



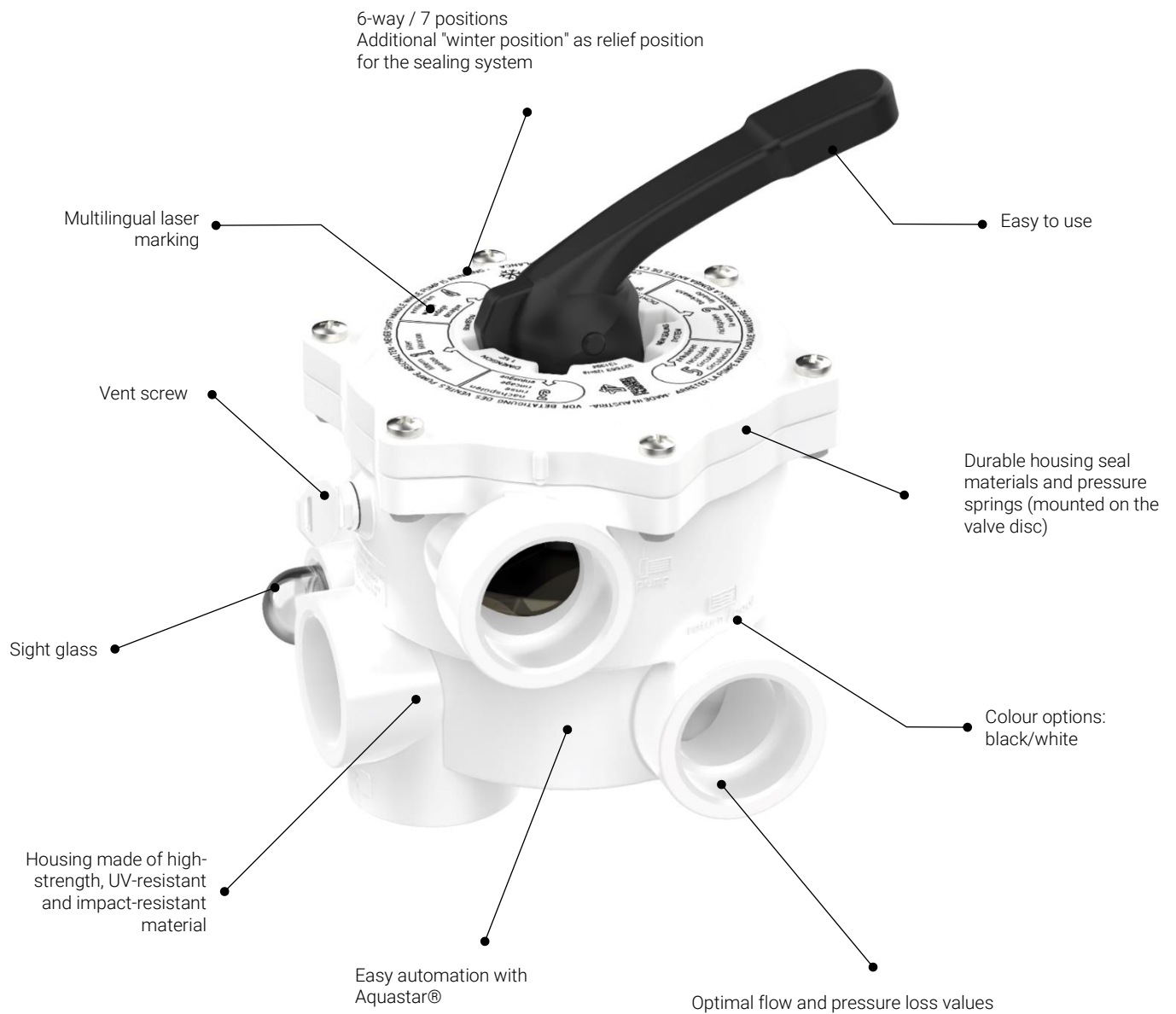
**6-way
Backwash
valve**

V6

ABS

DATA SHEET

6-way backwash valve



Overview

General

Materials	Housing material	ABS
	Seal material	NBR / TPE
Operating pressure	1½" / 2" / 3"	MOP 3.5

Side mount

Dimensions	1 1½" / 2" / 3"	
Connection variants	Solvent socket Threaded socket	Metric / ASTM BSP / NPT

Top mount

Dimensions	1 1½" / 2"	
Connection variants	Threaded socket	BSP / NPT
Flange variants	Clamping flange Screw flange	
Basket connection	1½" (metric / imperial) 2" (metric / imperial)	50 mm / 48.4 mm 63 mm / 60.325 mm

Product range overview



Side mount
Without piping



Top
Mount



Side mount incl. piping set



Side mount with
Aquastar®

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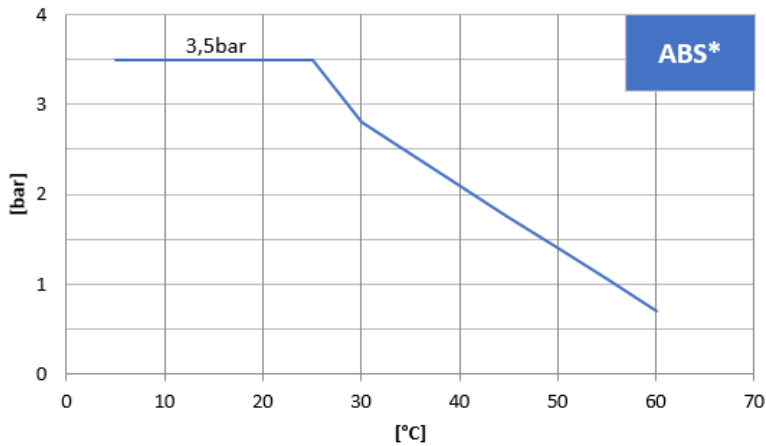


Accessories / Spare parts

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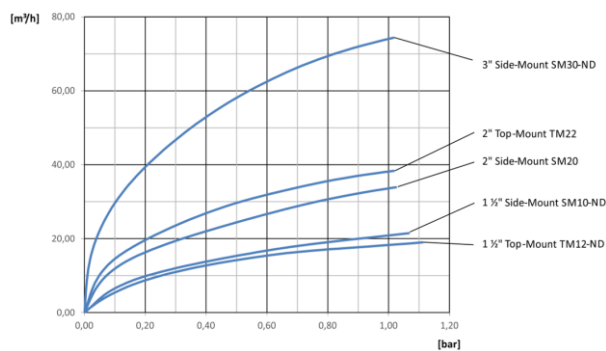
Technical data

Pressure-temperature diagram

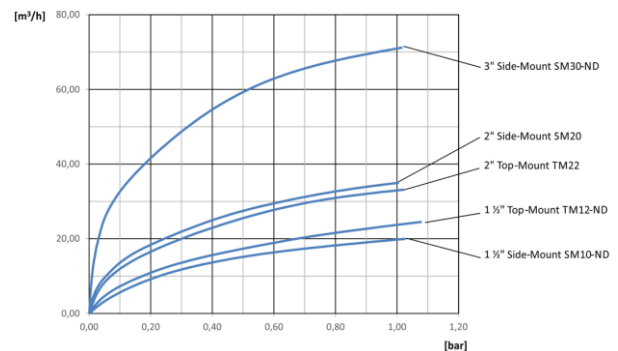


* Pressure-temperature diagram refers only to ABS housing material, medium water

Pressure loss



Valve position Filtering



Valve position backwashing

KV value table

Valve position Filtering

Pressure loss	1 1/2" SM	1 1/2" TM	2" SM	2" TM	3" SM
0.001 bar	0.57	0.64	1.04	1.20	2.34
1.0 bar	18.00	20.30	33.01	38.00	74.0

(figures in m³/h)

Valve position Backwashing

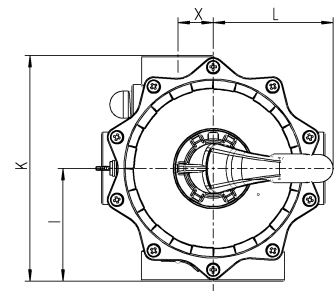
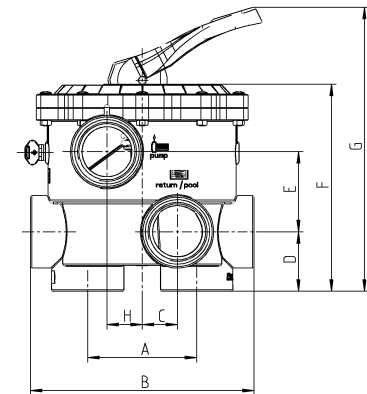
Pressure loss	1 1/2" SM	1 1/2" TM	2" SM	2" TM	3" SM
0.001 bar	0.61	0.76	1.11	1.04	2.25
1.0 bar	19.42	24.18	35.00	33.00	71.00

(figures in m³/h)

Dimensions

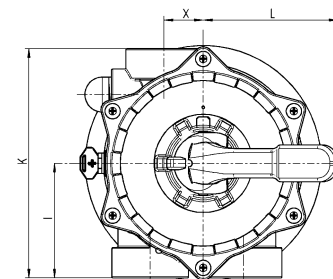
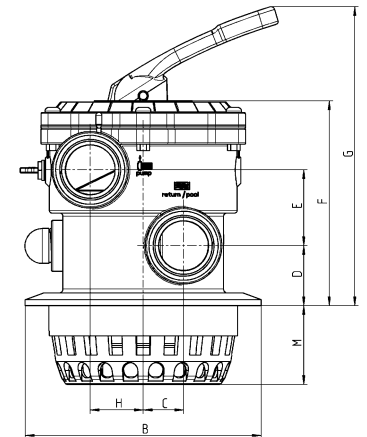
Side mount (dimensions in mm)

Dimension	1 ½"	2	3
A	99	110	170
B	180	227	329
C	31.5	36	50
D	48.5	60	85.5
E	60	81	110
F	165	210	304
G	247	296	434
H	41.5	36	50
I	87.5	115	165
K	175	230	330
L	135.5	135.5	206
X	30	36	50



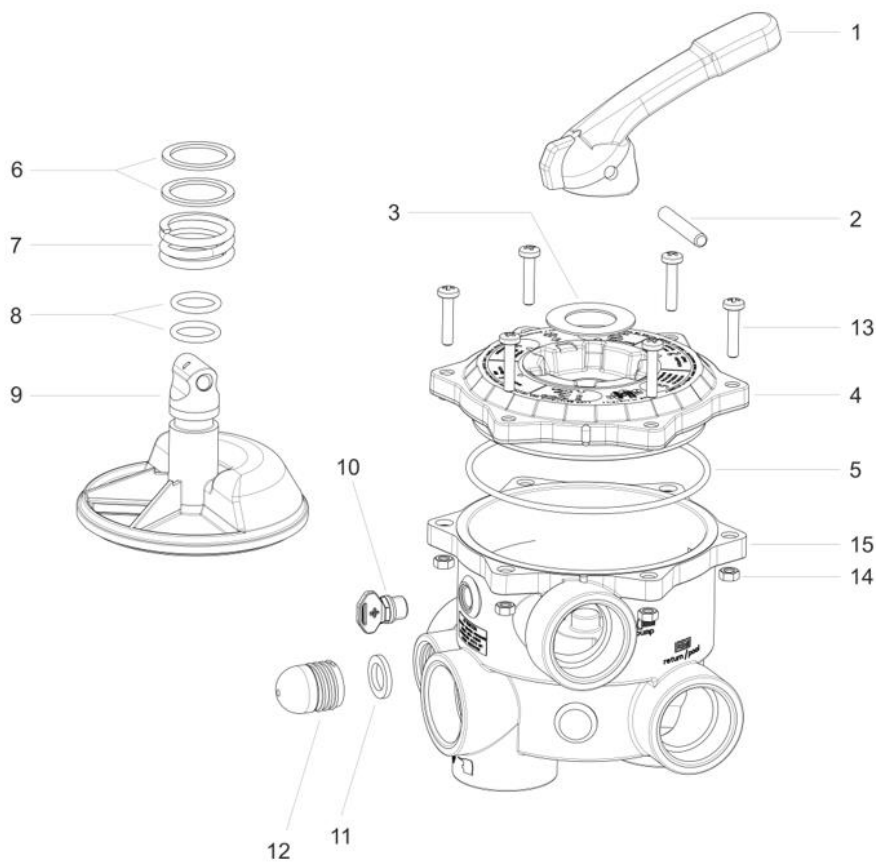
Top mount (dimensions in mm)

Dimension	1 ½"	2
A	130	125
B	<i>See flange variants</i>	<i>See flange variants</i>
C	31.5	36
D	38	43
E	59.5	81
F	235.5	280
G	245	292
H	41.5	36
I	90	114.5
K	180	229
L	135.5	135.5
M	46	57
X	30	36



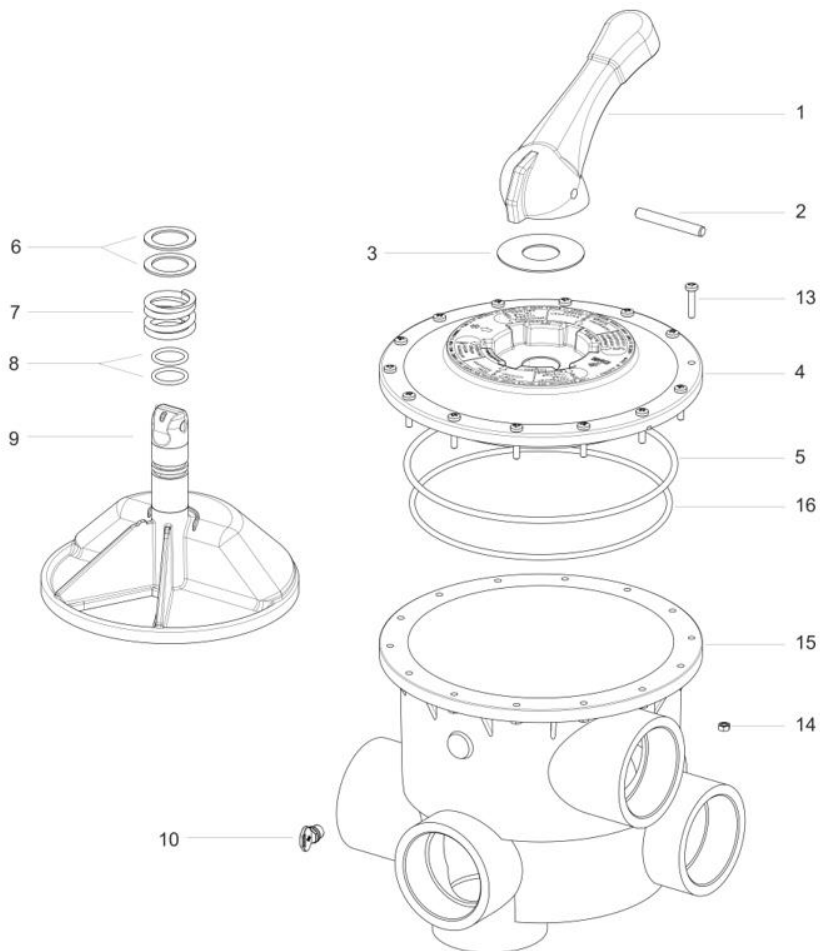
Exploded view

Side mount 1 ½" / 2"



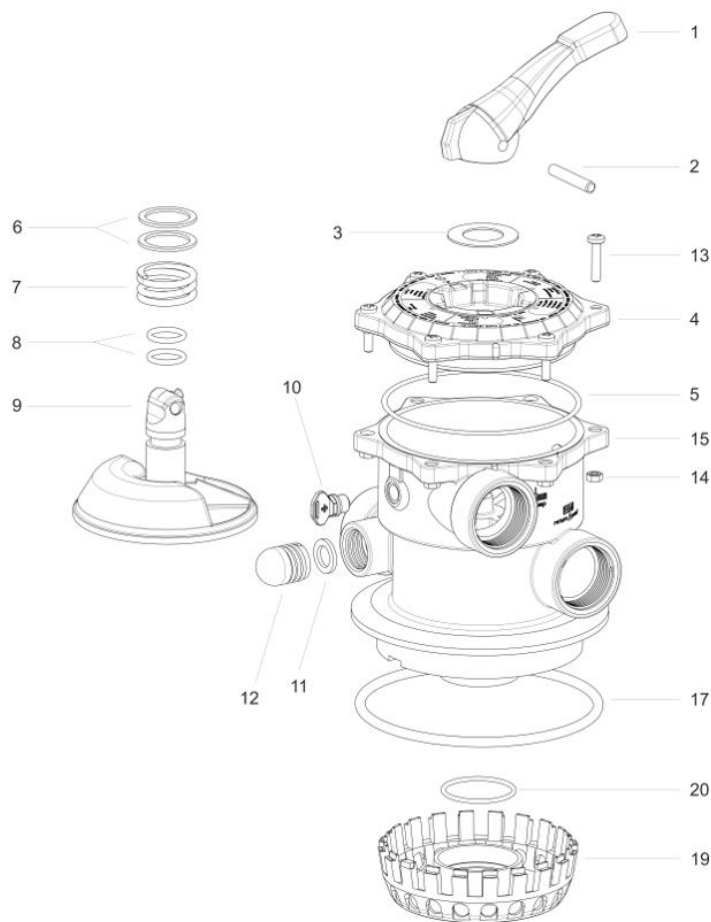
No	Designation	Material
01.	Handle	ABS
02.	Plastic bolt	PA
03.	POM disc	POM natural
04.	Cover	ABS
05.	O-ring	NBR
06.	POM discs	Natural POM
07.	Spring	Stainless steel 1.4401
08.	O-rings	NBR
09.	Valve disc incl. star seal	ASA-GF natural / TPE
10.	Vent screw + O-ring	PBT / NBR
11.	Flat seal	NBR
12.	Sight glass	PC transparent
13.	Screw	Stainless steel A2
14.	Nut	Stainless steel A4
15.	Housing	ABS

Side mount 3"



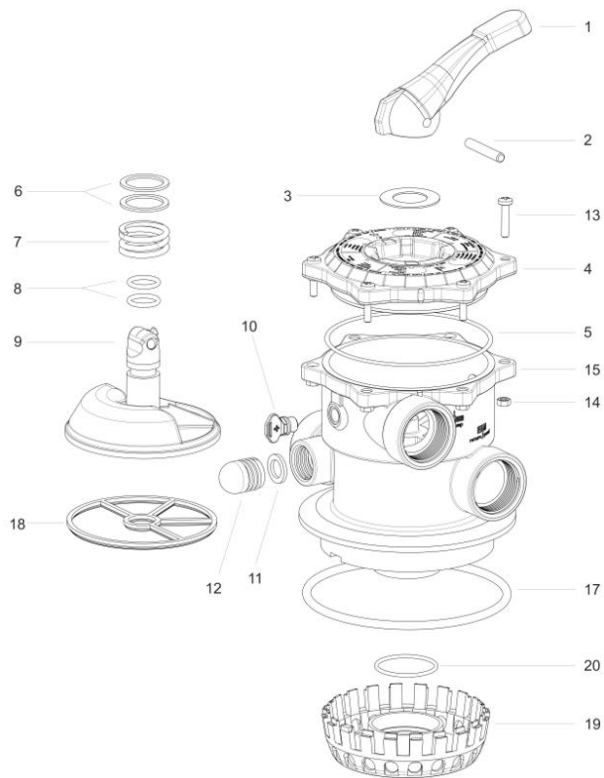
No	Designation	Material
01.	Handle	ABS
02.	Steel bolt	Stainless steel 1.4305
03.	POM disc	POM
04.	Cover	ABS
05.	O-ring	NBR
06.	POM discs	POM
07.	Spring	Stainless steel 1.4401
08.	O-rings	EPDM
09.	Valve disc incl. star seal	ASA-GF natural / EPDM
10.	Vent screw + O-ring	PBT / NBR
13.	Screw	Stainless steel A2
14.	Nut	Stainless steel A4
15.	Housing	ABS
16.	O-ring	EPDM

Top mount 1 ½"



No.	Designation	Material
01.	Handle	ABS
02.	Plastic bolt	PA
03.	POM disc	POM
04.	Cover	ABS
05.	O-ring	NBR
06.	POM discs	POM
07.	Spring	Stainless steel 1.4401
08.	O-rings	NBR
09.	Valve disc incl. star seal	ASA-GF natural / TPE
10.	Vent screw + O-ring	PBT / NBR
11.	Flat seal	NBR
12.	Sight glass	PC transparent
13.	Screw	Stainless steel A2
14.	Nut	Stainless steel A4
15.	Housing	ABS
17.	O-ring	NBR
19.	Basket	ABS
20.	O-ring	NBR

Top Mount 2"



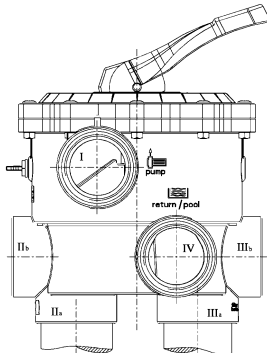
No.	Designation	Material
01.	Handle	ABS
02.	Plastic bolt	PA
03.	POM disc	POM
04.	Cover	ABS
05.	O-ring	NBR
06.	POM discs	POM
07.	Spring	Stainless steel 1.4401
08.	O-rings	NBR
09.	Valve disc	PP-GFK
10.	Vent screw + O-ring	PBT / NBR
11.	Flat gasket	NBR
12.	Sight glass	PC transparent
13.	Screw	Stainless steel A2
14.	Nut	Stainless steel A4
15.	Housing	ABS
17.	O-ring	NBR
18.	Star seal	Kraton
19.	Basket	ABS
20.	O-ring	NBR

Connection variants

Side mount 1 ½" / 2" / 3"

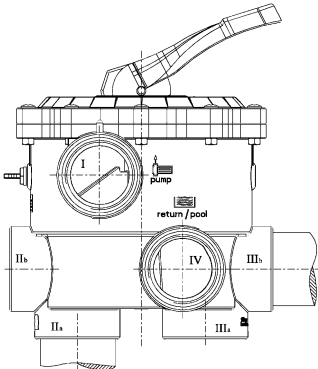
Note: 1 ½" valve without connection III_b

Type 1

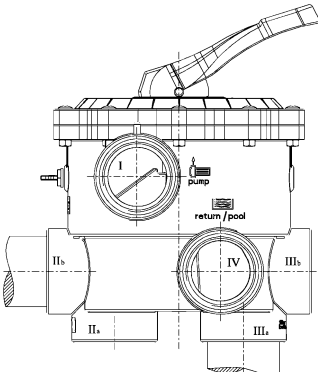


No	Designation	Description
I	pump	of pump
II	filter top	to filter
III	filter bottom	from the filter
IV	return / pool	to the pool
V	canal / waste	to the canal

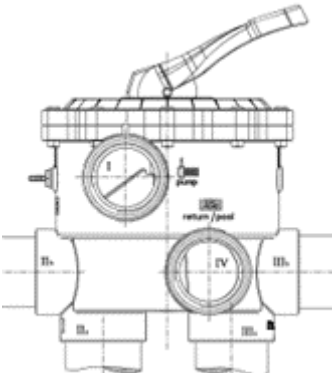
Type 2



Type 3

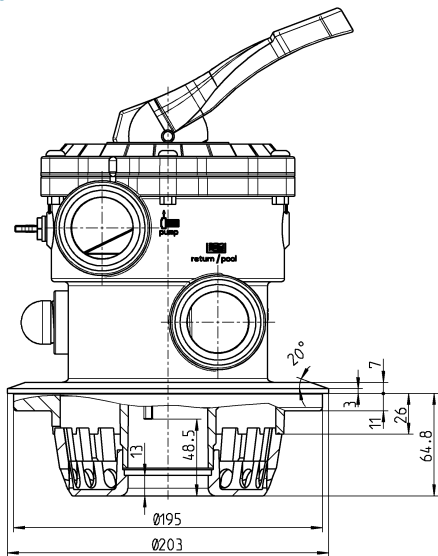


Type A0 (All Open)

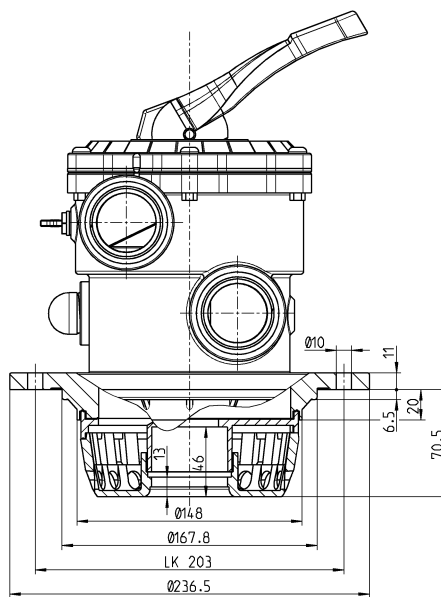


Top Mount 1 1/2"

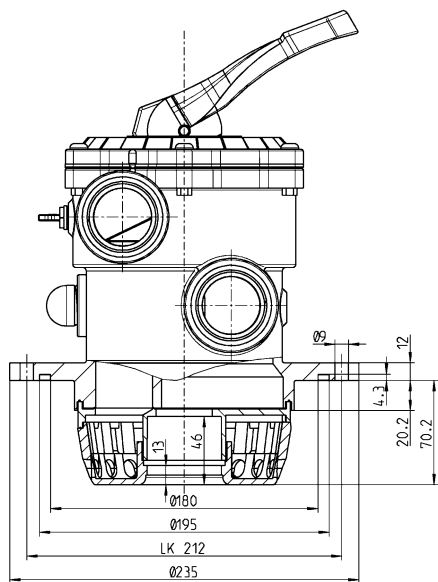
AS flange



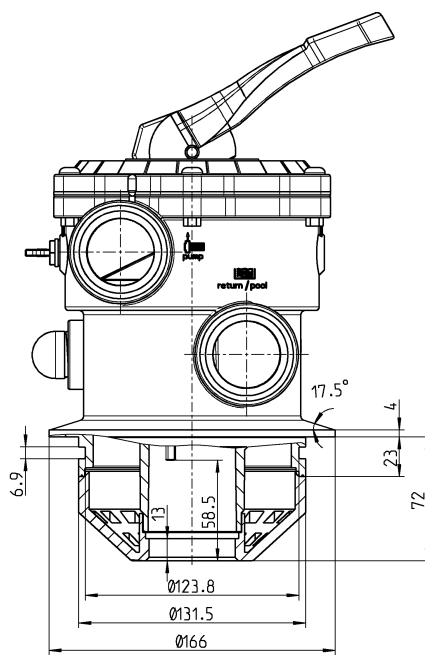
E flange



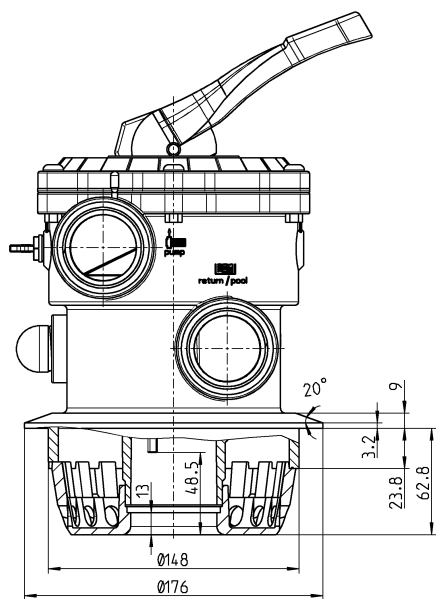
H flange



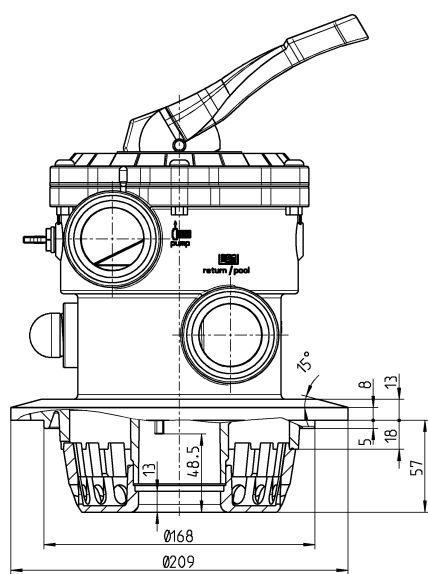
SF flange



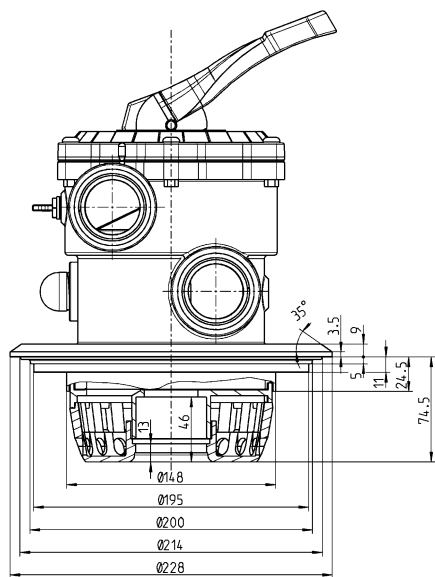
S-flange



T-flange

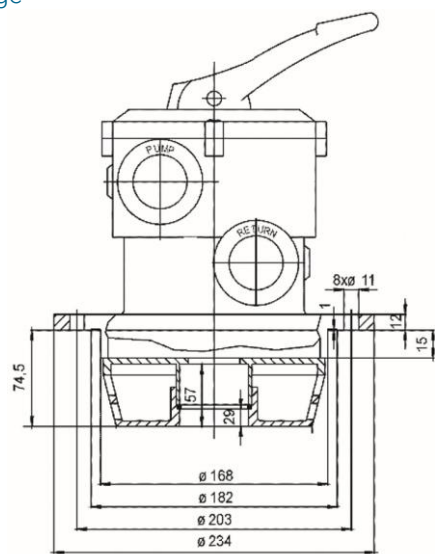


U-flange

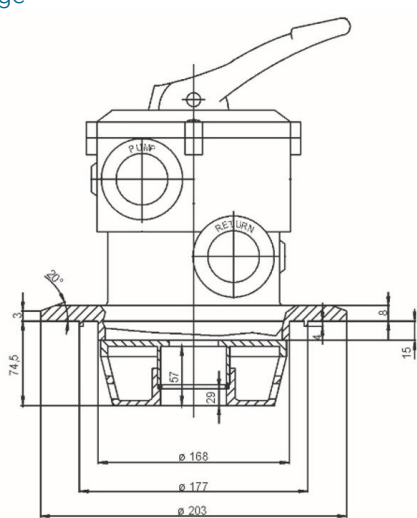


Top mount 2"

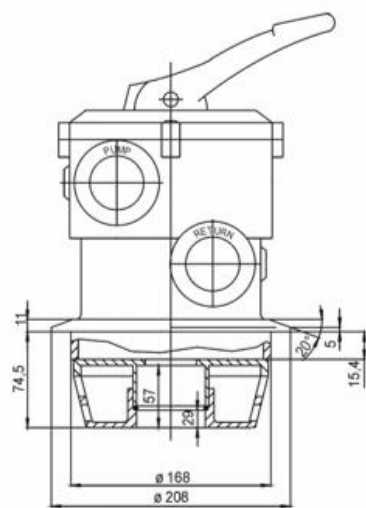
E-flange



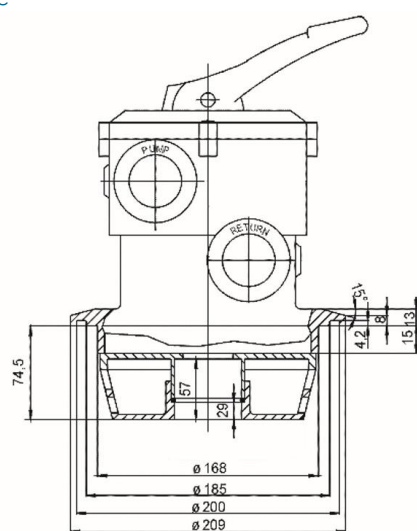
H8 flange



S flange

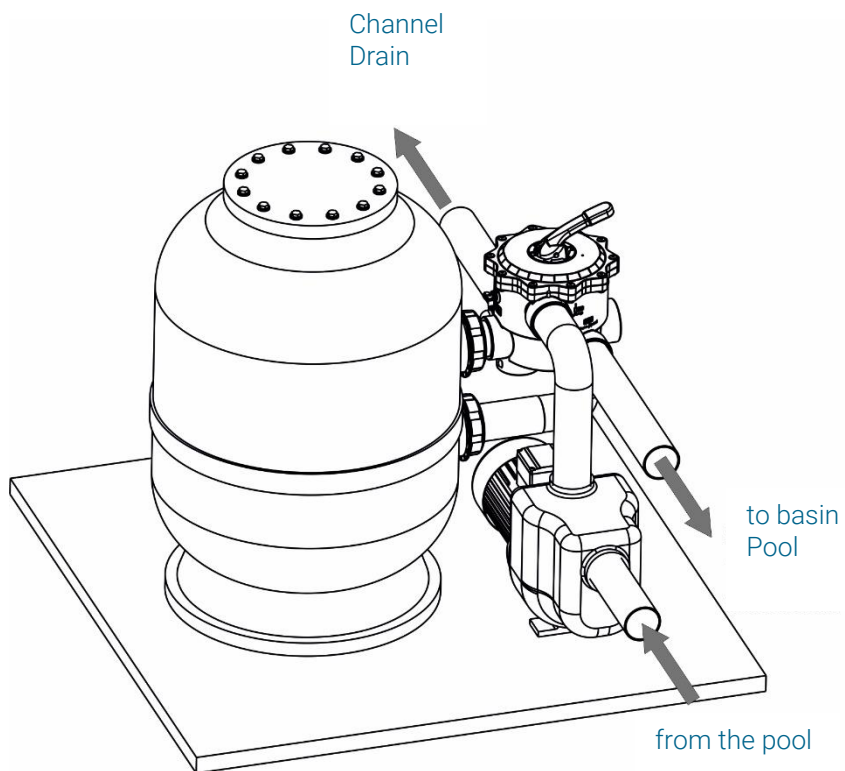


T-flange

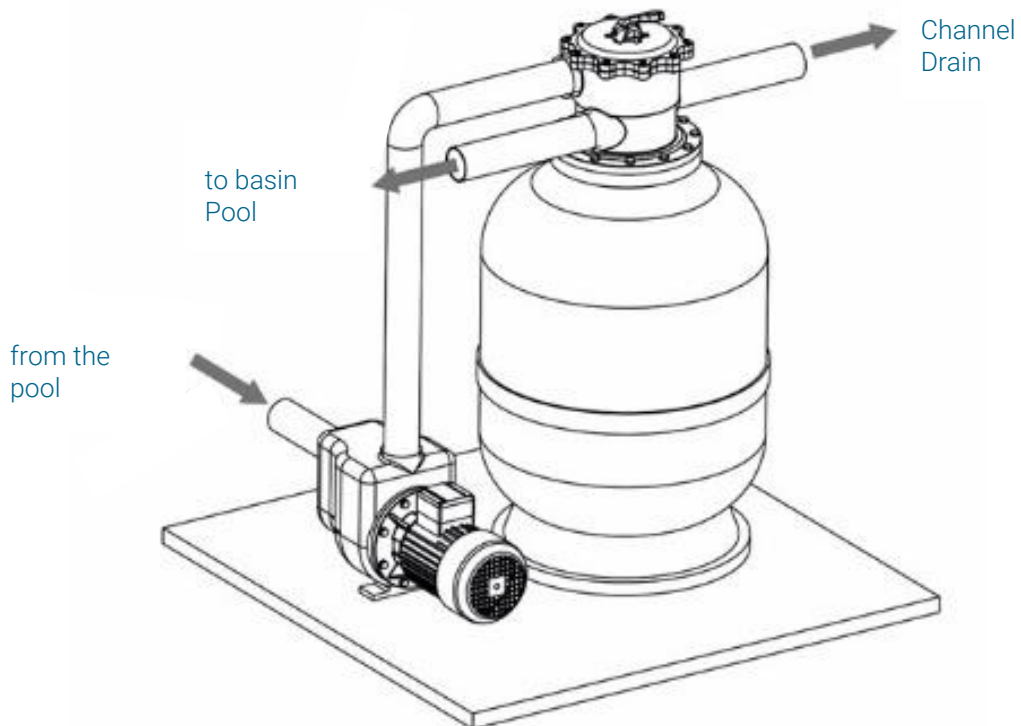


Installation diagram

Side mount



Top Mount

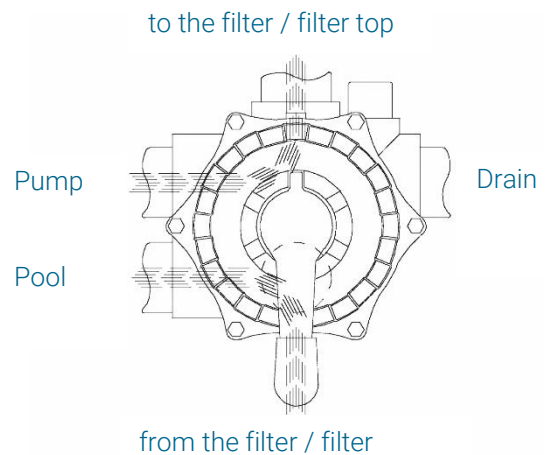


Functional diagram

1. Filtering

Filtering the medium

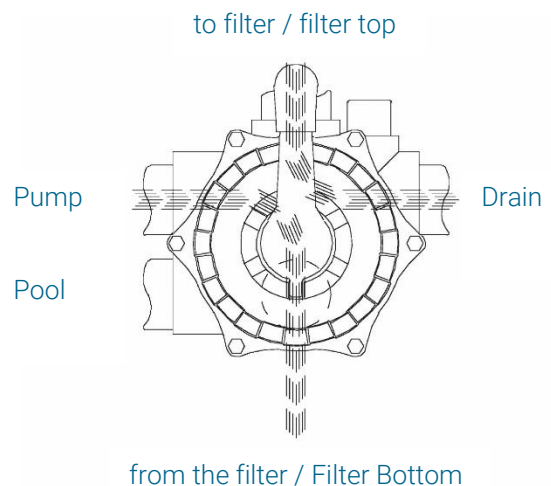
*Circuit: Basin – Pump – Valve (to filter) –
Filter – Valve (from filter) – Basin*



2. Backwash

Clean filter medium in counterflow

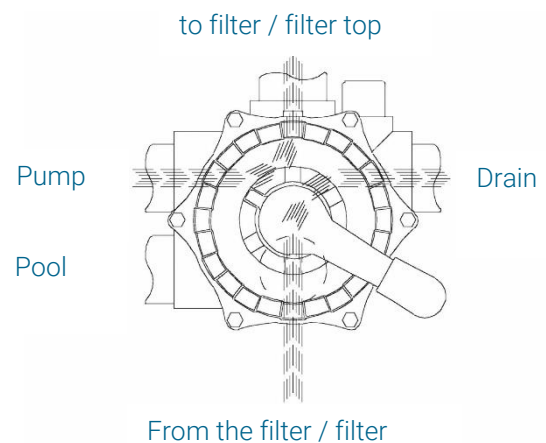
*Circuit: Pool – Pump – Valve (from filter) –
Filter – Valve (to filter) – drain*



3. Rinse

Clean filter medium after backwashing
(= rinsing)

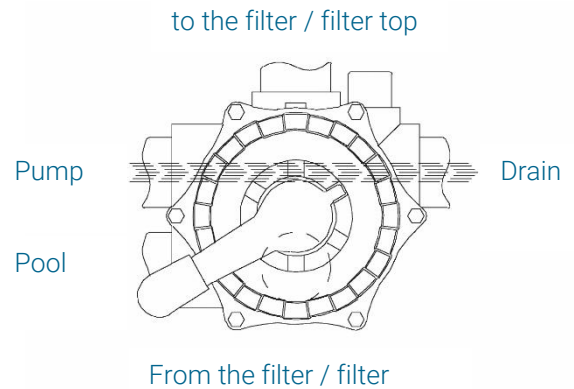
*Circuit: Basin – pump – valve (to filter) –
filter – valve (from filter) – drain*



4. Emptying

Emptying from the basin with the pump

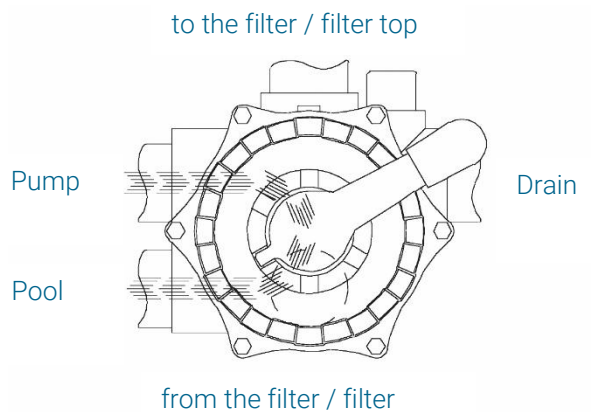
Circuit: Pool – Pump – Valve – Drain



5. Circulate

Pumping the liquid without a filter (filter is bypassed)

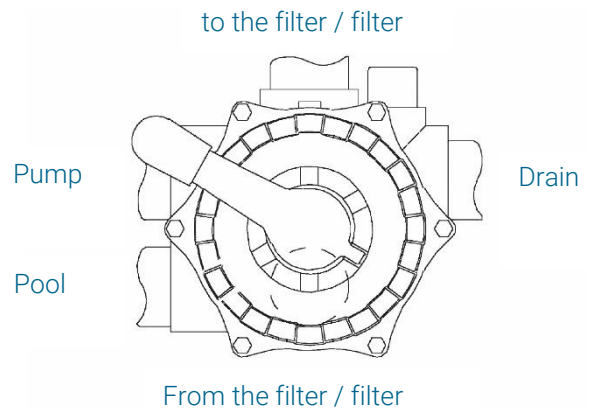
Circuit: Basin – Pump – Valve – Basin



6. Closed

No circulation! Pump must not be operated!

Circuit: Basin – Pump – Valve



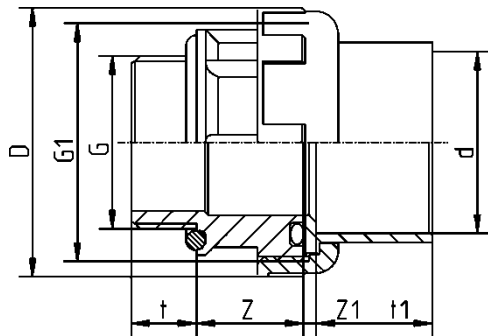
7. Winter position

Valve disc is slightly raised; seal is relieved

CAUTION: this means that the valve is open in all directions

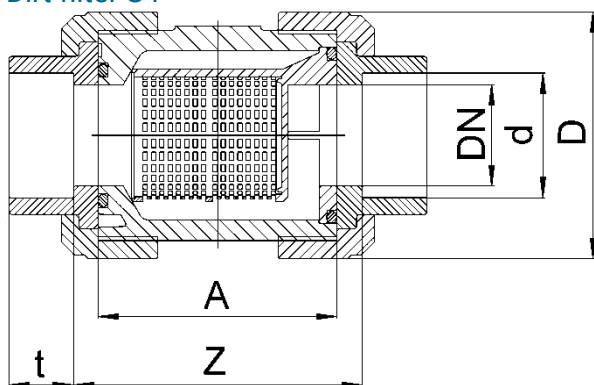
Accessories / Spare parts

Screw connections Ocean PVC solvent socket – external thread



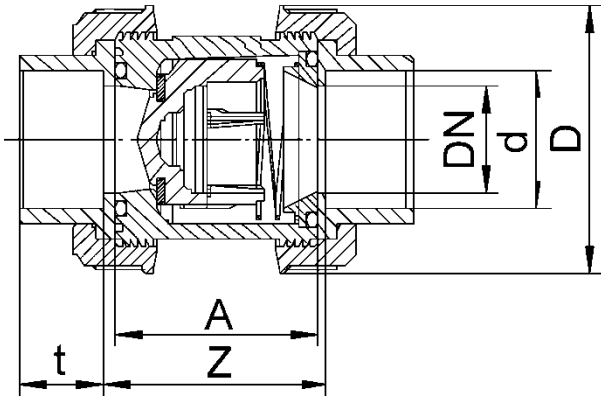
d - D	t	t1	Z	Z1	D	E1
50-1.5" BSP	18	31.5	30	3	74	2 1/4"
50-2" BSP	23.5	31.5	36	3	92	2 3/4"
63-2" BSP	23.5	38.5	36	3	92	2 3/4"
48.4-1.5" NPT	18	31.5	30	3	74	2 1/4"
60.3-2" NPT	23.5	38.5	36	3	92	2 3/4"

Dirt filter S4



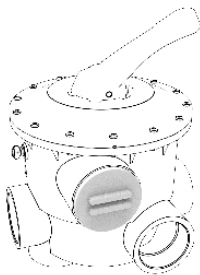
d	DN	A	Z	t	D	PN
50	40	95	104	31.5	101	16
63	50	109	121	38.5	124.5	16

Check valve S6



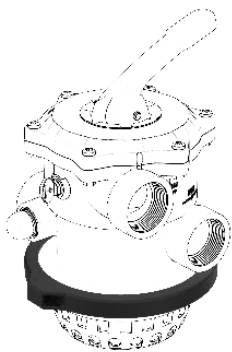
D	DN	A	Z	t	D	PN
50	40	77	87	31.5	101.5	16
63	50	87	99	38.5	115.3	16

Sealing plug for backwash valve with O-ring



Available in 1 ½", 2" and 3"

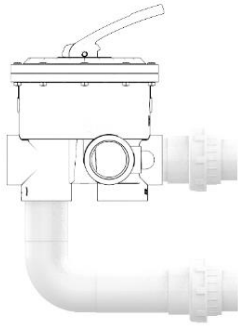
Clamping ring sets



Available for top mount backwash valves Flange variants

- S-flange 1 ½" ASA-GF
- T-flange 1 ½", 2"
- SF flange 1 ½"

Piping set



Available:

- As accessories
- Pre-glued with valve
- with various end connection types and pipe bend distances

Upper part for backwash valve



Available in 1 ½", 2" and 3"



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