

**Cabarrus Health Alliance**  
**VGB Approved Suction Outlet Covers**

**\*\* This is not a substitution for listed manufacturer specifications and is subject to change. \*\***

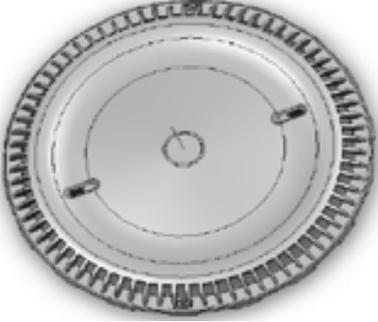
## Drain Cover Life Span

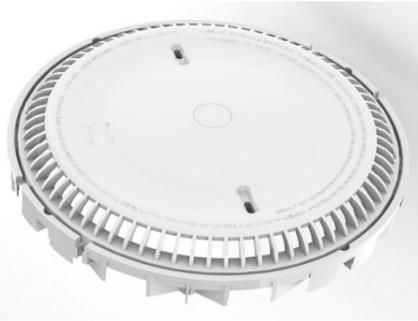
<b>Manufacturer</b>	<b>Life Span</b>
Aquastar Color Match DrainSafe Paramount	5 years
Afras	6 years
Balboa Bee Safe Custom Molded Hayward Pentair Waterway	7 years
Lawson	10 years
Neptune Benson	15 years
Paddock Stainless Steel	Lifetime – Inspect annually at 10 years and every year thereafter for damage. Change screws every 7 years. Replace/repair as needed. Maintain records onsite.

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# Afras

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AFRAS</b></p> <p>7 3/4" Anti-Vortex <b>Ring</b> and <b>Cover</b> – ABF64</p>	10064xxxx	Floor: 86 Wall: 68	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<p><b>AFRAS</b></p> <p>7 3/4" Anti-Vortex <b>Cover Only</b>– ABF64</p>	11064xxxx	Floor: 86 Wall: 68	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<p><b>AFRAS</b></p> <p>High Capacity Cover – <b>Cover Only</b></p> <p>Retrofit for most AFRAS covers – ABF64A</p> <p>11.125" in diameter</p>	10064Axxx	Floor: 188 Wall: 160	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

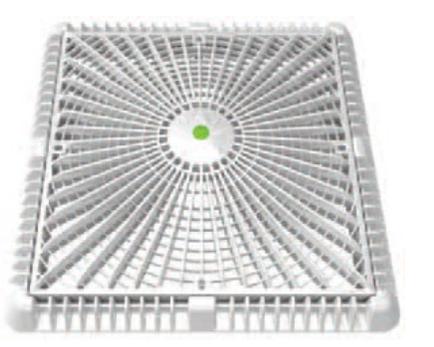
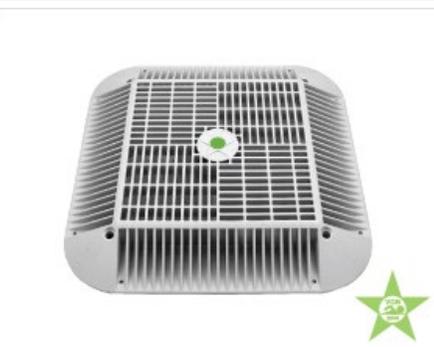
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AFRAS</b></p> <p>High Capacity Cover <b>with Ring</b>- Retrofit for 10064Axxx</p> <p>11.125" in diameter</p>	10064ARxxx	Floor: 188 Wall: 160	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p><b>AFRAS</b></p> <p>High Capacity Cover <b>with Plate</b></p> <p>11.125" in diameter</p>	10064ADxxx	Floor: 188 Wall: 160	Sumpless
	<p><b>AFRAS</b></p> <p>12"x12" Ring Plate <b>only</b></p>	10064ACxxx	Floor: 188 Wall: 160	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>

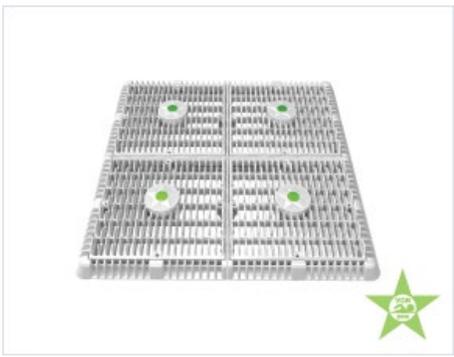
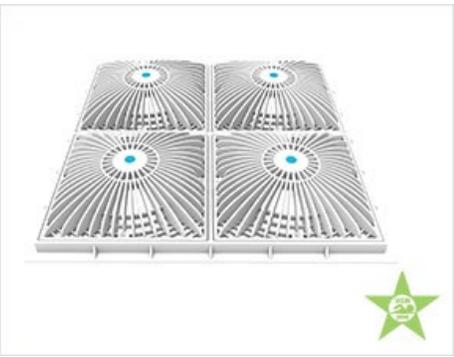
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>AFRAS</b>  12"x12" Ring Plate with <b>additional</b> Plate	10064ACF	Floor: 188 Wall: 160	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

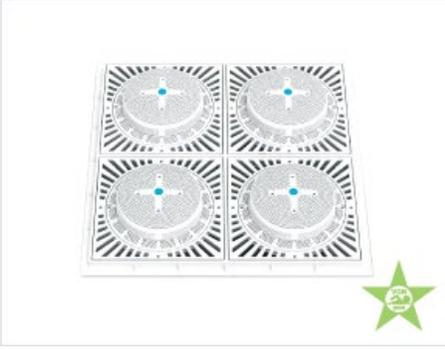
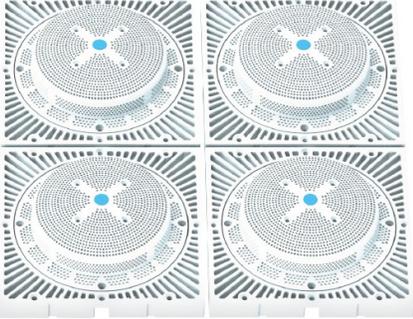
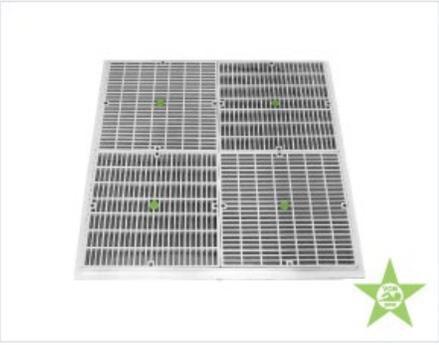
## AquaStar

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>AquaStar</b>  9" Square MoFlow Suction Outlet Cover and Mud Frame and/or bushing	9MFxxx	Floor: 258 Wall: 274	<u>Sump Depth</u> 3" minimum to pipe
	<b>AquaStar</b>  9" Square MoFlow Suction Outlet Cover with Bushing Kit	*R9MFxxx	Floor: 258 Wall: 274	<u>Sump Depth</u> 3" minimum to pipe

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>9" Square Wave Anti-Entrapment Suction Outlet Cover, Vented Riser Ring and Mud Frame</p>	<p>WAV9WRxxx</p>	<p>Floor: 224 Wall: 224</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>9" Square Star Anti-Entrapment Suction Outlet Cover, Vented Riser Ring and Mud Frame</p> <p><i>** Discontinued product</i></p>	<p>P9xxx</p>	<p>Floor: 270 Wall: 270</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>12" Square MoFlow Suction Outlet Cover and Mud Frame and/or bushing</p>	<p>12MFxxx</p>	<p>Floor: 274 Wall: 278</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>12" Square MoFlow Suction Outlet Cover and Mud Frame and/or bushing</p>	<p>*R12MFxxx</p>	<p>Floor: 274 Wall: 278</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>AquaStar</b>  12" Square Wave Anti-Entrapment Suction Outlet Cover, Vented Riser Ring and Mud Frame	WAV12WRxxx	Floor: 361 Wall: 361	<u>Sump Depth</u> 3" minimum to pipe
	<b>AquaStar</b>  12" Square Star Anti-Entrapment Suction Outlet Cover, Vented Riser Ring and Mud Frame  <b>** Discontinued product</b>	P12xxx	Floor: 360 Wall: 360	<u>Sump Depth</u> 3" minimum to pipe
	<b>AquaStar</b>  14" Square Anti-Entrapment Suction Outlet Cover for 9" Square Retrofits or New Construction – fits most frames up to 13"	914xxx	Floor: 560 Wall: 300	<u>Sump Depth</u> 3" minimum to pipe
	<b>AquaStar</b>  16" Square Anti-Entrapment Suction Outlet Cover for 12" Square Retrofits or New Construction – fits most frames up to 15"	1216xxx	Floor: 460 Wall: 445	<u>Sump Depth</u> 3" minimum to pipe

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>18" Square Frame with Four 9" Square Wave Anti-Entrapment Suction Outlet Covers and Vented Riser Rings</p>	<p>WAV18WRxxx</p>	<p>Floor/Wall: 628</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>18" Square Mud Frame with Four 9" Square MoFlow Suction Outlet Covers</p>	<p>18MFxxx</p>	<p>Floor Only: 293</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>18" Square Retrofit with Four 9" Square MoFlow Suction Outlet Covers – No Mud Frame</p>	<p>*R18MFNFxxx</p>	<p>Floor Only: 293</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>18" Square Mud Frame with Four 9" Square MoFlow Suction Outlet Covers</p>	<p>P18xxx</p>	<p>Floor: 740 Wall: 740</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>18" Square Mud Frame with Four 9" Square SUN/8HPH Suction Outlet Covers</p>	SUN18HPHxxx	Floor: 1000 Wall: 644	<u>Sump Depth</u> 6" minimum to pipe
	<p><b>AquaStar</b></p> <p>18" Square Retrofit with Four 9" Square SUN/8HPH Suction Outlet Covers – No Mud Frame</p>	*RSUN18HPHR-xxx	Floor: 1000 Wall: 644	<u>Sump Depth</u> 6" minimum to pipe
	<p><b>AquaStar</b></p> <p>24" Square Frame with Four 12" Square Flat Grate Anti-Entrapment Suction Outlet Covers</p>	24xxx	Floor: 1531 Wall: 1531	<u>Sump Depth</u> 12" minimum to pipe
	<p><b>AquaStar</b></p> <p>MAHC-I Series 18"x36" with Four 9"x18" Anti-Entrapment Suction outlet Covers and Expandable Mud Frame</p>	1836xxx and *R1836xxx	Floor: 2275 Wall: 2275	<u>Sump Depth</u> 6" minimum to pipe

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>MAHC-I Series 18"x36" Expansion Kit with Two 9"x18" Anti-Entrapment Suction Outlet Covers and Expandable Mud Frame</p>	<p>1836E and *R1836E</p>	<p>Floor/Wall: 837</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>4" Round Hockey Puck Sumpless Suction Outlet Cover</p>	<p>4HPxxx</p>	<p>Wall: 56 (only)</p>	<p>Sumpless</p>
	<p><b>AquaStar</b></p> <p>6" Round Hockey Puck Sumpless Suction Outlet Cover</p> <p><b>** Discontinued Product</b></p>	<p>6HPxxx</p>	<p><u>2" Pipe</u> Floor: 224 Wall: 224</p> <p><u>1.5" Pipe</u> Floor: 177 Wall: 122</p>	<p>Sumpless</p>

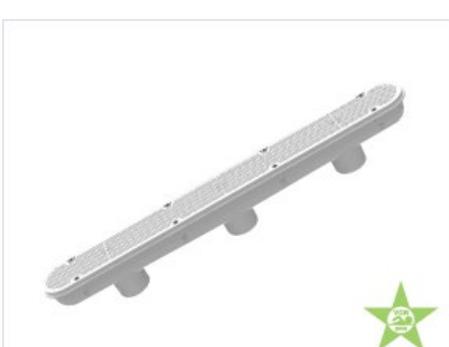
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>6" Round Hockey Puck Sumpless Suction Outlet Cover, HydroAir/ITT Replacement</p>	<p>6HPHAxxx</p>	<p><u>2" Pipe</u> Floor: 160 Wall: 92</p> <p><u>1.5" Pipe</u> Floor: 144 Wall: 92</p>	<p>Sumpless</p>
	<p><b>AquaStar</b></p> <p>8" Round Hockey Puck Sumpless Suction Outlet Cover and Mud Frame</p> <p><i>*Discontinued Product</i></p>	<p>8HPxxx</p>	<p>Floor: 224 Wall: 224</p>	<p>Sumpless</p>
	<p><b>AquaStar</b></p> <p>8" Round MoFlow Suction Outlet Cover and Mud Frame</p>	<p>8MFxxx</p>	<p>Floor: 166 Wall: 113</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>8" Round Retrofit MoFlow Suction Outlet Cover – Fits most 8" sumps that 8MFxxx does not fit</p>	<p>*R8MFxxx</p>	<p>Floor: 146 Wall: 130</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>8" Round Star Sumpless Suction Outlet Cover, Solid Riser Ring and Mud Frame</p>	<p>A8Rxxx</p>	<p>Floor: 140 Wall: 84</p>	<p>Sumpless</p>
	<p><b>AquaStar</b></p> <p>8" Round Low-Profile Anti-Entrapment Suction Outlet Cover, Vented Riser Ring and Mud Frame</p>	<p>LP8AVWRxxx</p>	<p>Floor: 100 Wall: 70</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>8" Round Color Choice Suction Outlet Cover</p>	<p>CC8xxx</p>	<p><u>2" Pipe</u> Floor: 84 Wall: 76</p> <p><u>3" Pipe</u> Floor: 144 Wall: 100</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>10" Round Anti-Entrapment Suction Outlet Cover, Solid Riser Ring and Mud Frame</p>	<p>10AVRxxx</p>	<p>Floor: 166 Wall: 96</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>
	<p><b>AquaStar</b></p> <p>10" Round MoFlow Suction Outlet Cover and Mud Frame</p>	<p>10MFxxx</p>	<p>Floor: 158 Wall: 162</p>	<p><u>Sump Depth</u> 3" minimum to pipe</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>AquaStar</b>  10" Round Star Sumpless Suction Outlet Cover, Universal Adapter Kit and Mud Frame	A10RCFRxxx	Floor: 170 Wall: 170	Sumpless
	<b>AquaStar</b>  10" Round Debris Catcher Anti-Entrapment Suction Outlet Cover and Mud Frame	10LTxxx	Floor Only: 60 with lid 125 w/o lid	<u>Sump Depth</u> 3" minimum to pipe
	<b>AquaStar</b>  10" Round Color Choice Suction Outlet Cover	CC10xxx	<u>2" Pipe</u> Floor: 105 Wall: 105  <u>3" Pipe</u> Floor: 156 Wall: 156	<u>Sump Depth</u> 3" minimum to pipe

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>Aquastar</b></p> <p>20" Full Circle Suction Outlet Cover and One-Port Manufactured Sump – Concrete Only</p> <p><i>Unblockable Cover. No second drain or SVRS required – two drains in one</i></p>	FCxxx	Floor Only: 158	Use included sump
	<p><b>AquaStar</b></p> <p>32" Channel Drain <i>Flat Grate</i> Anti-Entrapment Suction Outlet Cover and Three-Port Manufactured Sump – Unblockable Drain Multiple Pipe Connection</p> <p><i>For Fiberglass</i> <i>For Standard Concrete</i> <i>For Vinyl</i></p>	32CDFLFGxxx 32CDFLxxx 32CDFLVxxx	Floor: 316 Wall: 208	Use Sump Included  - Or –  3" minimum sump depth entire length of cover for frame only with field-built sump
	<p><b>AquaStar</b></p> <p>32" Channel Drain Anti-Entrapment Suction Outlet Cover and Three-Port Manufactured Sump - Unblockable Drain Multiple Pipe Connection</p> <p><i>For Fiberglass</i> <i>For Standard Concrete</i> <i>For Vinyl</i></p>	32CDAVFGxxx 32CDAVxxx 32CDAVVxxx	Floor: 236 Wall: 136	Use Sump Included  - Or –  3" minimum sump depth entire length of cover for frame only with field-built sump

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>32" Channel Drain <i>Debris Catcher</i> Suction Outlet with ABS Three-Port Manufactured Sump – Unblockable Drain Multiple Pipe Connection</p> <p>For <i>Fiberglass</i> For <i>Vinyl</i></p>	<p>32CDLTFGxxx 32CDLTVxxx</p>	<p>Floor: 196 Wall: 192</p>	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only with field-built sump</p>
	<p><b>AquaStar</b></p> <p>32" Channel Drain <i>Debris Catcher</i> Suction Outlet with ABS Three-Port Manufactured Sump – Unblockable Drain Multiple Pipe Connection</p> <p>For <i>Standard Concrete</i></p>	<p>32CDLTxxx</p>	<p>Floor: 196 Wall: 192</p>	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only with field-built sump</p>
	<p><b>AquaStar</b></p> <p>32" Channel Drain <i>Pinhole</i> Anti-Entrapment Suction Outlet Cover and Three-Port PVC Manufactured Sump– Unblockable Drain Multiple Pipe Connection</p> <p>For <i>Standard Concrete</i></p>	<p>32CDPHxxx</p>	<p>Floor: 268 Wall: 172</p>	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only with field-built sump</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>AquaStar</b></p> <p>32" Channel Drain <i>Pinhole</i> Anti-Entrapment Suction Outlet Cover, ABS Three-Port Manufactured Sump – Unblockable Drain Multiple Pipe Connection</p> <p>For <i>Fiberglass</i></p>	32CDPHFGxxx	Floor: 268 Wall: 172	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only with field-built sump</p>
	<p><b>AquaStar</b></p> <p>32" Channel Drain <i>Pinhole</i> Anti-Entrapment Suction Outlet Cover, ABS Three-Port Manufactured Sump – Unblockable Drain Multiple Pipe Connection</p> <p>For <i>Vinyl</i></p>	32CDPHVxxx	Floor: 268 Wall: 172	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only with field-built sump</p>
	<p><b>Aquastar</b></p> <p>32" Sumpleless Propeller Drain</p>	32PDxxx	Floor: 196 Wall: 88	Sumpleless

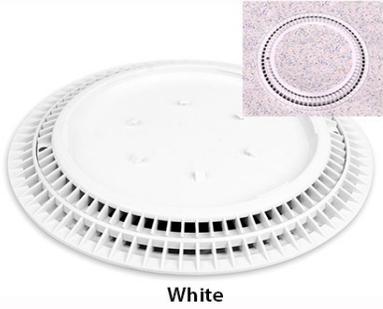
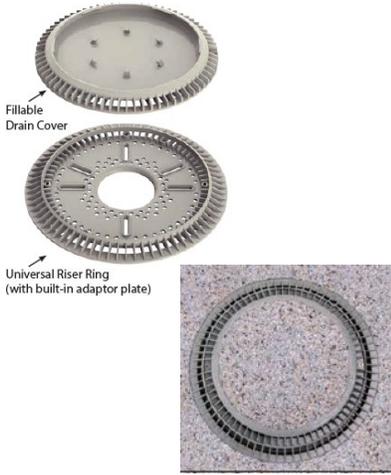
\*R denotes without mud ring.

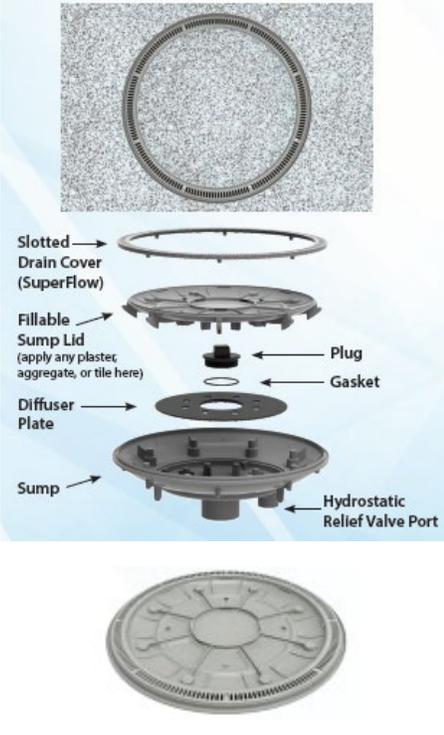
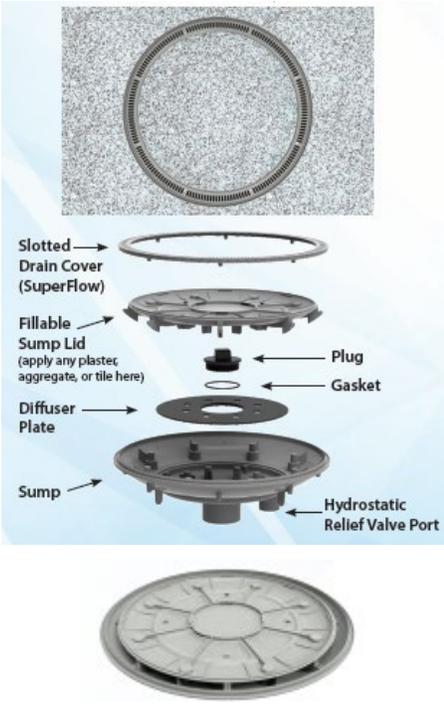
## Balboa

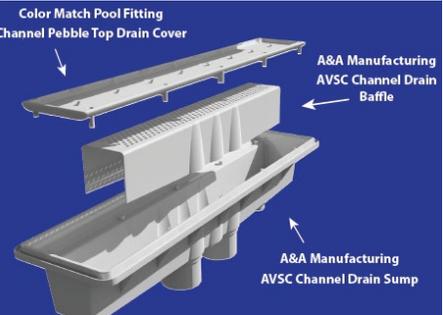
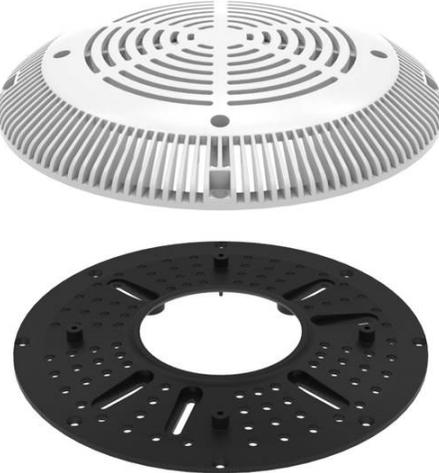
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>Balboa Water Group</b></p> <p>With 2" Socket Suction Adaptor</p>	30173U-XX	Wall Only: 124	Sumpless
	<p><b>Balboa Water Group</b></p>	30231U	Wall Only: 212	Sumpless
	<p><b>Balboa Water Group</b></p> <p>With 2" or 2.5" Wall Fitting</p> <p>With Custom Wall Fitting</p>	30240U-XX	<p>Wall Only: 179 GPM</p> <p>Wall Only: 256 GPM</p>	Sumpless

## Color Match Fittings

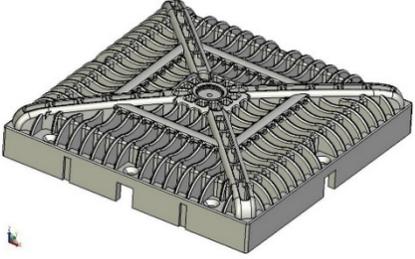
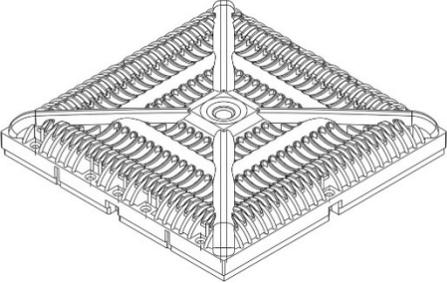
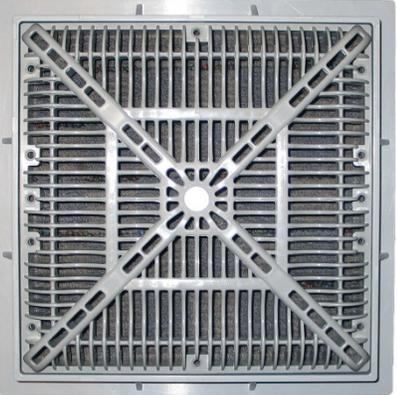
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>Color Match Fittings</b></p> <p>8" Drain Cover with Mounting Ring and Riser Ring</p>	<p>8-AV-XXXX</p>	<p><u>2" Pipe</u> Floor: 112 Wall: 76</p> <p><u>3" Pipe</u> Floor: 148 Wall: 100</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
 <p style="text-align: center;">White</p>	<p><b>Color Match Fittings</b></p> <p>8" Pebble Top Drain Cover with Mounting Ring and Riser Ring</p>	<p>8-PTD-XXXX</p>	<p><u>2" Pipe</u> Floor: 112 Wall: 76</p> <p><u>3" Pipe</u> Floor: 144 Wall: 100</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p><b>Color Match Fittings</b></p> <p>10" Drain Cover with Mounting Ring and Riser Ring</p>	<p>10-AV-XXXX</p>	<p><u>2" Pipe</u> Floor: 152 Wall: 152</p> <p><u>3" Pipe</u> Floor: 184 Wall: 144</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>

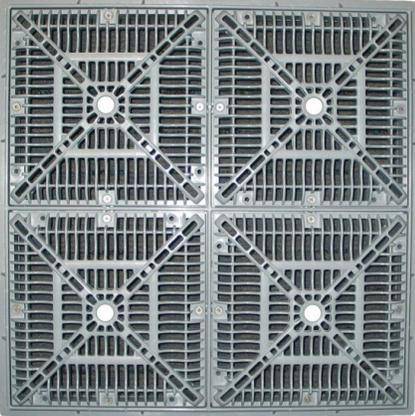
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
 <p>White</p>	<p><b>Color Match Fittings</b></p> <p>10" Pebble Top Drain Cover with Mounting Ring and Riser Ring</p>	<p>10-PTD-XXXA</p>	<p><u>2" Pipe</u> Floor: 156 Wall: 148</p> <p><u>3" Pipe</u> Floor: 180 Wall: 144</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
 <p>Fillable Drain Cover</p> <p>Universal Riser Ring (with built-in adaptor plate)</p>	<p><b>Color Match Fittings</b></p> <p>10" Retrofit Pebble Top with Universal Adaptor Plate</p>	<p>10RPTD-XXX</p>	<p><u>2" Pipe</u> Floor: 156 Wall: 108</p> <p><u>3" Pipe</u> Floor: 180 Wall: 112</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>Color Match Fittings</b></p> <p>360 Pebble Top Drain – 20" Unblockable Superflow</p>	<p>SuperFlow 360</p>	<p><u>2.5" Pipe</u> Floor: 300</p> <p><u>3"/4" Pipe</u> Floor: 360</p>	<p>Mfg. Sump</p>
	<p><b>Color Match Fittings</b></p> <p>360 Pebble Top Drain – 20" Unblockable Openflow</p>	<p>OpenFlow 360</p>	<p><u>2.5" Pipe</u> Floor: 220</p> <p><u>3"/4" Pipe</u> Floor: 240</p>	<p>Color Match Mfg. Sump</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
  <p>Color Match Pool Fitting Channel Pebble Top Drain Cover</p> <p>A&amp;A Manufacturing AVSC Channel Drain Baffle</p> <p>A&amp;A Manufacturing AVSC Channel Drain Sump</p>	<p><b>Color Match Fittings</b></p> <p>Channel Pebble Top Drain Cover</p>	<p>AAM-PTD-XX</p>	<p><u>3" Single</u> 200</p> <p><u>3" Dual</u> 208</p>	<p>A &amp; A Manufacturing Sump and Baffle – See mfg. spec sheet</p>
	<p><b>Color Match Fittings</b></p> <p>8-Inch Retrofit</p>	<p>Retro8-xxx</p>	<p>Floor: 156 Wall: 88</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p> <p><u>Pipe Size</u> 2" to 2.5"</p>
	<p><b>Color Match Fittings</b></p> <p>10-Inch Retrofit</p>	<p>Retro10-xxx</p>	<p><u>2" Pipe</u> Floor: 188 Wall: 144</p> <p><u>2.5" Pipe</u> Floor: 204 Wall: 124</p> <p><u>3" Pipe</u> Floor: 228 Wall: 200</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p> <p><u>Pipe Size</u> 2" to 3"</p>

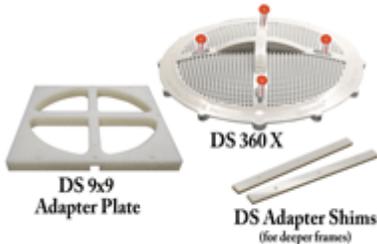
## Custom Molded Products

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Custom Molded Products</b>  Square Drain - 9"x 9"	25508-09x	Floor: 120 Wall: 120	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 3" minimum
	<b>Custom Molded Products</b>  Square Drain and <b>Frame</b> - 9"x 9"	25508-09x	Floor: 120 Wall: 120	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 3" minimum
	<b>Custom Molded Products</b>  Square Drain - 12"x 12"	25508-12x	Floor: 232 Wall: 232	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 5" minimum
	<b>Custom Molded Products</b>  Square Drain and <b>Frame</b> - 12"x 12"	25508-12x	Floor: 232 Wall: 232	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 5" minimum

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Custom Molded Products</b>  18" x 18"	25508-18x	Floor: 424 Wall: 424	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 5" minimum
	<b>Custom Molded Products</b>  32" Channel Drain - Unblockable	25506-32x	<u>Outer Ports Only – 2.5"</u> Floor: 308 Wall: 212  <u>Outer Ports Only – 2"</u> Floor: 268 Wall: 192  <u>Center Port Only – 2.5"</u> Floor: 200 Wall: 168  <u>Center Port Only – 2"</u> Floor: 184 Wall: 176	<u>Pipe Size</u> 2" minimum
	<b>Custom Molded Products</b>  20" Unblockable Ring Drain – Sump Included	25506-33x	<u>2 Ports</u> Floor: 245.6  <u>1 Port (one port plugged or hydrostatic)</u> Floor: 216	Sump Included – See mfg. spec sheet  <u>Pipe Size</u> 2" to 2.5" only

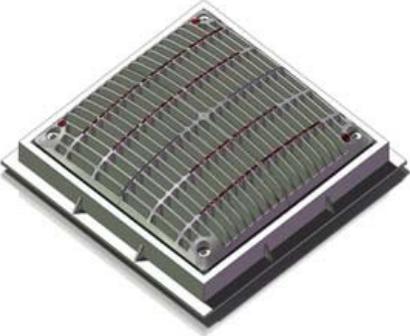
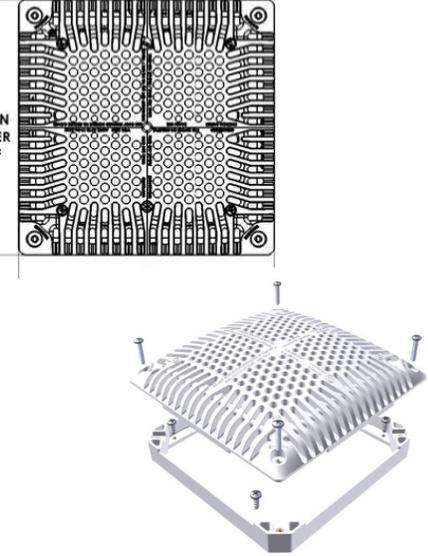
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Custom Molded Products</b>  Galaxy	25513-00x 25513-10x 25514-00x 25515-00x 25516-00x 25519-00x 25513-00x 25537-00x 25539-00x 25539-10x 25548-00x	Floor: 95 Wall: 84	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 1.5" minimum
	<b>Custom Molded Products</b>  NOVA	25513-26x 25513-4xx 25513-5xx 25513-6xx 25515-5xx 25516-26x 25516-4xx 25516-5xx 25517-5xx 25539-5xx 25539-6xx 25548-5xx	<u>1.5" Pipe</u> Floor: 140 Wall: 118  <u>2" Pipe</u> Floor: 150 Wall: 118	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter  <u>Pipe Size</u> 1.5" minimum
	<b>Custom Molded Products</b>  Equalizer Suction – 2" Insider or 1.5" MIP  3.95" diameter with 1.5" height	25207-7xx (2 inch)  25207-8xx (1.5")	Wall: 50   Wall: 50	Sumpless   <u>Pipe Size</u> 2" only

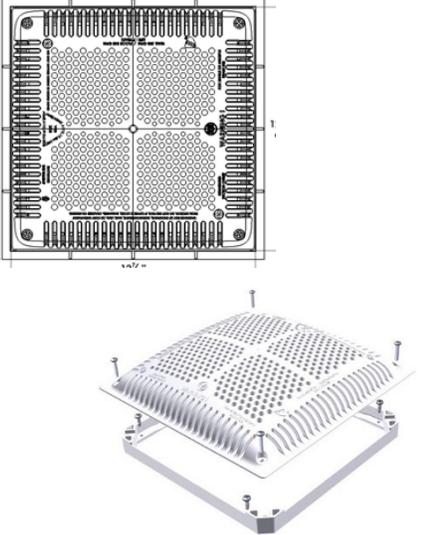
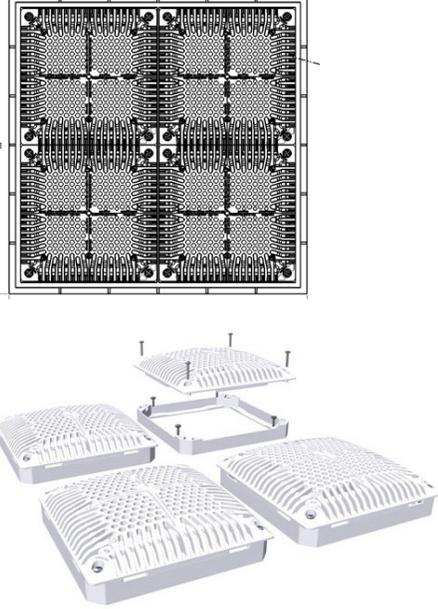
## DrainSafe

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>DrainSafe</b>  <i>*Discontinued Product</i>	DS360	Floor: 123 Wall: 123	<u>Sump Diameter</u> 5" to 8" only -or- Cut off pipe at ½" to 2.5" from cover  <u>Pipe Size</u> 2.5" max
	<b>DrainSafe</b>  Cover with Adaptor Plate  <i>*Discontinued Product</i>	DS360x	Floor: 160 (only)	<u>Sump Diameter</u> 9"x 9"  <u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

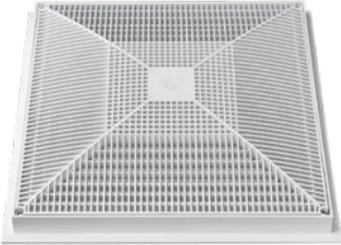
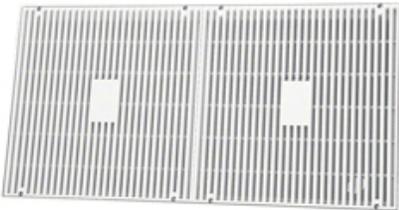
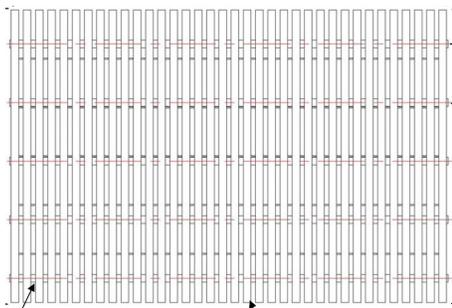
## Hayward

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Hayward</b>  8-inch round – Can only be used on main drains	WG1048e	Floor: 125 Wall: 72	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Hayward</b>  9"x9" Low Flow	WG1031BLV WGX1031BLV WGX1031BLV <sub>2</sub>	Floor: 190 Wall: 108	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Hayward</b>  9"x9" High Flow	WG1031HF WGX1031BHF WGX1031BHF <sub>2</sub>	Floor: 264 Wall: 224	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Hayward</b>  12"x12" Low Flow	WG1032BLV WGX1032BLV <sub>2</sub>	Floor: 392 Wall: 260	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>Hayward</b> 12"x12" High Flow</p>	<p>WG1032BHF WGX1032BHF WGX1032BHF<sub>2</sub></p>	<p>Floor: 515 Wall: 308</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p><b>Hayward</b> 18"x18" Low Flow</p>	<p>WG1033BLV WGX1033BLV<sub>2</sub></p>	<p>Floor: 520 Wall: 520</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p><b>Hayward</b> 18"x18" High Flow</p>	<p>WG1033BHF WGX1033BHF<sub>2</sub></p>	<p>Floor: 812 Wall: 732</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>

# Lawson

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Lawson</b> 9"x9"  12"x12"  18"x18"	<b>No Sump</b> MLD-FGD-0909  MLD-FGD-1212  MLD-FGD-1818  <b>With Sump</b> MLD-SG-0909  MLD-SG-1212  MLD-SG-1818	<u>Floor/Wall</u> 261/248  365/340  816/712  261/248  365/340  816/712	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Lawson Superflo Drain Cover – Large Grate</b>	MLD-FG-1836 [(2) 18" grates]  MLD-FG-1854 [(3) 18" grates]  MLD-FG-1872 [(4) 18" grates]	<u>Floor/Wall</u> 2080/1496  4269 (floor only)  4518 (floor only)	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Lawson Large Area Grates</b> 24"x24"  24"x36"  24"x48"	MLD-FG-2424  MLD-FG-2436  MLD-FG-2448	<u>Floor/Wall</u> 810  2954  5132	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Lawson</b>  6" Round Skimmer Equalizer/Suction Outlet	MLD-SG-06	<u>Floor/Wall</u> 44/49	Sump and Grate required for installation

## Neptune Benson

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Neptune Benson</b>  30"x30"	Aegis	Floor: 1432 Wall: 1120	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter – only approved sumpless if pipe enters sump from bottom of the sump and cover is placed center over pipe  Approved to cover sump up 24"x24" in size

## Paddock

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Paddock</b>  20"X 20"	2020 PCDC	Floor: 1200 (only)	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Paddock</b>  24"x 24"	2424 PCDC	Floor: 1420 Wall: 1420	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Paddock</b>  24"x 24" Flat Cover	2424 PCFC	Floor: 915 Wall: 915	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	(2) 24"x 24" – Utilizes (2) 2424PCFC Suction Fittings	2448 PCFC	Floor: 3500 Wall: 3500	
	<b>Paddock</b>  20"x 20"  (2) 20"x20" – Utilizes (2) 2020PCGO Suction Fittings	2020 PCGO  2040 PCGO	Floor: 1960 Wall: 1960	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

## Paramount

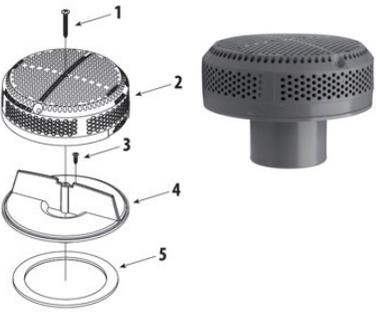
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Paramount</b>  Only allowed on main drains – unless individually approved	SDX Retro	Floor: 200 Wall: 192	Sumpless – Main drain only

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p><b>Paramount SDX2 Retro</b></p> <p>Retrofits suction fittings up to 10" diameter</p>	<p>SDX2 Retro</p>	<p><u>Single</u> Floor: 188 Wall: 154</p> <p><u>Dual</u> Floor: 188 Wall: 154</p> <p><u>Tri</u> Floor: 282 Wall: 231</p> <p><u>Quad</u> Floor: 376 Wall: 308</p>	<p>Sumpless</p> <p><u>Pipe Size</u> Minimum 1.5" Pipe up to 4" Pipe</p>
	<p><b>Superflow 360</b></p> <p>Pebble Top Drain Cover (20") with grate attached - Unblockable</p> <p><b>OpenFlow 360</b></p> <p>Pebble Top Drain Cover (20") without grate attached - Unblockable</p>	<p>Super Flow 360-xx</p> <p>Open Flow 360-xx</p>	<p>Floor Only: 384</p> <p>Floor Only: 324</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p> <p>Sump included with cover – 3" and 4" pipe only</p>
	<p><b>Paramount Buzztop Channel Drain</b></p>	<p>004-203-0010xx (for mfg. sump)</p> <p>004-203-0020-xx (for field-built sump)</p>	<p>Floor Only: 120</p>	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover</p>

## Pentair

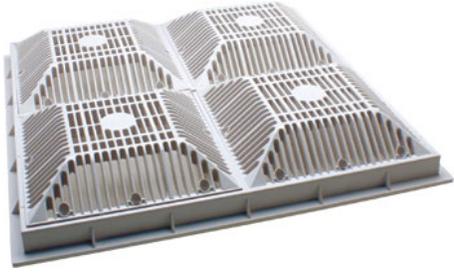
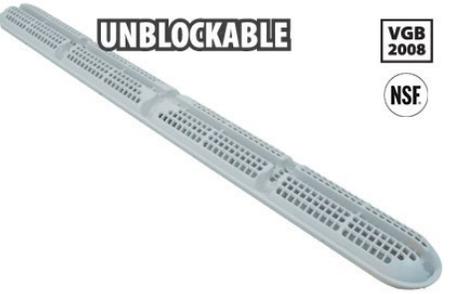
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Pentair</b>  StarGuard 8"	5001xx	Floor: 144 Wall: 112	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

## Waterway

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Waterway</b>  Super Maxi Flow for Skimmer Equalizer	640-801x  640-803x	164 gpm  106 gpm	Sumpless
	<b>Waterway</b>  SPC-3V without vacuum break	640-358x	180 gpm	Sumpless

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Waterway</b>  6" Equalizer Cover	640-8200 640-8230  640-8220 640-8210  640-8240 640-8250	191 gpm   136 gpm   77 gpm	Sumpless
	<b>Waterway</b>  Tru Flo 8" Covers	640-180x	Floor: 153 Wall: 96	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  Tru Flo 10" Covers	640-190x	Floor: 200 Wall: 136	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  10" Ultra Retro Drains	640-213x	Floor: 224 Wall: 192	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  10" Ultra-Retro Drains - Vinyl	640-214x	Floor: 224 Wall: 192	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Waterway</b>  8" Anti-Vortex Drains	640-231x	Floor: 100 Wall: 64	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  9" x 9"	640-479x	Floor: 289 Wall: 208	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  12" x 12"	640-472x	Floor: 356 Wall: 280	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  24"x24"	640-476x	Floor: 2035 (only)	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<b>Waterway</b>  18" x 18"	640-477x	Floor: 788 Wall: 517	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	<b>Waterway</b>  32" Ultra Strip Drain - Manufactured Sump	640-132x	<u>Outer Ports</u> Floor: 352 Wall: 304  <u>Center Port</u> Floor: 288 Wall: 232	Sump Included
	<b>Waterway</b>  32" Ultra Strip Drains – Field Built Sumps	640-133x	<u>Outer Ports</u> Floor: 352 Wall: 304  <u>Center Port</u> Floor: 288 Wall: 232	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter – meet APSP requirements
	<b>Waterway</b>  32" Diamond Strip – Concrete	640-136xv	<u>Outer Ports</u> Floor: 320 Wall: 240  <u>Center Port</u> Floor: 280 Wall: 216	Sump Included

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
 <p><b>UNBLOCKABLE</b></p> <p>VGB 2008</p> <p>NSF</p>	<p><b>Waterway</b></p> <p>32" Diamond Strip Drains – Field Built Sumps</p>	640-137xv	<p><u>Outer Ports</u> Floor: 320 Wall: 240</p> <p><u>Center Port</u> Floor: 280 Wall: 216</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter – meet APSP requirements</p>
 <p><b>UNBLOCKABLE</b></p> <p>VGB 2008</p> <p>NSF</p> <p>Hydrostatic Valve available.</p>	<p><b>Waterway</b></p> <p>32" Ultra Strip Drains - Vinyl</p>	640-130xv	<p><u>Outer Ports</u> Floor: 352 Wall: 304</p> <p><u>Center Port</u> Floor: 288 Wall: 232</p>	Sump Included
 <p><b>UNBLOCKABLE</b></p> <p>VGB 2008</p> <p>NSF</p> <p>Hydrostatic Valve available.</p>	<p><b>Waterway</b></p> <p>32" Diamond Strip Drains – Vinyl</p>	640-134xv	<p><u>Outer Ports</u> Floor: 320 Wall: 240</p> <p><u>Center Port</u> Floor: 280 Wall: 110</p>	Sump Included