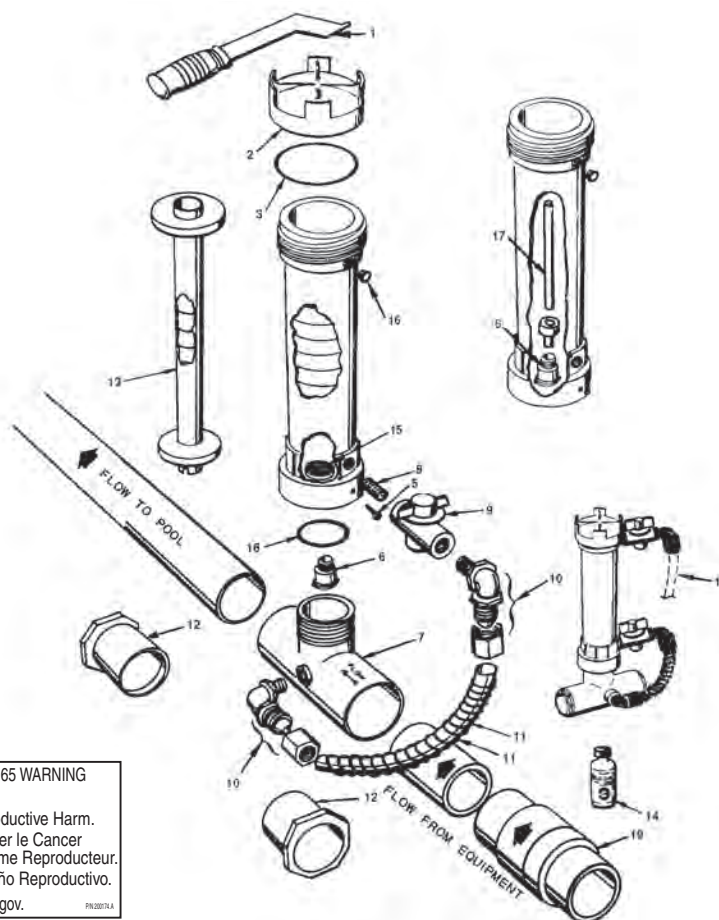


AUTOMATIC FEEDER - MODEL 320 REPLACEMENT PARTS



CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.
⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

Item	Qty.	Part No.	Description	US List	Can. List
Order No.: R171096					
Model No.: 320					
Description: IN-LINE AUTOMATIC FEEDER					
1	Opt.	R172052	Cap wrench	47.98	57.65
2	1	R172008W	3 in. threaded cap - white	28.57	34.33
3	1	R172009Z	O-ring, cap	11.09	13.33
5	1	R01052	Lock screw	2.31	2.78
6	1	R172248Z	Check valve	16.46	19.78
7	1	R172317	Diverter tee 1-1/2 NPT x 2 in. slip	42.58	51.16
8	1	R172256Z	1/2 in. x Short MPT nipple	9.13	10.97
9	1	R172086Z	1/2 in. Control valve	82.42	99.04
10	2	R172272Z	1/2 in. NPT x tube 90° ELL w/nut	11.74	14.11
10	Opt.	R172274Z	Compression nut only (for R172272Z)	4.29	5.15

Item	Qty.	Part No.	Description	US List	Can. List
11	1	R172091	5/8 in. o.d. Short feeder tube	8.87	10.66
11	Opt.	R171097Z	Tube support spring	9.13	10.97
12	2	R172210	2 in. x 1-1/2 in. S x S bushing for 1-1/2 in. PVC only ¹	9.13	10.97
13	Opt.	R172037	Spa chamber	26.24	31.53
14	1	R172036Z	Silicone lubricant, 3/4 oz.	15.53	18.66
15	1	210396Z	Screen	5.03	6.04
16	1	R172134	1/2 in. NPT PVC plug	10.05	12.08
17	1	R172253Z	5/8 in. o.d. 18 in. tube (optional top feed)	9.11	10.95
18	1	R172319Z	Bottom O-ring	2.31	2.78
19	Opt.	R172288	1-1/2 in. Corrosion resistant check valve	170.00	204.27

¹ Not used with 2 in. PVC.

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HIGH-CAPACITY AUTOMATIC FEEDERS **MODELS HC-3315, HC-3330, HC-3340** REPLACEMENT PARTS

Item	Qty.	Part No.	Description	US List	Can. List
Order No.: R171215, R171230, R171240					
Model No.: HC-3315, HC-3330, HC-3340					
Description: HIGH CAPACITY AUTOMATIC FEEDER					
1	1	R172214	Lock ring	28.07	33.73
2	1	R172385D	Lid assembly complete	49.54	59.53
12	1	R270531	1 in. Threaded union	28.67	34.45
13	1	R172439	Control valve	132.66	159.40
14	1	R172036Z	Silicone lubricant, 3/4 oz.	15.53	18.66
15	Opt.	R172288	1-1/2 in.-2 in. Check valve	170.00	204.27
16	1	R175009	Hose Bib w/t Handle 1/2 in.	28.23	33.92
NOT SHOWN					
		R172082	Flow rate indicator	CALL	CALL



CALIFORNIA PROPOSITION 65 WARNING

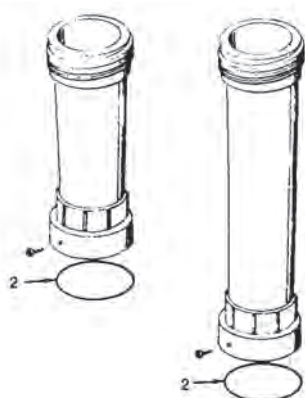
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EXTENSIONS / DISPENSERS / FLOW INDICATORS

REPLACEMENT PARTS

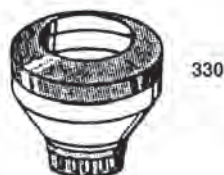


R172087

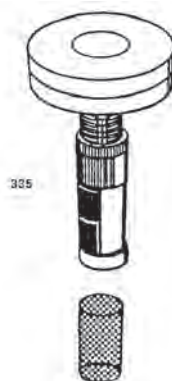
R172283



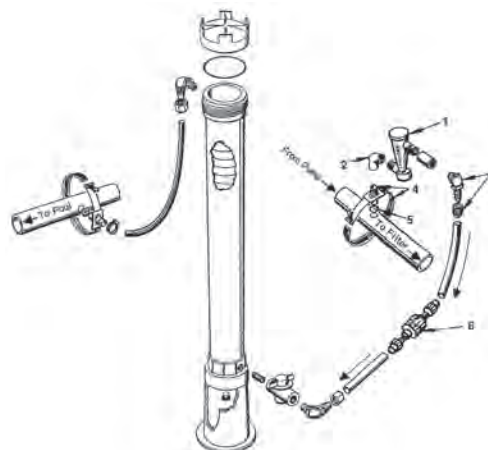
R172080Z



R171086



R171090



R172627

Item	Qty.	Part No.	Description	US List	Can. List
Order No.: R172087		10 IN. EXTENSION COMPLETE			
Order No.: R172283		20 IN. EXTENSION COMPLETE			
2	1	R172009Z	O-ring	11.09	13.33
Order No.: R172080Z		Description: FLOW INDICATOR			
3	1	R172020	Check valve	7.54	9.06
Order No.: R172627		Description: CORROSION RESISTANT FLOW INDICATOR			
1	1	R172276	Commercial flow indicator	111.89	134.45
2	1	R270422	1/2 in. x 90° Elbow FPT	9.42	11.32
3	1	R172272Z	1/2 in. x 90° NPT x tube fitting with nut	11.74	14.11
4	1	R172628	Saddle clamp with inlet fitting (threaded)	39.44	47.39
5	1	R172263Z	Saddle gasket	3.44	4.13
6	1	R172324	1/2 in. Corrosion resistant check valve. Tube x tube	CALL	CALL
Order No.: R171086		Model No.: 330			
Description: FLOATING DISPENSER					
1	1	R18729B	Lid only (new style – fits 'B' body)	9.13	10.97
Order No.: R171130		Description: SPLASHER POOL/SPA DISPENSER			
Order No.: R171090		Model No.: 335			
Description: SPA OR SMALL POOL FLOATING DISPENSERS					

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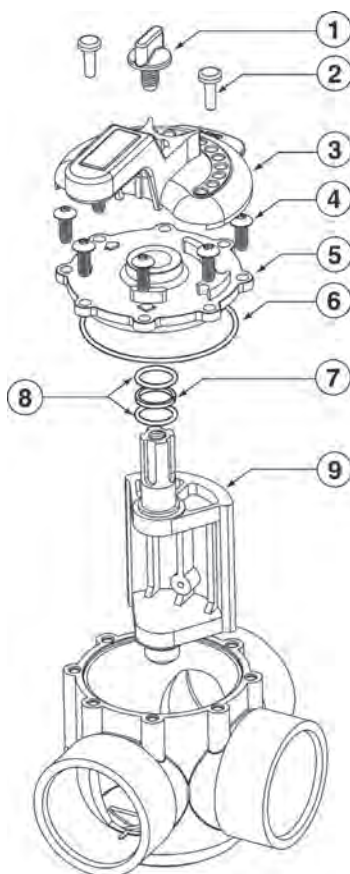
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VALVE PARTS

Product Catalog 2025–2026

DIVERTER VALVES – 1-1/2 IN. AND 2 IN.

REPLACEMENT PARTS (PACFAB AND COMPOOL VALVES)



CALIFORNIA PROPOSITION 65 WARNING

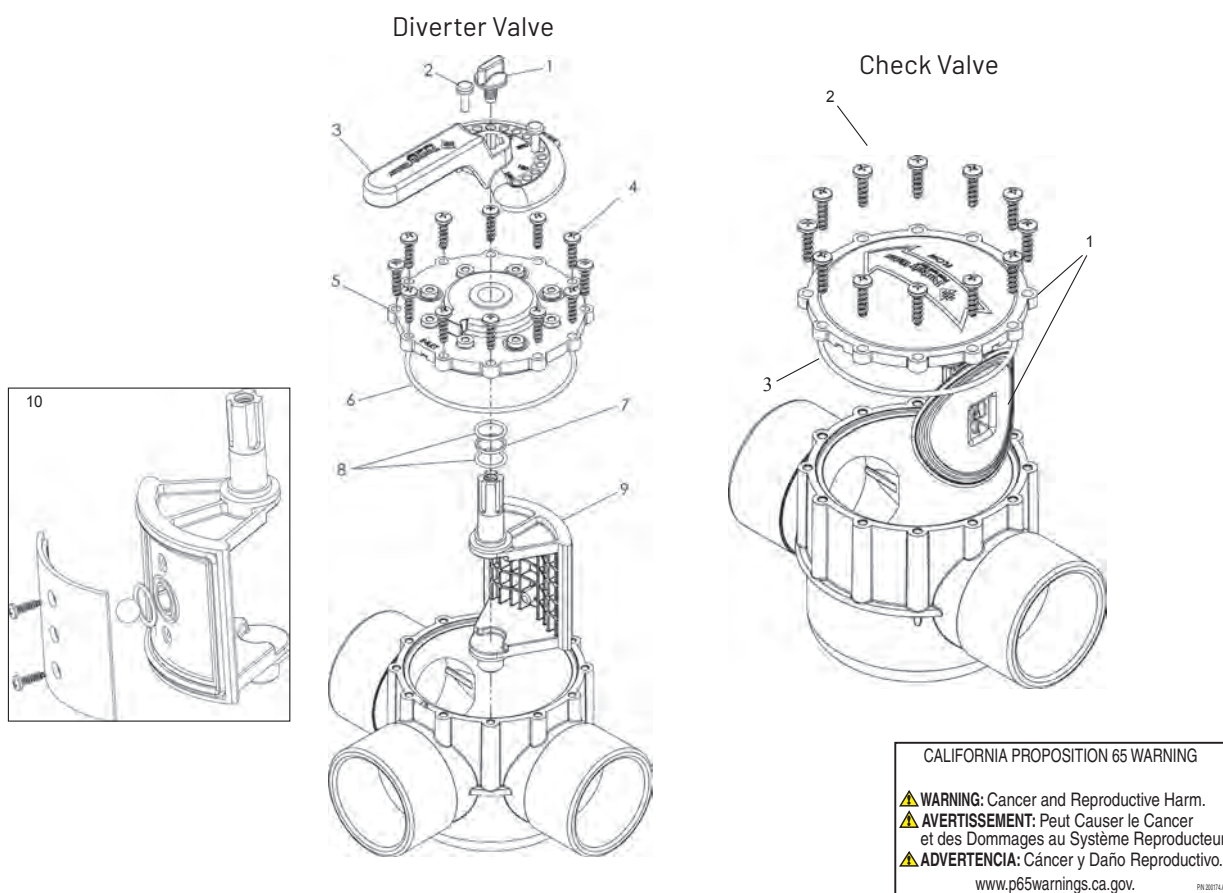
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Item No.	Part No.	Description	US List	Can. List
DIVERTER VALVES – 1-1/2 IN. AND 2 IN.				
1	270032	Handle Knob 2 & 3-Way Valve	30.02	36.07
2	270021	Pin stop 2 & 3-Way Valve	CALL	CALL
3	270028	Handle 2 & 3-Way Valve	CALL	CALL
4	520389	Screw Kit, (8 Screws)	62.63	75.26
5	270030	Cover CPVC 2 & 3-Way Valve	CALL	CALL
6	51016200Z	O-ring #2-152 Buna 70 Shore	5.84	7.02
7	270038	Spacer ring	CALL	CALL
8	192039Z	O-ring #2-116 Buna 70 Shore	4.04	4.85
9	270056	Diverter assy. 2 & 3-Way Valve, (2–2-1/2 in.) ¹	108.28	130.11
9	270075	Diverter assy. 2 & 3-Way Valve, (1-1/2–2 in.) ¹	124.52	149.62
9	270094	Diverter assy. 3-Way Solar Valve w/ drain down, (2–2-1/2 in.)	181.53	218.13
NOT SHOWN				
	263042Z	Check Valve Replacement Kit	126.66	152.19

¹ Includes: P/N 270038 (Spacer split ring) and P/N 192039Z (O-ring).

FULLFLOXF® DIVERTER & CHECK VALVES – 2-1/2 IN. & 3 IN.

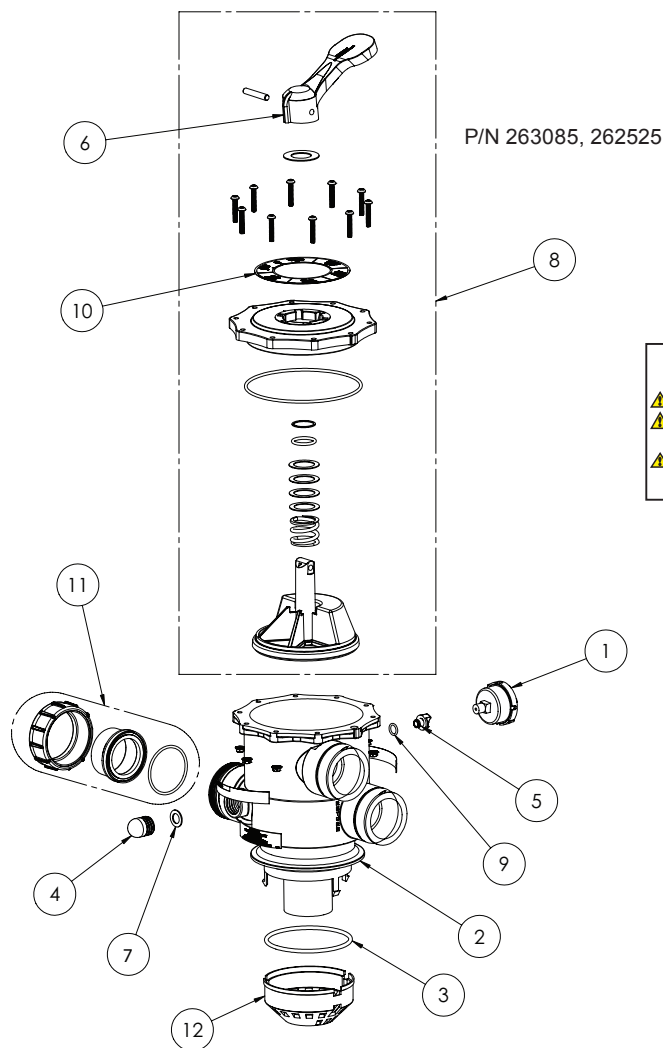
REPLACEMENT PARTS



Item No.	Part No.	Description	US List	Can. List
DIVERTER VALVE				
1	271074Z	Screw Handle Lock	27.64	33.21
2	271072Z	Pin Handle Stop	3.49	4.19
3	270118Z	Handle	CALL	CALL
4	271077Z	Screw Kit (12 screws/kit)	CALL	CALL
5	270115Z	Diverter Valve Cover	41.20	49.51
6	270116Z	O-Ring, 2-248 Buna-N 70 Shore A (1 req.)	12.87	15.46
7	271073Z	O-ring, Spacer (1 req.)	6.46	7.76
8	192039Z	O-Ring, 2-116 Buna-N 70 Shore A (2 req.)	4.04	4.85
9	270106Z	Diverter Shaft Assy	139.13	167.18
10	270107Z	Diverter Assy Solar 3-Way Valve w/ Drain Down Check Valve	206.62	248.27
CHECK VALVE				
1	270119Z	Check Valve Flapper Replacement Kit (includes items 2 & 3)	175.78	211.22
2	271077Z	Screw Kit (12 Screw/Kit)	111.84	134.39
3	270116Z	O-Ring 2-248 Buna-N 70 Shore A (1 req.)	12.87	15.46

2 IN. TOP MOUNT VALVE

REPLACEMENT PARTS


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PR030714A

Item	Part No.	Description	US List	Can List
6 POSITION TOP MOUNT CLAMP-ON MULTIPORT VALVE				
1	190059Z	Pressure Gauge	68.74	82.60
2	270210Z	Valve Body	128.74	154.69
3	272541	Valve Body O-Ring	12.79	15.37
4	272556Z	Sight Glass	26.74	32.13
5	272557Z	Drain Plug	26.56	31.91
6	272558Z	Handle	40.34	48.47
7	272567Z	Sight Glass Gasket	26.74	32.13
8	272568Z	Valve Top Assembly*	254.49	305.80
9	272573Z	Drain Plug O-Ring	26.83	32.24
10	272576Z	Valve Position Label	30.06	36.12
11	272590Z	Union Kit	75.77	91.05
12	274402Z	Diffuser	50.51	60.69

* Item #8 does not include screws.

SIX-WAY 1-1/2 IN. TOP MOUNT HIFLOW™ VALVES

REPLACEMENT PARTS (PACFAB MULTIPOINT VALVES 262504, 262505, 262506)

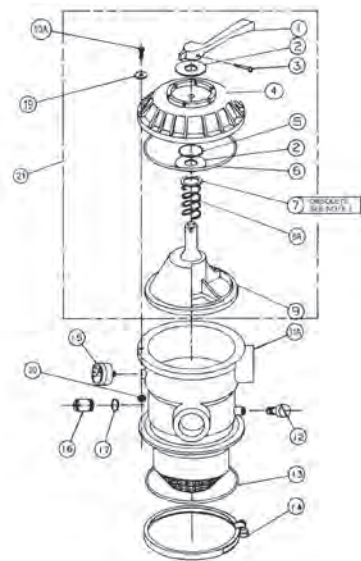
Item No.	Part No.	Description	US List	Can. List
6-WAY HIFLOW MULTIPOINT VALVES				
1	272520	Handle	39.18	47.08
2	272505Z	Washer plastic, 2 req.	4.42	5.31
3	272405Z	Screw - handle	2.57	3.09
4	272599	Six-way valve label	9.13	10.97
5	272511Z	O-ring - diverter shaft	2.48	2.98
6	354053Z	O-ring - valve top	43.39	52.14
7	271193Z	Washer - s/s ³	3.77	4.53
8	272400Z	Spring - comp. 100 lb. 1-13/16 o.d. ³	14.69	17.65
8A	272535Z	Spring - comp. 100 lb. 1-3/8 o.d. ³	7.85	9.43
9	272512	Diverter w/ gasket	84.05	100.99
10A	354541	Screw #10-24 hex pan head, 6 req. ⁴	3.44	4.13
11A	272530Z	Valve body w/ diffuser - clamp style	205.92	247.43
12	273512	Air bleeder with O ring ²	18.26	21.94
13	272541	O-ring - 3/16 in. x 4-5/8 in. i.d.	12.79	15.37
14	152165	Clamp	39.18	47.08
15	190059Z	Pressure gauge	68.74	82.60
16	272550	Sight glass ¹	20.79	24.98
17	271106	Gasket - sight glass ¹	4.66	5.60
18	154493	O-ring	8.49	10.20
19	272555Z	Washer - 9/16 s/s, 6 req. ⁴	2.57	3.09
20	272554Z	Nut - #10-24 serrated flange s/s, 6 req. ⁴	3.13	3.76
21	272531	HiFlow 1-1/2 in. top valve assy.	257.37	309.26

¹ VALVES MANUFACTURED BEFORE MARCH 1, 1993 DO NOT CONTAIN ITEM 16 SIGHT GLASS OR ITEM 17 SIGHT GLASS GASKET.

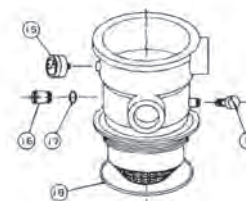
² CLAMP STYLE VALVES MANUFACTURED BEFORE MARCH 1, 1993 CONTAIN A DIFFERENT AIR BLEEDER WITH O-RING P/N 272515. THIS PART IS NOT INTERCHANGEABLE WITH P/N 273512. THREADED VALVES MANUFACTURED BEFORE MARCH 1, 1993 DO NOT CONTAIN AN AIR BLEEDER WITH O-RING.

³ ITEM 8A USED ON VALVES MANUFACTURED AFTER MAY 1, 1992 AND REPLACES BOTH ITEMS 7 AND 8.

⁴ ITEMS 10A, 19 AND 20 ARE USED ON VALVES MANUFACTURED AFTER APRIL 15, 1994 AND REPLACE ITEM 10.



For (262504) (262505)(262506)
Clamp Style Valve For TA-D Filters



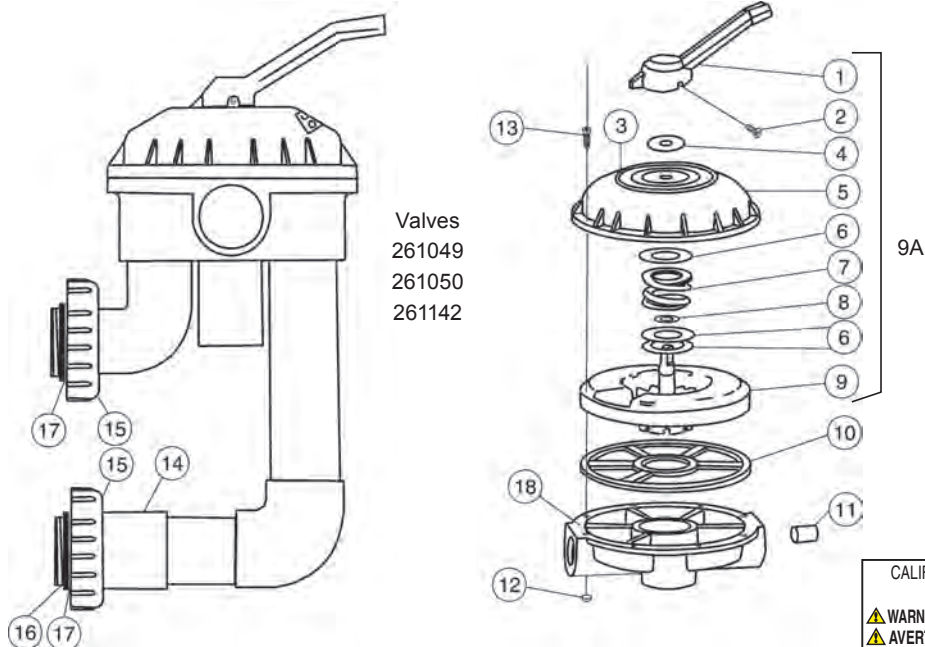
For (261130) 6 in.
Buttress Style Valve For
TA Filters

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2 IN. HI-FLOW™ VALVES

REPLACEMENT PARTS FOR VALVES



Item	Part No.	Description	US List	Can. List
2 IN. HI-FLOW VALVES				
1	272520	Handle	39.18	47.08
2	272405Z	Screw - Handle	2.57	3.09
3	272120	Label	CALL	CALL
4	272402Z	Washer - Plastic	4.48	5.38
5	272412Z	Valve Top	88.88	106.80
6	271193Z	Washer - 18 GA., 2 req.	3.77	4.53
7	272400Z	Spring - Compression	14.69	17.65
8	JV18	O-ring Kit Bag	1.72	2.07
9	272413Z	Diverter	157.06	188.72
9A	272422	Valve top assy. ¹	336.91	404.83
10	272409	Seal - Diverter	61.19	73.53
11	154566Z	Sight Glass 2 in. clear	23.92	28.74
12	98211400Z	Nut 1/4 in.- 20 Hex, 8 req.	4.36	5.24
13	272403Z	Screw 1/4 in.- 20, 8 req.	2.75	3.30
15	274407	Nut - Bulkhead adapter, 2 req.	CALL	CALL
16	274426	Adapter - Union Kit	CALL	CALL
17	274494	O-ring - Bulkhead adapter, 2 req.	CALL	CALL
18	272433	Valve btm. 2 in. w/ gasket ²	209.09	251.24

¹ This part number includes items 1 thru 9.

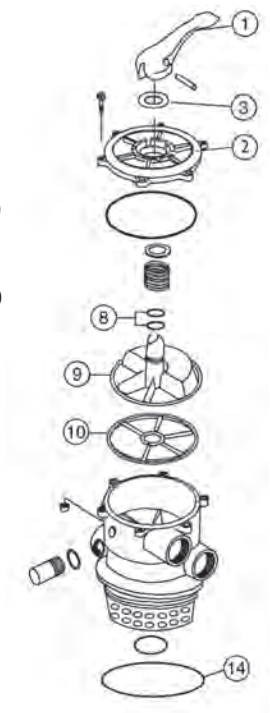
² 272433 valve btm. 2 in. w/ gasket contains one each of: 272409 seal diverter and 272415Z Plate 2 in. valve btm.

TOP MOUNT CLAMP-ON MULTIPORT VALVES

REPLACEMENT PARTS FOR AMERICAN VALVES

P/N 50113100
1-1/2 in. thrd.

P/N 50123100
2 in. slip



Item	Part No.	Description	US List	Can. List
6 POSITION TOP MOUNT CLAMP-ON MULTIPORT VALVE				
1	271156	Handle	51.83	62.28
8	191479	O-ring	2.11	2.54
10	271104	Gasket, spider, 1-1/2 in. valve	41.61	50.00
10	271148Z	Gasket, spider, 2 in. valve	50.44	60.61

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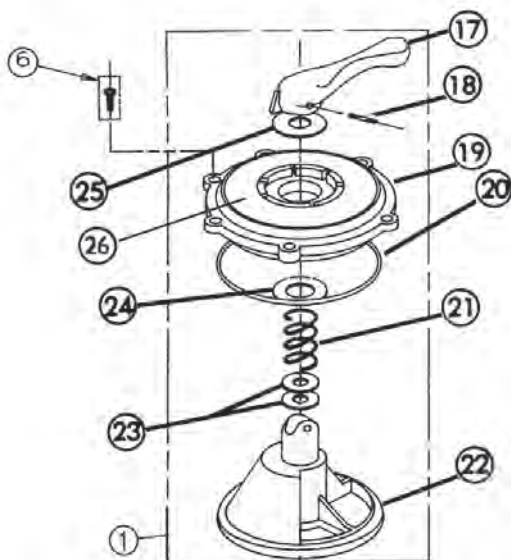
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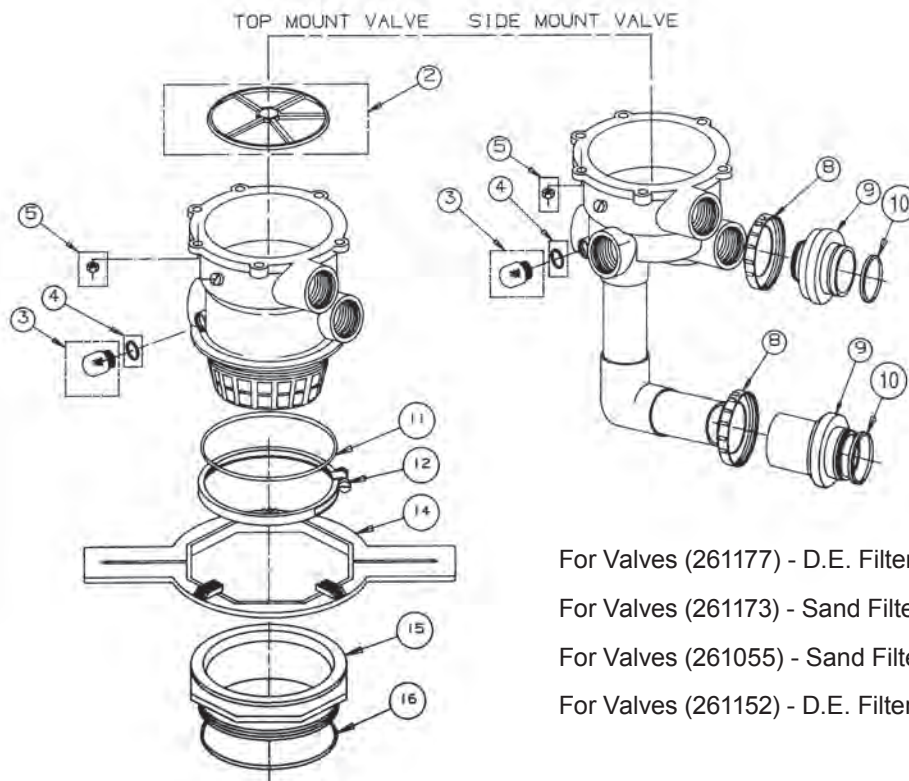
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TOP MOUNT / SIDE MOUNT VALVES

REPLACEMENT PARTS FOR PACFAB MULTIPORT VALVES



For use on TR, TA, NS
or FNS filters



For Valves (261124, 261185)

For Valves (261177) - D.E. Filters

For Valves (261173) - Sand Filters

For Valves (261055) - Sand Filters

For Valves (261152) - D.E. Filters

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TOP MOUNT / SIDE MOUNT VALVES (CONT'D)

REPLACEMENT PARTS FOR PACFAB MULTIPORT VALVES

Item	Part No.	Description	US List	Can. List
TM/SM HI-FLOW MULTIPORT VALVES				
1	270068	Top valve assy. 1-1/2 in.	311.25	374.00
1	270067	Top valve assy. 2 in.	373.97	449.36
2	271104	Gasket - diverter, 1-1/2 in.	41.61	50.00
2	271148Z	Gasket - diverter, 2 in.	50.44	60.61
3	272550	Sight glass	20.79	24.98
4	271106	Gasket - sight glass	4.66	5.60
5	152167Z	Nut, M6 s/s, 6 req.	2.49	2.99
6	152168	Screw - M6 x 30mm s/s, 6 req.	3.44	4.13
8	274407	Nut - bulkhead adapter, 2 req.	CALL	CALL
9	274404Z	Adapter - valve, slip 1-1/2 in.	39.18	47.08
9	274651	Adapter - valve, threaded 1-1/2 in.	32.64	39.22
9	274556	Adapter - valve thread, 2 in.	24.30	29.20
10	274494	O-ring - adapter, 2 req.	CALL	CALL
11	272541	O-ring - valve adapter, 1-1/2 in.	12.79	15.37
11	275333	O-ring - valve, 2 in.	10.88	13.07
12	152165	Clamp with screws and nuts, 1-1/2 in.	39.18	47.08
12	152130	Band assy. - valve, 2 in.	166.16	199.66
14	154512	Wrench - flanged valve, 1-1/2 in.	41.19	49.49
14	151608	Wrench - adapter flange	CALL	CALL
15	155225	Adapter - flanged std. thread, 1-1/2 in.	60.86	73.13
15	152520Z	Adapter - flanged buttress, 1-1/2 in.	172.36	207.11

Item	Part No.	Description	US List	Can. List
15	154521	Adapter - flange buttress thread, 2 in.	108.20	130.01
16	154493	O-ring flanged valve adapter, 1-1/2 in.	8.49	10.20
17	271156	Handle	51.83	62.28
18	271164	Pin, handle	20.90	25.11
19	271158Z	Valve top, white, 1-1/2 in.	94.51	113.56
19	271165	Valve top, black, 1-1/2 in.	94.76	113.86
19	271166	Top valve cover, blk, 2 in.	141.62	170.17
19	271169	Top valve cover, blk, 2 in.	205.02	246.35
20	271103	O-ring, valve top, 1-1/2 in.	24.60	29.56
20	271151	O-ring, valve top, 2 in.	30.29	36.40
21	271161	Valve spring	70.14	84.28
22	271163	Valve diverter, 1-1/2 in.	126.09	151.51
22	271168	Valve diverter, 2 in.	141.62	170.17
23	191479	O-ring, stem, 2 req.	2.11	2.54
24	271160Z	Washer, valve spring	15.33	18.42
25	271157	Washer, handle	15.33	18.42
26	273208	Label 2 in. Sand (261055)	CALL	CALL
26	273207	Label 2 in. D.E. (261152)	CALL	CALL
26	271140	Label 1.5 in. Sand (261173)	CALL	CALL
26	271141	Label 1.5 in. D.E. (261177)	CALL	CALL
26	273211	Label 2 in. Sand (261185)	CALL	CALL

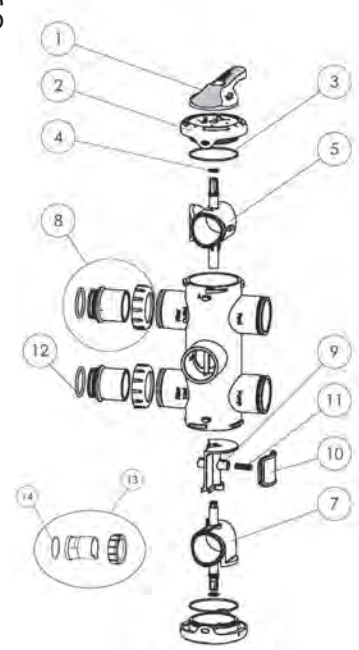
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FULLFLOXF® BACKWASH VALVE

REPLACEMENT PARTS FOR VALVES

Item	Part No.	Description	US List	Can. List
FULLFLOXF BACKWASH VALVE				
1	270187Z	Handle	77.99	93.71
2	270190Z	End Cap, 2 Req.	67.62	81.25
3	270197Z	O-Ring #2-244 Buna, 2 Req.	12.48	15.00
4	192039Z	O-Ring #2-116 Buna, 2 Req.	4.04	4.85
5	270199Z	Outlet Diverter	104.02	124.99
7	270200Z	Inlet Diverter	104.02	124.99
8	274426Z	Pentair Union Assembly	77.99	93.71
9	274416Z	Center Diverter	77.99	93.71
10	274417Z	Waste Seal	77.99	93.71
11	274421Z	Waste Seal Spring	18.20	21.87
12	274494	O-Ring #2-332 Buna	CALL	CALL
13	261067Z	Sta-Rite Union Assembly	78.20	93.97
14	U9-362	O-Ring #2-231 Buna	7.94	9.54
NOT SHOWN				
	270514Z	Rebuilt Kit includes Item 3 (Qty. 2), Item 4 (Qty. 2), and Items 5, 7, and 10.	260.00	312.42
	411101Z	XF Union Kit	156.01	187.46



CALIFORNIA PROPOSITION 65 WARNING

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www.p65warnings.ca.gov

PN 200714

MULTIPORT SIDE MOUNT 1-1/2 & 2 IN. VALVES

REPLACEMENT PARTS FOR STA-RITE VALVES

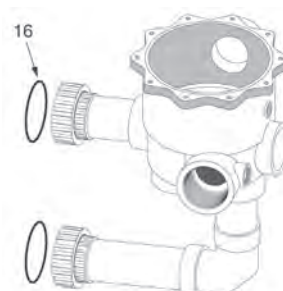
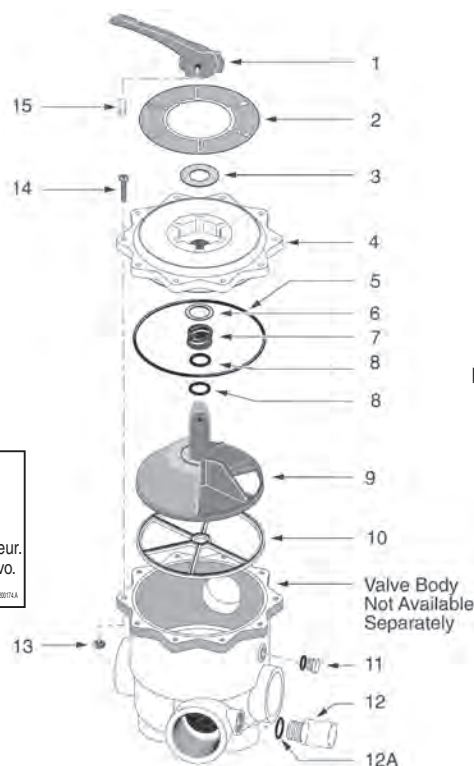


MODELS

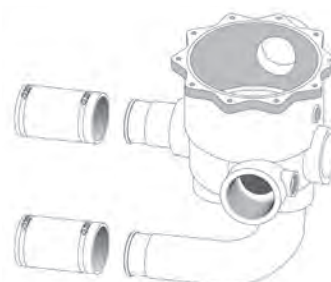
18202-0150
18202-0150H
18201-0200
18201-0200H
18201-0300
18202-0250

CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
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www.p65warnings.ca.gov PR 201714



Models 18202-0150, 18201-0200, and 18201-0300 include union halves as shown.



Models 18202-0150H and 18202-0200H require hose connector kits.

Item	Part No.	Description	US List	Can. List
MULTIPORT SIDE MOUNT 1-1/2 & 2 IN. VALVE				
1	14971-SM10E1	Handle	61.35	73.72
2	32155-4133	Label Decal (1.5 in. Valve) (18202-0150 & 18202-0150H)	CALL	CALL
3	14971-SM10E3	Washer	17.53	21.06
5	14971-SM20E7	Cover O-Ring (2 in. Valve)	26.07	31.33
6	14971-SM10E8	Washer	17.53	21.06
7	14971-SM10E9	Spring	76.59	92.03
8	14971-SM10E10	O-Ring	15.72	18.89
9	14971-SM10E11	Plug (1-1/2 in. Valve)	103.31	124.14
9	14971-SM20E11	Plug (2 in. Valve)	98.38	118.21
10	14971-SM10E12	Spider Gasket (1-1/2 in. Valve)	31.56	37.92
10	14971-SM20E12	Spider Gasket (2 in. Valve)	68.93	82.83
11	U178-920PZ	1/4 in. NPT Plug w/ O-Ring	8.07	9.70
12	14971-SM10E17	Sight Glass	26.57	31.93
16	U9-362	O-Ring (-0150, -0200 only)	7.94	9.54

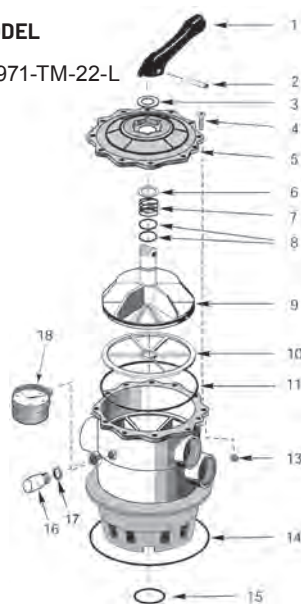
MULTIPORT 2 IN. VALVES

REPLACEMENT PARTS FOR STA-RITE VALVES



MODEL

14971-TM-22-L



Item	Part No.	Description	US List	Can. List
MULTIPORT 2 IN. VALVE				
1	14971-SM10E1	Handle (ABS)	61.35	73.72
3	14971-SM10E3	Washer	17.53	21.06
6	14971-SM10E8	Washer	17.53	21.06
7	14971-SM10E9	Spring (S.S. 304)	76.59	92.03
8	14971-SM10E10	O-Ring (Mitrile)	15.72	18.89
9	14971-SM20E11	Plug & Gasket Assembly	98.38	118.21
10	14971-SM20E12	Gasket (Kratom)	68.93	82.83
11	14971-SM20E7	O-Ring, Cover	26.07	31.33
14	U9-369Z	O-Ring, Tank Flange	26.55	31.90
15	35505-1243	O-Ring, Stand Pipe	5.61	6.74
16	14971-SM10E17	Sight Glass	26.57	31.93
18	15060-0000T	Gauge, Pressure	72.02	86.54
NOT SHOWN				
	14971-SM20E50	Key Assembly Items 1-10	596.23	716.43

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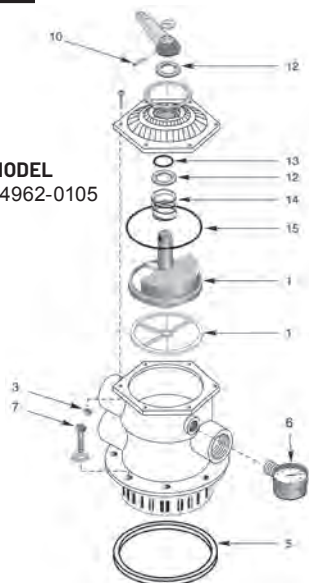
MULTIPORT TOP MOUNT 1-1/2 IN. VALVES

REPLACEMENT PARTS FOR STA-RITE VALVES



MODEL

14962-0105



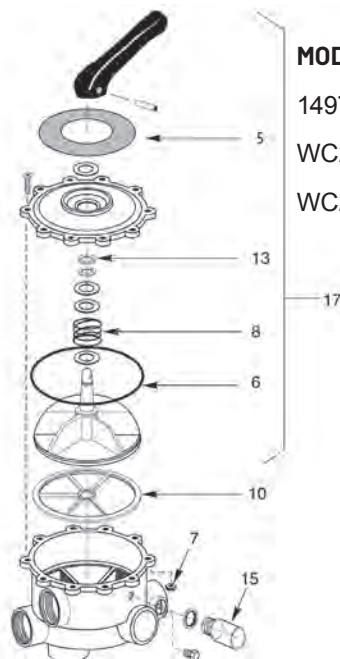
Item	Part No.	Description	US List	Can. List
MULTIPORT TOP MOUNT 1-1/2 IN. VALVE				
1	14962-0017	Plug with Gasket	CALL	CALL
3	98211400Z	Hex Nut, 1/4-20 S.S.	4.36	5.24
6	15060-0000T	Pressure Gauge - 0-60 PSI	72.02	86.54
7	U30-74SSZ	Bolt, 3/8-16 x 1 in. S.S.	7.00	8.41
NOT SHOWN				
	14962-0035	Spring and O-ring Kit, includes items 12, 13, 14 & 15	66.72	80.17

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MULTIPORT SIDE MOUNT 2 IN. VALVE PLUG & GASKET KIT

REPLACEMENT PARTS FOR STA-RITE VALVES



MODELS

14971-0012

WC212-38

WC212-144P

Item	Part No.	Description	US List	Can. List
MULTIPORT 2 IN. VALVE PLUG & GASKET KIT				
10	14971-0005	Gasket, Valve Seat	137.56	165.29
15	14971-0009	Sight Glass	45.82	55.06
17	77704-0100	Cover and Plug Assembly Kit, includes items 5 & 9	CALL	CALL

¹ Kit includes 2 hoses, 4 clamps.

CALIFORNIA PROPOSITION 65 WARNING
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www.p65warnings.ca.gov PHS 201714A

FULLFLOW® VALVES

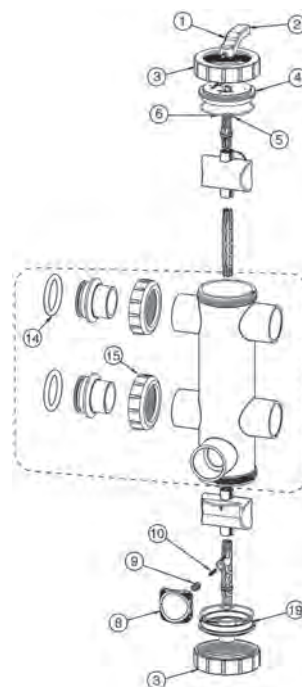
REPLACEMENT PARTS

Item	Part No.	Description	US List	Can. List
FULLFLOW VALVES				
2	072536	Screw	CALL	CALL
5	192039Z	O-ring #2-116 Bunan, 2 req.	4.04	4.85
6	275300	O-ring #2-154 Bunan 70, 2 req.	0.90	1.08
9	271065	Spring, .42 o. d..	6.50	7.81
10	270006	Spring, .24 o. d..	10.34	12.42
14	274494	O-ring, adapter, 2 req.	CALL	CALL
15	274440Z	Nut, adapter, 2 req. ¹	26.35	31.66

¹ Items may not be purchased separately, order item #20, Shaft Assy.

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FullFlow D. E. Valve
263011
7-1.2 in. Centerline
Filters

PUSH PULL VALVE

REPLACEMENT PARTS FOR AMERICAN VALVES

Item	Part No.	Description	US List	Can. List
PUSH PULL VALVES				
2	51013011	Nut	43.03	51.70
3	51013500	O-ring, nut	10.69	12.85
5	6020006	O-ring, cap	0.05	0.06
8	51005000	O-ring, valve stem, 2 in., 2 req.	11.08	13.31
9	273062	O-ring, bulkhead, 8 in. model only	2.57	3.09
11	274494	O-ring, bulkhead, 7-1/2 in. model only	CALL	CALL

Both items 9 and 10 are included in the kit for multiple applications. Choose only the one set appropriate for your application.

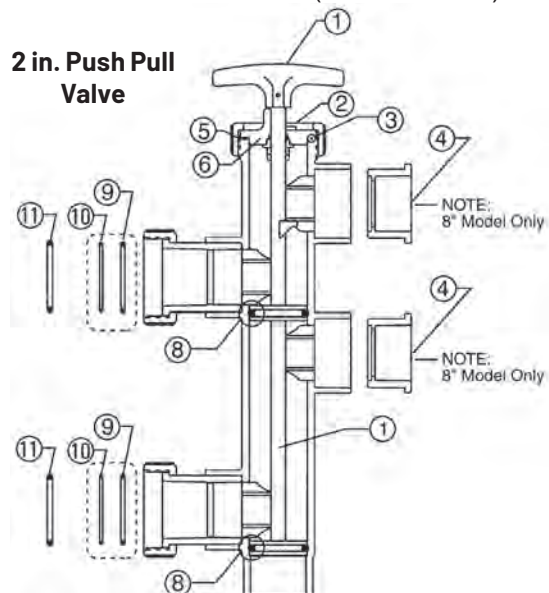
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MODELS

263064 (7-1/2 in. centerline)
50290211 (8 in. centerline)

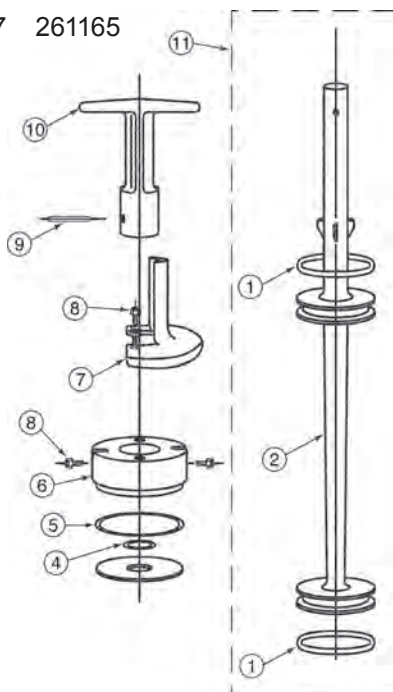
2 in. Push Pull Valve



2 IN. PVC SLIDE VALVE

REPLACEMENT PARTS FOR SLIDE VALVES

MODELS
261047 261165



Item	Part No.	Description	US List	Can. List
2 IN. PVC SLIDE VALVE				
1	273090	O-ring - 1-1/2 in. i.d. x 3/16 in. dia., 2 req.	4.19	5.03
4	JV18	O-ring Kit	1.72	2.07
5	273062	O-ring - 2-1/8 in. i. d. x 1/8 in. dia.	2.57	3.09
8	273071Z	Screw - #14 - 18-8 s/s, 4 req.	2.75	3.30
9	273063Z	Pin - 1/8 in. dia. x 1-1/8 in. long s/s.	4.66	5.60
10	273089	Handle for plastic shaft - 5/8 in. i.d.	27.10	32.56
11	273241Z	Piston rod assy.	153.33	184.24
NOT SHOWN				
	154566Z	Sight glass - 2 in. clear	23.92	28.74

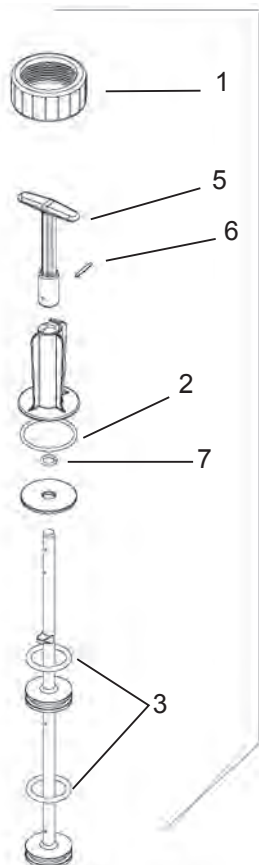
CALIFORNIA PROPOSITION 65 WARNING

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www.p65warnings.ca.gov

PN 260714A

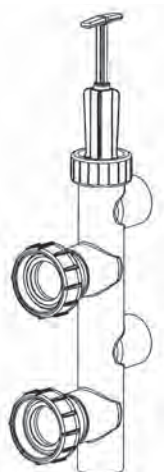
SLIDE VALVES

REPLACEMENT PARTS FOR SLIDE VALVES



MODELS

263064
263052 263078
263053 263079



263053

Item	Part No.	Description	US List	Can. List
SLIDE VALVE				
1	270141	Nut, Black SF PMP/VLV PSHPL	31.19	37.48
4	263055	Kit, Piston Shaft Assembly	168.85	202.89
5	270134Z	Handle	27.11	32.58
NOT SHOWN				
	263054	Kit, O-rings. Includes all valve O-rings.	33.34	40.06

CALIFORNIA PROPOSITION 65 WARNING

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www.p65warnings.ca.gov

PN 260714A

PLASTIC SLIDE VALVE

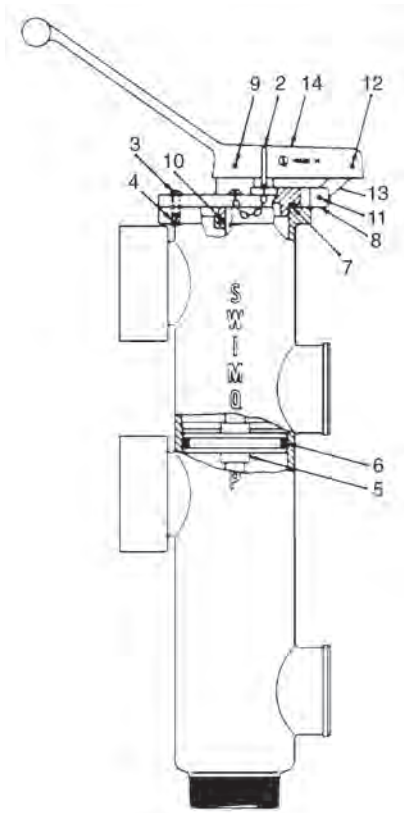
REPLACEMENT PARTS FOR STA-RITE PLASTIC SLIDE VALVE



MODEL

WC212-134P

14936-0000



Item	Part No.	Description	US List	Can. List
PLASTIC SLIDE VALVE				
6	35505-1318Z	O-Ring	8.13	9.77
7	35505-1246Z	O-Ring	6.98	8.39
8	14930-0012Z	Index Plate	50.44	60.61
10	35505-1116Z	O-Ring	6.71	8.06
13	14930-0016	Lever Linkage	6.44	7.74

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www.p65warnings.ca.gov

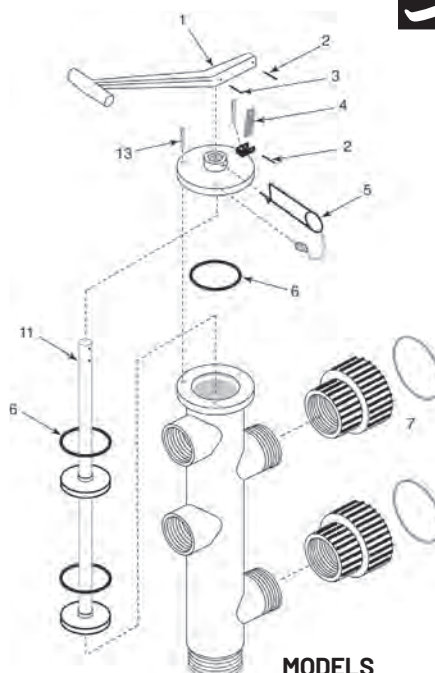
PR030714A

BRONZE VALVES

REPLACEMENT PARTS FOR STA-RITE VALVES



Item	Part No.	Description	US List	Can. List
BRONZE VALVE				
1	14821-0005	Lever Handle	102.13	122.72
4	14821-0008	Linkage	13.97	16.79
6	35505-1401	O-Ring	8.70	10.45
8	38405-4089	Union Adapter	CALL	CALL
11	14819-0011	Piston Assembly, 1-1/2 in.	246.12	295.74
NOT SHOWN				
	35505-1116	O-Ring	6.71	8.06



MODELS

WC212-135D – 1-1/2 in.

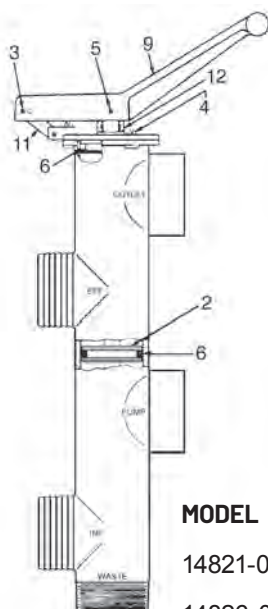
WC212-136D – 2 in.

CALIFORNIA PROPOSITION 65 WARNING

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BRONZE SLIDE VALVES

REPLACEMENT PARTS FOR STA-RITE VALVES



MODEL

14821-0000 – 1-1/2 in.

14826-0000 – 2 in.

Item	Part No.	Description	US List	Can. List
BRONZE SLIDE VALVE				
2	14819-0011	Piston Assembly with O-Rings	246.12	295.74
6	35505-1401	O-Ring (Model 14821-6000)	8.70	10.45
6	35505-1313	O-Ring	7.88	9.47
9	14821-0005	Lever Handle	102.13	122.72
11	14821-0008	Linkage	13.97	16.79
12	35505-1116	O-Ring	6.71	8.06

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NOTES:

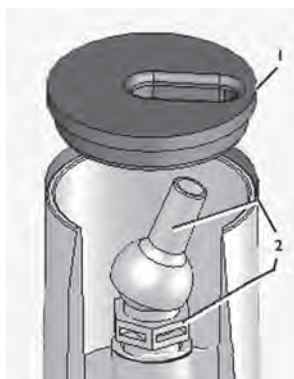
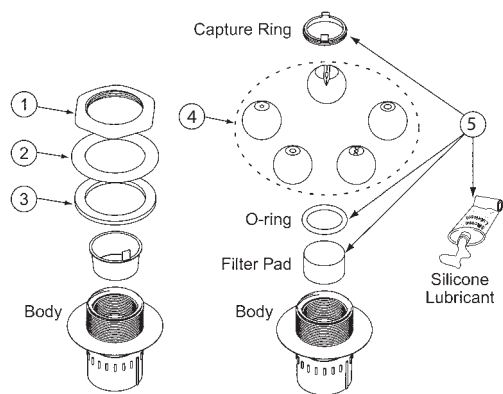
This image shows a full page of blank handwriting practice paper. It features approximately 28 evenly spaced horizontal blue lines across the entire page, providing a guide for letter height and placement. The lines are uniform in color and thickness, set against a plain white background. There are no margins, text, or other markings present.

WATER FEATURES PARTS

Product Catalog 2025–2026

DECK JET & MAGICSTREAM® DECK JET II

REPLACEMENT PARTS

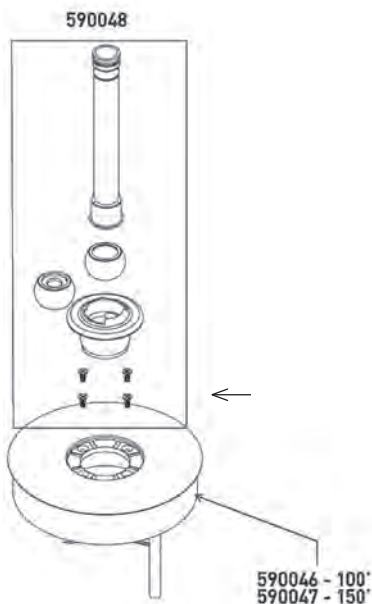


Item	Part No.	Description	US List	Can. List
DECK JET				
1	87200800	Fitting nut, sealing liner 2 in.	11.43	13.73
2	87200700	Friction ring, SIF	10.52	12.64
3	87201200	Gasket TH-AGF 3.5 in. OD x 2-3/8 in. ID	12.51	15.03
4	590010	Eyeball kit includes installation card	216.33	259.94
5	590011	Accessory kit includes Capture ring, 2 qty.; O-ring, 3 qty.; Filter Pad, 2 qty., Silicone Lubricant, 1 qty.	36.04	43.31

Item	Part No.	Description	US List	Can. List
MAGICSTREAM DECK JET II				
1	590042	MagicStream Deck Jet II cover, bronze color, each	95.44	114.68
1	590150	MagicStream Deck Jet II cover, tan color each, each	34.85	41.88
2	590041	MagicStream Deck Jet II Nozzle Kit (Includes nozzle base and nozzle swivel, set of 4)	187.03	224.74

COLORCASCADE LED LIGHT BUBBLER

REPLACEMENT PARTS



Item	Part No.	Description	US List	Can. List
COLORCASCADE LED LIGHT BUBBLER				
1	590046	LED Bubbler replacement light engine with 100 ft. cord	CALL	CALL
2	590047	LED Bubbler replacement light engine with 150 ft. cord	CALL	CALL
3	590048	Accessory Kit	CALL	CALL

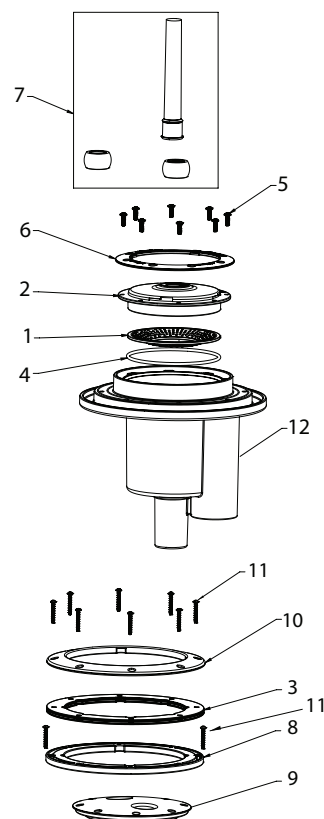
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COLORVISION® BUBBLER REPLACEMENT PARTS

Item	Part No.	Description	US List	Can. List
COLORVISION LED LIGHT BUBBLER				
1	590103Z	Diffuser	18.19	21.86
2	590104Z	Lens w/ O-Ring	36.34	43.67
3	590107Z	Gasket Kit, 3 Gaskets	49.99	60.07
4	590118Z	O-Ring	13.63	16.38
5	590119Z	Screw Kit Lens	18.19	21.86
6	590105Z	Color Ring - White	22.73	27.31
6	590128Z	Color Ring - Blue	22.73	27.31
6	590127Z	Color Ring - Gray	22.73	27.31
6	590129Z	Color Ring - Tan	22.73	27.31
6	590130Z	Color Ring - Black	22.73	27.31
7	590135	Eyeball Assembly Kit	40.89	49.13
8	590109Z	Vinyl Spacer	27.28	32.78
9	590102Z	Gunite Cover w/ O-Ring	31.79	38.20
10	590106Z	Vinyl/Fiberglass Ring - White	31.79	38.20
10	590132Z	Vinyl/Fiberglass Ring - Blue	31.79	38.20
10	590131Z	Vinyl/Fiberglass Ring - Gray	31.79	38.20
10	590133Z	Vinyl/Fiberglass Ring - Tan	31.79	38.20
10	590134Z	Vinyl/Fiberglass Ring - Black	31.79	38.20
11	590121Z	Screw Kit Vinyl/Fiberglass Ring	22.73	27.31
12	590147Z	Niche	182.24	218.98
NOT SHOWN				
580067	Complete Accessory Kit for Vinyl/Fiberglass Bubbler (includes items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11)		181.58	218.19
580068	Complete Accessory Kit for Gunite Bubbler (includes items 1, 2, 4, 5, 6, 7 & 9)		80.72	96.99



CALIFORNIA PROPOSITION 65 WARNING

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PRC201711A

MAGICFLAME®

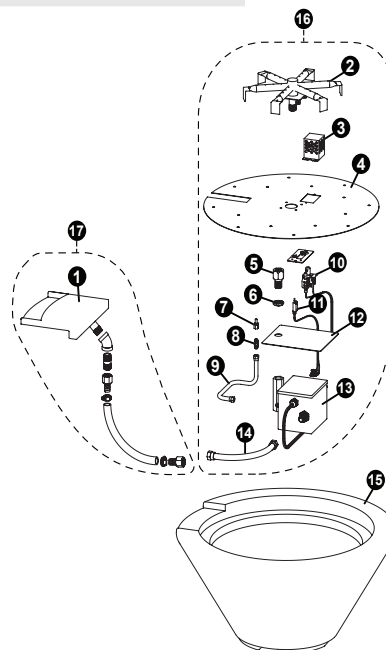
FIRE AND WATER BOWL REPLACEMENT PARTS

Item	Part No.	Description	US List	Can List
MAGICFLAME BOWL				
1	590293	Spillway (Square, Water Only)	288.61	346.79
1	590294	Spillway (Round, Water Only)	288.61	346.79
1	590295	Spillway (Square, Fire/Water)	577.23	693.60
1	590296	Spillway (Round, Fire/Water)	577.23	693.60
2	590283	Burner	288.61	346.79
3	590303	Pilot Hood	CALL	CALL
4	590301	Support Plate (Square, Fire Only)	360.76	433.49
4	590302	Support Plate (Round, Fire Only)	360.76	433.49
4	590292	Support Plate (Square, Fire/Water)	360.76	433.49
4	590284	Support Plate (Round, Fire/Water)	360.76	433.49
5	See Table to Side	Burner Orifice		
6	590286	Jam Nut	14.43	17.34
7	590279	Pilot Orifice, Propane	57.73	69.37
7	590281	Pilot Orifice, Natural Gas	57.73	69.37
8	590305	Flare Fitting	14.43	17.34
9	590287	Pilot Hose	28.86	34.68
10	590276	Igniter	CALL	CALL
11	590277	Flame Sensor	CALL	CALL
12	590285	Heat Shield	86.58	104.03
13	590278	Control Box	CALL	CALL
14	590288	Burner Hose w/ Flare Fitting	57.73	69.37
15	See Table to Side	Bowl		
16	590334	Burner Assembly (Round, Fire Only)	4329.17	5201.93
16	590335	Burner Assembly (Square, Fire Only)	4329.17	5201.93
16	590336	Burner Assembly (Round, Fire/Water)	4329.17	5201.93
16	590337	Burner Assembly (Square, Fire/Water)	4329.17	5201.93
17	590324	Waterline Assembly	721.52	866.98
NOT SHOWN				
	590275	Pilot/Igniter Assembly (includes items 3, 10 and 11)	793.68	953.69
See Table to Side	Paint Repair Kit			
See Table to Side	Fire Media			
	590289	Winterizing Cover, Round	CALL	CALL
	590290	Winterizing Cover, Square	CALL	CALL
	590291	Mounting Hardware Kit	43.30	52.03

INSTALL ELEVATION	PROPANE	NATURAL GAS
REPLACEMENT BURNER ORIFICES (ITEM #5)		
<4000 ft./[<1219 m]	590280	590282
4000–6000 ft./[1219–1829 m]	590318	590321
6000–8000 ft./[1829–2438 m]	590319	590322
8000–10000 ft./[2438–3048 m]	590320	590323

FIRE/WATER BOWLS		FIRE ONLY BOWLS	
REPLACEMENT BOWLS (ITEM #15)			
Bronze, Round	580205	Bronze, Round	580195
Pewter, Round	580206	Pewter, Round	580196
Natural, Round	580207	Natural, Round	580197
White, Round	580208	White, Round	580198
Black, Round	580209	Black, Round	580199
Bronze, Square	580210	Bronze, Square	580200
Pewter, Square	580211	Pewter, Square	580201
Natural, Square	580212	Natural, Square	580202
White, Square	580213	White, Square	580203
Black, Square	580214	Black, Square	580204

MEDIA TYPE	P/N	Color	KIT P/N
FIRE MEDIA OPTIONS		PAINT REPAIR KITS	
Lava Rock, 3/4"	590267	Bronze	590307
Lava Rock, Tumbled	590268	Pewter	590308
Fire Glass, Black	590269	Natural	590309
Fire Glass, Clear	590270	White	590310
Fire Glass, Brown	590271	Black	590311
Fire Glass, Dark Blue	590272		
Fire Glass, Light Blue	590273		
Fire Glass, Gold	590274		



CALIFORNIA PROPOSITION 65 WARNING

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MAGICSTREAM® LAMINARS

REPLACEMENT PARTS



Item	Part No.	Description	US List	Can List
MAGICSTREAM LAMINARS				
1	590021	Laminar LED light engine w/ Laminar Body (complete) - 100 ft. cord	1802.16	2165.48
1	590123	Laminar LED light engine w/Laminar Body (complete) - 150ft. cord	1904.39	2288.32
4	590024	Laminar housing, no cover	627.50	754.00
5	590025	Laminar cover black ¹ , with collar	345.09	414.66
6	590026	Laminar cover gray ¹ , with collar	345.09	414.66
7	590027	Laminar cover tan ¹ , with collar	345.09	414.66
8	590028	Laminar screen kit	188.15	226.08
9	590029	Laminar union nut kit	118.87	142.83
10	590030	Laminar bracket kit	166.42	199.97
12	590032	Laminar orifice kit	190.22	228.57
NOT SHOWN				
	590031	Laminar hardware kit (all screws and O-rings)	95.10	114.27
	590100	Laminar water line union kit	32.49	39.04

¹ Includes 1 Matching Trim Ring for Deck Housing.

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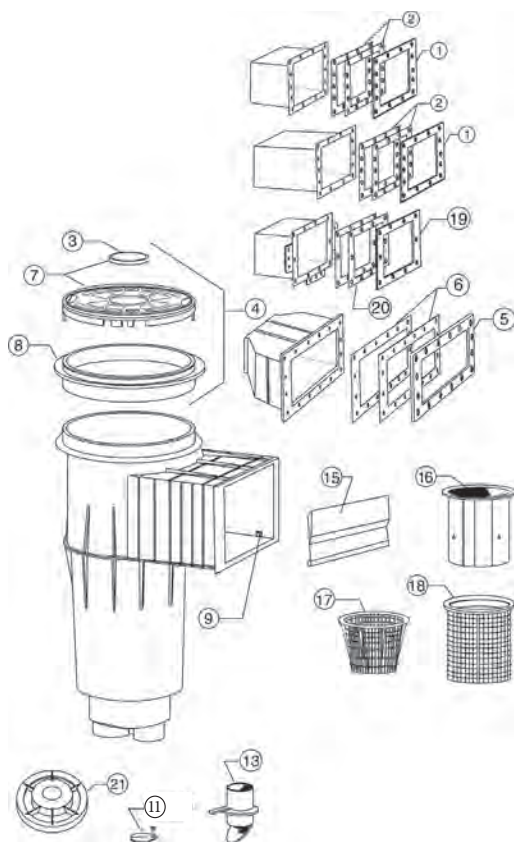
This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal black lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.

WHITE GOODS PARTS

Product Catalog 2025–2026

ADMIRAL™ SKIMMERS

REPLACEMENT PARTS



Item	Part No.	Description	US List	Can. List
11	85002400	Trimmer valve plate, residential	8.67	10.42
13	85002600	Vari-flo control insert only	18.75	22.53
15	85001500	Flap weir	47.41	56.97
16	R38013B	Floating weir, circular	25.88	31.10
17	85014500	Basket, tapered	39.73	47.74
17	85014600	Basket, tapered (S-20 Model Only)	21.45	25.77
18	R38013AZ	Basket, for floating weir	39.34	47.27
19	85000300	Frame, liner, American 10 hole pattern	79.30	95.29
20	81111800	Gasket set, large 10 hole pattern, w/ dbl. wall	25.22	30.30
20	81111700	Gasket set, large 10 hole pattern, w/o dbl. wall	25.22	30.30
21	85015200	Equalizer assembly	73.82	88.70
NOT SHOWN				
	98202600	Screw, sealing ¹	CALL	CALL
	98202700	Screw, sealing ¹	CALL	CALL
	98207200	Screw, sealing ²	CALL	CALL
	85008500	Screw kit, American 10 hole pattern	CALL	CALL
	355330	O-ring, equalizer	2.83	3.40
	85016600Z	Rubber stopper, flap weir	8.64	10.38
	85007200	Angle bracket	CALL	CALL
	85012800	Track-VF skimmer	CALL	CALL
	85014200	Trimmer, equalizer	CALL	CALL
	85009500	Skimmer Lid (Old Style)	44.14	53.04

Item	Part No.	Description	US List	Can. List
ADMIRAL SKIMMERS				
1	85004200	Frame, sealing liner, white std. 12 hole pattern	33.23	39.93
1	85004211	Frame, sealing liner, black std. 12 hole pattern	33.23	39.93
1	85004213	Frame, sealing liner, gray std. 12 hole pattern	48.11	57.81
2	85001600	Gasket set, liner, std. 12 hole pattern	47.52	57.10
3	510161	Disk, logo	8.06	9.68
4	85000400	Lid/ring seat, complete, white	74.18	89.13
4	85018000	Lid/ring seat, complete, tan	96.37	115.80
5	85007600	Frame, sealing liner, wide mouth, white	CALL	CALL
6	85007700	Gasket, sealing liner, wide mouth (2), white	62.18	74.72
7	85007400Z	Lock down lid, white	56.50	67.89
7	85007411	Lock down lid, black	69.44	83.44
7	85007413	Lock down lid, gray	138.89	166.89
7	85007430	Lock down lid, tan	50.96	61.23
8	85000600	Ring seat only, 9 in. diameter, white	24.54	29.49
9	85017500	Pivot tab for flap weir	1.93	2.32

¹ Used on skimmers manufactured before 2-1-76.

² Used on skimmers manufactured after 2-1-76.

CALIFORNIA PROPOSITION 65 WARNING

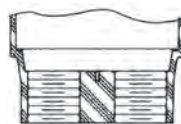
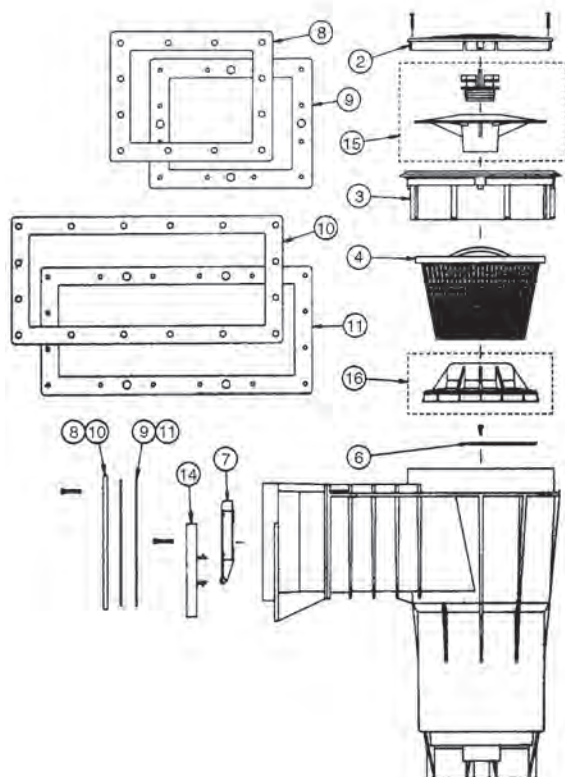
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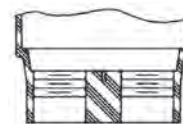
BERMUDA™ SKIMMERS

REPLACEMENT PARTS FOR GUNITE & VINYL LINER SKIMMERS

Item	Part No.	Description	US List	Can. List
BERMUDA SKIMMERS				
2	516215	Deck lid, white	41.81	50.24
2	516216	Deck lid, tan	41.81	50.24
2	516306Z	Deck lid, black	CALL	CALL
3	516259Z	Deck collar, vinyl, white	CALL	CALL
3	516253	Deck collar, gunite, white	36.92	44.36
3	516258Z	Deck collar, gunite, tan	CALL	CALL
3	516329Z	Deck collar, gunite, black	CALL	CALL
4	516112Z	Basket	45.46	54.62
6	516228Z	Trimmer plate	CALL	CALL
7	516252Z	Weir gate assembly, white	34.22	41.12
7	516315Z	Weir gate assembly, black	CALL	CALL
8	516264	Face plate kit, standard throat, white	137.56	165.29
8	516324Z	Face plate kit, standard throat, black	CALL	CALL
9	552566Z	Gasket, standard throat, 2 req.	CALL	CALL
10	516265	Face plate kit, widemouth throat, white	137.05	164.68
10	516318Z	Face plate widemouth, black	CALL	CALL
11	516231Z	Gasket, widemouth throat, 2 req.	CALL	CALL
14	516237Z	Flange spacer, 3 req.	CALL	CALL
OPTIONS				
15	506161	Vacuum plate assembly	37.50	45.06
16	506160Z	Float valve assembly	CALL	CALL
16	195829Z	2 in. O-ring style plug	13.32	16.01
16	192323	2 in. O-ring for 195829Z plug	10.81	12.99
16	191474	1-1/2 in. O-ring for 191368 plug	1.48	1.78
16	506162Z	Equalizer valve assembly	CALL	CALL
NOT SHOWN				
	516254Z	Lid/collar set, white	128.26	154.12
	516328Z	Lid/collar set, black	128.26	154.12
	516261Z	Lid/collar set, tan	128.26	154.12



2 in. NPSM Thread


2 in. NPSM Thread
2 in. Slip


1-1/2 in. NPSM Thread


1-1/2 in. NPSM Thread
1-1/2 in. Slip

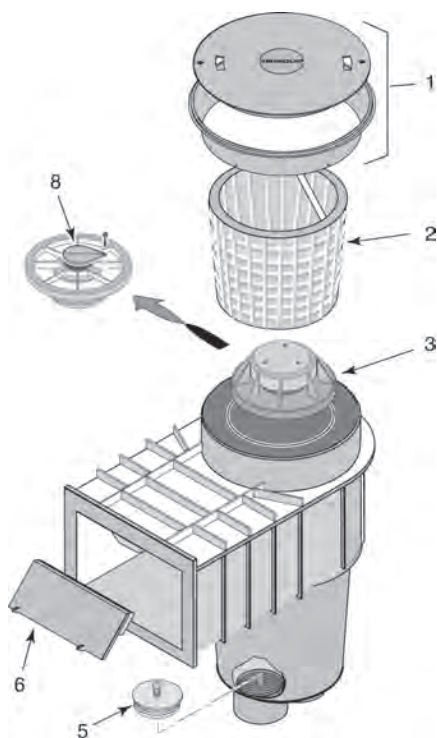
CALIFORNIA PROPOSITION 65 WARNING

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U-3 SKIMMER

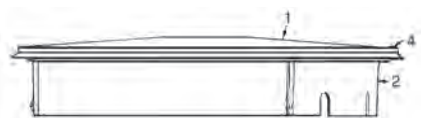
REPLACEMENT PARTS



Item	Part No.	Description	US List	Can List
U-3 SKIMMER PARTS				
1	08650-0169	Lid and Collar - White (Model 09655-2403, 09655-2404)	44.14	53.04
1	08650-0159	Lid and Collar - Tan (Model 09655-1403, 09655-1404)	53.04	63.73
1	08650-0169C	Lid and Collar (Gray)	40.32	48.45
2	08650-0007Z	Basket and Handle	17.84	21.44
3	08650-0079	Float Assembly with O-Ring ¹	52.29	62.83
5	08655-0017	Check Valve ¹	CALL	CALL
6	08650-0022	Hinged Weir Assembly	40.79	49.01
8	08650-0048Z	Trimmer Plate ¹	9.87	11.86
NOT SHOWN				
	08650-0018	Weir Bumper	8.72	10.48
	08650-0067	Basket Handle Only	15.44	18.55
	U78-820PZ	Reducer, 2 x 1-1/2 in. NPT (Model 09655-1403, 09655-2403)	CALL	CALL
	37416-0005	Screw, #12-14 x 1-1/2 in. Flat Head (Model 09655-1403)	CALL	CALL
	U36-105SS	Nut, Hex #10-24 ²	CALL	CALL
	WC2-8P	Face Plate ²	46.45	55.81
	09655-0010	Skimmer Spacer Block ²	CALL	CALL
	08650-0042	Vacuum Plate ¹	37.82	45.44
	WC37-503P	Skimmer Extension Collar ²	51.80	62.24

¹ For use on Residential U-3 Skimmer Models. Must purchase if skimmer does not come with a float.

² For Use on Vinyl Liner Skimmers.



Item	Part No.	Description	US List	Can. List
U-3 SKIMMER LIDS AND COLLARS				
1	08650-0058	Lid Only (White)	36.64	44.03
1	08650-0158	Lid Only (Tan)	36.64	44.03
1	08650-0058C	Lid Only (Gray)	37.73	45.34
2	08650-0025	Collar Only (White)	35.70	42.90
2	08650-0125	Collar Only (Tan)	35.70	42.90
2	08650-0025C	Collar Only (Gray)	CALL	CALL

CALIFORNIA PROPOSITION 65 WARNING

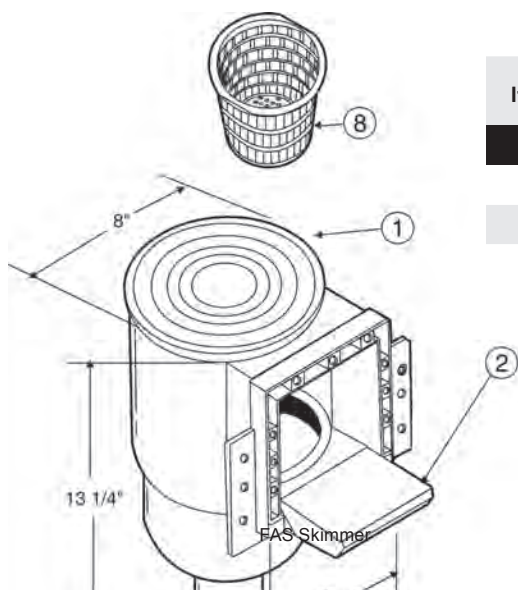
⚠ **WARNING:** Cancer and Reproductive Harm.
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PR3207A

SKIMMERS FOR ABOVEGROUND POOLS

REPLACEMENT PARTS



Item	Part No.	Description	US List	Can. List
FAS 100® SKIMMERS				
1	85004700	Lid for optional top access	24.40	29.32
2	85003200	Flap weir	58.45	70.23
8	85003900	Basket	22.82	27.42

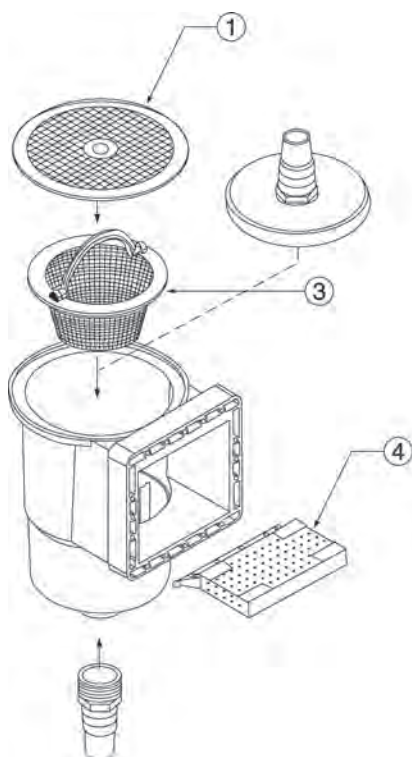
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PN 20071A

HYDROSKIM SKIMMERS

REPLACEMENT PARTS



Item	Part No.	Description	US List	Can. List
HYDROSKIM SKIMMERS				
1	513333	Lid, white	7.78	9.35
3	513330	Basket	7.78	9.35
4	513352	Weir door	7.78	9.35

CALIFORNIA PROPOSITION 65 WARNING

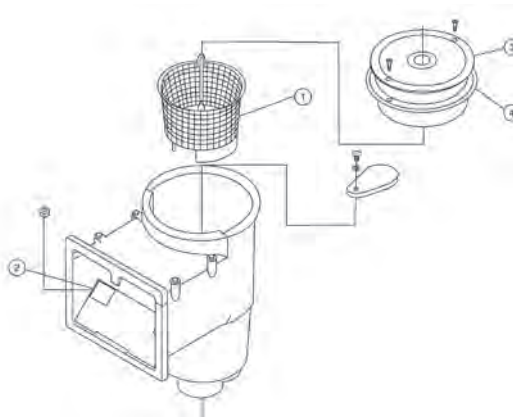
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PN 20071A

SKIMCLEAN™ SKIMMERS

REPLACEMENT PARTS

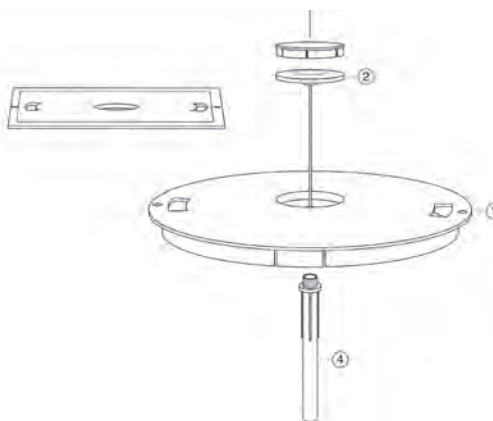
Item	Part No.	Description	US List	Can. List
SKIMCLEAN SKIMMERS				
1	513036	Basket	57.19	68.72
2	513027	Weir	39.71	47.72
3	513030	Deck lid	45.04	54.12
4	513031	Deck ring	34.09	40.96



SKIMMER LID WITH THERMOMETER

REPLACEMENT PARTS

Item	Part No.	Description	US List	Can. List
SKIMMER LID				
1	L1RW	SwimQuip, Swimrite, Jacuzzi®, New Style Hayward®, 9-7/8 in., white	CALL	CALL
1	L2R	Baker Hydro®, 9-7/8 in., white	CALL	CALL
1	L4RW	American Products, 9-3/16 in. round, white	CALL	CALL
1	L5R	PacFab™, Old Style, 8-3/8 in., white	CALL	CALL
2	SK	Thermometer w/ bushing	96.12	115.50
2,4	SKR	Thermometer w/ tube & bushing	115.59	138.89



Jacuzzi® is a registered trademark of Jacuzzi, Inc.

Hayward® is a registered trademark of Hayward Industries, Inc.

Baker Hydro® is a registered trademark of Waterco USA DBA Baker Hydro Corp.

CALIFORNIA PROPOSITION 65 WARNING

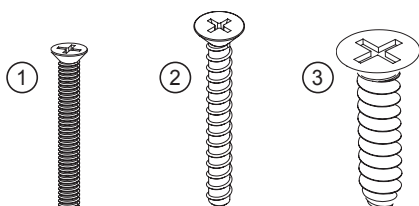
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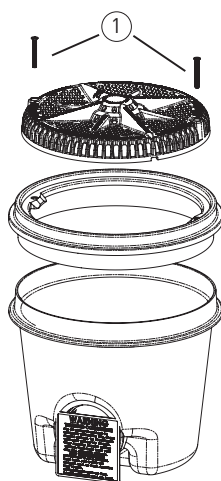
STARGUARD® MAIN DRAINS

REPLACEMENT PARTS

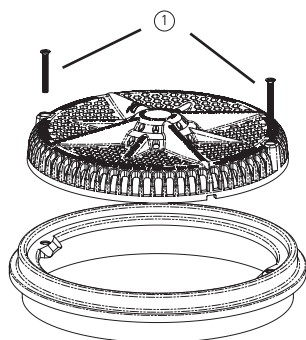
Item	Part No.	Description	US List	Can. List
STARGUARD MAIN DRAINS				
1	510543Z	Kit includes 2 screws	6.37	7.65
2	510583Z	Kit includes 2 screws	11.11	13.35
3	510592Z	Kit includes 8 screws	22.36	26.87
4	07017-0079	Gasket	28.73	34.52
5	500135	Vinyl ring and gasket kit	CALL	CALL



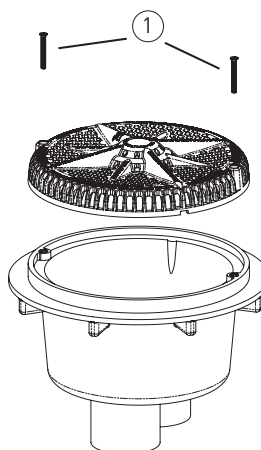
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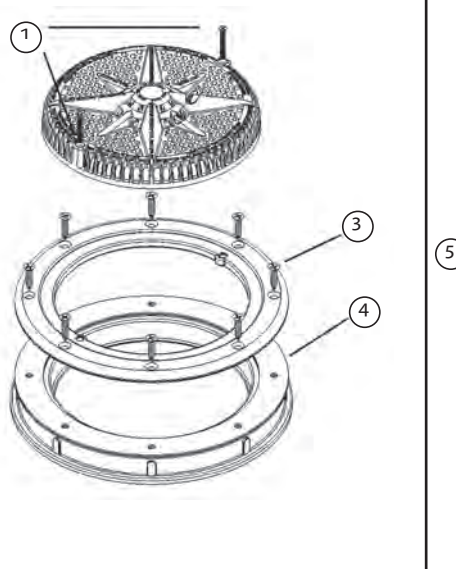
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500135

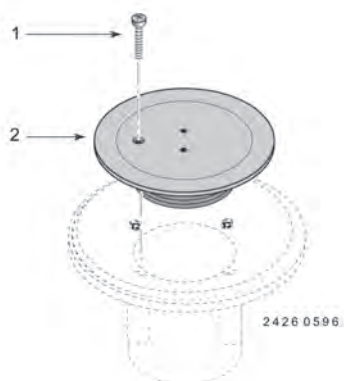


CALIFORNIA PROPOSITION 65 WARNING

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PN 201714

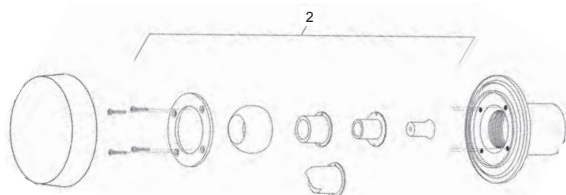
ADJUSTABLE FLOOR INLET FITTING



Item	Part No.	Description	Qty	US List	Can. List
FLOOR INLET RETURN FITTING					
1	37207-0430	Screw, No. 8 x 1 in., SS	1	5.86	7.04
2	08417-0005	Cover plate, white ¹	1	44.05	52.93
2	08417-0005B	Cover plate, gray ¹	1	44.05	52.93
2	08417-0005C	Cover plate, black ¹	1	44.05	52.93

¹ To be used only as floor inlet fitting(s).

POOL INLETS

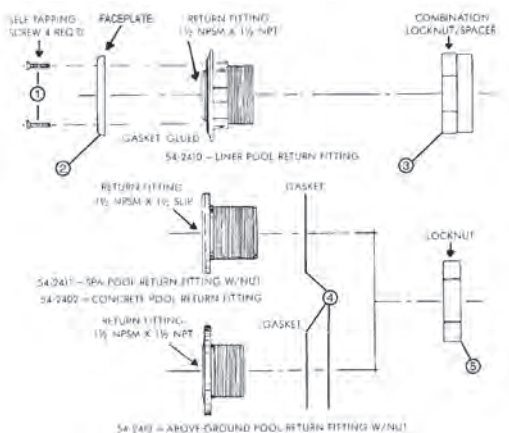


CALIFORNIA PROPOSITION 65 WARNING

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Item	Part No.	Description	Qty.	US List	Can. List
EYEBALL INLETS					
2	08428-0001	Inlet Eyeball Kit, white, includes: Screw, No. 8, 32 x 1/2 in.; Face plate; Ball; nozzle - 3/4 in.; Right angle nozzle; Nozzle - 1/2 in.; Nozzle - 3/16 in.	1	CALL	CALL
2	08428-0001B	Inlet Eyeball Kit, gray, includes: Screw, No. 8, 32 x 1/2 in.; Face plate; Ball; nozzle - 3/4 in.; Right angle nozzle; Nozzle - 1/2 in.; Nozzle - 3/16 in.	1	56.64	68.06
NOT SHOWN					
	08428-0125	Eyeball inlet kit	1	33.28	39.99

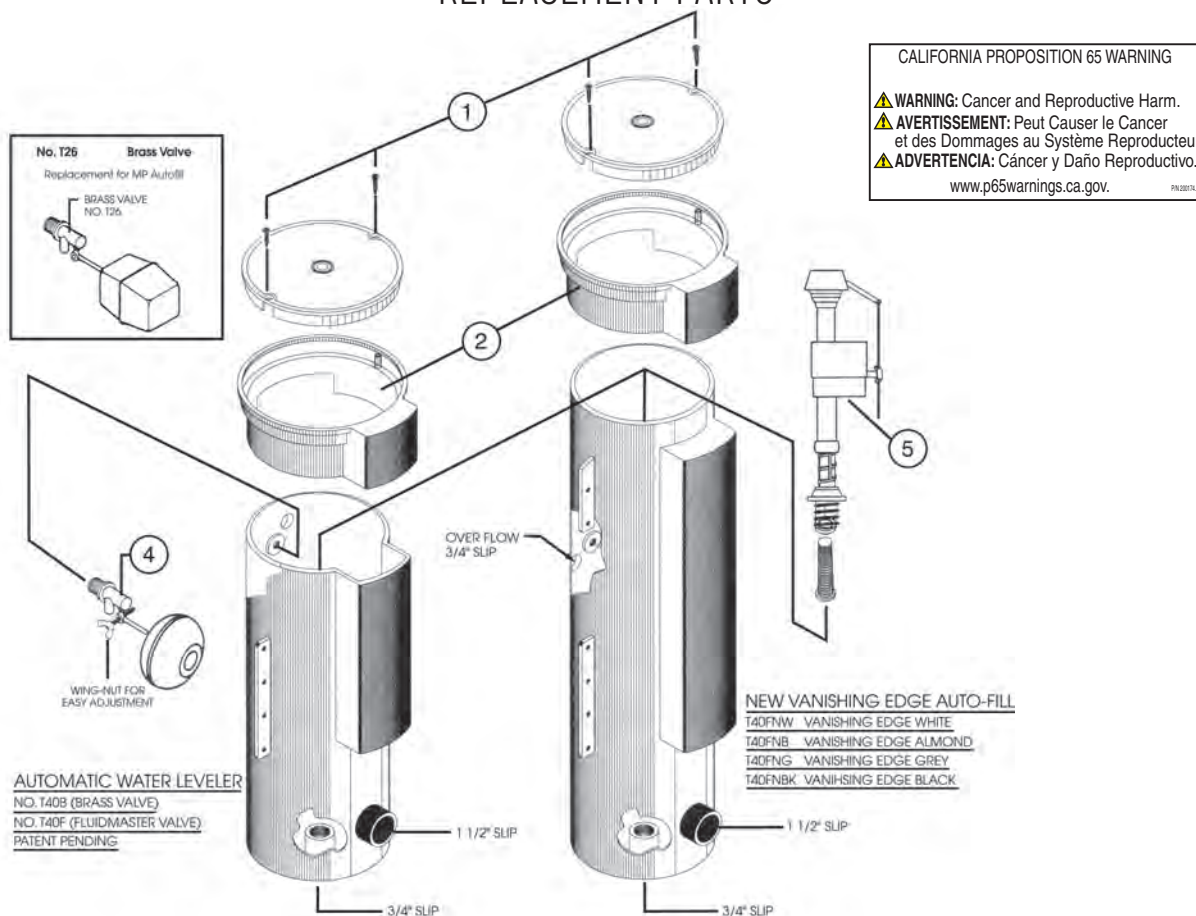
WALL FITTINGS



Item	Part No.	Description	US List	Can. List
WALL FITTINGS				
2	545100	Face plate, white for 542410 / 86205100	2.15	2.58
2	545101	Face plate, black for 542420 / 86205101	3.12	3.75
2	545103	Face plate, gray for 86205103	2.15	2.58
4	552496	Cork gasket	1.68	2.02
4	552406Z	Gasket, 2 req.	2.16	2.60
5	154412	Locknut	15.71	18.88

AUTOMATIC WATER FILLERS

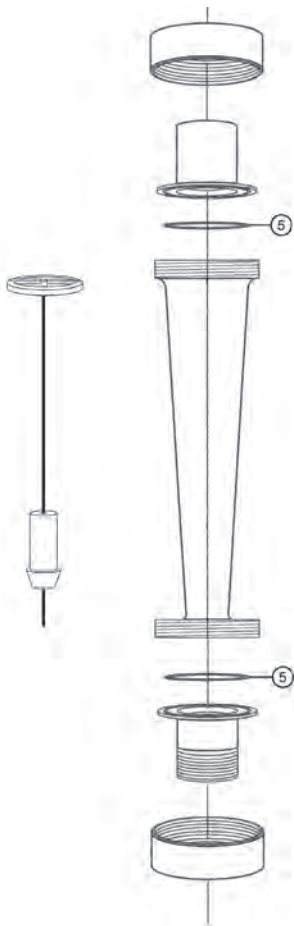
REPLACEMENT PARTS



Item	Part No.	Description	US List	Can. List
AUTOMATIC WATER FILLERS				
1	T10W	AutoFill lid, with screws, white	28.47	34.21
1	T10B	AutoFill lid, with screws, almond	28.47	34.21
1	T10G	AutoFill lid, with screws, gray	28.47	34.21
1	T10BK	AutoFill lid, with screws, black	28.47	34.21
	T10DG	Autofill lid with screws, dark gray	28.46	34.20
2	T16W	AutoFill top ring, white	31.21	37.50
2	T16B	AutoFill top ring, almond	31.21	37.50
2	T16G	AutoFill top ring, gray	31.21	37.50
2	T16BK	AutoFill top ring, black	31.21	37.50
	T16DG	Autofill top ring, dark gray	31.21	37.50
4	T26	Brass valve	85.54	102.78
4	261058	Plastic valve	58.72	70.56
5	T29	Fluidmaster® valve	51.85	62.30
NOT SHOWN				
	370006	T-40 FW Parts Bag	110.29	132.52
	T6EXT	6 in. extension for Fluidmaster valve	CALL	CALL

FLOWMETERS MADE FOR LIQUID APPLICATIONS

REPLACEMENT PARTS



Item	Part No.	Description	US List	Can. List
FLOWMETERS				
5	FSO	O-ring, small	4.73	5.68
5	FLO	O-ring, large	4.35	5.23

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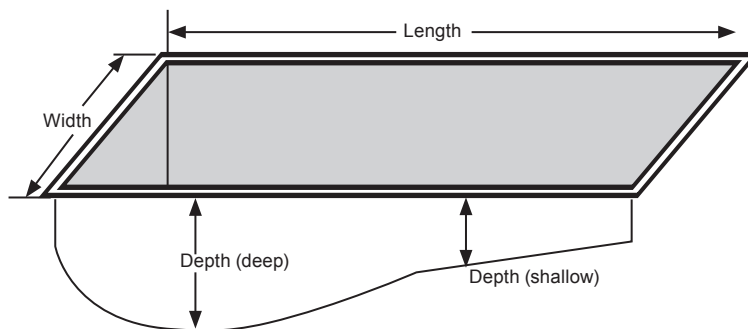
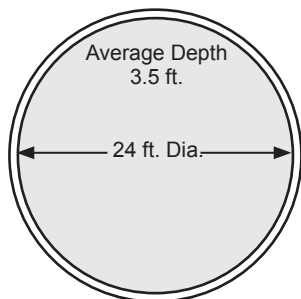
www.p65warnings.ca.gov P65-200714A

ENGINEERING DATA

Product Catalog 2025–2026

ENGINEERING DATA

ESTIMATING TOTAL GALLONS IN A POOL OR SPA



Radius² x 3.14 x A.D. x 7.5 = Gallons

12 x 12 x 3.14 x 3.5 x 7.5 = 11,869
Gals.

Dia. x Dia. x Av Dp x 5.9 = Gallons

24 x 24 x 3.5 x 5.9 = 11,894 Gals.

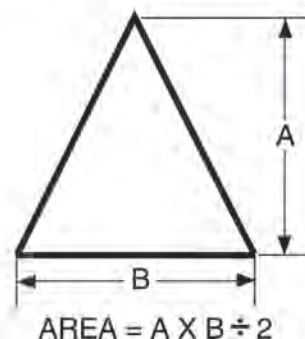
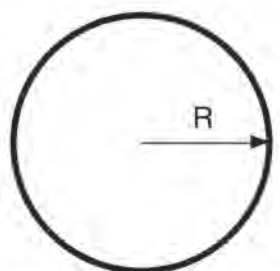
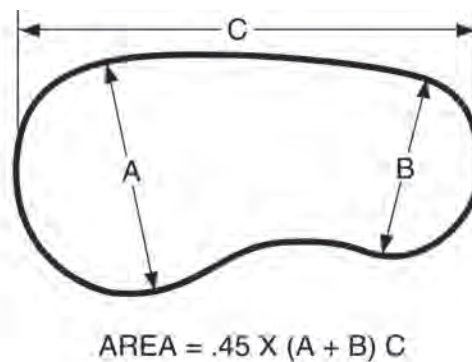
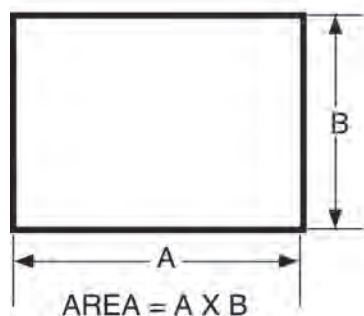
Gal.cu.ft.	
Rectangle:	7.5
Oval:	6.7
Kidney:	7.0

Formula A: Length X Width X Average Depth X Gal.cu.ft. = Gallons

Example: Pool Length = 40 ft.
Pool Width = 20 ft.
Shallow Depth = 3 ft.
Deep Depth = + 8 ft.

Total Depth = 11 ft.

Using formula A: 40 X 20 = 800 sq. ft., 800 X 5.5 = 4,400 cubic
ft., 4,400 X 7.5 = 33,000 gallons



ENGINEERING DATA

UNITS OF MEASURE

UNITS OF LENGTH

UNIT	INCH	FOOT	YARD	METER
INCH	1.0	.0833	.0278	.0254
FOOT	12.0	1.0	.333	.305
YARD	36.0	3.0	1.0	.9144
METER	39.37	3.281	1.094	1.0

UNITS OF AREA

UNIT	SQUARE INCH	SQUARE FOOT	SQUARE YARD	SQUARE METER
SQUARE INCH	1.0	.00694	.000772	.000645
SQUARE FOOT	144.0	1.0	.1111	.0929
SQUARE YARD	1,296.0	9.0	1.0	.836
SQUARE METER	1,550.0	10.76	1.196	1.0

UNITS OF VOLUME

UNIT	U.S. GALLON	IMPERIAL GALLON	CUBIC FEET	POUNDS OF WATER	CUBIC METERS
U.S. GALLON	1.0	.833	.1337	8.33	.003785
IMPERIAL GALLON	1.2	1.0	.1605	10.0	.004546
CUBIC FEET	7.481	6.232	1.0	62.37	.0283
POUNDS OF WATER	.12	.09996	.0160	1.0	.00045
CUBIC METERS	264.2	220.0	35.31	2,204.0	1.0

UNITS OF FLOW

UNIT	U.S. G.P.M.	IMPERIAL G.P.M.	CUBIC FEET/SECOND	CUBIC FEET/HOUR	LITERS/SECOND
U.S. G.P.M.	1.0	.833	.00223	8.02	.0631
IMPERIAL G.P.M.	1.2	1.0	.00268	9.63	.0757
CUBIC FT. PER SECOND	448.8	374.0	1.0	3.600	28.32
CUBIC FT. PER HOUR	.1247	.104	.00028	1.0	.0078
LITERS PER SECOND	15.85	13.21	.0353	127.13	1.0

ENGINEERING DATA

UNITS OF MEASURE

UNITS OF PRESSURE

UNIT	INCHES OF WATER	FEET OF WATER	POUNDS PER SQUARE INCH	INCHES OF MERCURY
INCHES OF WATER	1.0	.0833	.0361	.0736
FEET OF WATER	12.0	1.0	.433	.883
POUNDS PER SQUARE INCH	27.72	2.31	1.0	2.04
INCHES OF MERCURY	13.596	1.133	.4906	1.0

PRESSURE AND EQUIVALENT FEET HEAD OF WATER

$$H = \frac{\text{pressure (psi)} \times 144}{62.4}$$

Lbs. per Sq. In.	Feet Head	Lbs. per Sq. In.	Feet Head	Lbs. per Sq. In.	Feet Head	Lbs. per Sq. In.	Feet Head
1	2.31	20	46.18	120	276.42	225	519.23
2	4.62	25	57.72	125	288.46	250	576.92
3	6.93	30	69.27	130	300.00	275	634.62
4	9.24	40	92.36	140	323.08	300	692.31
5	11.54	50	115.38	150	346.15	325	750.00
6	13.85	60	138.46	160	369.23	350	807.69
7	16.16	70	161.53	170	392.31	375	865.38
8	18.47	80	184.62	180	415.38	400	923.08
9	20.78	90	207.69	190	438.46	500	1153.85
10	23.09	100	230.77	200	461.54	1000	2307.69
15	34.63	110	253.85				

ENGINEERING DATA

UNITS OF MEASURE

EQUIVALENT VALUES OF PRESSURE 1 in. of Mercury (hg) = 1.13 ft. of water

Inches of Mercury	Feet of Water	Pounds per Sq. In.	Inches of Mercury	Feet of Water	Pounds per Sq. In.	Inches of Mercury	Feet of Water	Pounds per Sq. In.
1	1.13	0.49	11	12.45	5.39	21	23.78	10.3
2	2.26	0.98	12	13.57	5.87	22	24.88	10.8
3	3.39	1.47	13	14.70	6.37	23	26.00	11.28
4	4.52	1.95	14	15.82	6.86	24	27.15	11.75
5	5.65	2.44	15	16.96	7.35	25	28.26	12.25
6	6.78	2.93	16	18.09	7.84	26	29.40	12.73
7	7.91	3.42	17	19.22	8.33	27	30.52	13.23
8	9.04	3.91	18	20.35	8.82	28	31.65	13.73
9	10.17	4.40	19	26.47	9.31	29	32.80	14.22
10	11.30	4.89	20	22.60	9.80	29.929	33.947	14.6969

WEIGHT

1 U.S. GALLON OF WATER = 8.33 LBS.

1 CUBIC FOOT OF WATER = 62.35 LBS.

1 KILOGRAM (LITRE) = 2.2 LBS.

1 IMPERIAL GALLON = 10.0 LBS.

CURRENT CAPACITY (AMPS) OF WIRE *

Three wires in cable, ambient temp. 86°F

WIRE SIZE	AMPERES	
	COPPER	ALUMINIUM
14	20	—
12	25	20
10	30	25
8	40	30
6	55	40
4	70	55
3	85	65
2	95	75
1	110	85
0	125	100

* Wire size is minimum for amperes listed.

EFFICIENCY

EFFICIENCY	POWER OUTPUT POWER INPUT
MOTOR EFFICIENCY	$\frac{\text{HP OUTPUT}}{\text{K.W. INPUT}}$
PUMP EFFICIENCY	$\frac{\text{G.P.M.} \times \text{TOTAL HEAD (F.T.)}}{3960 \times \text{BHP}}$
OVERALL PLANT EFFICIENCY (OPE)	$\frac{\text{G.P.M.} \times \text{TOTAL HEAD (F.T.)}}{5310 \times \text{K.W. INPUT}}$

Amperage =	$\frac{\text{Watts}}{\text{Volts}}$
Watts =	Volts x Amperage
WHP =	Water Horsepower (output HP of pump) = $\frac{\text{g.p.m} \times \text{total head}}{3960}$
HP input (to motor) =	KW input x 1.341
Total Head =	Discharge head + Pumping water level (ft)
Discharge Head =	Discharge Pressure (PSI) x 2.31 ft. of head

ENGINEERING DATA

HEATER SIZING INFORMATION

Pool heaters can be sized by the volume method for maintenance heating or for spot heating. For many days during the swimming season, the sun maintains a desirable pool temperature of 78–80°F. and the pool requires no supplemental heating. However, during cooler periods a pool will usually lose 2–4°F. per day.

To get the water to the desired temperature, you could choose a smaller heater and run it during the daily filter cycle of 4–6 hours every day. This would be sufficient to overcome a slight temperature drop between filter cycles, but it would mean leaving the heater on every day. If you don't use the pool daily, it's more economical to spot heat the pool, say for the weekend. In this case, you could choose a larger heater which will heat the pool faster, and then can be turned off between uses. With either, maintenance heating or spot heating, you need to determine the size of heater to select and the time it will require to heat the pool.

MASTERTEMP AND MAX-E -THERM MODEL REQUIRED TO HEAT POOL IN 24 HOURS

Pool Sizing *

° F Temperature Change/24 Hrs.	Pool Volume (Gallons)									
	Model 175	Model 200	Model 250/250HD	Model 300	Model 400/400HD	Model 175	Model 200	Model 250/250HD	Model 300	Model 400/400HD
	Pool Capacity in Gallons					Pool Surface Area in Sq. Ft. at 5.5' Depth				
5	85,210	97,383	121,729	146,075	194,766	2,069	2,364	2,955	3,546	4,727
10	42,605	48,691	60,864	73,037	97,383	1,034	1,182	1,478	1,773	2,364
15	28,403	32,461	40,576	48,692	64,922	690	788	985	1,182	1,576
20	21,303	24,346	30,433	36,519	48,691	517	591	739	887	1,182
25	17,042	19,477	24,346	29,216	29,216	414	473	591	710	945
30	14,201	16,230	20,288	24,345	32,461	345	394	493	591	788
35	12,173	13,912	17,390	20,868	27,824	296	338	423	507	675
40	10,651	12,173	15,216	18,260	24,346	259	295	369	443	591

MASTERTEMP AND MAX-E -THERM MODEL REQUIRED TO HEAT THE SPA 30°F IN A GIVEN TIME PERIOD

Spa Sizing *

Spa Volume (Gallons)									
Model	200	300	400	500	600	700	800	900	1000
Minutes for 30° F Temperature Rise (Heater Input in 1000 BTU/HR)									
174	21.0	31.0	40.0	50.0	61.0	71.0	81.0	91.0	102.0
200	18.0	27.0	35.0	44.0	53.0	62.0	71.0	80.0	89.0
250/250HD	15.8	23.5	30.8	38.5	46.5	54.3	62.0	70.0	77.8
300	13.5	20.0	26.5	33.0	40.0	46.5	53.0	60.0	66.5
400/400HD	9.0	13.0	18.0	22.0	27.0	31.0	35.0	40.0	44.0

Note: The chart is based on a 30° F (16.6° C) temperature rise, discounting losses and only based on heat required to raise temperature in minutes. Two-year limited warranty. See warranty for details.

* ASME models available. Please see your Pentair Aquatic Systems Representative for details.

* For Commercial Heaters 500,000 BTU/hr and over please contact factory for sizing.

$$\begin{aligned}
 \text{TIME IN HOURS} &= \frac{\text{Vol. in Gal.} \times 8.34 \text{ lb./gal.} \times \text{temprise}}{\text{Heater BTUH input} \times \text{efficiency of heater}} \\
 \text{POOL \& SPA} & \\
 \text{TIME IN MINUTES} &= \frac{\text{Vol. in Gal.} \times 8.34 \text{ lb./gal.} \times \text{temprise} \times 60}{\text{min}} \\
 \text{SPA} &= \frac{\text{Vol. in Gal.} \times 8.34 \text{ lb./gal.} \times \text{temprise} \times 60}{\text{min}}
 \end{aligned}$$

ENGINEERING DATA

HEATER SIZING INFORMATION

ETi 400 ASME HIGH EFFICIENCY HEATER MODEL
REQUIRED TIME TO TEMPERATURE RISE

° F Temperature Rise	Pool Volume (Gallons)									
	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
	Hours to Reach Temperature									
5	1.08	2.17	3.26	4.34	5.43	6.52	7.60	8.69	9.77	10.86
10	2.17	4.34	6.52	8.69	10.86	13.03	15.20	17.38	19.55	21.72
15	3.25	6.52	9.77	13.03	16.29	19.55	22.80	26.06	29.32	35.58
20	4.35	8.69	13.03	17.38	21.72	26.06	30.41	34.75	39.09	43.44
25	5.43	10.86	16.29	21.72	27.15	32.58	38.01	43.44	48.87	54.30
30	6.52	13.03	19.55	26.06	32.58	39.09	45.61	52.13	58.64	65.16
35	7.60	15.20	22.80	30.41	38.01	45.61	53.21	60.81	68.41	76.02
40	8.68	17.38	26.06	34.75	43.44	52.13	60.81	69.50	78.19	86.88
50	9.77	19.55	29.32	39.09	48.87	58.64	68.41	78.19	87.96	97.73
	10.87	21.72	32.58	43.44	54.30	65.16	76.02	86.88	97.73	108.59

ENGINEERING DATA

HEATER GAS SUPPLY AND PIPE SIZING INFORMATION

When installing any Pentair or Sta-Rite pool or spa heater, it is very important to have the proper amount of gas supplied to all Pentair or Sta-Rite Heaters for pools. Below, for your information, is a table which will assist you in selecting the correct size of piping for the installation.

When installing any gas appliance, it is very important to have the proper size gas meter and home pressure regulator installed. Once you have selected the correct size heater for the pool or spa, contact the local utility which supplies the gas and request a field review of the installation and have them install the proper size meter and proper size pressure regulator.

LOW PRESSURE, SINGLE STAGE PIPE SIZING FOR GAS LINE CONNECTIONS

4

Natural gas at 1000 BTU per Cubic Foot

Propane Gas at 2500 BTU per Cubic Foot

MODEL	1/2 in.		3/4 in.		1 in.		1-1/4 in.		1-1/2 in.		2 in.		2-1/2 in.	
	NAT	PRO	NAT	PRO	NAT	PRO	NAT	PRO	NAT	PRO	NAT	PRO	NAT	PRO
100 & 75	20 ft.	50 ft.	50 ft.	150 ft.	150 ft.	600 ft.	-	-	-	-	-	-	-	-
150	10 ft.	40 ft.	50 ft.	150 ft.	150 ft.	600 ft.	-	-	-	-	-	-	-	-
200	-	20 ft.	30 ft.	80 ft.	125 ft.	250 ft.	450 ft.	600 ft.	-	-	-	-	-	-
250	-	10 ft.	20 ft.	50 ft.	70 ft.	150 ft.	250 ft.	500 ft.	600 ft.	-	-	-	-	-
300	-	-	10 ft.	30 ft.	50 ft.	100 ft.	200 ft.	350 ft.	400 ft.	600 ft.	-	-	-	-
350	-	-	10 ft.	20 ft.	30 ft.	70 ft.	125 ft.	250 ft.	250 ft.	500 ft.	500 ft.	-	-	-
400	-	-	-	10 ft.	20 ft.	60 ft.	100 ft.	150 ft.	200 ft.	450 ft.	400 ft.	-	-	-
525	-	-	-	5 ft.	15 ft.	35 ft.	65 ft.	150 ft.	130 ft.	360 ft.	390 ft.	700 ft.	-	-
750	-	-	-	-	-	20 ft.	35 ft.	80 ft.	75 ft.	180 ft.	260 ft.	600 ft.	-	-
900	-	-	-	-	-	15 ft.	20 ft.	45 ft.	45 ft.	100 ft.	150 ft.	360 ft.	400 ft.	-

Gas Pressure	Model	Natural	Propane
		Inches W. C.	
Gas Pressure Requirements Pentair Water Heaters			
Maximum Inlet	CH	10	14
	STD	10	14
	TSI	10	N/A
	LN	10	N/A
Minimum Inlet	CH	6	12
	STD	6	12
	TSI	4	N/A
	LN	6	N/A
Manifold	CH	4	11
	STD	4	11
	TSI	2	N/A
	LN	4	N/A

Gas Pressure	Model	Natural	Propane
		Inches W. C.	
Gas Pressure Requirements for MasterTemp, Max-E-Therm and ETi 400 Pentair Water Heaters			
Maximum Inlet	MT	14	14
Minimum Inlet	MT	4	4
Manifold	MT	-0.2 ± 0.1	-0.2 ± 0.1

Gas Pressure	<u>Natural</u>	<u>Propane</u>
	Inches W. C.	
Gas Pressure Requirements for MiniMax 75 & 100 Pentair Water Heaters		
Normal Altitudes (0–2500 ft. above Sea Level)		
Maximum Inlet	10	14
Minimum Inlet	5	12
Normal Manifold	4	11
High Altitudes (2500–7000 ft. above Sea Level)		
Maximum Inlet	10	14
Minimum Inlet	5	12
Normal Manifold	3	7

Note: All readings must be taken while heater is operating. Any adjustments or readings made while heater is off will give incorrect readings and should not be used for evaluation of heater operation.

All Values are +/- 0.2 inch W. C.

ENGINEERING DATA

HEATER GAS SUPPLY AND PIPE SIZING INFORMATION

"RESIDENTIAL" PROPANE GAS 2 STAGE REGULATION

In many Propane gas line installations, the gas supplier and or installer will utilize a two stage regulation process whereby, at the supply tank, they will install the first stage gas regulator, which would be at a higher pressure, usually 10 psi. This higher pressure allows for much longer distance and in a much smaller pipe size. Then, within a short distance from the pool heater, generally around 24 inches, a second regulator, which is the second stage, would be installed and set at the required inlet pressure of the heater.

SEE "GAS PRESSURE REQUIREMENT CHART."

Stage One "High Pressure" Gas Pipe Sizing				Stage Two "Low Pressure" Gas Pipe Sizing		
10 PSI @ 2500 BTU Per CU. FT.				Stage 2 set at 14 in. W.C.		
MAXIMUM EQUIVALENT PIPE LENGTH				MAXIMUM EQUIVALENT PIPE LENGTH		
Model	0 to 50 Feet	50 to 100 Feet	100 to 150 Feet	Model	0 to 10 Feet	10 to 20 Feet
75 through 400	1/2 in.	1/2 in.	1/2 in.	75 through 400	3/4 in.	3/4 in.

"RESIDENTIAL" NATURAL GAS 2 STAGE REGULATION

In many Natural gas line installations, the gas supplier and or installer will utilize a two stage regulation process whereby, at the street's main gas supply, they will install the first stage gas regulator, which would be at a higher pressure. This higher pressure is usually set at 2 psi or 5 psi and can be run for long distances and in a much smaller pipe size. Then, within a short distance from the pool heater, generally around 24 inches, they will install a second regulator, which is the second stage. This second stage regulator would be set at the minimum operating pressure for the heater. For "Natural Gas Pentair Pool Heaters" the minimum is 7 inches W.C.

Stage One "High Pressure" Gas Pipe Sizing				Stage Two "Low Pressure" Gas Pipe Sizing		
2 PSI @ 1000 BTU Per CU. FT.				Stage 2 set at 7 in. W.C.		
MAXIMUM EQUIVALENT PIPE LENGTH				MAXIMUM EQUIVALENT PIPE LENGTH		
Model	0 to 20 Feet	20 to 90 Feet	90 to 200 Feet	Model	0 to 5 Feet	0 to 15 Feet
75 through 400	3/4 in.	1 in.	1-1/4 in.	75 through 300	3/4 in.	1 in.
				350 & 400	1 in.	1 in.

Stage One "High Pressure" Gas Pipe Sizing				Stage Two "Low Pressure" Gas Pipe Sizing		
5 PSI @ 1000 BTU Per CU. FT.				Stage 2 set at 7 in. W.C.		
MAXIMUM EQUIVALENT PIPE LENGTH				MAXIMUM EQUIVALENT PIPE LENGTH		
Model	0 to 50 Feet	50 to 100 Feet	100 to 200 Feet	Model	0 to 5 Feet	0 to 15 Feet
75 through 400	3/4 in.	3/4 in.	3/4 in.	75 through 300	3/4 in.	1 in.
				350 & 400	1 in.	1 in.

ENGINEERING DATA

BLOWER SIZING

HORSEPOWER

To Get This	Divide This	By This
Horsepower	Kwatts	0.746
Horsepower	Watts	746
Horsepower	Torque (ft. lbs.) X RPM	33000
Horsepower	Torque (ft. lbs.) X RPS	550
Horsepower required to pump water at a given rate to a given Height, assuming 100% eff. AKA Water Horsepower	GPM x TDH (ft.)	3960
	GPH X TDH (psi)	103000
Brake HP	Water HP	Pump eff.

AIR BLOWER SIZING GUIDE

BLOWER MOTOR SIZE	VOLTS	AMPS	MAXIMUM INCHES OF WATER DEPTH	JETS ONLY RECOMMENDED NUMBER OF JETS
1 HP	120V	6.6	35 in.	5–10
1-1/2 HP	120V	7.4	45 in.	9–15
2 HP	120V	9.3	55 in.	12–17
1 HP	240V	3.9	30 in.	4–9
1-1/2 HP	240V	4.3	40 in.	8–13
2 HP	240V	5.0	50 in.	12–17

BLOWER SIZING FORMULA

Measure total depth of water in spa (not total spa depth)

Add - 1 in. water for each 10 ft. of 2 in. air pipe

Add 1/2 in. water for each 90 deg. 2 in. elbow

Compare your total with maximum inches of water column and select that size or the next size higher blower than your total, in your selected voltage.

The number of holes in the air channel (both floor and seat) should be approximately 1.6 sq. in. total plus or minus .5

1/8 in. hole = .0123 sq. in.

3/16 in. hole = .0276 sq. in.

5/32 in. hole = .0192 sq. in.

1/4 in. hole = .0491 sq. in.

ENGINEERING DATA, FRICTION FLOW

FRICTION/FLOW CHART FOR SCHEDULE 40 RIGID PVC PIPE *

U.S. Gal. per min.	3/4 in. pipe		1 in. pipe		1-1/4 in. pipe		1-1/2 in. pipe		2 in. pipe		2-1/2 in. pipe		3 in. pipe		4 in. pipe		5 in. pipe		6 in. pipe		U.S. Gal. per min.
	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	Velocity feet per second	Loss in feet	
1	.71	.40	.40	.10	0.26	0.03															1
2	1.43	1.44	.80	.35	.51	.12	.36	.05													2
3	2.14	3.05	1.20	.75	.77	.25	.53	.10													3
4	2.85	5.19	1.60	1.28	1.03	.43	.71	.18													4
5	3.56	7.85	2.00	1.94	1.28	.65	.89	.27	.50	.07	.32	.02	.22	.01							5
6	4.28	11.01	2.41	2.71	1.54	.92	1.07	.38	.60	.09	.38	.03	.27	.01							6
8	5.70	18.75	3.21	4.62	2.05	1.56	1.43	.64	.80	.16	.51	.05	.36	.02							8
10	7.13	28.34	4.01	6.99	2.57	2.36	1.78	.97	1.00	.24	.64	.08	.45	.03							10
15	10.69	60.06	6.01	14.81	3.85	5.00	2.67	2.06	1.50	.51	.96	.17	.67	.07							15
20			8.02	25.24	5.13	8.52	3.56	3.51	2.00	.87	1.28	.29	.89	.12	.50	.03					20
25			10.02	38.16	6.41	12.88	4.45	5.31	2.51	1.31	1.60	.44	1.11	.18	.63	.04					25
30			12.03	53.48	7.70	18.06	5.34	7.44	3.01	1.83	1.92	.62	1.34	.26	.75	.06	.48	.02			30
35					8.98	24.03	6.24	9.89	3.51	2.44	2.24	.82	1.56	.34	.88	.08	.56	.03			35
40					10.26	30.77	7.13	12.67	4.01	3.13	2.57	1.06	1.78	.43	1.00	.11	.64	.04			40
45					11.54	38.27	8.02	15.76	4.51	3.89	2.89	1.31	2.00	.54	1.13	.13	.72	.05			45
50					12.83	46.51	8.91	19.16	5.01	4.72	3.21	1.60	2.23	.66	1.25	.16	.80	.05	.56	.02	50
60							10.69	26.85	6.01	6.62	3.85	2.24	2.67	.92	1.50	.23	.96	.08	.67	.03	60
70									7.01	8.81	4.49	2.98	3.12	1.23	1.75	.30	1.12	.10	.78	.04	70
80									8.02	11.28	5.13	3.81	3.56	1.57	2.00	.39	1.28	.13	.89	.05	80
90									9.02	14.03	5.77	4.74	4.01	1.95	2.25	.48	1.44	.16	1.00	.07	90
100									10.02	17.06	6.41	5.76	4.45	2.37	2.51	.59	1.60	.20	1.11	0.08	100
125											8.02	8.71	5.57	3.59	3.13	.88	2.00	.30	1.39	.12	125
150											9.62	12.20	6.68	5.03	3.76	1.24	2.41	.42	1.67	.17	150
175													7.79	6.69	4.38	1.65	2.81	.56	1.95	.23	175
200													8.91	8.56	5.01	2.11	3.21	.71	2.23	.29	200
225													10.02	10.65	5.64	2.63	3.61	.89	2.51	.37	225
250													11.13	12.95	6.26	3.19	4.01	1.08	2.78	.44	250
275															6.89	3.81	4.41	1.29	3.06	.53	275
300															7.52	4.48	4.81	1.51	3.34	.62	300
325															8.14	5.19	5.21	1.75	3.62	.72	325
350															8.77	5.95	5.61	2.01	3.90	.83	350
375															9.39	6.77	6.01	2.28	4.18	.94	375
400															10.02	7.63	6.41	2.57	4.45	1.06	400
425																	6.81	2.88	4.73	1.19	425
450																	7.22	3.20	5.01	1.32	450
475																	7.62	3.54	5.29	1.46	475
500																	8.02	3.89	5.57	1.60	500
550																	8.82	4.64	6.12	1.91	550
600																	9.62	5.46	6.68	2.25	600
650																			7.24	2.61	650
700																			7.79	2.99	700
750																			8.35	3.40	750
1000																			11.13	5.79	1000

* Friction loss of water in feet per 100 feet length of pipe. Based on Williams & Hazen formula using constant 150.

* Recommended operating flow velocities indicated by boxed areas.

NOTES:

This image shows a full page of blank handwriting practice paper. It features approximately 28 evenly spaced horizontal blue lines across the entire page, providing a guide for letter height and placement. The lines are uniform in color and thickness, set against a plain white background. There are no margins, text, or other markings present.

[illegible]

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