
BAC901D02	2	DC 1.5V x 4	DC12V (Latch)	LCD feild screen	0°C ~ 60°C
BAC901D04	4	DC 1.5V x 4	DC12V (Latch)	LCD feild screen	0°C ~ 60°C
BAC901D06	6	DC 1.5V x 4	DC12V (Latch)	LCD feild screen	0°C ~ 60°C
BAC901D08	8	DC 1.5V x 4	DC12V (Latch)	LCD feild screen	0°C ~ 60°C
BAC901D10	10	DC 1.5V x 4	DC12V (Latch)	LCD feild screen	0°C ~ 60°C

		FUNCTION					INPUT		OUTPUT	
MODEL	TIMING Backflushing	DP Backflushing	MANUAL Backflushing	ALARM	LP PROTECTION	BACKFLUSHING COUNT	PRESSURE SENSOR	DP Sensor	PC Valve	ALARM
BAC901A02~ BAC901A10	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
BAC901D02~ BAC901D10	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

DIMENSION

Unit: mm







AUTO DISC FILTRATION SYSTEM

Baldr LP filtration equipment provides real water and labor saving. It is able to backwash with a low pressure of only 1.5 bar (21 PSI). It is used both in agriculture and industry and specially suitable for applications where high pressure is not available.



2" T, 3" T SERIES

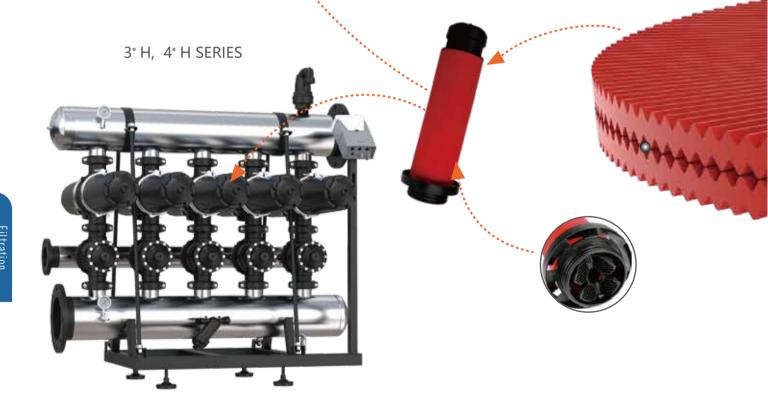


Ortex TECHNOLOGY AUTO DISC FILTRATION SYSTEM

BALDR automatic disc filtration system adopt the modular design, it well meets various market demands of different flow volume by providing T-type or H-type backwash filtration unit. Going with 2", 3" or 4" hydraulic backwash valve as well as built-in computer chip for automatic scheduling work, it works as an automatic unattended water filtration system, which ensures continuous water supply while discharging the sewage.

Flow rate range: 40 m³/h (176 gpm) to 640 m³/h (2816 gpm)

Filtration grades: 20 micron to 400 micron





FEATURE & ADVANTAGE

- Manufactured in Polyamide, resistance to chemical products and wear-resistant;
- A To achieve unmanned performance by chips built-in controller;
- Sompatible with different filter units according to different flow rate requirement;
- Auto backflushing procedure setting by the discrepancy of water pressure between inlet & outlet, manual setting is also available;
- Manifold made either in Stainless steel, PE or epoxy coated carbon steel;
- Minimum water consumption and low maintenance cost;
- Efficient water saving in auto backflushing with minimum pressure 1.5 bar and flow rate 2.1 L/s minimum.

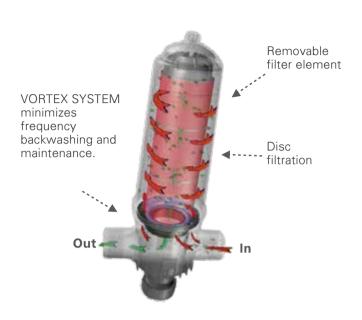


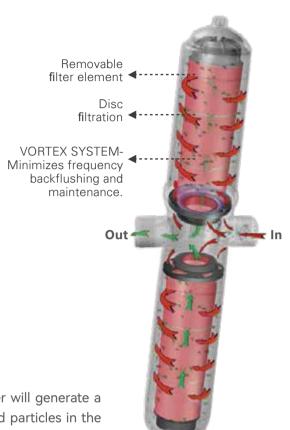
UNIQUE DISC TECHNOLOGY

Baldr uses micron level thin discs with specific colors. The discs are diagonally grooved in opposite directions on both sides. Different colors represent different groove depth, which make different filtration grades. A series of discs are stacked and compressed on a special designed spine in the filter. The grooves of any two adjacent discs with opposite direction pressed together, creating many small crossing space to keep dirt in unique filtration pass. During filtration process, the force of the spring along with the differential pressure firmly compresses these discs together and through multiple crossing points, it can provide distinctive in-depth filtration.



VORTEX DISC FILTRATION TECHNOLOGY





With the unique disc and vortex structure design, the filter will generate a centrifuge spiral flow of water, which moves away the solid particles in the water. The solid particles will be collected to the top of disc element with rotational flow. The vortex disc filter system ensure high efficient filtering and water-saving for the low frequency of backflushing.

MATERIAL

MANIFOLD	SS304 or PE
HOUSING	Reinforced Polyamide
FILTERING ELEMENT	PP grooved discs
CLAMP	Stainless steel 304
SEALING ELEMENT	NBR

Maximum pressure 10 bar / 145 psi Maximum temperature 60 °C / 140 °F

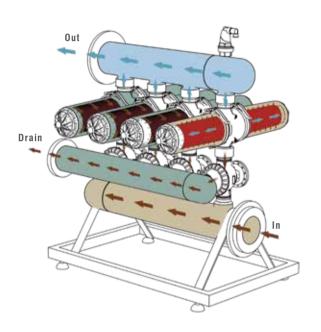
TECHNICAL DATA

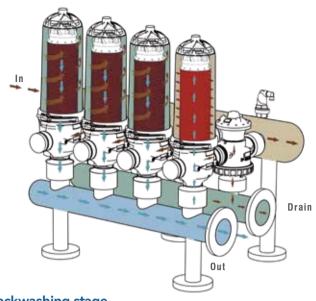
	BALDR VORTEX AUTOMATIC
Working Pressure	1.2/10 bar
Minimal Backflushing Pressure	1.5 bar (21 psi)

HOW IT WORKS

Filtration stage

Under the command of the controller, the dirty water flow into to the filters in filtration stage via the backflushing control valves, then the Vortex and the disc keeps the particles in the grooves of the discs, the clean water flow into the outlet .





Backwashing stage

Under the command of the controller, only one of filter starts backflushing at a time. The backflushing control valves change the water flow direction, then the filtered water is introduced in reverse through the filtering element which decompresses the stack of discs for the backflushing procedure. The solids are expelled from the discs and discharged through the drainage manifold. The filtration process starts again after finishing the backflushing stage. The filter will start backflushing successively until all filters finish cleaning.



FILTRATION GRADES

Six colors are used to identify the six filtration grades of the discs.

micron (40 mesh)

micron (75 mesh)

micron (120 mesh)

micron (150 mesh)

micron (300 mesh)

micron (750 mesh)

SYSTEM SELECTION FOR DIFFERENT FLOW RATE

Modular design provides a wide range models for various flow requirement. BALDR has T type auto filtration system and H type auto filtration system available.

2" SERIES T TYPE AUTO DISC FILTRATION SYSTEM

2" series T type auto disc filtration system is composed of unit BAF050TB with 2" backflushing control valve, which can be set by controller for automatic scheduling work as an unattended system.



TYPICAL APPLICATION

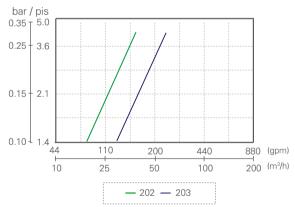
Agriculture irrigation: applicable to small scale agriculture irrigation, removing the particles of water from the lake and river etc. Protecting the sprayers of the irrigation system.

Garden irrigation: provide solutions for the water recycling of garden irrigation or water landscape, ensure the water quality and protect the sprayer and the dripper.

Industrial filtration: provide solutions for low flow water recycling in industrial application.

HEAD LOSS





Note: The flow rate will fluctuate with different water quality.

MODULAR BAF050TB SPECIFICATION

	MODULAR MODEL		UNIT		
	Filtering Surface		cm²		
	Filtration Grades	400 200 40 80	130 100 120 150	50 300	micron mesh
EB	Good	28 123	24 106	20 88	m³h gpm
F WA	Average	24 106	20 88	16 70	m³h gpm
QUALITY OF WATER	Poor	20 88	16 70	12 53	m³h gpm
QUA	Very Poor	14 62	8 35	4 18	m³h gpm



2" BAF050TB

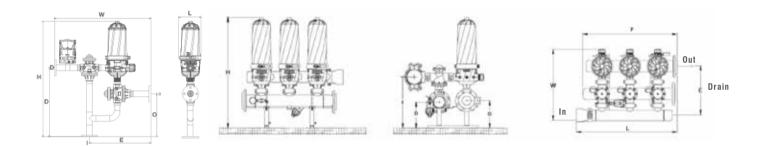


2" T TYPE AUTO FILTRATION SYSTEM

MODEL	Unit No.	FILTERING SURFACE (cm²)	MANIFOLD (in/mm)	CONNECTION	MAX FLOW (m³/h) (gpm)	WEIGHT (kg)
BSS201T2	1	1020	2 50	Grooved/Flange	20 88	29.2
BSS202T3	2	2040	3 80	Grooved/Flange	40 176	52
BSS203T4	3	3060	4 100	Grooved/Flange	60 284	87

DIMENSION

MODEL	L (mm) (in)	W (mm) (in)	H (mm) (in)	l (mm) (in)	O (mm) (in)	D (mm) (in)	E (mm) (in)
BSS201T2	235 9.25	955 37.6	115 4.52	465 18.3	426 16.8	682 26.9	608 23.9
BSS202T3	750 29.5	760 29.9	890 35	425 16.7	190 7.5	170 6.7	495 19.5
BSS203T4	1025 40.4	800 31.5	920 36.2	455 17.9	205 8.1	208 8.1	505 19.5



BES201T2

3" SERIES T TYPE AUTO DISC FILTRATION SYSTEM

3"series T type atuo disc filtration system is composed of unit BAF080TB with 3" backflushing control valve, which can be set by controller for automatic scheduling work as an unattended system.

TYPICAL APPLICATION

Agriculture irrigation: applicable to medium scale agriculture irrigation, removing the particles of water from the lake and river etc. Protecting the sprayers of the irrigation system.

Garden irrigation: provide solutions for the water recycling of garden irrigation or water landscape, ensure the water quality and protect the sprayer and the dripper.

Industrial filtration: provide solutions for low flow water recycling in industrial application.



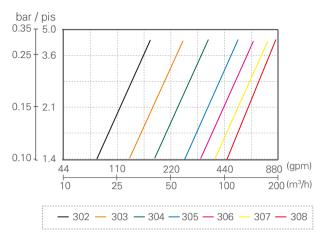
3" BAF080TB

MODULAR BAF080TB SPECIFICATION

	MODULAR MODEL	BAF0	UNIT	
	Filtering Surface	14	92	cm ²
	Filtration Grades	400 200 40 75	130 100 120 150	micron mesh
VTER	Good	36 158	32 140	m³h gpm
QUALITY OF WATER	Average	32 140	30 131	m³h gpm
ALITY	Poor	26 114	24 106	m³h gpm
ď	Very Poor	16 70	14 62	m³h gpm

HEAD LOSS

3" T TYPE SYSTEM(130 Micron/ 120 Mesh)



Note: The flow rate will fluctuate with different water quality.

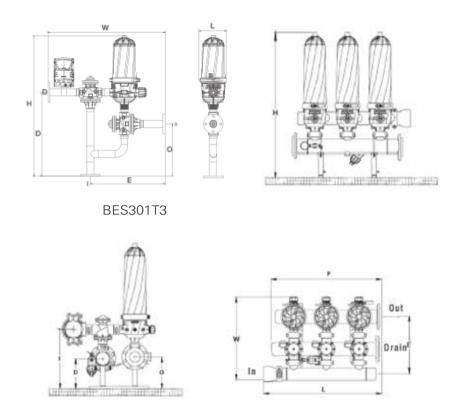
BSS 3" T TYPE AUTO DISC FILTRATION SYSTEM SPECIFICATION

MODEL	UNIT NO.	FILTERING SURFACE (CM²)	MANIFOLD (in) (mm)	CONNECTION	MAX FLOW (m³/h) (gpm)	WEIGHT (kg)
BSS301T3	1	1492	3 80	Grooved/Flange	32 141	45
BSS302T3	2	2984	3 80	Grooved/Flange	64 282	68
BSS303T4	3	4476	4 100	Grooved/Flange	108 475	102
BSS304T6	4	5968	6 150	Grooved/Flange	144 634	145
BSS305T6	5	7460	6 150	Grooved/Flange	180 792	234
BSS306T8	6	8952	8 200	Grooved/Flange	216 951	234
BSS307T8	7	10444	8 200	Grooved/Flange	252 1109	260
BSS308T8	8	11936	8 200	Grooved/Flange	288 1268	288

DIMENSION

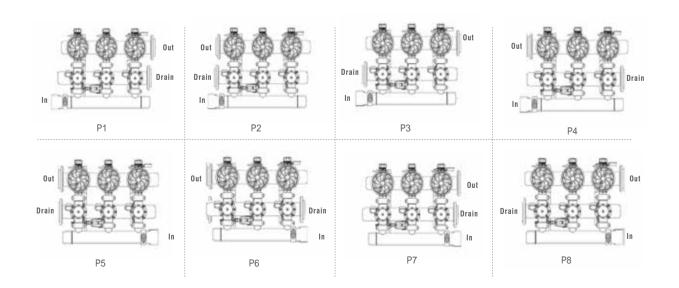
MODEL	L (mm) (in)	W (mm) (in)	H (mm) (in)	l (mm) (in)	O (mm) (in)	D (mm) (in)	E (mm) (in)
BSS301T3	235 9.3	955 37.6	1452 57.2	0 0	572 22.5	868 34.2	682 26.9
BSS302T3	1025 40.4	870 34.3	1030 40.6	470 18.5	205 8.1	160 6.3	570 22.4
BSS303T4	1025 40.4	870 34.3	1055 41.5	470 18.5	205 8.1	160 6.3	570 22.4
BSS304T6	1340 52.8	925 36.4	1165 45.9	565 22.2	285 11.2	270 10.6	600 23.6
BSS305T6	1615 63.6	925 36.4	1165 45.9	565 22.2	285 11.2	270 10.6	600 23.6
BSS306T8	1895 74.6	980 38.6	1205 47.4	615 24.2	305 12	310 12.2	630 24.8
BSS307T8	2170 85.4	980 38.6	1205 47.4	615 24.2	305 12	310 12.2	630 24.8
BSS308T8	2445 96.3	980 38.6	1205 47.4	615 24.2	305 12	310 12.2	630 24.8

DIMENSION



2" 3" SERIES T TYPE AUTO DISC FILTRATION SYSTEM VARIOUS INSTALLATION DIRECTION

The direction of outlet, inlet and drain can be chosen according to the installed situation.



3" H TYPE AUTO DISC FILTRATION SYSTEM

3" series H type auto disc filtration system is composed of unit BAF080HB with 3" backflushing control valve, which can be set by controller for automatic scheduling work as an unattended system.



TYPICAL APPLICATION

Agriculture irrigation: applicable to large scale agriculture irrigation, removing the particles of water from the lake and river etc. Protecting the sprayers of the irrigation system.

Garden irrigation: provide solutions for the water recycling of garden irrigation or water landscape, ensure the water quality and protect the sprayer and the dripper.

Industrial filtration: provide solutions for high flow water recycling in industrial application.

MODULAR BAF080HB SPECIFICATION

	MODULAR		UNIT				
	Filtering Surface		2040				
	Filtration Grades	400 200 40 80	130 100 120 150	50 300	micron mesh		
IER	Good	50 220	45 198	38 167	m³h gpm		
F WAT	Average	46 202	40 176	34 150	m³h gpm		
QUALITY OF WATER	Poor	36 158	32 141	28 123	m³h gpm		
OU/	Very Poor	27 119	22 97	18 79	m³h gpm		



3" BAF080HB



BAS 3" H TYPE AUTO DISC FILTRATION SYSTEM SPECIFICATION

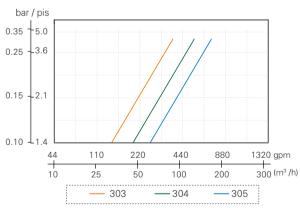
MODEL	UNIT NO.	FILTERING SURFACE (cm²)	MANIFOLD (in) (mm)	CONNECTION	MAX FLOW (m³/h) (gpm)	WEIGHT (kg)
BSS303H6	3	6120	6 150	Grooved/Flange	135 594	137
BSS304H6	4	8160	6 150	Grooved/Flange	180 792	164
BSS305H8	5	10200	8 200	Grooved/Flange	225 990	227

DIMENSION

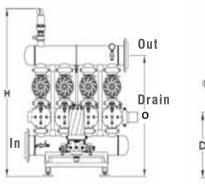
MODEL	L (mm) (in)	W (mm) (in)	H (mm) (in)	l (mm) (in)	O (mm) (in)	D (mm) (in)	E (mm) (in)
BSS303H6	1025 40.4	925 36.4	1510 59.4	365 14.4	1275 50.2	650 25.6	310 12.2
BSS304H6	1340 52.8	925 36.4	1510 59.4	365 14.4	1275 50.2	650 25.6	310 12.2
BSS305H8	1620 63.8	925 36.4	1630 64.2	365 14.4	1275 50.2	650 25.6	310 12.2

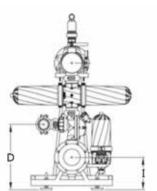
HEAD LOSS

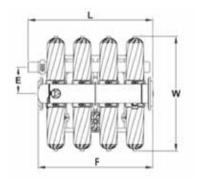
3" H TYPE SYSTEM(130 Micron / 120 Mesh)











4"SERIES H TYPE AUTO DISC FILTRATION SYSTEM

4"series H type auto disc filtration system is composed of unit BAF100HB, matching 4" backflushing control valve, which can be set by controller for automatic scheduling work as an unattended system.

TYPICAL APPLICATION

Agriculture irrigation: applicable to large scale agriculture irrigation, removing the particles of water from the lake and river etc. Protecting the sprayers of the irrigation system.

Garden irrigation: provide solutions for the water recycling of garden irrigation or water landscape, ensure the water quality and protect the sprayer and the dripper.

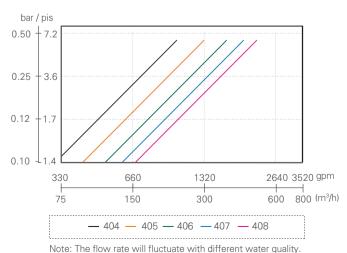
Industrial filtration: provide solutions for high flow water recycling in industrial application.

MODULAR BAF100HB SPECIFICATION

	MODULAR MODEL		UNIT		
	Filtering Surface		cm ²		
	Filtration Grades	400 200 40 75	130 100 120 150	50 300	micron mesh
TER	Good	70 308	64 282	34 150	m³h gpm
F WA	Average	63 277	59 260	28 123	m³h gpm
QUALITY OF WATER	Poor	51 224	47 207	20 88	m³h gpm
QUA	Very Poor	32 141	28 123	14 62	m³h gpm

HEAD LOSS

4" H TYPE SYSTEM(130 Micron / 120 Mesh)





4" BAF100HSB

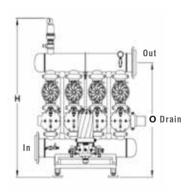


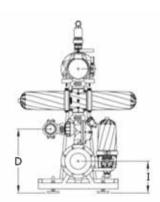
4" H TYPE AUTO DISC FILTRATION SYSTEM SPECIFICATION

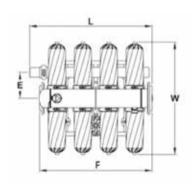
MODEL	UNIT NO.	FILTERING SURFACE (cm²)	MANIFOLD (in) (mm)	CONNECTION	MAX FLOW (m³/h) (gpm)	WEIGHT (kg)
BSS404H8	4	11936	8 200	Grooved/Flange	256 1127	252
BSS405H10	5	14920	10 250	Grooved/Flange	320 1408	329
BSS406H10	6	17904	10 250	Grooved/Flange	384 1690	394
BSS407H10	7	20888	10 250	Grooved/Flange	448 1972	440
BSS408H10	8	23872	10 250	Grooved/Flange	512 2254	491

DIMENSION

MODEL	L (mm) (in)	W (mm) (in)	H (mm) (in)	l (mm) (in)	O (mm) (in)	D (mm) (in)	E (mm) (in)
BSS404H8	1340 52.8	1200 47.2	1665 65.6	335 13.2	1325 52.2	640 25.2	380 15.0
BSS405H10	1640 64.6	1200 47.2	1745 68.7	355 14.0	1395 54.9	680 26.8	380 15.0
BSS406H10	1915 75.4	1200 47.2	1745 68.7	355 14.0	1395 54.9	680 26.8	380 15.0
BSS407H10	2190 86.2	1200 47.2	1745 68.7	355 14.0	1395 54.9	680 26.8	380 15.0
BSS408H10	2465 97.0	1200 47.2	1745 68.7	355 14.0	1395 54.9	680 26.8	380 15.0

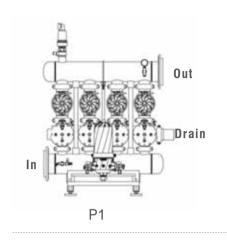


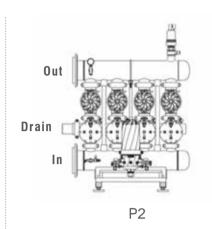


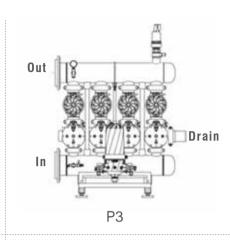


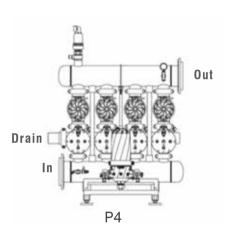
3" 4" SERIES H TYPE AUTO DISC FILTRATION SYSTEM VARIOUS INSTALLATION DIRECTION

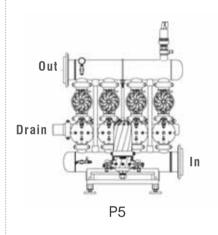
The direction of outlet, inlet, drain can be chosen according to the installed situation.

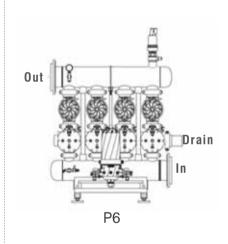


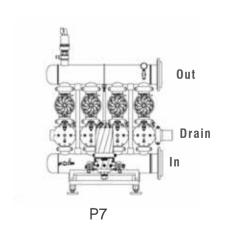


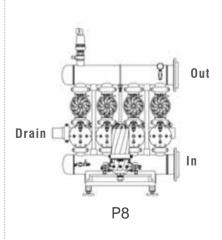












SAND MEDIA FILTRATION SYSTEM

BALDR sand media filtration system is composed of one or more standard filter sand tank units. The filter media is used to effectively remove suspended material and reduce turbidity.



SAND MEDIA FILTRATION SYSTEM

BALDR sand media filtration system is composed of one or more standard sand filter tanks. The filter media is used to effectively remove suspended objects and reduce turbidity, which can be used in conjunction with the high-precision disc filter or screen filter to achieve the perfect filtering effect. The system is equipped with a three-way backflushing control valve, and the automatic controller can realize multiple sand tanks to flush each other and continuously supply water forming an automatic water filtration system. Each tank is equipped with a unique water distributor and a water collector. The filtering sand layer works smoothly, with uniform filtered water and large water flow.



TYPICAL APPLICATION

Irrigation water: irrigation and fertilization, landscaping, municipal greening, and greening of golf courses.

Industrial water: the purification filtration of the recycled water in production.

Landscape leisure: water filtration for the fountains, water scenes, water curtain, swimming pool and water park, etc.

Raw water treatment: river water, lake water, seawater, and other surface water filtration.



FEATURES AND ADVANTAGE

- High filtration rate, low-pressure loss, large filtration water and especially the filtration effect for suspended floating objects in water;
- Modular design can be installed according to the flow requirement;
- The system filter unit has various specification from 16 (400mm) to 60 (1500mm);
- Carbon steel material is treated by phosphating and electrostatic spraying, and the material is good corrosion resistance; Stainless steel is also available;
- The system controller has a built-in computer chip, which can realize unattended automatic control;
- The dirt and impurities can be automatically backflushing online, and each unit can take turns to clean and filter the water supply continuously;
- The quartz sand or garnet can be used as the filter media, which can be selected according to the water quality. The minimum diameter can be selected as 0.16 mm;
- It is convenient to observe the internal situation by access port, and it also can be easy to clean and operate maintenance at any time.

THE COMPOSITION OF FILTRATION SYSTEM

The filter system consists of a filter unit, a three-way backflushing control valve, automatic backflushing controller, and other major components, which connect with a Y-type filter, air valve, pressure gauge, manifold, support frame, and other spare parts. The filter unit is filled with the appropriate filter media.



FILTER MEDIA SIZE AND USE LEVEL

FILTERING ACCURACY	BOTTOM SAND (cover water collector)	UPPER SAND (12-38cm thickness)
Normal Filtration	1.2-2.0mm	1.2-2.0mm
Fine Filtration	1.2-2.2mm	0.5-0.8mm

SINGLE-CHAMBER CONFIGURATIONS

BALDR single-chamber sand media filtration system adopts octagonal collecting design, and its unique precision gap can be collected filtered water evenly. When backflushing, a special eddy current is formed. With the severe friction of sand particles, it will be cleaned more thoroughly, and is not easily discharged through the water distributor. The single-chamber design makes the anti-rust treatment better. The outlet design at the bottom makes the system structure more compact and reduces the application space.





DOUBLE-CHAMBER CONFIGURATIONS

BALDR double-chamber sand media filter system on a number of water collectors evenly arranged, smooth and rapid flow of water. Backflush, the sand in the upper and lower water pressure under the force, repeated friction stripping contaminants. Side of the watering, It is easy to maintain the latter part.

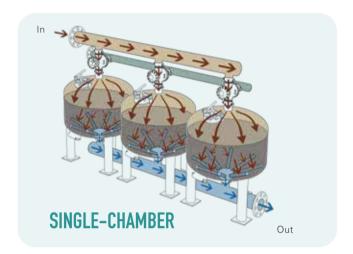


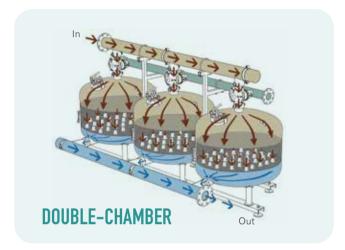


HOW IT WORKS

Filtration State

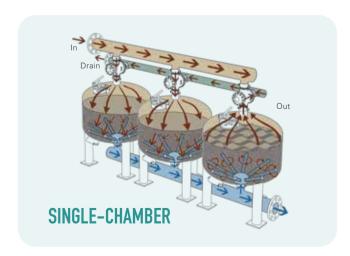
Under the control of the automatic controller, when all of the filter tanks units are in the filtering mode, the sewage enters at the high pressure, and the water is evenly distributed through the unique water distributor to keep the filter sand layer stable. The sewage passes through the filler layer in a laminar flow state and impurities are trapped in the filler layer. The filtered water passes through the collectors distributed at the bottom and is evenly collected and then discharged out through the outlet. Advection filtration allows the filter to operate at high flow rates.

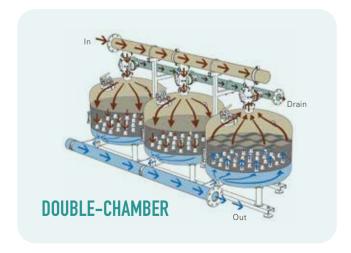




Backflushing State

As the impurities accumulated in the filter media, the pressure loss increases continuously. When the pressure difference increases to a certain set value or reaches the set cleaning time, the system will automatically switch to the backflushing state. The pressurized water enters the filter media through the water collecting device and then it will be flushed to cause trapped impurities to fall down and discharge through the sewage outlet. The backflushing ends in 2 minutes, the backflushing control valve resumes the filtration state, and the flushed filter tank continues to enter the filtration state. The automatic controller issues an instruction to start the backflushing process of the next filter tank until all of the filter tanks are backflushed.



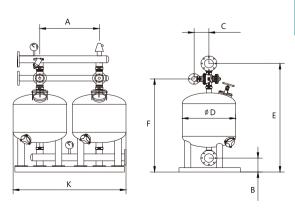


Sand Media Filte

SINGLE-CHAMBER CONFIGURATIONS



MODEL	SAND Cylinder Number	SANI CYLINE DIAMET (mm/i	DER CONTROL TER VALVES		OUTLET & DIAMET	ER	DRAIN OUTLET DIAMETER (in)	BACK FLUSHING FLOW RATE (m³/h)	FILTERING SURFACE (m²)	MAX WORKING Pressure (Bar)	FLOW RATE RANGE (m³/h)
BBS242S33	2	600	24"	3″	DN80	3"	3″	15	0.6	10	30-50
BBS282S33	2	700	28"	3″	DN80	3"	3″	20	0.8	10	50-70
BBS322S43	2	800	32"	3″	DN100	4"	3″	25	1.0	10	60-80
BBS362S43	2	900	36"	3″	DN100	4"	3″	35	1.2	10	90-100
BBS482S63	2	1200	48"	3″	DN150	6"	3″	50	2.2	10	140-180
BBS483S84	3	1200	48"	3″	DN200	8″	4"	50	3.3	10	150-250
BBS484S84	4	1200	48"	3″	DN200	8″	4"	50	4.4	10	200-350



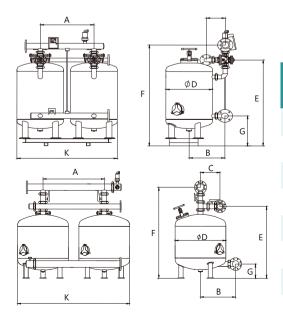
MODEL	D (mm)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	K (mm)
BBS242S33	600	700	130	240	1450	1215	1330
BBS282S33	700	800	140	240	1580	1305	1520
BBS322S43	800	900	140	300	1620	1345	1720
BBS362S43	900	1000	140	300	1660	1385	1920
BBS482S63	1200	1400	170	300	1925	1593	2620
BBS483S84	1200	1400	200	380	2005	1648	4020
BBS484S84	1200	1400	200	380	2025	1750	5420

Sand Media Filter

DOUBLE-CHAMBER CONFIGURATIONS



MODEL	SAND Cylinder Number	SAN CYLINI DIAME (mm/	DER Ter	CONTROL VALVES (in)	OUTLET & INLET DIAMETER (mm/in)		DRAIN OUTLET DIAMETER (in)	BACK FLUSHING FLOW RATE (m³/h)	FILTERING SURFACE (m²)	MAX Working Pressure (Bar)	FLOW RATE RANGE (m³/h)
BSS242D33	2	600	24"	3″	DN80	3″	3″	25	0.58	10	30-50
BSS302D43	2	800	30"	3″	DN100	4"	3″	35	0.91	10	40-70
BSS362D43	2	900	36"	3"	DN100	4"	3″	45	1.31	10	60-100
BSS363D63	3	900	36"	3″	DN150	6"	3″	60	1.96	10	80-120
BSS402D63	2	1000	40"	3″	DN150	6"	3″	65	1.62	10	90-130
BSS403D63	3	1000	40"	3″	DN150	6"	3″	65	2.43	10	100-150
BSS482D84	2	1200	48"	3″	DN200	8″	4"	80	2.32	10	120-180
BSS483D84	3	1200	48"	3″	DN200	8″	4"	80	3.18	10	150-270



MODEL	D (mm)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)	K (mm)
BSS242D33	600	700	2200	243	1600	1800	135	1300
BSS302D43	800	900	2220	256	1650	1850	160	1700
BSS362D43	900	1100	2220	256	1650	1850	160	2000
BSS363D63	900	3100	2270	281	1690	1970	210	3100
BSS402D63	1000	1200	2270	281	1690	1970	210	2200
BSS363D63	1000	1200	2270	281	1690	1970	210	3400
BSS482D84	1200	1400	2320	308	1750	2080	260	2600
BSS483D84	1200	1400	2320	308	1750	2080	260	4000









































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