



Mecklenburg County Health Department

VGB Approved Suction Outlet Covers

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

Drain Cover Life Span

Manufacturer	Life Span
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.


Table of Contents

Afras	3
AquaStar	5
Balboa	17
Color Match Fittings.....	18
Custom Molded Products	22
DrainSafe.....	24
Hayward	25
Lawson	27
Neptune Benson	27
Paddock.....	28
Paramount	29
Pentair.....	30
Waterway.....	31


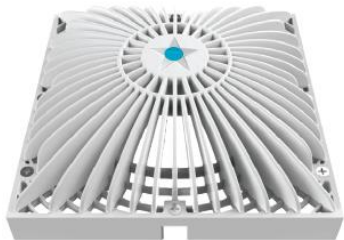
Afras


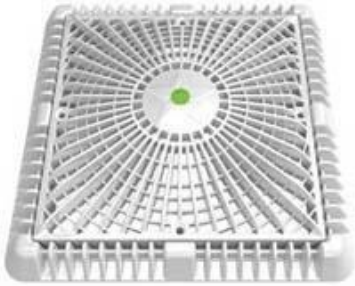

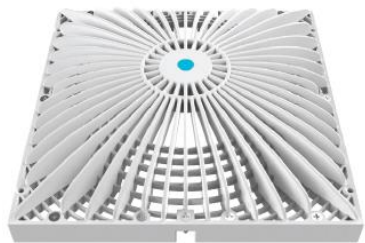
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AFRAS</p> <p>7 3/4" Anti-Vortex Ring and Cover – ABF64</p>	10064xxxx	Floor: 86 Wall: 68	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p>AFRAS</p> <p>7 3/4" Anti-Vortex Cover Only– ABF64</p>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


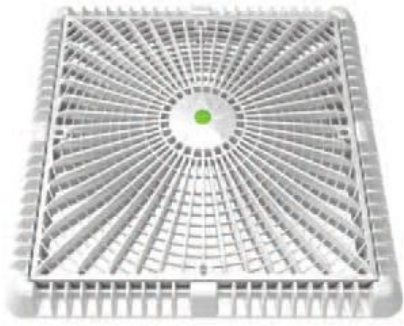


VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AFRAS</p> <p>High Capacity Cover with Ring- Retrofit for 10064Axxx</p> <p>11.125" in diameter</p>	10064ARxxx	Floor: 188 Wall: 160	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p>AFRAS</p>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

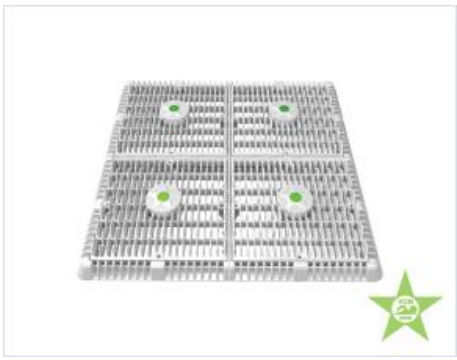



VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	AFRAS 12"x12" Ring Plate with additional Plate	10064ACF	Floor: 188 Wall: 160	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter




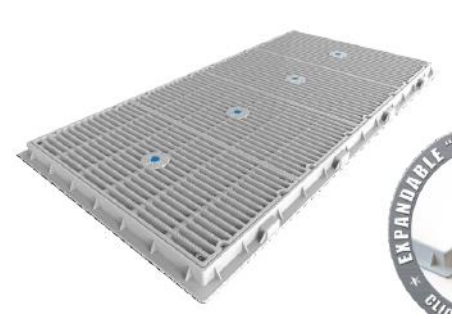
AquaStar





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




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



VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AquaStar</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>AquaStar</p> <p>18" Square Mud Frame with Four 9" Square MoFlow Suction Outlet Covers</p>	<p>18MFxxx</p>	<p>Floor: 293 (only)</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p>AquaStar</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>
	<p>AquaStar</p> <p>18" Square Mud Frame with Four 9" Square SUN/8HPH Suction Outlet Covers</p>	<p>SUN18HPHxxx</p>	<p>Floor: 1000 Wall: 644</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>AquaStar</p> <p>24" Square Frame with Four 12" Square Wave Anti-Entrapment Suction Outlet Covers</p>	<p>WAV24xxx</p>	<p>Floor/Wall: 1444</p>	<p><u>Sump Depth</u> 12" minimum to pipe</p>
	<p>AquaStar</p> <p>24" Square Frame with Four 12" Square Flat Grate Anti-Entrapment Suction Outlet Covers</p>	<p>24xxx</p>	<p>Floor: 1531 Wall: 1531</p>	<p><u>Sump Depth</u> 12" minimum to pipe</p>
	<p>AquaStar</p> <p>24" Square Cover for 18" Square Retro-fits or New Construction</p>	<p>1824xxx</p>	<p>Floor: 1182 Wall: 1182</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p>AquaStar</p> <p>MAHC-I Series 18"x36" with Four 9"x18" Anti-Entrapment Suction outlet Covers and Expandable Mud Frame</p>	<p>1836xxx and *R1836xxx</p>	<p>Floor: 2275 Wall: 2275</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>Aquastar</p> <p>MAHC-I Series 18"x36" Expansion Kit with Two 9"x18" Anti-Entrapment Suction Outlet Covers and Expandable Mud Frame</p>	<p>1836EE and *R1836EE</p>	<p>Floor/Wall: 837</p>	<p><u>Sump Depth</u> 6" minimum to pipe</p>
	<p>AquaStar</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>AquaStar</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>
	<p>AquaStar</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>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	AquaStar 10" Round MoFlow Suction Outlet Cover and Mud Frame	10MFxxx	Floor: 158 Wall: 162	<u>Sump Depth</u> 3" minimum to pipe
	AquaStar 8" Round Star Sumpless Suction Outlet Cover, Solid Riser Ring and Mud Frame	A8Rxxx	Floor: 140 Wall: 84	Sumpless
	AquaStar 10" Round Star Sumpless Suction Outlet Cover, Universal Adapter Kit and Mud Frame	A10RCFRxxx	Floor: 170 Wall: 170	Sumpless
	AquaStar 8" Round Low-Profile Anti-Entrapment Suction Outlet Cover, Vented Riser Ring and Mud Frame	LP8AVWRxxx	Floor: 100 Wall: 70	<u>Sump Depth</u> 3" minimum to pipe

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AquaStar</p> <p>10" Round Debris Catcher Anti-Entrapment Suction Outlet Cover and Mud Frame</p>	10LTxxx	Floor Only: 60 with lid 125 w/o lid	<u>Sump Depth</u> 3" minimum to pipe
	<p>AquaStar</p> <p>20" Full Circle Suction Outlet Cover and One-Port Manufactured Sump – Concrete Only</p>	FCxxx	Floor Only: 158	Use included sump
	<p>AquaStar</p> <p>4" Round Hockey Puck Sumpless Suction Outlet Cover</p>	4HPxxx	Wall: 56 (only)	Sumpless

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AquaStar</p> <p>6" Round Hockey Puck Sumpless Suction Outlet Cover</p> <p>** Discontinued Product</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>
	<p>AquaStar</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>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AquaStar</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>AquaStar</p> <p>32" Channel Drain Anti-Entrapment Suction Outlet Cover and Three-Port Manufactured Sump - Unblockable Drain Multiple Pipe Connection</p> <p>For <i>Fiberglass</i> For <i>Standard Concrete</i> For <i>Vinyl</i></p>	<p>32CDAVFGxxx 32CDAVxxx 32CDAVVxxx</p>	<p>Floor: 236 Wall: 136</p>	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only</p>
	<p>AquaStar</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>For <i>Fiberglass</i> For <i>Standard Concrete</i> For <i>Vinyl</i></p>	<p>32CDFLFGxxx 32CDFLxxx 32CDFLVxxx</p>	<p>Floor: 316 Wall: 208</p>	<p>Use Sump Included</p> <p>- Or -</p> <p>3" minimum sump depth entire length of cover for frame only</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AquaStar</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</p>
	<p>AquaStar</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</p>
	<p>AquaStar</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</p>




VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>AquaStar</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	Use Sump Included - Or – 3" minimum sump depth entire length of cover for frame only
	<p>AquaStar</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	Use Sump Included - Or – 3" minimum sump depth entire length of cover for frame only
	<p>AquaStar</p> <p>32" Sumpless Propeller Drain</p>	32PDxxx	Floor: 196 Wall: 88	Sumpless

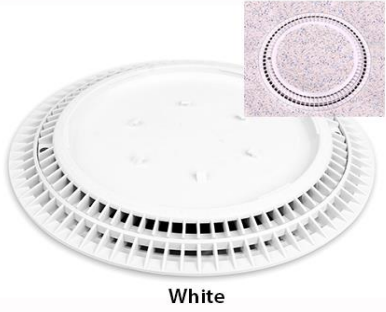
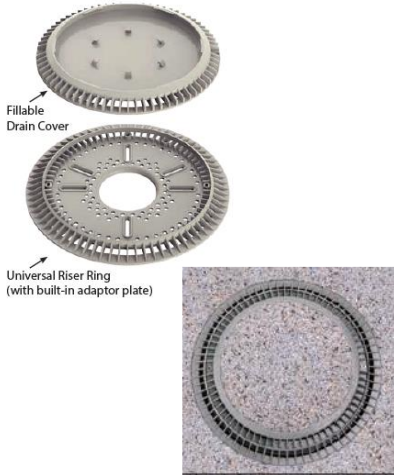
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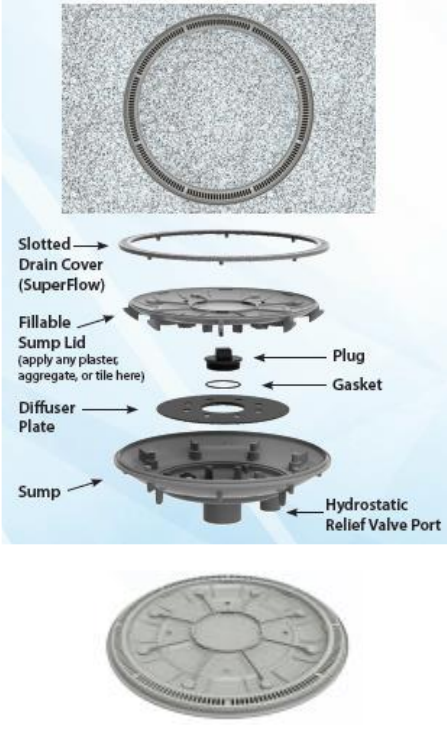
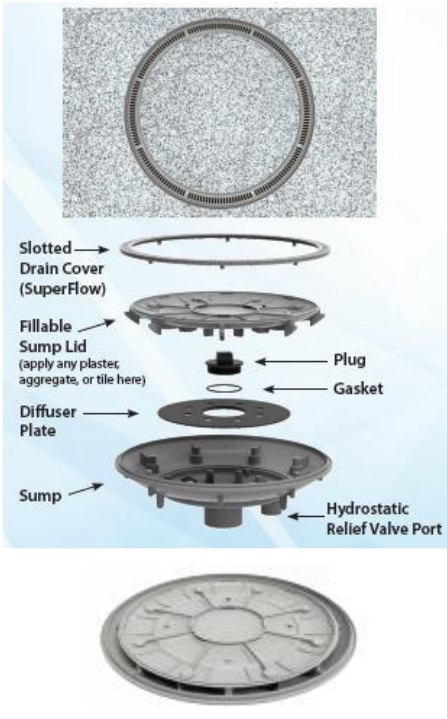
Balboa


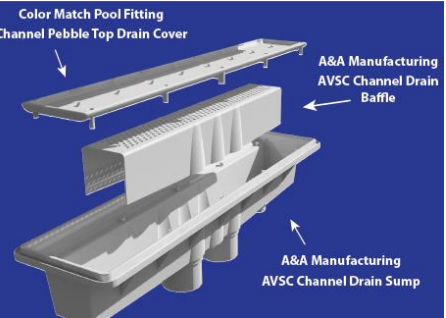


VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Balboa Water Group	30173U	Wall Only: 124	Sumpless
	Balboa Water Group	30231U	Wall Only: 212	Sumpless

Color Match Fittings

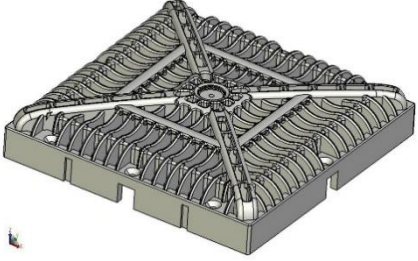

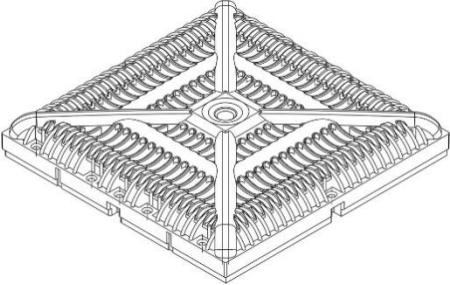
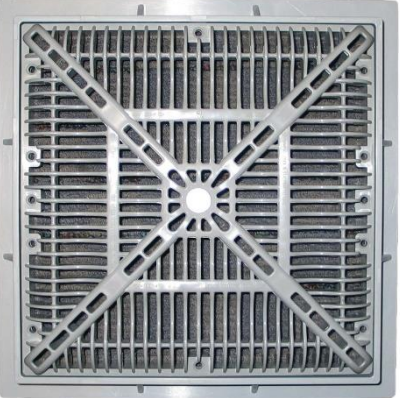
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	<p>Color Match Fittings</p> <p>8" Drain Cover with Mounting Ring and Riser Ring</p>	<p>8-AV-XXXX</p>	<p><u>2" Pipe</u> Floor: 112 Wall: 76</p> <p><u>3" Pipe</u> Floor: 148 Wall: 100</p>	<p><u>Distance from Pipe to Cover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

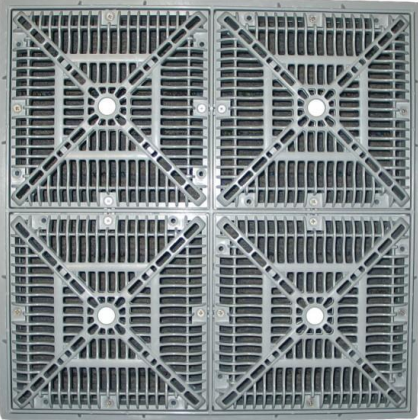


VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
 <p>White</p>	<p>Color Match Fittings</p> <p>10" Pebble Top Drain Cover with Mounting Ring and Riser Ring</p>	<p>10-PTD-XXXA</p>	<p><u>2" Pipe</u> Floor: 156 Wall: 148</p> <p><u>3" Pipe</u> Floor: 180 Wall: 144</p>	<p><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>Color Match Fittings</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>Color Match Fittings</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>Color Match Fittings</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&A Manufacturing AVSC Channel Drain Baffle</p> <p>A&A Manufacturing AVSC Channel Drain Sump</p>	<p>Color Match Fittings</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 & A Manufacturing Sump and Baffle – See mfg. spec sheet</p>
	<p>Color Match Fittings</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>Color Match Fittings</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>


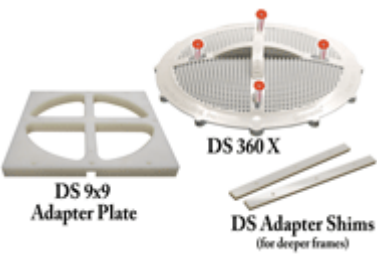
Custom Molded Products

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Custom Molded Products 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
	Custom Molded Products Square Drain and Frame - 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
	Custom Molded Products 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
	Custom Molded Products Square Drain and Frame - 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


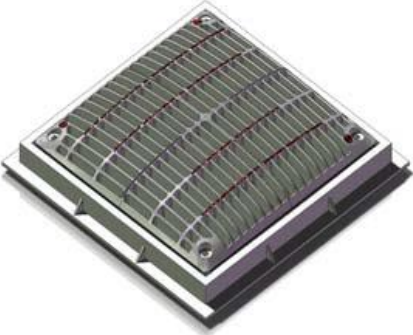
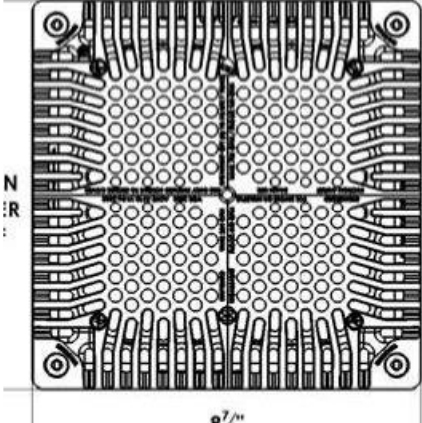
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Custom Molded Products 18" x 18"	25508-18x	Floor: 424 Wall: 424	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter <u>Pipe Size</u> 5" minimum
	Custom Molded Products 32" Channel Drain - Unblockable	25506-32x	<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
	Custom Molded Products 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


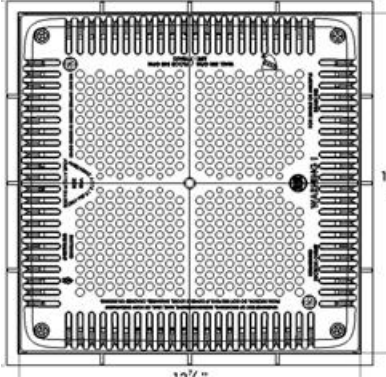

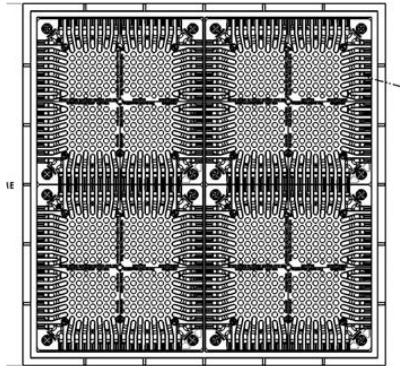
VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Custom Molded Products NOVA	25513-26x 25513-4xx 25513-5xx 25513-6xx 25515-5xx 25516-26x 25516-4xx 25516-5xx 25517-5xx 25539-5xx 25539-6xx 25548-5xx	<u>1.5" Pipe</u> Floor: 140 Wall: 118 <u>2" Pipe</u> Floor: 150 Wall: 118	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter <u>Pipe Size</u> 1.5" minimum

DrainSafe

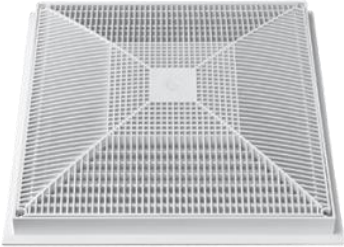

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	DrainSafe	DS360	Floor: 123 Wall: 123	<u>Sump Diameter</u> 5" to 8" only -or- Cut off pipe at 1/2" to 2.5" from cover <u>Pipe Size</u> 2.5" max
	DrainSafe Cover with Adaptor Plate	DS360x	Floor: 160 (only)	<u>Sump Diameter</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
	<p>Hayward</p> <p>8-inch round – Can only be used on main drains</p>	<p>WG1048e</p>	<p>Floor: 125 Wall: 72</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p>Hayward</p> <p>9"x9" Low Flow</p>	<p>WG1031BLV WGX1031BLV WGX1031BLV₂</p>	<p>Floor: 190 Wall: 108</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter</p>
	<p>Hayward</p> <p>9"x9" High Flow</p>	<p>WG1031HF WGX1031BHF WGX1031BHF₂</p>	<p>Floor: 264 Wall: 224</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
	Hayward 12"x12" Low Flow	WG1032BLV WGX1032BLV ₂	Floor: 392 Wall: 260	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Hayward 12"x12" High Flow	WG1032BHF WGX1032BHF WGX1032BHF ₂	Floor: 515 Wall: 308	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Hayward 18"x18" Low Flow	WG1033BLV WGX1033BLV ₂	Floor: 520 Wall: 520	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Hayward 18"x18" High Flow	WG1033BHF WGX1033BHF ₂	Floor: 812 Wall: 732	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter






Lawson

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Lawson 9"x9"	No Sump MLD-FGD-0909	<u>Floor/Wall</u> 261/248	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	12"x12"	MLD-FGD-1212	365/340	
	18"x18"	MLD-FGD-1818	816/712	
	With Sump MLD-SG-0909	261/248		
	MLD-SG-1212	365/340		
	MLD-SG-1818	816/712		
	Lawson 6" Round Skimmer Equalizer/Suction Outlet	MLD-SG-06	<u>Floor/Wall</u> 44/49	Sump and Grate required for installation



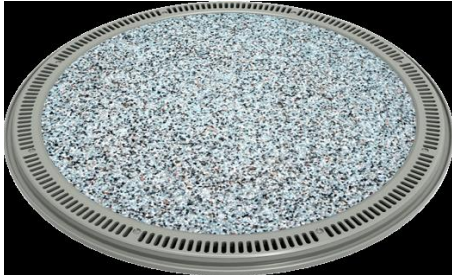
Neptune Benson


VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Neptune Benson 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
	Paddock 20"X 20"	2020 PCDC	Floor: 1200 (only)	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Paddock 24"x 24"	2424 PCDC	Floor: 1420 Wall: 1420	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Paddock 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	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Paddock 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
	<p>Paramount</p> <p>Only allowed on main drains – unless individually approved</p>	SDX Retro	Floor: 200 Wall: 192	Sumpless – Main drain only
	<p>Paramount SDX2 Retro</p> <p>Retrofits suction fittings up to 10" diameter</p>	SDX2 Retro	<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>Superflow 360</p> <p>Pebble Top Drain Cover (20") with grate attached - Unblockable</p> <p>OpenFlow 360</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>





VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Paramount Buzztop Channel Drain	004-203-0010xx (for mfg. sump) 004-203-0020-xx (for field-built sump)	Floor Only: 120	Use Sump Included - Or - 3" minimum sump depth entire length of cover




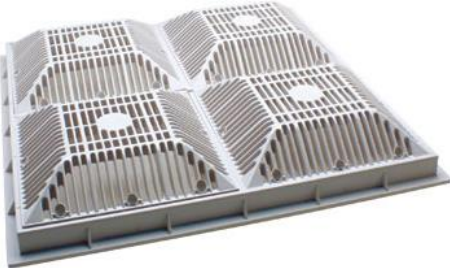
Pentair

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Pentair 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
	<p>Waterway</p> <p>Super Maxi Flow for Skimmer Equalizer</p>	640-801x	164 gpm	Sumpless
	<p>Waterway</p> <p>SPC-3V without vacuum break</p>	640-358x	180 gpm	Sumpless
	<p>Waterway</p> <p>6" Equalizer Cover</p>	640-8200 640-8230 640-8220 640-8210 640-8240 640-8250	191 gpm 136 gpm 77 gpm	Sumpless
	<p>Waterway</p> <p>Tru Flo 8" Covers</p>	640-180x	Floor: 153 Wall: 96	<p><u>Distance from Pipe to Cover</u></p> <p>At least 1.5x pipe diameter</p>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
	Waterway Tru Flo 10" Covers	640-190x	Floor: 200 Wall: 136	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Waterway 10" Ultra Retro Drains	640-213x	Floor: 224 Wall: 192	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Waterway 10" Ultra-Retro Drains - Vinyl	640-214x	Floor: 224 Wall: 192	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Waterway 8" Anti-Vortex Drains	640-231x	Floor: 100 Wall: 64	<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
	Waterway 9" x 9"	640-479x	Floor: 289 Wall: 208	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Waterway 12" x 12"	640-472x	Floor: 356 Wall: 280	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Waterway 24"x24"	640-476x	Floor: 2035 (only)	<u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter
	Waterway 18" x 18"	640-477x	Floor: 788 (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
 <p>UNBLOCKABLE</p> <p>VGB 2008</p> <p>NSF</p> <p>Hydrostatic Valve available.</p>	<p>Waterway</p> <p>32" Ultra Strip Drain - Manufactured Sump</p>	640-132x	<p><u>Outer Ports</u> Floor: 352 Wall: 304</p> <p><u>Center Port</u> Floor: 288 Wall: 232</p>	Sump Included
 <p>UNBLOCKABLE</p> <p>VGB 2008</p> <p>NSF</p>	<p>Waterway</p> <p>32" Ultra Strip Drains – Field Built Sumps</p>	640-133x	<p><u>Outer Ports</u> Floor: 352 Wall: 304</p> <p><u>Center Port</u> Floor: 288 Wall: 232</p>	<p><u>Distance from Pipe to Cover</u> At least 1.5x pipe diameter – meet APSP requirements</p>
 <p>UNBLOCKABLE</p> <p>VGB 2008</p> <p>NSF</p> <p>Hydrostatic Valve available.</p>	<p>Waterway</p> <p>32" Diamond Strip – Concrete</p>	640-136xv	<p><u>Outer Ports</u> Floor: 320 Wall: 240</p> <p><u>Center Port</u> Floor: 280 Wall: 216</p>	Sump Included
 <p>UNBLOCKABLE</p> <p>VGB 2008</p> <p>NSF</p>	<p>Waterway</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>

VGB Approved Drain Cover	Manufacturer/Description	Model #	Max Flow in GPM	Sump Info
 <p>UNBLOCKABLE</p> <p>VGB 2008</p> <p>NSF</p> <p>Hydrostatic Valve available.</p>	<p>Waterway</p> <p>32" Ultra Strip Drains - Vinyl</p>	<p>640-130xv</p>	<p><u>Outer Ports</u> Floor: 352 Wall: 304</p> <p><u>Center Port</u> Floor: 288 Wall: 232</p>	<p>Sump Included</p>
 <p>UNBLOCKABLE</p> <p>VGB 2008</p> <p>NSF</p> <p>Hydrostatic Valve available.</p>	<p>Waterway</p> <p>32" Diamond Strip Drains – Vinyl</p>	<p>640-134xv</p>	<p><u>Outer Ports</u> Floor: 320 Wall: 240</p> <p><u>Center Port</u> Floor: 280 Wall: 110</p>	<p>Sump Included</p>