

HD 系列高压缸使用说明书 **Deep Bed Filter User Manual**

Models(型号):13300 / 13350 / 13400 / 15300 / 15350 / 15400

FUNCTION 功能简介

The filter uses special filter sand to remove dirt particles from pool water. The filter sand is loaded into the filter tank and functions as a permanent dirt removing media. When the control valve is in the FILTER position, the pool water which contains suspended dirt particles, is pumped through your piping system and is automatically directed by the patented filter control value to the top of the filter tank. As the pool water is pumped through the filter, dirt particles are trapped by the sand bed, and filtered out. The cleaned Pool water is returned from the bottom of the filter tank, through the control valve and back to the pool through the piping system. This entire sequence is continuous and automatic. It provides for total recirculation of pool water through your filter and piping System.

After a period of time, the accumulated dirt in the filter causes a resistance to flow, and the flow diminishes. This means it is the time to clean your filter. With the control valve in the BACKWASH position, the water flow is automatically reversed through the filter so that it is directed to the bottom of the tank, up through the sand, flushing the previously trapped dirt and debris out the waste line. Once the filter is back-washed of dirt, set control value to RINSE position and run pump for about 1/2 to 1 minute, and then set the control value in the FILTER position, to resume normal filtering.

NOTE: Turn pump off before changing valve position. 沙缸功能是把泳池水中的污物经过沙层的过滤后,使干净水重新回到泳池内,过滤用的沙是石英沙。而过滤程序是:首 先是缸头控制器上把手柄推向(FILTER)正常过滤,然后启动水泵,泳池水便透过水泵引入沙缸进水口,之后由进水中流到分 水器,再流入沙缸内,水经过沙的过滤流进缸的底部,再经过滤管进入过滤主管,水在管道中向上流往出水口,之后由管道 系统注入泳池中。

经过一段时间后累积的污物,会影响水的流量。这个时候便需要进行清洗沙缸。把缸头控制器上的手柄推向 (BACKWASH) 倒冲洗,水流便由过滤主管进入,经缸底的过滤管排出,水流从底部向上升,把沙层内的污物排出。之后把控制 器推向(RINSE)清洗管内之污物从沙缸排出。大约半分钟或1分钟后,把手柄推向(FILTER)正常过滤。 注意:转换阀门位置时要先关掉水泵电源。

INSTALLATION 安装说明

- Only simple tools (screwdriver and wrenches), plus pipe sealant for plastic adapters, are required to install and service the filter. 1) The filter should be placed on a level concrete slab, very firm ground, or equivalent. Position the filter so that the piping connections, control valve are convenient and accessible for operation and service.
- 2) Loading the sand media. Filter sand media is loaded through the top opening of the filter. a) Loosen flange clamp and remove filter control valve (if previously installed). b) Cap internal pipe with plastic cap to prevent sand from entering it.
 - the under-drain laterals from excessive shock.
- leveled and should come to about the middle of the filter tank. Remove plastic cap from internal pipe. 3) Assemble filter control valve to filter tank.
- a) Insert filter control valve (with O'ring in place) into the tank neck, taking care that the center pipe slips into the hole in the bottom of the valve. b) Place two plastic clamps around valve flange and tank flange and tighten just enough so that the valve may be rotated on tank for final positioning
- c) Carefully screw pressure gauge (with O'ring in place) into tapped hole in valve body. Do not over-tighten.
- d) Connect pump to control valve opening marked PUMP. After connections are made tighten valve flange clamps withscrewdriver, tapping around clamp with screwdriver handle to help seat valve flange clamp.





C) We recommend filling tank approximately 1/2 way with water to provide a cushion effect when the filter sand is poured in. This helps protect

d) Carefully pour in correct amount and arade of filter sand. (Be sure center pipe remains centered in opening.) Sand surface should be



- 4) 接驳管道由出水口到泳池过滤回水口,同时各管道安装要求平行或垂直,另外要由进水口连接到水泵的出水口等等。
- 5) 接驳好电源后给水泵运作。
- 6)为了防止漏水,使用前检查所有管道是否接合妥当。

·MAIN DIMENSION 沙缸尺寸图



DIMENSION TABLE 尺寸表

Model 型号	High 高 mm A	Diameter 直径 mm B	Valve Port Size 多向阀管径 Inch	Sand 沙重 kg
HD13300	1300	343	1"	75
HD13350	1300	390	1"	98
HD13400	1300	450	1"	130
HD15300	1500	343	1"	86
HD15350	1500	390	1"	118
HD15400	1500	450	1"	154

INSTALL/START-UP OF FILTER 调试说明

- 1) Be sure correct amount of filter media sand is in tank and that all connections have been made and are secure.
- 2) Depress control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning.) 3) Prime and start pump according to pump instructions (be sure all suction and return lines are open), allowing the filter tank to fill with water. Once water is flowing out of the waste line, run the pump for at least 1 minute. The initial back-washing of the filter is recommended to remove any impurities or fine sand particles in the sand media.
- 4) Turn pump off and set valve to RINSE position. Start pump and operate until water in sight glass is clear, about 1/2 to 1 minute. Turn pump off and set valve to FILTER position and restart pump. The filter is now operating in the normal filter mode, filtering dirt particles from the pool water.
- 5) Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.
- 6) Note the initial pressure gauge reading when the filter is clean. (It will vary from pool to pool depending upon the pump and general piping system.) As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 1.5 bar, higher than the initial "clean" pressure you noted, it is time to backwash the filter (see BACKWASH under filter and control valve functions)

NOTE: During initial clean-up of the pool water it may be necessary to backwash frequently due to the unusually heavy initial dirt load in the water.

1) 确定沙缸内的沙数量正确,同时所有管道系统连接妥当。

- 2) 将阀门控制手柄压下再转向倒冲洗位置,为了防止阀门控制密封装置不受损坏,用阀门控制前一定要先压下手柄才转动。
- 3) 按照水泵程序起动(确定所有进水和出水管道是开启)给水进入沙缸。作为首次启动系统,水泵最少也运行一分钟,另外建 议最初先使用反冲洗功能,因为可以除去系统内的污垢或过滤沙中较细的粒子。
- 4)停水泵,同时沙缸头转向清洗及排出污物的位置。之后开水泵,直至清水镜的水清澈,大约半至一分钟,便停泵。这时沙缸 便进入正常过滤模式,把泳池水的污物过滤。
- 5)调节过滤系统适合的水流。然后再检查系统,沙缸和接合位置是否漏水,螺栓或螺母等是否妥当。
- 6)当沙缸清洁时便摘录下压力表的读数。(读数的变化将会受泳池水泵和水管系统影响)。如沙缸过滤池水把污物留下,而 累积污物会造成压力上升和水流减慢。当压力表读数是1.5巴,相对比当初(清洁)记录要高,这时要使用反冲洗沙缸。(参 考反冲洗功能简介)
- 注意: 在过滤系统启动初期,将要多次使用反冲洗功能,因为初期的泳池水一定有污垢,流入沙缸便会积聚较多污垢和微粒。



REPLACEMENT PARTS OF MULTIPORT VALVE 多向阀组件位置图

项目	部件编号	中文	產品資料/說明	数量
key No.	Part No.	Chinese	Product Description	Qty
1	01013042	高压缸头手柄	Handle for 1.5" High-Pressure Valve	1
2	03018010	手柄固定销	Pin for Handle	1
3	01181001	大介子	Washer for Handle	1
4	01270002	高压缸头上身	1. 5"High-Pressure Valve Cover	1
5	03011033	M6×25圆头机丝	M6*25 Screw With Nut	8
6	03013001	M6螺母	M6 Nut	8
7	02020015	胶圈 ф16(外)× ф3	O-Ring	1
8	01013044	高压缸头排气螺丝	1.5" High-Pressure Valve Air Release Valve	1
9	01111048	压力表牙套	Connector for Pressure Gauge/Stopper	1
10	02020014	胶圈 ф16(外径)× ф2.5	O-Ring Drain Plug	1
11	01111017	扭制	Drain Plug with O' Ring	1
12	02020015	压力表胶圈	O-Ring for Pressure Gauge	1
13	06011031	底出油压表100psi	S/S Pressure Gauge With O-ring (100Psi)	1
14	01181002	小介子	Washer for Spring	1
15	02010001	胶圈 ф 27.5(外)× ф 19.5X3.5	O-Ring for Rotor	2
16	03014014	弹簧	Spring	1
17	01021005	高压缸头分水器	1. 5"High-Pressure Valve Rotor	1
18	02011012	分水器止水圈	Spider Gasket	1
19	02011144	胶圈	O-Ring for 1.5" High-Pressure Valve Body	1
20	01020008	高压缸头下身	1. 5"High-Pressure Valve Body Assembly	1
21	02011008	清水镜胶垫	Sight Glass	1
22	01041004	清水镜	O-Ring for Sight Glass	1
23	01013043	高压缸头出水篮	1. 5"High-Pressure Valve Diffuser	1
24	02011016	胶圈	O-Ring for Diffuser	1
25	02020024	高压缸头颈环夹圈	O-Ring	1
26	01150001	1寸外牙咀英制1寸	1″ Union (A)	3
	01150050	1寸外牙咀公制1寸	1″ Union (E)	3

中文	產品資料/說明	
Chinese	Product Description	Qty
缸頭	1.0"Top Mount High-Pressure Valve	1
卜牙咀	1" Union	3
	O-Ring for Filter Neck	1
3300沙缸身连底座	HD13300Filter Tank With Base	1
5300沙缸身连底座	HD15300Filter Tank With Base	1
3350沙缸身连底座	HD13350Filter Tank With Base	1
5350沙缸身连底座	HD15350Filter Tank With Base	1
3400沙缸身连底座	HD13400Filter Tank With Base	1
5400沙缸身连底座	HD15400Filter Tank With Base	1
3300\HD13350\HD13 中心管带过滤芯	HD13300\HD13350\HD13400 Lateral Assembly with Center Pipe	1
5300\HD15350\HD15 中心管带过滤芯	HD15300\HD15350\HD15400 Lateral Assembly with Center Pipe	1

