

OCEAN V6-WAY AND V4-WAY VALVE ECO



OCEAN OEM FILTER COMPONENTS



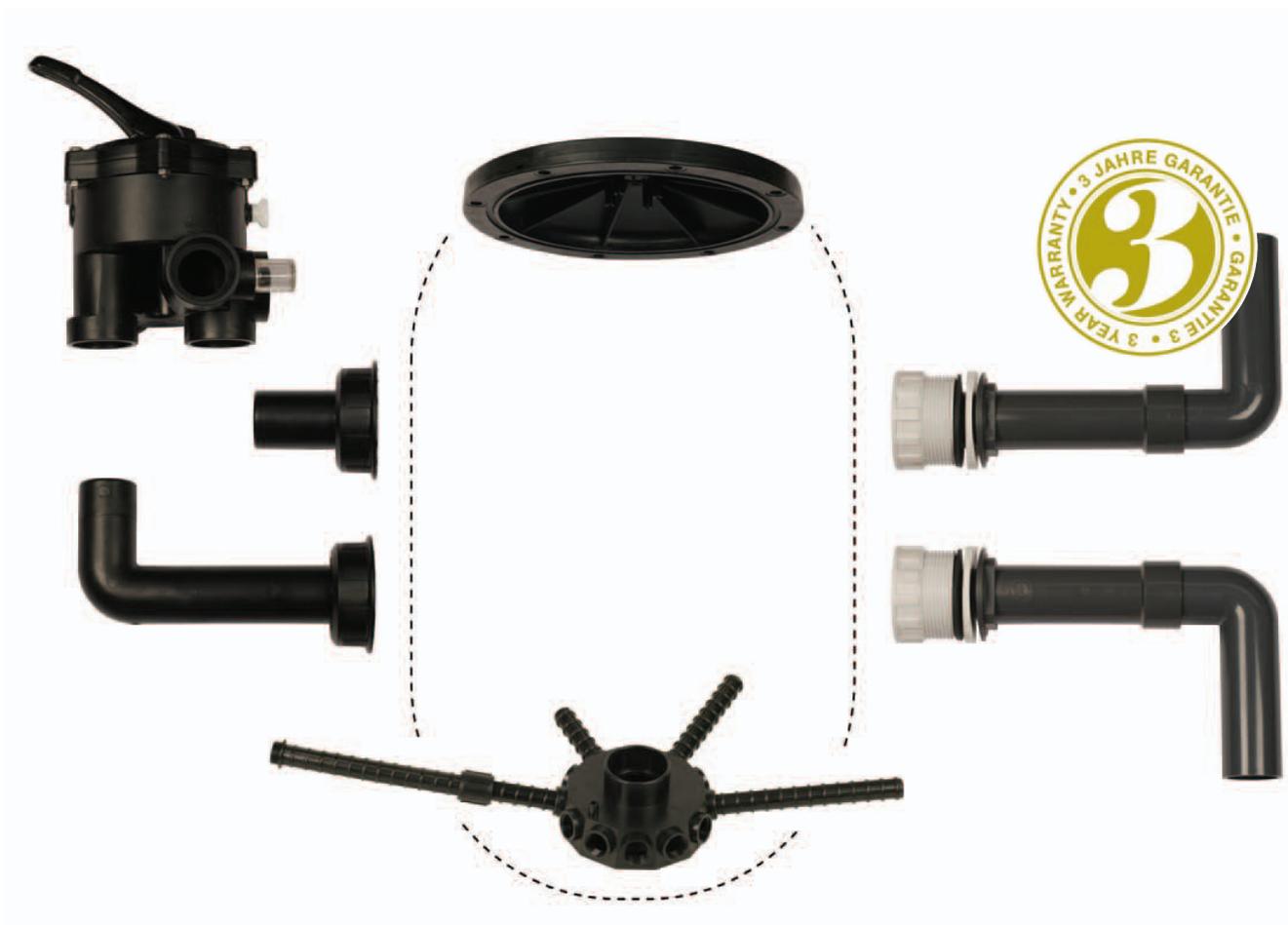
functional – robust – precise

... legitimate expectations on up to date perfect solution for modern and comfortable pool cleaning. As well the original Ocean OEM V4 and V6 back wash valves as well as the appropriate OEM filter components "made by Praher-Austria", meet the highest international standards.

An unusual broad assortment offers the choice of all sorts of high quality Ocean V4 and V6 back wash valves (manual and auto-matic), filter, inner and outer piping systems, adapters for filters, distribution devices as well as proven piping units from back wash valves to pumps. These can be used as standard or developed according to customers' demands.

Assisted by the inhouse mold construction and tool shop as well as an experienced casting department and a competent design department each (filter) project can be professionally supported. An additional advantage – possibly available filter components can be used leading to reduce investment costs for molds and tools.

For more information please contact: info@peracqua.com



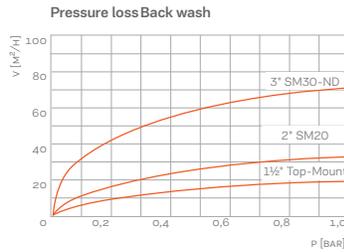
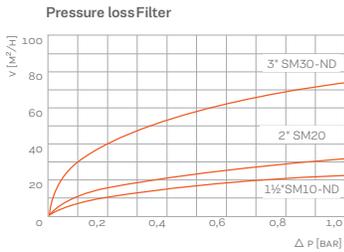
OCEAN V6 WAY VALVE
 1 1/2", 2", 3" back wash valve "Side Mount" (SM)

Characteristics:

Easy handling, clear, multilingual and non-smudging laser marking, optimal flow and pressure loss rates, extreme low-noise operation, made of high quality, UV resistant and impact resistant ABS materials, use of very durable sealing materials and pressure springs, installed on the valve plate, pressure tightness and operation tests according to DIN 3230, easy installation of our AQUASTAR automatic back wash valve onto the manual back wash valve ND 1 1/2", 2" and 3" side and top mount version, additional "winter position" as release for the sealing system during winter time.

Available in ABS (3,5 bar) and ASA-GF version (6 bar), in various colours and connection models.

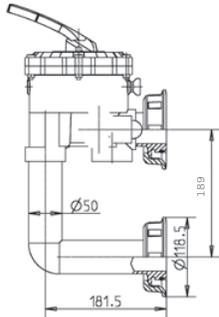
As additional service a wide range of filter installation accessories are available for our V4 and V6 back wash valves (→ pages 81, 102-103).



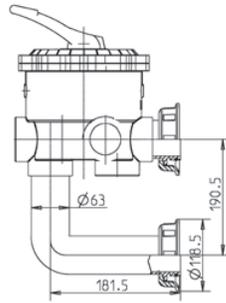
Material Sealings	Pressure/20 degrees	Dimensions	Recommended Flow rate "Filter"	Body connections	Colour
ABS	3,5 bar	1 1/2"	17 m³/h	BSP/NPT female thread DIN mm /ASTM imperial solvent connections	white, black other colours on request.
TPE/EPDM	3,5 bar	2"	27 m³/h		
	3,5 bar	2,5"	47 m³/h		
	3,5 bar	3"	56 m³/h		
ASA-GF	6,0 bar	1 1/2"	17 m³/h	BSP/NPT/JIS female thread	beige
TPE/EPDM	6,0 bar	2"	27 m³/h		
FPM	5,0 bar	3"	56 m³/h		
PPGF	4 bar	4"	70 m³/h	BSP female thread	black

**OCEAN V6 BACK WASH VALVE 1½", 2"
WITH PIPING SETS**

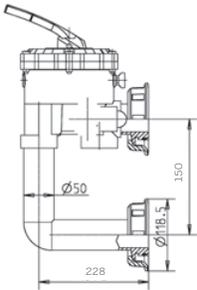
*Pentair, Astral, Espa, Hayward,
Infinity, MMC, Certikin*



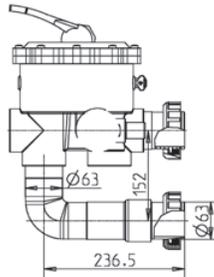
Valve piping set SM10-3 PENTAIR, 1½"
130764** complete, white



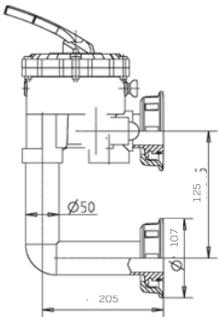
Valve piping set SM20-3 PENTAIR, 2"
131047** white



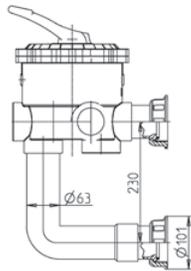
SM10-3 HAYWARD, 1½"
130820* and **170261*** black



SM20-3 HAYWARD, 2"
131063* and **170208*** black



SM10-3 ASTRAL, ESPA, MMC CERTIKIN, 1½"
130820* and **170353*** black
131042** white



SM20-3 ASTRAL, ESPA, CERTIKIN, 2"
131063* and **170855*** black
131193** white



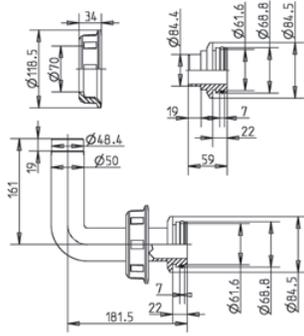
SM10-3 INFINITY, 1½"
130820* and **170884*** black

SM20-3 INFINITY, 2"
131063* and **170885*** black

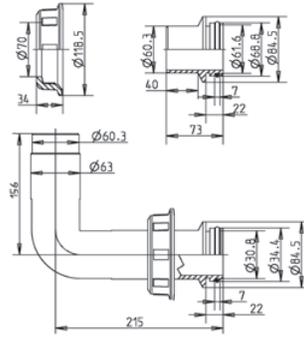
Special pipe set dimensions and
tank adapters on request

**OCEAN V6 1½", 2"
PIPING SETS, LOOSE**

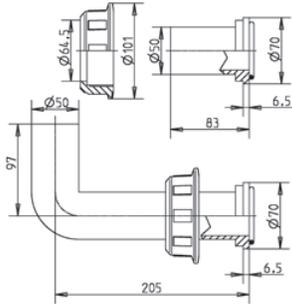
*Pentair, Astral, Espa, Hayward,
Infinity, MMC, Certikin*



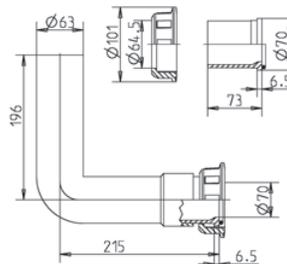
Valve piping set PENTAIR d48, 4 1½"
170312 white



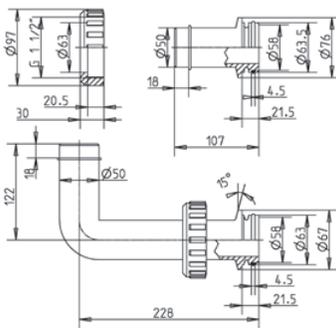
Valve piping set PENTAIR d60, 3 2"
170345 white



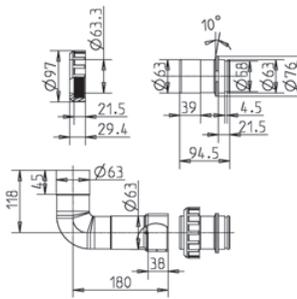
Valve piping set ASTRAL, ESPA, MMC,
CERTIKIN d50 1½"
170151 white
170853 black



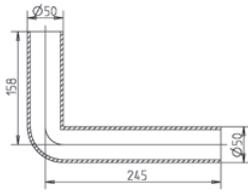
Valve piping set ASTRAL, ESPA, MMC,
CERTIKIN d63 2"
170856 white
170855 black



Valve piping set HAYWARD d50 1½"
170158 white
170261 black

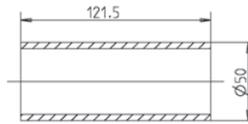


Valve piping set HAYWARD d63 2"
170208 black



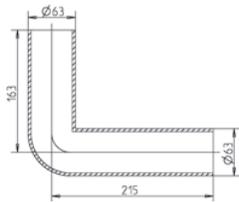
Elbow d50, 245x158 mm,

150064 white
150063 grey
150067 black



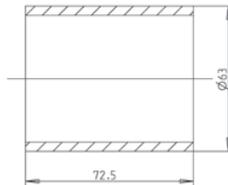
Connection piece d50, 121,5 mm

150108 white
150126 grey
150113 black



Elbow d63 215x163 mm

150231 white
150252 grey
150211 black



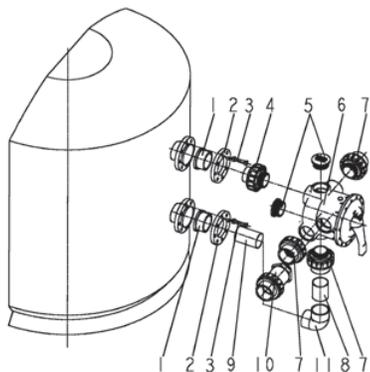
Connection piece d 63, 72,5 mm

150232 white
150251 grey
150212 black



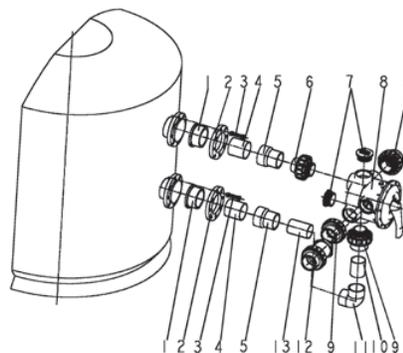
Ocean V6
with piping set
application picture

OCEAN V6 3", 4"
PIPING SETS
(manual) standard type



Valve piping set 3"

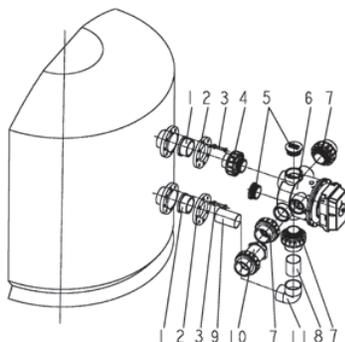
No	Description	Part. No.
1	2 pcs flange adapter grooved 3"	71099
2	2 pcs flange d90	70146
3	16 pcs screws M16x85 for flange	on request
4	1 pc union short 3" grey with spigot spigot is trimmed accordingly	100670
5	2 pcs plug ASA nature with O-ring	140024
5	2 pcs plug ABS white with O-ring	140063
6	1 pc valve 3" manual ABS thread SM 30-3	130192
6	1 pc valve 3" manual GFK thread SM 31-AO	130142
7	3 pcs union EPDM short grey solvent male connection	170085
8	1 pc pipe da=90 104 mm long PN6 pipe	71021 (pipe)
9	1 pc pipe da=90 138 mm long PN6 pipe	71021 (pipe)
10	union EPDM excess length grey solvent male connection	170185
11	elbows 90°	73763



Valve piping set 4"

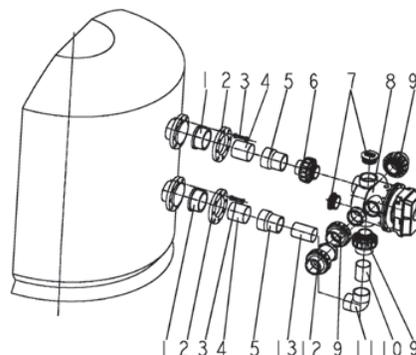
No	Description	Part No.
1	2 pcs flange adapter, grooved 4"	71100
2	2 pcs flange d110	70166
3	16 pcs screws M16x85 for flange	on request
4	2 pcs pipe da=110 107 mm long PN6 pipe	71022 (pipe)
5	2 pcs reduction long 125-110-90	70815
6	1 pc union short 3" grey with spigot spigot is trimmed accordingly	100670
7	2 pcs plug ASA nature with O-ring	140024
7	2 pcs plug ABS white with O-ring	140063
8	1 pc valve 3" manual ABS thread SM30-3	130192
8	1 pc valve 3" manual GFK thread SM31-AO with 2 plugs (part no. 140024 (2x) not necessary)	130142
9	3 pcs union EPDM short grey solvent male thread	170085
10	1 pc pipe da=90 104 mm long PN6 pipe	71021(pipe)
11	1 pc elbow 90°	73763
12	1 pc union EPDM excess length grey solvent male thread	170185
13	1 pc pipe da=90 138 mm long PN6 pipe	71021(pipe)

OCEAN V6 3", 4"
PIPING SETS
(Aquastar automatic) standard type



Valve piping set 3"

No	Description	Part no.
1	2 pcs flange adapter grooved 3"	71099
2	2 pcs flange d90	70146
3	16 pcs screws M16x85 for flange	on request
4	1 pc union short 3" grey with spigot spigot is trimmed accordingly	100670
5	2 pcs plug ASA nature with O-ring	140024
5	2 pcs plug ABS white with O-ring	140063
6	1 pc valve 3" with Aquastar E-2000/F2	130847
6	1 pc valve 3" with Aquastar E-3000/F2	130848
6	1 pc valve 3" with Aquastar E-6000/F2	130849
7	3 pcs union EPDM short grey solvent-male thread	170085
8	1 pc pipe da=90 104 mm long PN6 pipe	71021 (pipe)
9	1 pc pipe da=90 138 mm long PN6 pipe	71021 (pipe)
10	union EPDM excess length grey solvent-male thread	170185
11	elbow 90°	73763

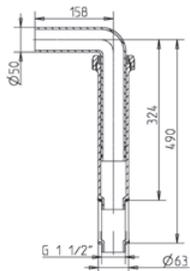


Valve piping set 4"

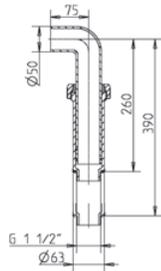
No	Description	Part no.
1	2 pcs flange adapter grooved 4"	71100
2	2 pcs flange d110	70166
3	16 pcs screws M16x85 for flange	On request
4	2 pcs pipe da=110 107 mm long PN6 pipe	71022 (pipe)
5	2 pcs reduction long 125-110-90	70815
6	1 pc union short 3" grey with spigot spigot is trimmed accordingly	100670
7	2 pcs plug ASA nature with O-ring	140024
7	2 pcs plug ABS white with O-ring	140063
8	1 pc valve 3" with Aquastar E-2000/F2	130847
8	1 pc valve 3" with Aquastar E-3000/F2	130848
8	1 pc valve 3" with Aquastar E-6000/F2	130849
9	3 pcs union EPDM short grey solvent-male thread	170085
10	1 pc pipe da=90 104 mm long PN6 pipe	71021 (pipe)
11	1 pc elbow 90°	73763
12	1 pc union EPDM excess length grey solvent-male thread	170185
13	1 pc pipe da=90 138 mm long PN6 pipe	71021 (pipe)

TELESCOPE PIPING SET
OCEAN V6 1½" SM10
Connection V6 valve to the pump

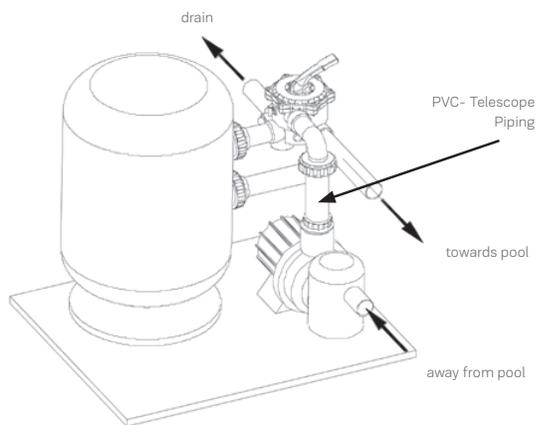
Ocean telescope piping set as optimal connection of the Ocean V4 and V6 back wash to your filter pump. Due to variable height adjustment these can be used for various filter types and therefore reduce the time for filter installation. Special lengths and colours available on request.



Telescope piping long
170339



Telescope piping short
170394



OCEAN V6 WAY VALVE

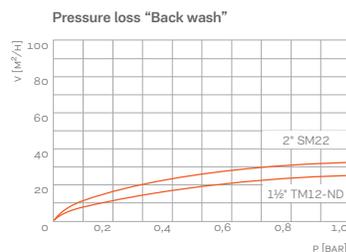
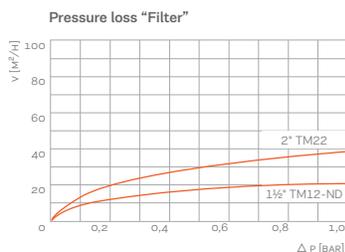
1 1/2", 2", back wash valve "Top Mount" (TM)

Characteristics:

Easy handling, clear, multilingual and non-smudging laser marking, optimal flow and pressure loss rates, extreme low-noise operation, made of high quality, UV resistant and impact resistant ABS materials, use of very durable sealing materials and pressure springs, installed on the valve plate, pressure tightness and operation tests according to DIN 3230, easy installation of our AQUASTAR automatic back wash valve onto the manual back wash valve ND 1 1/2", 2" and 3" side and top mount version, additional "winter position" as release for the sealing system during winter time.

Available in ABS (3,5 bar) and ASA-GF version (6 bar), in various colours and connection models.

As additional service a wide range of filter installation accessories are available for our V4 and V6 back wash valves (→ pages 81, 102–103).

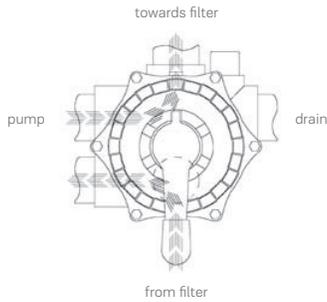


Material Sealings	Pressure/20degrees	Dimensions	Recommended Flow rate "Filter"	Body connections	Colour
ABS	3,5 bar	1 1/2"	18 m³/h	BSP/NPT female thread	white, black
TPE/EPDM	3,5 bar	2"	35 m³/h	DIN mm /ASTM imperial Solvent connections	other colours on request.
ASA-GF	6,0 bar	1 1/2"	18 m³/h	BSP/NPT/JIS female thread	beige
TPE/EPDM	6,0 bar				
FPM	5,0 bar				

OPERATION- AND INSTALLATIONS- DIAGRAM

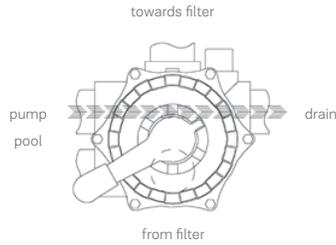
1. Filter

Filtering of the fluid (e.g. water). pool – pump – valve (towards filter) – filter – valve (from filter) – pool



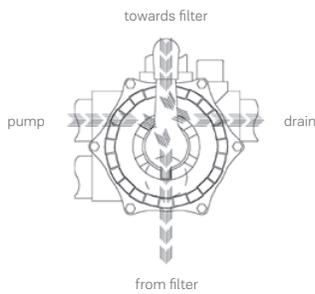
4. Waste

Draining of the pool with pump
Pool – pump – valve – drain



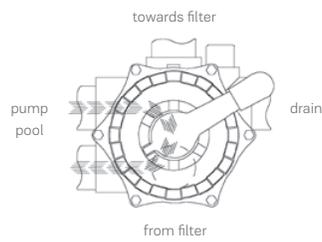
2. Back wash

Cleaning of the filter medium (e.g. sand) counter flow (reverse flow direction in the filter). pool – pump – valve (from filter) – filter – valve (towards filter) – drain



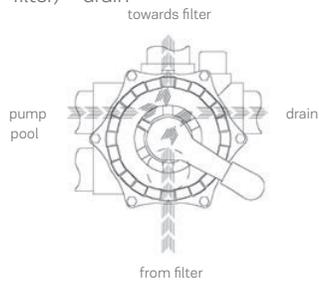
5. Circulate

Circulation of the fluid without filter (filter is by-passed)
Pool – pump – valve – pool



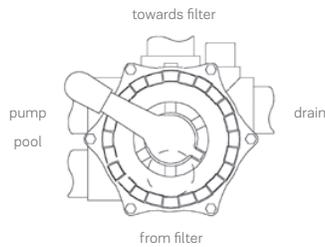
3. Rinse

= rinse – cleaning of the filter medium (e.g. sand) after the backwash process. Pool – pump – valve (towards filter) – filter – valve (from filter) – drain



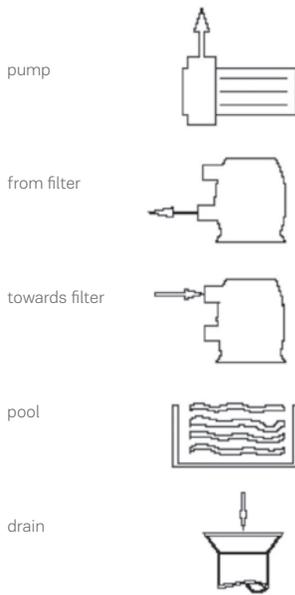
6. Closed

No circulation! Pump may not be used!
Pool – pump – valve



OCEAN V6 WAY BACK WASH VALVE

"The original since 4 decades"



Symbols on valve body:
this helps for correct installation of the 6 way
backwash valve onto the sand filter.

Each sand filter system has to be equipped with an Ocean 6 way back wash valve building the "core" of the total filter system. Sand filters have to be back washed regularly (~ 1x per week, depending on pool dimension and frequency), in order to aerate the sand bed and to drain off filtered contaminations. The flow of the pump has to be driven reversely.

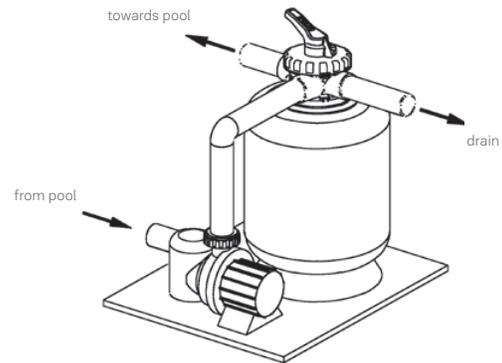
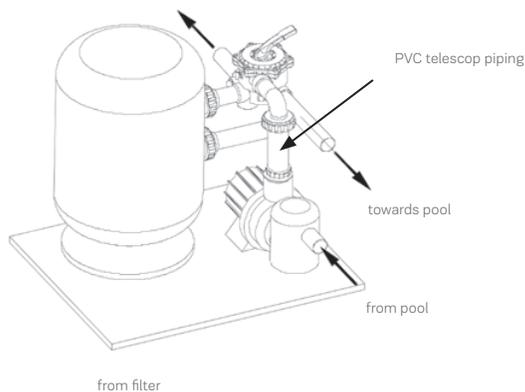
All other functions and positions of the Ocean 6 way valve are shown on page 88.

Right after the back wash process fresh water has to be added to the pool water in order to reach the necessary pool water level to guarantee an optimal filter process and to avoid "dry running" of the filter pump. This can be done manually by using a common garden hose or by automatic operation with Evolution Niveau Control NCO1, Nr. 130293 (which can be easily integrated in an Ocean skimmer deluxe or PT (→ page 50).

This system is also an optimal completion for the automatic V6 back wash valves, model Aquastar (→ page 106-115).

CAUTION!

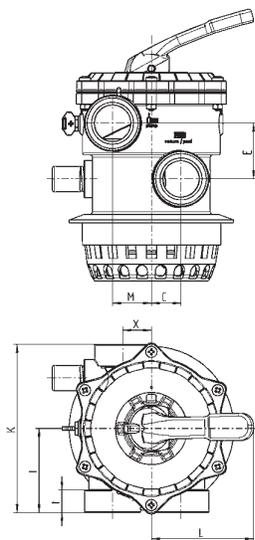
Before change of position of Ocean 6 way valve filter pump has to be turned off in order to improve life cycle and functioning of 6 way valve. Furthermore we recommend installation of a S4 cone check valve or an automatic ball valve "Fail Safe Close" in the piping system This avoids drain off of the pool in case the valve is on position "backwash" during power failure.



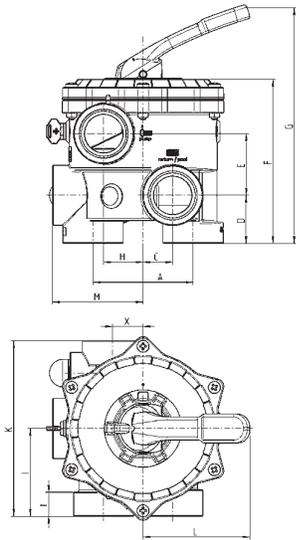
MAIN DIMENSIONS

for 1½", 2" and 3"

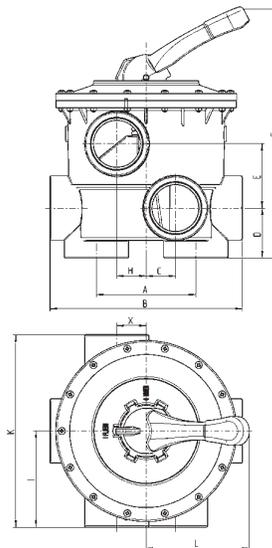
Top and Side Mount 6 way valves



TM12-ND and TM22



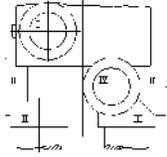
SM10-ND and SM11-ND



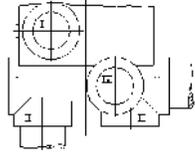
SM20-ND, SM21-ND, SM 30-ND, SM 31-ND

		A	B	C	D	E	F	G max.	H	I	K	L	M	X	t
SM10-ND, SM11-ND	1½"	99,5	/	29,5	48	61,5	136,5	247	39	87,5	175	135,5	90	30,5	24
SM20-ND, SM21-ND	2"	110	227	36	60	81	210	296	36	115	230	135,5	/	31	31
SM30-ND, SM31-ND	3"	170	329	50	85,5	110	304	434	50	165	330	206	/	50	35
TM12-ND	1½"	/	/	31,5	/	59,5	/	/	41,5	90	180	135,5	/	30,5	24
TM22	2"	/	/	36	43	81	280	292	36	114,5	229	135,5	/	36	26

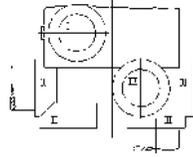
CONNECTION TYPES
for 1½", 2" and 3"
Side Mount valves



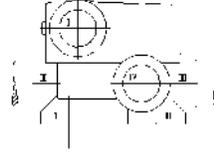
SM20-1
SM30-1



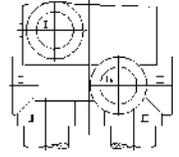
SM20-2
SM30-2



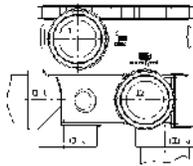
SM20-3
SM30-3



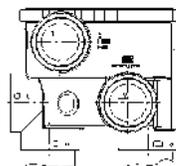
SM20-4
SM30-4



SM20-AO
SM30-AO



SM10-3-ND

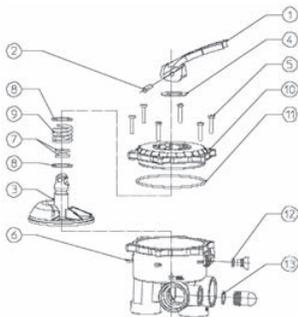


SM10-1-ND



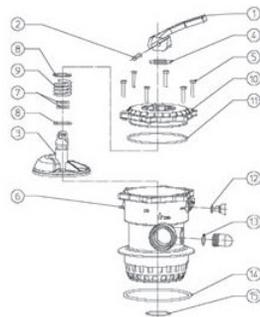
Special models available on request.

SPARE PARTS



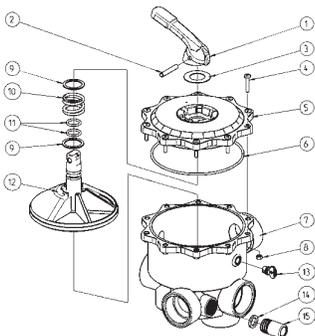
SM10-ND and SM11-ND

Number	Description
1	Handle
2	Bolt
3	Plate + Star gasket
4	Washer
5	Screws
6	Hex-nut
10	Lid
3, 7, 8, 11, 12, 13	Sealing set
1, 2, 3, 4, 7, 8, 9, 10, 11	Valve top complete



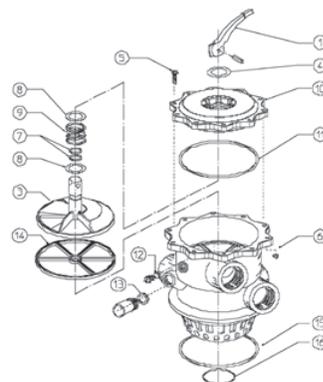
TM12-ND and TM13-ND

Number	Description
1	Handle
2	Bolt
3	Plate + Star gasket
4	Washer
5	Screw
6	Hex-nut
10	Lid
3, 7, 8, 11, 12, 13, 14, 15	Sealing set
1, 2, 3, 4, 7, 8, 9, 10, 11	Valve top complete



SM20-ND, SM21-ND, SM30-ND, SM31-ND

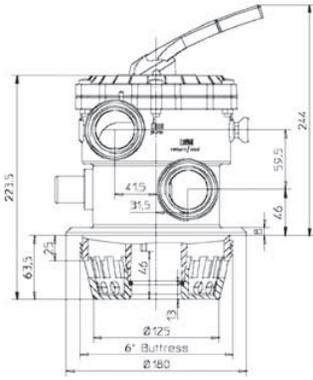
Number	Description
1	Handle
2	Bolt
3	Plate + Star gasket
4	Washer
5	Screws
6	Hex-nut
10	Lid
14	Star gasket
3, 7, 8, 11, 12, 13	Sealing set
1, 2, 3, 4, 7, 8, 9, 10, 11	Valve top complete



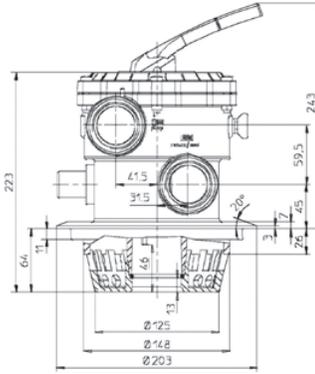
TM22

Number	Description
1	Handle
2	Bolt
3	Plate + Star gasket
4	Washer
5	Screw
6	Hex-nut
10	Lid
14	Star gasket
3, 7, 8, 11, 12, 13	Sealing set
1, 2, 3, 4, 7, 8, 9, 10, 11	Valve top complete

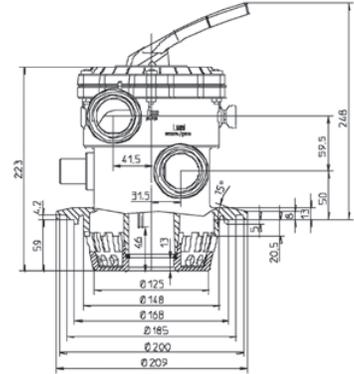
FLANGE-CONNECTION TYPES
1 1/2" Top Mount "New Sealing System"



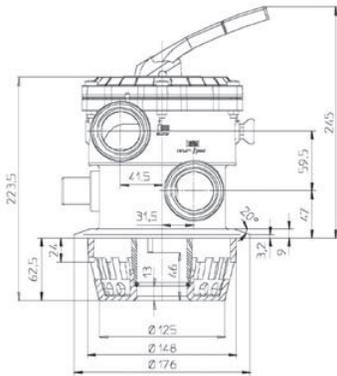
TM12-B (threaded 6" buttress)



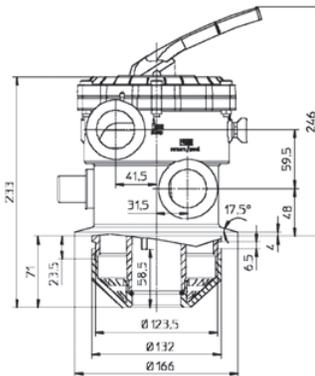
TM12-AS (ASTRAL-clamping flange)



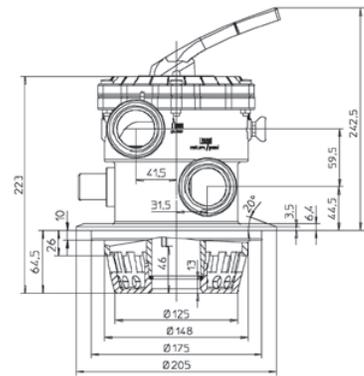
TM12-T (STA-RITE-clamping flange)



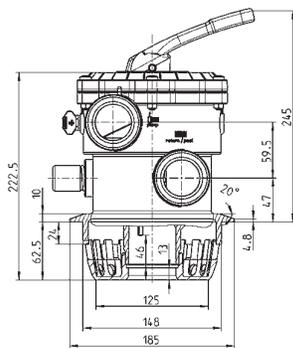
TM12-S (STANDARD-clamping flange)



TM12-SF (PENTAIR-clamping flange)

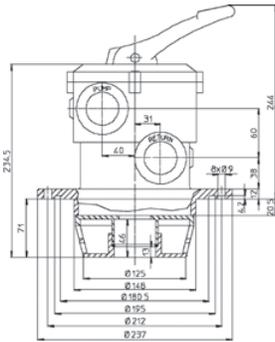


TM12-ZK (ZODIAC-clamping flange)

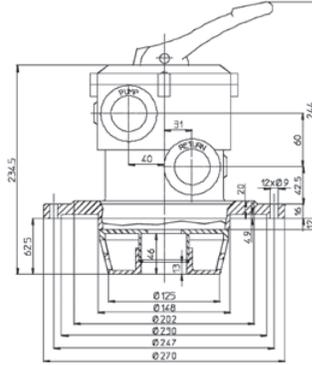


TM12-SC (DAVEY-clamping flange)

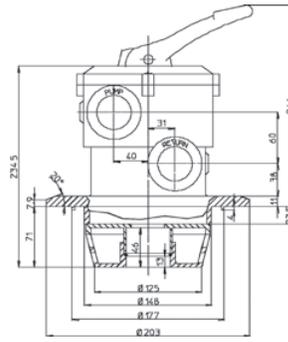
FLANGE-CONNECTION TYPES
 1 1/2" Top Mount "Old Sealing System"



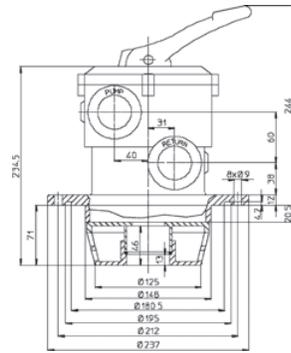
TM12-H (bolt flange)



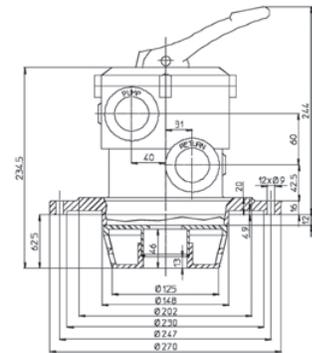
TM12-L (bolt flange)



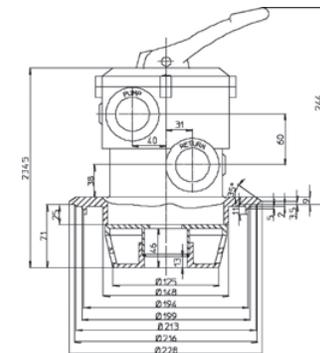
TM12-H8 (HAYWARD-clamping flange)



TM12-H (bolt flange)

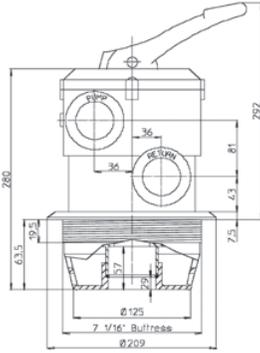


TM12-L (bolt flange)

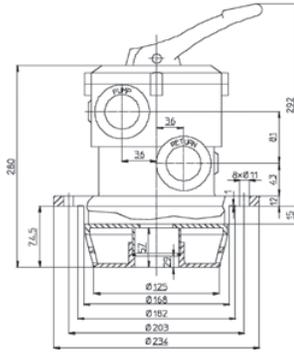


TM12-U (clamping flange)

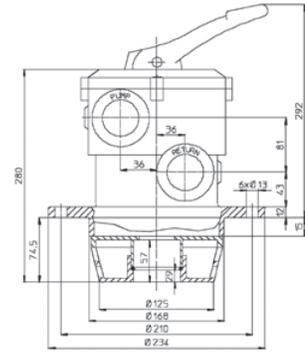
FLANGE-CONNECTION TYPES
 2" Top Mount "Old Sealing System"



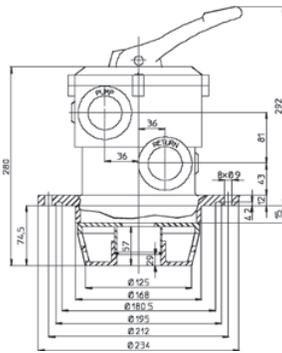
TM22-B 7/1 16" (threaded)



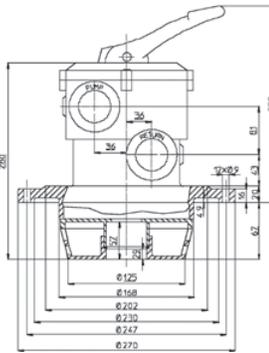
TM22-E (bolt flange)



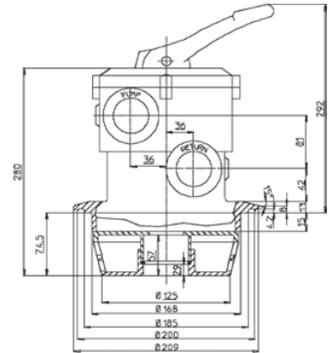
TM22-G (bolt flange)



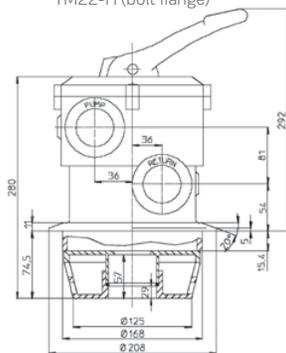
TM22-H (bolt flange)



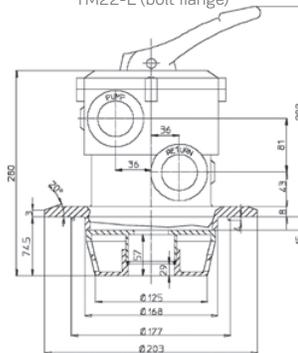
TM22-L (bolt flange)



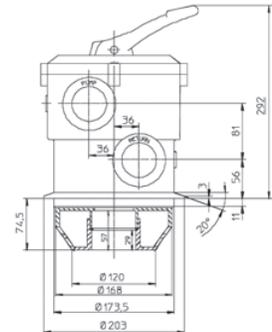
TM22-T (STA-RITE-clamping flange)



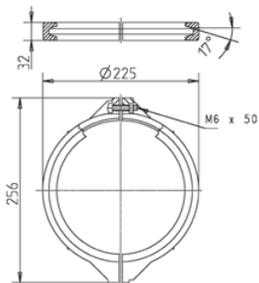
TM22-S (STANDARD-clamping flange)



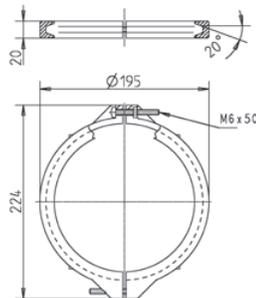
TM22-H8 (HAYWARD-clamping flange)



TM22-AS (ASTRAL-clamping flange)



Clamp ring set "T" incl. screws and nuts
50194 black



Clamp ring set "S" incl. screws and nuts
170362 black